# TABLE OF CONTENTS

**Letter from President Jarrell** ......................................................... 8

**UMB Fast Facts** ........................................................................ 9

**Experts** ....................................................................................... 13

## A. The Future of Health Care

### I. Cancer Treatment
- Greenebaum Cancer Center – Kevin Cullen ........................................... 24
- Maryland Proton Treatment Center – William Regine .......................... 68

### II. Education
- Academic interactions – Dean Roger Ward ........................................ 82
- Academic programs – Jenny Owens ..................................................... 62
- Accountability – Dean Roger Ward ..................................................... 82
- Dentistry – Dean Mark Reynolds ......................................................... 69
- Developing nurse educators – Susan Bindon ....................................... 15
- Graduate education – Erin Golembewski .......................................... 37
- Interprofessional – Heather Congdon ................................................. 23
- Law – Dean Donald Tobin ................................................................. 79
- Medical cannabis education – Dean Natalie Eddington ..................... 30
  - Leah Sera ....................................................................................... 72
- Medical and life sciences education – James Kaper ......................... 47
- Medicine, federal funding – Dean E. Albert Reece ............................... 68
- Nursing – Louise Jenkins ................................................................... 45
- Nursing, interprofessional – Dean Jane Kirschling ............................... 49
- Online learning, entrepreneurial education – Flavius Lilly .................. 52
- Pharmacy – Dean Natalie Eddington ................................................. 30
  - Cherokee Layson-Wolf .................................................................... 51
- Physician assistant programs – Cherilyn Hendrix ............................... 41
  - Gerald Kayingo ................................................................................ 48
- Social innovation in learning – Jenny Owens ....................................... 62
- Social work – Dean Judy Postmus ...................................................... 66
- Team-based education – President Bruce Jarrell ................................ 44

### III. Pain and Neuroscience
- Brain injury – Alan Faden ....................................................................... 33
- Chronic pain – Susan Dorsey ................................................................. 28
- Pain modulation – Luana Colloca .......................................................... 22
- Pain and neuroscience – Man-Kyo Chung .......................................... 20
- Pain and palliative care – Mary Lynn McPherson ............................... 57

### IV. Other Specialties
- Cardiovascular research – Charles Hong ............................................. 43
- COVID-19 immunizations – Cherokee Layson-Wolf ......................... 51
  - Deanna Tran ..................................................................................... 79
## Genomics – Claire Fraser ........................................... 34
Global vaccine development – Myron Levine .................................. 52
Health specialization in social work – Melissa Bellin ................................. 14
HIV/AIDS – Robert Gallo ........................................................................ 36
Infectious diseases – Kimberly Claesy ....................................................... 21
– Emily Heil .............................................................................. 40
Medicine in underserved areas – Richard Colgan ................................. 22
Personalized medicine – Alan Shuldiner ................................................. 74
Population health, telemedicine – Magaly Rodriguez de Bittner .......................... 70
Telemedicine, medical practice – Eric Weintraub ........................................ 83
Translational/clinical research – Stephen Davis ........................................... 26
Trauma – Thomas Scalea .......................................................................... 72

### B. Global Health

#### I. Community Engagement

Valli Meeks ............................................................................ 57

#### II. Emergency Medicine in Developing Countries

Brian Browne ........................................................................... 18

#### III. Emerging Diseases

Matthew Frieman ........................................................................ 35

#### IV. Interprofessional Education and Policy

Virginia Rowthorn .......................................................................... 71
Magaly Rodriguez de Bittner ................................................................. 70

#### V. Health Equity

Yolanda Ogbolu ........................................................................... 61

#### VI. Regulatory Affairs

Dean Natalie Eddington ......................................................................... 30
Joga Gobburu ............................................................................... 37
James Polli .................................................................................... 66

#### VII. Vaccine Development and Public Policy

Kathleen Neuzil ............................................................................ 61

### C. Ensuring Access and Equity in Health Care

#### I. Elder Care

Care for dementia patients – Elizabeth Galik ........................................ 35
Dental public health, Medicare – Richard Manski ...................................... 54
Geriatrics – Nicole Brandt ..................................................................... 17
Gerontology/aging – Jay Magaziner ......................................................... 53
– Barbara Resnick ........................................................................... 69
Gerontology and thanatology – Diane Martin ........................................ 55

#### II. Pediatrics

Childhood mental health – Nancy Lever ................................................ 51
Children’s health – Steven Czinn ................................................................ 25
Children’s nutrition – Maureen Black .................................................... 16
Dentistry – Vineet Dhar ......................................................................... 26
Mental health, prescribing of antipsychotics to children – Susan dosReis ....... 29
Oncology – Paul Shapiro .............................................................. 73
  – James Trovato ................................................................. 80
Psychiatric illness – Sarah Edwards ......................................... 31

III. Underserved Populations
Health equity – Erin Hager ....................................................... 39
Health outcomes improvement interventions for populations experiencing health disparities – Kelly Doran ........................................ 27
Specialty pharmacy programs – Lauren Hynicka ......................... 43

IV. Drug Policy - Generic Drugs and Pharmaceutical Health Outcomes
C. Daniel Mullins ................................................................. 60

V. From Hospital to Home
Charmaine Rochester-Eyeguokan .............................................. 70

VI. Behavioral Health
Raymond Love ....................................................................... 53
Michelle Pearce ..................................................................... 64

D. Caring for the Human Condition
I. Child Welfare
Child maltreatment, child abuse – Wendy Lane ......................... 50
Child neglect and abuse prevention – Howard Dubowitz .......... 30
Early childhood caries, nutrition – Vineet Dhar ......................... 26
Family and community medicine – David Stewart ................... 77
Foster care – Richard Barth .................................................... 14
Mental health needs of children at environmental risk – Brenda Jones Harden .......... 46
Pediatric pharmacy – Jill Morgan ............................................. 59

II. Addiction/Overdose
Gambling addiction – Christopher Welsh ................................. 84
Impulsivity/addictions – Lynn Oswald ...................................... 62
Overdose response programs and prescribing of naloxone – Bethany DiPaula ........ 27
Opioid addiction – Eric Weintraub ......................................... 83
  – Christopher Welsh ........................................................... 84
Poison Center’s role in monitoring of the state overdose response program
  – Bruce Anderson ................................................................. 13
Prescription drug monitoring – Linda Wastila ......................... 83
Substance abuse – Fadia Shaya ............................................. 73
Substance use disorders – Charon Burda ................................ 19
  – Katherine Fornili .............................................................. 34

III. Women’s Health
Diabetes and pregnancy – Dean E. Albert Reece ....................... 68
Genomics – Jacques Ravel .................................................... 67
Health care quality and safety – Debra Bingham ...................... 15
Reproductive and infectious diseases – Rebecca Brotman ............ 18

IV. Workplace Health
Musculoskeletal injuries – Alison Trinkoff ................................. 80
Worksite wellness programs – Kelly Doran ............................... 27
<table>
<thead>
<tr>
<th>Section</th>
<th>Names</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. Palliative Care</td>
<td>Raya Kheirbek</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Mary Lynn McPherson</td>
<td>57</td>
</tr>
<tr>
<td>VI. Low-Income Services</td>
<td>Socioeconomic inequalities in health care - Richard Manski</td>
<td>54</td>
</tr>
<tr>
<td>VII. Climate Change</td>
<td>Robyn Gilden</td>
<td>37</td>
</tr>
<tr>
<td>VIII. Social Innovation, Social Entrepreneurship, Social Enterprise</td>
<td>J. Howard Kucher</td>
<td>49</td>
</tr>
<tr>
<td>E. Community Engagement</td>
<td>Anchor institutions – President Bruce Jarrell</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Community pharmacy – Cherokee Layson-Wolf</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Community and public health – Laura Allen</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>HIV/AIDS Dental Clinic – Valli Meeks</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Patient-centered research – C. Daniel Mullins</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>Social Work Community Outreach Service – Wendy Shaia</td>
<td>73</td>
</tr>
<tr>
<td>F. Legal Considerations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Environmental Law and Policy</td>
<td>Energy law – Seema Kakade</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>- Michael Pappas</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Food safety and environmental policy – Rena Steinzor</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>International – Peter Danchin</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>- Robert Percival</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>- Matiangai Sirleaf</td>
<td>75</td>
</tr>
<tr>
<td>II. Health Law and Policy</td>
<td>Advance directives – Diane Hoffmann</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Child welfare, prostitution policy – Corey Shdaimah</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>Dental hygiene – Deborah Cartee</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Drug pricing – Joey Mattingly</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>Family law and domestic violence – Leigh Goodmark</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>FDA and regulatory issues – Francis Palumbo</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Genetic privacy and law – Natalie Ram</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>Health equity – Kathleen Tracy</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>Public health policy – Jay Magaziner</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Scope of practice – Shannon Idzik</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>Tobacco regulation – Kathleen Hoke</td>
<td>42</td>
</tr>
<tr>
<td>III. Constitutional Law</td>
<td>Mark Graber</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Max Stearns</td>
<td>76</td>
</tr>
<tr>
<td>IV. Criminal Justice</td>
<td>Chaz Arnett</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>David Gray</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>Michael Pinard</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>Maneka Sinha</td>
<td>75</td>
</tr>
</tbody>
</table>
V. Business and Tax Law

Employment law – Deborah Thompson Eisenberg .................................................. 32
  - Marley Weiss .................................................................................................... 84
Intellectual property – Patricia Campbell ............................................................... 19
International law – William Moon ........................................................................ 59
  - Michael Van Alstine ....................................................................................... 81
Tax law – Andrew Blair-Stanek ............................................................................ 17
Tax and campaign finance laws – Dean Donald Tobin ......................................... 79

VII. Immigration Law

Maureen Sweeney .................................................................................................... 78

G. Research and Innovation

I. Genomics and Personalized Medicine

Claire Fraser ............................................................................................................ 34
Jacques Ravel .......................................................................................................... 67
Alan Shuldiner ....................................................................................................... 74
Owen White ........................................................................................................... 85
Hongbing Wang ..................................................................................................... 82

II. Pain

Man-Kyo Chung ..................................................................................................... 20
Luana Colloca ......................................................................................................... 22
Susan Dorsey ........................................................................................................... 28
Mary Lynn McPherson ............................................................................................ 57

III. Opioid Development

Andrew Coop ......................................................................................................... 23

IV. Antibiotic Resistance

Kimberly Claeyes ................................................................................................... 21
Emily Heil ............................................................................................................... 40
Amanda Oglesby ..................................................................................................... 62
Angela Wilks ........................................................................................................... 85

V. Aging

Care of dementia patients – Elizabeth Galik ....................................................... 35
Functional status in elderly patients – Barbara Resnick ....................................... 69
Long-term care/international approaches to aging populations – Kirsten Corazzini .................................................................................................................. 24
Long-term care regulations and training – Alison Trinkoff .................................. 80
Medications and the elderly – Nicole Brandt ......................................................... 17
Research on aging and mobility – Jay Magaziner ................................................. 53

VI. Transplantation

Medical technology, heart and lung disease – Christine Lau ............................ 51
  - Daniel Maluf ................................................................................................... 54
VII. Other Specialties

Basic science research, depression research – Scott Thompson ........................................ 78
Bioequivalence of brand and generic drugs – James Polli .................................................. 66
Blood therapeutics – Allan Doctor ....................................................................................... 27
Brain injury – Alan Faden ..................................................................................................... 33
Cancer therapeutics – Paul Shapiro ...................................................................................... 73
Cardiovascular health – Kelly Doran .................................................................................... 27
Diabetes and obesity – Dean E. Albert Reece ..................................................................... 68
Discovery-based medicine – Dean E. Albert Reece .............................................................. 68
Diseases of the eye – Bennie Jeng ......................................................................................... 45
Entrepreneurism – Dean Natalie Eddington ......................................................................... 30
Focused ultrasound, noninvasive therapies – Graeme Woodworth ..................................... 86
Global health – Bonnie Bissonette ........................................................................................ 16
  – Carlos Faerron Guzmán ................................................................................................. 33
  – Virginia Rowthorn ......................................................................................................... 71
Hearing loss – Ronna Hertzano ............................................................................................ 41
Interprofessional research – President Bruce Jarrell .............................................................. 44
Mass spectrometry – Maureen Kane ..................................................................................... 47
Metallotherapeutics – Sarah Michel ...................................................................................... 58
  – Angela Wilks .................................................................................................................. 85
Nanomedicine – Peter Swaan .................................................................................................. 77
  – Bruce Yu ........................................................................................................................ 86
Neuroscience research – Asaf Keller ..................................................................................... 48
Nursing informatics – Eun-Shim Nahm ............................................................................... 60
Obstetrics-gynecology – Katrina Mark .................................................................................. 55
Oral health technologies – Radi Masri .................................................................................. 55
Pharmacology and neuroscience – Margaret McCarthy ....................................................... 56
Research transparency – Peter Doshi .................................................................................... 28
Sepsis – Robert K. Ernst ....................................................................................................... 32
Sports medicine, orthopaedics – Andrew Pollak ................................................................. 65
Stem cell research – Curt Civin ............................................................................................. 21
Trauma surgery – David Efron ............................................................................................. 31

H. Safety, Security, and Privacy

I. Counterterrorism and Radiation Oncology
  Isabel Jackson ....................................................................................................................... 44

II. Emergency Preparedness and Cybersecurity
  Michael Greenberger .......................................................................................................... 39

I. Economic Development

I. Business Ventures
  Institutional planning – David George .................................................................................. 36

II. Community Engagement
  Community organizing and advocacy – Megan Meyer ....................................................... 58
### Diversity, Equity, and Inclusion

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patty Alvarez</td>
<td>87</td>
</tr>
<tr>
<td>Jeffrey Ash</td>
<td>87</td>
</tr>
<tr>
<td>Gregory Brightbill</td>
<td>87</td>
</tr>
<tr>
<td>Neijma Celestine-Donnor</td>
<td>88</td>
</tr>
<tr>
<td>Rosemary Ferreira</td>
<td>89</td>
</tr>
<tr>
<td>Shani Fleming</td>
<td>89</td>
</tr>
<tr>
<td>Diane Forbes Berthoud</td>
<td>90</td>
</tr>
<tr>
<td>Courtney Jones Carney</td>
<td>91</td>
</tr>
<tr>
<td>Russell McClain</td>
<td>91</td>
</tr>
<tr>
<td>Nicole Palmore</td>
<td>92</td>
</tr>
<tr>
<td>Sandra Quezada</td>
<td>92</td>
</tr>
<tr>
<td>Kristin Reavis</td>
<td>93</td>
</tr>
<tr>
<td>Julia Scott</td>
<td>94</td>
</tr>
</tbody>
</table>

### Research Centers

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interprofessional</td>
<td>95</td>
</tr>
<tr>
<td>Francis King Carey School of Law</td>
<td>96</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>97</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>102</td>
</tr>
<tr>
<td>School of Pharmacy</td>
<td>103</td>
</tr>
<tr>
<td>School of Social Work</td>
<td>106</td>
</tr>
</tbody>
</table>

GS = Graduate School
SOD = School of Dentistry
SOL = Francis King Carey School of Law
SOM = School of Medicine
SON = School of Nursing
SOP = School of Pharmacy
SSW = School of Social Work
Dear Friends and Colleagues:

As a policy leader, your constituents rely on you to tackle a range of issues. When you prepare for policy debates, it is important to draw from research, facts, and informed perspectives to assist in the decision-making process. For that reason, I would like to share the sixth edition of the *University of Maryland, Baltimore (UMB) Experts Guide*.

Within this resource, you will find a snapshot of the experts, researchers, and trailblazers who call UMB home — authorities in health care, law, cybersecurity, social welfare, community development, and more. UMB has passionate leaders among our faculty, staff, and students who share a commitment to service and a commitment to people in need. In addition, we list the many UMB research centers that extend our excellence. I hope that you will draw upon it as you develop and advance policies affecting Maryland communities and its citizens.

UMB is committed to Maryland. As the state’s only public health, law, and human services university, we award most of the state’s professional practice doctoral degrees each year. The University consists of six highly ranked professional schools and our interdisciplinary Graduate School. Together, we improve the human condition through leadership in education, research, clinical care, and public service.

This book does not — and could not — include every expert at UMB. For additional resources, please consult UMB’s website, [www.umaryland.edu](http://www.umaryland.edu), or contact Kevin P. Kelly, JD, chief government affairs officer and vice president, at 410-706-2535.

UMB’s mission includes a call to improve the human condition and serve the public good, and I’m deeply grateful that you also share our commitment to serving others. We look forward to working with you as you craft smart, ethical, and humane legislation that ably serves the public good.

Sincerely,

Bruce E. Jarrell, MD, FACS

*President*
UMB FAST FACTS

MISSION

To improve the human condition and serve the public good of Maryland and society at-large through education, research, clinical care, and service.

VISION

The University will excel as a pre-eminent institution in its missions to educate professionals, conduct research that addresses real-world issues affecting the human condition, provide excellent clinical care and practice, and serve the public with dedication to improve health, justice, and the public good. The University will become a dominant economic leader of the region through innovation, entrepreneurship, philanthropy, and interdisciplinary and interprofessional teamwork. The University will extend its reach with hallmark local and global initiatives that positively transform lives and our economy. The University will be a beacon to the world as an environment for learning and discovery that is rich in diversity and inclusion. The University’s pillars of professionalism are civility, accountability, transparency, and efficiency. The University will be a vibrant community where students, faculty, staff, visitors, and neighbors are engaged intellectually, culturally, and socially.

SCHOOLS

<table>
<thead>
<tr>
<th>School</th>
<th>Year Founded</th>
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<tbody>
<tr>
<td>School of Medicine</td>
<td>1807</td>
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<tr>
<td>Carey School of Law</td>
<td>1824</td>
</tr>
<tr>
<td>School of Dentistry</td>
<td>1840</td>
</tr>
<tr>
<td>School of Pharmacy</td>
<td>1841</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>1889</td>
</tr>
<tr>
<td>Graduate School</td>
<td>1918</td>
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<tr>
<td>School of Social Work</td>
<td>1961</td>
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FACILITIES

Located in Baltimore, the campus consists of 65 acres with 6.5 million gross square feet of space in 55 buildings.

CORE VALUES

RESPECT and INTEGRITY
WELL-BEING and SUSTAINABILITY
EQUITY and JUSTICE
INNOVATION and DISCOVERY

STUDENTS — The Future of Care

As the state’s only public health, law, and human services university, UMB confers the majority of professional practice doctoral degrees awarded in Maryland each year.

ENROLLMENT BY PROGRAM

<table>
<thead>
<tr>
<th>School</th>
<th># of students</th>
<th>% of total</th>
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<tbody>
<tr>
<td>13% UNDERGRADUATE</td>
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<tr>
<td>Nurses</td>
<td>886</td>
<td>12%</td>
</tr>
<tr>
<td>Dental Hygienists</td>
<td>27</td>
<td>0.4%</td>
</tr>
<tr>
<td>Medical Technologists</td>
<td>17</td>
<td>0.2%</td>
</tr>
<tr>
<td>Undergraduate Total</td>
<td>930</td>
<td>13%</td>
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<tr>
<td>87% PROFESSIONAL/GRADUATE</td>
<td></td>
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</tr>
<tr>
<td>Biomedical</td>
<td>1,554</td>
<td>22%</td>
</tr>
<tr>
<td>Nurses</td>
<td>1,244</td>
<td>17%</td>
</tr>
<tr>
<td>Social Workers</td>
<td>877</td>
<td>12%</td>
</tr>
<tr>
<td>Lawyers</td>
<td>813</td>
<td>11%</td>
</tr>
<tr>
<td>Physicians</td>
<td>602</td>
<td>8%</td>
</tr>
<tr>
<td>Dentists</td>
<td>580</td>
<td>8%</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>442</td>
<td>6%</td>
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<tr>
<td>Physical Therapists</td>
<td>202</td>
<td>3%</td>
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<tr>
<td>Prof./Graduate Total</td>
<td>6,314</td>
<td>87%</td>
</tr>
<tr>
<td>Total — Fall 2021</td>
<td>7,244</td>
<td>100%</td>
</tr>
</tbody>
</table>
STUDENT DEMOGRAPHICS

27% MALE  
73% FEMALE  
66% IN-STATE  
34% OUT-OF-STATE  

18% AFRICAN AMERICAN  
45% MINORITIES  

EMPLOYMENT — FALL 2021

Faculty 3,123  
Executive/Professional 2,637  
Support Personnel 1,302  
Total Regular Employees 7,062  
Student Employees 793  
Total Employees 7,855

AN ENTREPRENEURIAL CAMPUS

FY 2021 - Sources of Funds

<table>
<thead>
<tr>
<th>Source</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Contracts and Grants</td>
<td>43%</td>
</tr>
<tr>
<td>Clinical (Patient) Care</td>
<td>25%</td>
</tr>
<tr>
<td>Research and Clinical Care</td>
<td>68%</td>
</tr>
<tr>
<td>State Funds</td>
<td>19%</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>12%</td>
</tr>
<tr>
<td>Auxiliary Fees</td>
<td>1%</td>
</tr>
<tr>
<td><strong>Total $1.31 Billion</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

HISTORY

1807  
The Maryland General Assembly chartered the College of Medicine; it is now the nation's oldest public medical school.

1812  
The Maryland General Assembly rechartered the College of Medicine as the University of Maryland and expanded its mission.

1824  
The forerunner of Maryland Carey Law, the Maryland Law Institute, was opened.

1840  
The world’s first dental college, the Baltimore College of Dental Surgery, was chartered.

1841  
The following year, the Maryland General Assembly chartered the College of Pharmacy, making it the fourth-oldest pharmacy school in the nation.

1889  
Louisa Parsons, a colleague of Florence Nightingale, established the School of Nursing, one of the nation's oldest formal nursing training programs, at the University of Maryland.

1918  
To promote and enhance research, scholarship, and advanced study, the Graduate School opened.

1961  
In response to growing social and cultural needs, the School of Social Work opened.

NATIONAL RANKINGS

Dentistry 4th  
NIH Funding (Publics) FY 2020

Medicine 9th  

Law  

Nursing  

Pharmacy 14th  

Social Work 17th  
DRIVING THE ECONOMY

Dramatic Achievements
• Fiscal Year 2021: $692 million in grants and contracts
• Yield: $1.5 million research dollars per core faculty
• With combined research expenditures of $1.1 billion, UMB and the University of Maryland, College Park ranked No. 8 among public institutions in the National Science Foundation’s Higher Education Research and Development survey for FY19.

Return on Investment
• Yields $13 in economic activity for each $1 of state general fund appropriation
• Generates more than 17,000 jobs
• Together with the University of Maryland Medical Center and affiliated physician practices, generates $7.9 billion in annual economic activity

COMMERCIAL POTENTIAL

In FY21, UM Ventures — the joint technology transfer enterprise of UMB and the University of Maryland, College Park — accelerated the translation of research into market-ready technologies and therapies that improve health, wellness, safety, and productivity. Commercialization of technology at UMB alone was substantial with:
• 122 new patents awarded
• 46 new license agreements
• 11 new startup companies
• 4 products based on UMB technology made it to the market
• 2 new UM Ventures investments in UMB startups

UMB technologies and startups are making significant strides in achieving regulatory approvals and raising funding. Recent successes include:
• Isoprene Pharmaceuticals, a therapeutic startup developing novel small molecules for the treatment of cancer, received a two-year, $2 million Small Business Innovation Research grant from the National Cancer Institute in support of ongoing advanced preclinical studies. Isoprene’s technology has received UM Ventures investment, and the company is managed by the New Ventures Initiative team.
• The Brethe OXY-1 System received FDA 510(k) approval in October 2020, clearing it for use in patients. Invented at UMB and developed by UMB startup Brethe, the device is the world’s first portable artificial lung system. Brethe received early investment from UM Ventures and raised more than $16 million in funding before being acquired by Abiomed in April 2020.
• CoapTech’s PUMA-G System, which enables ultrasound-based placement of percutaneous gastrostomy feeding tubes, received CE Mark approval, paving the way for the company to bring its device to the European market. The company also was awarded a two-year, $1.6 million National Institutes of Health Small Business Innovation Research Phase II grant to finalize development and trial of its Pediatric PUMA-G System.
• Pumas-AI rolled out a significant update to its end-to-end pharmaceutical modeling and simulation platform for quantitative analysis across the drug development lifecycle. The platform provides pharmaceutical and biotechnology companies and their investors usable quantitative metrics on technical, regulatory, and commercial success probabilities.

UM Ventures also provides tailored funding, educational programs, and other resources that strengthen the commercialization of high-potential University-based discoveries, with specific efforts to encourage UMB-created or -sponsored technology companies to locate in Baltimore City. Highlights include:
• The Maryland Momentum Fund (MMF), a $10 million early-stage investment program investing in University System of Maryland-affiliated companies, has invested $6.2 million in 23 companies with $57 million in matching funds from more than 150 co-investors. USM institutions co-invested an additional $2.2 million alongside MMF. Five UMB-affiliated companies have received investment: NextStep Robotics, NeoProgen, Veralox, KaloCyte, and ARMR Systems.
• The Baltimore Fund has encouraged the expansion and location of 24 companies in qualifying areas, creating or retaining more than 500 jobs.
• The Life Sciences IP Fund has assisted 24 early-stage technologies, including 10 device and 11 therapeutic technologies, in moving toward commercialization. Three new UMB startups — Isoprene Pharmaceuticals, Protaryx, and GEn1E Lifesciences — have been formed as a result of the program.

The 14-acre University of Maryland BioPark, home to more than 1,000 employees, provides sophisticated lab and office space for nearly three dozen early-stage life science companies, University-based startups, and sophisticated bioscience industry leaders such as Illumina, Catalent, and Pharmaron.
COMMUNITY SERVICE

Students, faculty, and staff contribute more than 2 million hours of service annually to citizens throughout Maryland, providing programming that improves health and wellness, advances justice, promotes economic development, and strengthens families and communities.

HEALTH CARE/LEGAL AND SOCIAL JUSTICE SERVICES

School of Dentistry
• The only dental school in Maryland also is the largest provider of oral health services to Medicaid children and the largest provider of oral health care to people living with HIV disease who are uninsured or underinsured.
• Nearly 19,000 patients are treated and more than 76,000 patient visits are recorded each year.

Francis King Carey School of Law
• Each year, 150 Carey Law students provide nearly 75,000 hours of free legal services through 18 legal clinics, making the Clinical Law Program one of the region’s largest public interest law firms.

School of Medicine
• Attending physicians at the University of Maryland Medical Center are faculty members of the School of Medicine (UMSOM).
• A record 163 UMSOM physicians were named “Top Docs” by Baltimore magazine in 2020.
• Research funding in Fiscal Year 2021 totaled $555 million.

School of Nursing
• The nurse’s clinic at Paul’s Place, a community outreach center in Southwest Baltimore, provided nursing services to 391 communities members in 2020. As a result, the clinic connected 83 percent of Paul’s Place guests to affordable and accessible medical care. The clinic serves as a clinical placement for nursing and medical students at UMB.

School of Pharmacy
• Faculty and staff provide clinical service to approximately 35,000 patients each year in more than 24 practice settings in specialties such as community pharmacy, cardiology, oncology, pediatrics, HIV/AIDS, mental health, diabetes, geriatrics, and palliative care.
• The school offers nine academic programs and has a research portfolio of more than $32 million in grants and contracts.

School of Social Work
• More than 800 social work students provide over 500,000 hours of care to Maryland citizens annually.

ENGAGEMENT IN BALTIMORE

• The new UMB Community Engagement Center (CEC), adjacent to campus and almost seven times larger than the original CEC, provides direct health, employment, legal, and social services to West Baltimore residents, and works with them on neighborhood-strengthening projects.
• The UMB CURE Scholars Program is a long-term mentoring initiative designed to excite West Baltimore middle and high school students about science and begin preparing them for rewarding careers in research and health care.
• The School of Social Work operates Promise Heights, a network of partnerships and services intended to stabilize and strengthen families in a high-need West Baltimore neighborhood and help children succeed in school.
• The Partnership with West Baltimore is a collaboration between UMB and the University of Maryland Medical Center designed to improve population health, stimulate economic and community development, boost academic achievement, and nurture community connections.

FOR MORE INFORMATION, CONTACT THE UNIVERSITY OF MARYLAND, BALTIMORE GOVERNMENT AFFAIRS OFFICE AT 410-269-5087.

The University of Maryland, Baltimore does not discriminate on the basis of race, color, religion, national origin or ancestry, sex, sexual orientation, gender identity or expression, physical or mental disability, marital status, protected veteran’s status, or age in its programs and activities. Specifically, Title IX prohibits discrimination on the basis of sex in UMB’s programs and activities.
LAURA ALLEN, MA, MS, RN (SON)
Clinical Instructor, Department of Family and Community Health
Program Director, Community and Public Health Environmental Initiative

Laura Allen oversees the Community and Public Health Environmental Initiative (CPHEI), a collaborative effort with the Maryland Family Network that provides health and environmental oversight for children from birth through age 5 and their families who are served by Baltimore City Early Head Start (EHS) and Head Start (HS) centers. Each semester, more than 25 students from the School of Nursing’s (SON) Bachelor of Science in Nursing, RN-to-BSN, Clinical Nurse Leader Master’s Option, and Community/Public Health Nursing master’s specialty programs participate in CPHEI under her guidance. Allen also leads CPHEI’s growth, including overseeing the facilitation of health screenings and well-child exams for children in EHS and HS centers by SON advanced practice nursing students and clinical faculty.

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BRUCE ANDERSON, PHARMD, DABAT (SOP)
Professor, Department of Pharmacy Practice and Science
Executive Director, Maryland Poison Center

Dr. Anderson joined the School of Pharmacy (SOP) faculty in 1993 after completing a fellowship in clinical toxicology at the University of California, San Diego and the San Diego Regional Poison Center. He is a member of the American Academy of Clinical Toxicology and American Association of Poison Control Centers. He also has served as a member of the American Board of Applied Toxicology as well as a trustee for the American Academy of Clinical Toxicology. A center within SOP’s Department of Pharmacy Practice and Science, the Maryland Poison Center (MPC) is certified by the American Association of Poison Control Centers as a regional poison center. It operates 24 hours a day, every day of the year, and is staffed by pharmacists and nurses who are certified as specialists in poison information. Though the center initially served only physicians when it first moved to SOP 50 years ago, it has grown into a free public service that responds to more than 40,000 calls from Maryland residents each year. MPC staff members work to prevent poisonings through outreach and education while optimizing care for individuals whose cases need to be managed in a health care facility. Since its founding in 1972, the center has responded to more than 2 million calls from Maryland residents. Those calls have addressed several important public health incidents, such as the Tylenol cyanide poisonings, Sunlight dish detergent mailing, anthrax release, Baltimore’s Howard Street tunnel fire, and the emergence of new drugs of abuse such as synthetic cannabinoids and “bath salts.”

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CHAZ ARNETT, JD (SOL)

Associate Professor

Professor Arnett teaches in the areas of criminal procedure, race and technology, juvenile law, and education law, and his research interests lie at the intersection of race, surveillance, and technology. His scholarship examines the ways in which surveillance measures are used within the criminal justice system, in corrections and policing, and the impact these practices have on historically marginalized groups and vulnerable populations. His research agenda is aimed at highlighting how law and policy pave the way for new technologies, through their design and implementation, to reproduce and entrench legacies of state-sponsored racialized surveillance. Before joining the faculty, Professor Arnett was an assistant professor at the University of Pittsburgh School of Law and a trial attorney with public defender’s offices in Baltimore and New Orleans. As a recipient of the Satter Human Rights Fellowship, he also has worked with the International Center for Transitional Justice on issues of constitutional development in Zimbabwe and on asylum cases for Zimbabwe refugees in South Africa.

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RICHARD P. BARTH, PHD, MSW (SSW)

Professor

The author of 12 books and more than 200 scholarly articles, Dr. Barth is recognized as a leading expert on several social topics including social work education, adoption, foster care, and child welfare. Dr. Barth, who is the former dean of the School of Social Work and past president of the American Academy of Social Work and Social Welfare, speaks across the globe on important social work topics and ways social work helps improve communities and the human condition.

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MELISSA “MEL” BELLIN, PHD (SSW)

Associate Professor

Dr. Bellin is chair of the School of Social Work’s Health Specialization and a noted social work/health care researcher with numerous publications dedicated to social work practice in health care, interdisciplinary collaboration, and families adapting to chronic illness and disability.

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SUSAN BINDON, DNP, RN, NPD-BC, CNE, CNE-CL (SON)

Associate Professor and Associate Dean for Faculty Development, Department of Partnerships, Professional Education, and Practice

Dr. Bindon has special interest and expertise in teaching, learning, and developing nurse educators in academic and practice settings. She has an ability to translate complex concepts and convey them in a meaningful and accessible way. She leads a five-year statewide grant to prepare new and novice clinical nursing faculty — an urgent need as faculty and nursing shortages intensify. She teaches in the School of Nursing Institute for Educators’ graduate teaching certificate program and mentors other faculty in her role as associate dean. She is president of the Association for Nursing Professional Development and served as editor of the Journal for Nurses in Professional Development. She is a fellow in the American Association of Colleges of Nursing's academic nursing leadership program and was awarded the organization’s Excellence and Innovation in Teaching Award. She maintains a faculty practice as an education consultant in the University of Maryland Medical Center’s Office of Clinical Practice and Professional Development.

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DEBRA BINGHAM, DRPH, RN, FAAN (SON)

Associate Professor, Department of Partnerships, Professional Education, and Practice

Dr. Bingham’s expertise is in health care quality and safety. Her primary clinical focus is the use of implementation and improvement science to improve the health of women and newborns. She has co-authored numerous articles and tool kits and developed a number of quality improvement initiatives that have led to reductions in maternal and neonatal morbidity and mortality at the national and state levels. Dr. Bingham is the principal investigator for the Advancing Implementation Science Education grant, which is focused on expanding the use of implementation and improvement science and quality improvement methods and tools by Doctor of Nursing Practice students and faculty at the School of Nursing. Dr. Bingham also is the founder and executive director of the Institute for Perinatal Quality Improvement. She is regularly interviewed and quoted by the news media.

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BONNIE BISSONETTE, EDD (GS)
Director, Education Abroad and International Safety

Dr. Bissonette works to strengthen international opportunities for UMB faculty and students by working collaboratively with faculty and staff. She works to develop processes and procedures, appropriate safety and security mechanisms, and other logistics relevant to international experiences. Before coming to UMB, Dr. Bissonette was associate dean of business and international education at Northcentral Technical College in Wausau, Wis., for 10 years. Prior to that, she was a U.S. Foreign Service officer (management), serving for 13 years at U.S. embassies in England, Madagascar, Mauritius, Eritrea, and Qatar. Dr. Bissonette was vice president for public policy and practice on the board of directors of NAFSA-Association of International Educators from 2017 to 2019 and served as NAFSA’s secretary on the board of directors from 2008 to 2011. She is a frequent presenter on international education leadership topics as well as cultural understanding and international safety and security. Dr. Bissonette received her bachelor’s degree in international studies from the University of St. Thomas in St. Paul, Minn., and her master’s in international affairs from George Washington University in Washington, D.C.

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MAUREEN BLACK, PHD (SOM)
Professor Emeritus, Department of Pediatrics

Dr. Black is a pediatric psychologist who has made significant contributions to the intersection of child development and nutrition. Dr. Black’s training is in developmental science and pediatric psychology. She is a licensed psychologist, chaired the Division of Growth and Nutrition in the Department of Pediatrics from 2003-2021, and directed an interdisciplinary growth and nutrition practice for children with growth and/or feeding problems for 25 years.

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ANDREW BLAIR-STANEK, JD (SOL)

Professor

Professor Blair-Stanek is an expert in tax law whose research addresses multinational corporations’ transfers of intellectual property (e.g., patents) to avoid U.S. tax. Separately, he also has considered how to “crisis-proof” tax law against financial crises. Before joining the faculty at the Francis King Carey School of Law, he practiced tax law at McDermott, Will & Emery, LLP in Washington, D.C., where his practice included bankruptcy taxation, intellectual property transactions, and international tax planning. He also worked as a software design engineer for Microsoft Corp. and is the inventor of U.S. patents 7,617,204 and 7,580,951.

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NICOLE BRANDT, PHARMD, MBA (SOP)

Professor, Departments of Pharmacy Practice and Science and Pharmaceutical Health Services Research
Executive Director, Peter Lamy Center on Drug Therapy and Aging

Dr. Brandt completed her PharmD in 1997 and geriatrics residency training in 1998 from the School of Pharmacy. Since joining the faculty in 1999, she has expanded geriatric training opportunities (e.g., geriatrics pathway, accredited geriatrics residency, co-investigator on geriatric education consortium). Her passion is promoting optimal care for older adults through her educational, clinical, and health care policy work. She has directed projects such as Medication Use Safety Training for Seniors, Assisted Living Medication Management and Safety, and Medication Therapy Management Standardized format development. Her public policy advocacy occurs on the state and national levels. She worked with the Maryland Board of Pharmacy on the 2008 Maryland Assisted Living Regulations. In addition, she completed a tenure at the Centers for Medicare and Medicaid Services as a special technical director in the Nursing Home Survey and Certification section working on interpretive guidance regarding medication management in nursing homes.

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REBECCA M. BROTMAN, PHD, MPH (SOM)
Assistant Professor, Department of Epidemiology and Public Health

Dr. Brotman is an expert on a range of women's health issues. Her scientific research spans a broad range of topics in reproductive and infectious diseases epidemiology. She is developing a research program on the epidemiology of bacterial vaginosis (BV). BV is a disruption of the vaginal microbiota that is associated with adverse obstetric and gynecologic outcomes. National surveys indicate the prevalence of BV among U.S. women is 29 percent, yet, despite considerable effort, the etiology of BV remains unknown. Dr. Brotman has completed a study that suggested that vaginal douching cessation may reduce the risk for BV. Specimens collected in the study also revealed surprising observations on the fluctuation of BV and are the focus of her current research. Future work will involve studies of the pathophysiology of BV, including the behavioral and biological factors associated with the acquisition, remission, and recurrence of BV.

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BRIAN J. BROWNE, MD (SOM)
Professor and Chair, Department of Emergency Medicine

Dr. Browne is known as one of the pioneers of emergency medicine and remains a leading researcher, educator, and clinician in the field around the world. In two decades at the School of Medicine, he helped turn a small emergency room and a program that originally was organized as a section of General Surgery into a separate, highly esteemed Emergency Department with 75 faculty members and 49 residents. Dr. Browne also has developed an extensive Emergency Medicine Network that encompasses 13 emergency departments across the state of Maryland, in addition to the adult Emergency Department at the University of Maryland Medical Center. Through this network, 550,000 patients are assessed and treated each year. He has been named a “Top Doctor” in emergency medicine by Baltimore magazine and is a popular speaker at professional forums in the United States and abroad, noting that the emergency room has evolved into becoming the diagnostic center of the hospital.

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CHARON BURDA, DNP, PMHCNS, PMHNP-BC, CARN-AP (SON)
Associate Professor, Department of Family and Community Health
Specialty Director, Psychiatric/Mental Health Nurse Practitioner

Dr. Burda’s work has focused on developing and collaborating on interprofessional solutions for patients with co-occurring psychiatric and substance use diagnoses. Her work has been published in multiple journals including the *Journal of Addictions Nursing*. She serves on the board of the International Nurses Society on Addictions as a director at large. In 2010, she co-developed the course Addictions, Society, and the Role of the Nurse, which has become one of the most popular undergraduate electives at the School of Nursing. In 2020, she collaborated with colleagues to develop a 12-credit online graduate certificate in addictions for nurses. Dr. Burda currently has two federal interdisciplinary grants: a U.S. Health Resources and Services Administration grant to build a behavioral health workforce to meet the needs of those with substance use disorders and comorbid conditions, and a Substance Abuse and Mental Health Services Administration grant focused on addiction workforce expansion through buprenorphine waiver training and longitudinal experience in opioid use disorder care.

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PATRICIA CAMPBELL, LLM, JD, MA (SOL)
Professor and Director, Intellectual Property Law Program
Director, Maryland Intellectual Property Legal Resource Center

Professor Campbell joined the Francis King Carey School of Law faculty in 2007 after spending several years in private practice with law firms and corporations. Before her faculty appointment, she was associate general counsel at Kajeet, Inc., a telecommunications company in Bethesda, Md. She teaches courses on patent law and trademarks and unfair competition at Maryland Carey Law. Professor Campbell teaches at the Intellectual Property Clinic and the Maryland Intellectual Property Legal Resource Center, both located at the University of Maryland, College Park (UMCP). In addition to her law faculty appointment, she is an associate professor at the Maryland Technology Enterprise Institute, located within the A. James Clark School of Engineering at UMCP.

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DEBORAH L. CARTEE, RDH, MS (SOD)
Clinical Associate Professor
Junior Clinical Coordinator, Chief, and Admissions Director, Division of Dental Hygiene

Professor Cartee earned her MS degree in management from University of Maryland University College, her bachelor’s degree in dental hygiene from the School of Dentistry, and her associate’s degree in dental hygiene from Baltimore City Community College. She has extensive clinical experience, has been teaching full time for 18 years, and has been awarded Teacher of Year by the junior dental hygiene classes six times. Professor Cartee is a past president and legislative chair of the Maryland Dental Hygienists' Association (MDHA). She has constructed bills, lobbied, and provided written and expert testimony leading to successful passage of legislation changing the dental hygiene scope of practice and allowing dental hygienists to administer local anesthesia and nitrous oxide. She received the MDHA Symbol of Excellence Award in 2012 and was appointed by Gov. Larry Hogan to serve on the Maryland Commission for Women, chairing the Achievements and Recognition Committee. She also was appointed as an examiner for the Commission of Dental Competency Assessment. Her career goal has been mentoring and empowering students to be independent future leaders.

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MAN-KYO CHUNG, DMD, PHD (SOD)
Professor, Department of Neural and Pain Sciences
Interim Assistant Dean of Research
Co-Director, University of Maryland Center to Advance Chronic Pain Research

Dr. Chung received his DMD and PhD degrees from Kyung Hee University in Seoul, South Korea. After completing postdoctoral training at Johns Hopkins University, he joined the School of Dentistry in 2008. Since then, he has studied the neurobiological mechanisms of craniofacial muscle and neuropathic pain focused on the roles of trigeminal nociceptive afferents. Dr. Chung is an expert in the electrophysiological, biophysical, and genetic analysis of nociceptors and nociceptive ion channels including transient receptor potential vanilloid 1, a receptor for capsaicin. He studies the molecular mechanisms of how the capsaicin receptor produces and alleviates craniofacial pain. Dr. Chung also is interested in how pain-sensing nerves modulate the remodeling of bone surrounding teeth. His research has been supported by federal, state, and industry entities. In particular, the innovation and merit of his projects was recognized by the National Institute of Dental and Craniofacial Research (NIDCR), and Dr. Chung received an NIDCR Award for Sustaining Outstanding Achievement in Research. Through his role as co-director of the Center to Advance Chronic Pain Research, he works to promote multidisciplinary research and education about chronic pain.

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CURT I. CIVIN, MD (SOM)
Professor, Department of Pediatrics
Associate Dean for Research
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Dr. Civin is a pioneer in cancer research who is internationally known for developing a way to isolate stem cells from other blood cells. He has received awards and recognition for his groundbreaking discovery of the CD34 antibody, which has had a major impact on the field of blood research. Dr. Civin accomplished the rare feat of making two field opening laboratory discoveries that are used today in clinical bone marrow stem cell transplantation and leukemia diagnosis. In this process, he has mentored a large number of talented scientists to pursue academic careers in translational research. An investigator at Johns Hopkins University for 30 years, Dr. Civin came to the School of Medicine in 2009 to become the founding director of its Center for Stem Cell Biology and Regenerative Medicine. Dr. Civin has lectured around the world, published more than 250 articles and book chapters, received many awards, and served in leadership positions of multiple distinguished committees and editorial boards.

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KIMBERLY CLAEYS, PHARMD, BCPS (SOP)
Associate Professor, Department of Pharmacy Practice and Science

Dr. Claeys earned her PharmD at Wayne State University’s Eugene Applebaum College of Pharmacy and Health Sciences in Detroit. She then completed her pharmacy practice residency at the University of Illinois at Chicago’s College of Pharmacy and University of Illinois at Chicago Hospital and Health Sciences System. After residency, she completed a two-year infectious diseases pharmacotherapy and health outcomes fellowship at the Anti-Infective Research Laboratory at Wayne State as well as a graduate certificate in public health from Wayne State’s School of Medicine. Dr. Claeys’ research interests include infectious disease epidemiology; antimicrobial and diagnostic stewardship; clinical and economic outcomes of health care-associated infections and drug-resistant bacterial infections; translation research involving rapid diagnostic testing; optimization of pharmacokinetics/pharmacodynamics of antibacterial agents; and development of predictive/prognostic models and decision analysis to improve antimicrobial stewardship and patient outcomes.

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RICHARD COLGAN, MD (SOM)
Professor, Department of Family and Community Medicine
Vice Chair for Medical Student Education and Clinical Operations

Dr. Colgan is an award-winning author, educator, and physician leader who directs many of the School of Medicine’s (SOM) public outreach and educational programs. He has been listed in “Best Doctors in America” and is a colonel in the Maryland Defense Force. He has received the Maryland State Active Duty Medal for Outstanding Service in support of the Hurricane Katrina relief effort, as well as a Governor’s Citation in recognition of volunteer efforts to assist in the aftermath of that hurricane. Dr. Colgan was chosen by the SOM student body to be its nominee to the Association of American Medical Colleges for its annual humanism award and was inducted into the school’s Humanism honor society as well as its medical honor society, Alpha Omega Alpha. He has received several Student Council Faculty Teaching Awards and was awarded the American Medical Student Association Golden Apple clinical faculty teaching award by the SOM graduating class. Dr. Colgan serves as director of SOM’s Executive Health Program and oversees the Mini-Med School community outreach lecture series. In 2013, Dr. Colgan was appointed by Dean E. Albert Reece to serve as program director of the Maryland Area Health Education Center. He is the author of several books, including “Advice to the Young Physician: On the Art of Medicine” and “Advice to the Healer: On the Art of Caring.”

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LUANA COLLOCA, MD, PHD, MS (SON)
Professor, Department of Pain and Translational Symptom Science

Dr. Colloca has conducted groundbreaking studies that have advanced scientific knowledge of the psychoneurobiological bases of endogenous pain modulation systems, including the discovery that the vasopressin system is involved in the enhancement of placebo (and nocebo) effects with a dimorphic effect. Her current line of research focuses on basic and translational aspects of orofacial chronic pain, translational mechanisms of expectancy, observationally induced hypoalgesia, genomics, brain mapping, and immersive virtual reality. As a result, Dr. Colloca has developed an international reputation as a leading scientist in advancing knowledge of the neurobiological mechanisms of descending pain modulation and placebo and nocebo effects with an integrative approach that includes psychopharmacological, neurobiological, and behavioral approaches.

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HEATHER CONGDON, PHARMD, BCPS, CDE (SOP)
Professor, Department of Pharmacy Practice and Science
Co-Director, UMB Center for Interprofessional Education

Dr. Congdon received her Doctor of Pharmacy degree from the University of Pittsburgh and completed a pharmacy practice residency with an emphasis in community care from the University of Maryland, Baltimore (UMB). Her teaching focus surrounds interprofessional education, diabetes, and the abilities lab series. She has a clinical practice at Mercy Health Clinic, providing care for underserved, uninsured patients on multiple medications and with various chronic conditions. She also serves as co-director of UMB’s Center for Interprofessional Education. Dr. Congdon’s research interests relate to her practice at Mercy Health Clinic. She has evaluated the impact of pharmacist-provided medication therapy management on clinical outcomes, such as hemoglobin A1C, blood pressure, and cholesterol. Furthermore, her team has demonstrated the importance of interprofessional, coordinated care on clinical outcomes for patients with poorly controlled diabetes.

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ANDREW COOP, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Associate Dean for Academic Affairs

Dr. Coop received his PhD from the University of Bristol (England) in the area of chemistry of drugs of abuse, followed by a Fogarty postdoctoral fellowship at the National Institutes of Health (NIH). He has been a School of Pharmacy faculty member since 1999, serving as a department chair from 2007 to 2015. His NIH-funded research focuses on the design and synthesis of new opioid analgesics with reduced tolerance and the development of novel antidepressants. He has developed the compound UMB 425 preclinically as an opioid analgesic with attenuated tolerance development. He has published 130 manuscripts and was the recipient of the 2003 Joseph Cochin Young Investigator Award from the College on Problems of Drug Dependence (CPDD). In 2014, he was named a fellow of CPDD and presented CPDD’s President’s Lecture. In 2014, he received the inaugural Dr. James E. Wynn Memorial Award from the American Association of Colleges of Pharmacy’s Chemistry Section. As associate dean for academic affairs, Dr. Coop oversees the school’s educational programs including assessment and accreditation, instructional design, electronic learning resources and training, pathways and dual degrees, and academic scheduling.

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KIRSTEN CORAZZINI, PHD, FGSA (SON)
Professor, Department of Organizational Systems and Adult Health
Associate Dean for the PhD Program

With an extensive background in nursing education and research, Dr. Corazzini is a renowned researcher with a focus on person-centered long-term care including dementia care, which she has studied domestically and globally. Her research also has focused on the organizational context of residential long-term care of older adults and the regulation of nursing care in long-term care internationally. She served as a Fulbright Schuman Scholar and a senior research fellow with City-University of London’s Division of Nursing in its School of Health Sciences.

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KEVIN J. CULLEN, MD (SOM)
Marlene and Stewart Greenebaum Distinguished Professor of Oncology
Professor, Department of Medicine
Director, Marlene and Stewart Greenebaum Comprehensive Cancer Center

Dr. Cullen is a world-renowned oncologist with a specialty in head and neck cancer. As director of the University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center — ranked as one of the nation’s top cancer programs — he oversees a staff of 275 physicians and researchers. Under his leadership, the center has significantly expanded its clinical and research programs and was named a National Cancer Institute (NCI)-designated cancer center. The center receives more than $57 million in research funding annually and hosts over 230 clinical trials. Dr. Cullen’s laboratory examines the mechanisms of chemotherapy resistance in head and neck cancer. In 2011, he was appointed by President Obama to a six-year term as a member of the National Cancer Advisory Board, an advisory committee to NCI.

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STEVEN J. CZINN, MD (SOM)
Professor and Chair, Department of Pediatrics

Dr. Czinn is a pediatric gastroenterologist recognized for his innovative treatments for children with chronic stomach and intestinal disorders. He has helped develop guidelines to diagnose and manage food allergies for the National Institute of Allergy and Infectious Diseases and has widely presented on the unique differences between children and adults with irritable bowel disease. Dr. Czinn was a scientific reviewer for the National Institutes of Health in the area of gastrointestinal mucosal pathobiology studies, is the lead author or co-author of more than 100 peer-reviewed publications, and has served as an associate editor of the American Journal of Gastroenterology since 2003. He is currently the chair of the Pediatric Gastroenterology Committee of the American College of Gastroenterology.

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PETER G. DANCHIN, LL.M, J.S.D (SOL)
Jacob A. France Professor of Law
Director, International and Comparative Law Program
Associate Dean for Research and Faculty Development

Professor Danchin’s teaching and scholarship focus on international law, human rights, transnational law, and comparative constitutional law with a focus on theories of religious freedom. Before joining the law school faculty, he was director of the human rights program at Columbia University’s School of International and Public Affairs and a law clerk to Chief Justice Arthur Chaskalson of the Constitutional Court of South Africa. In recent years, he has been the Senior Research Fellow in Law at the Center of Theological Inquiry in Princeton, N.J., where he co-led an inquiry on law and religious freedom, and a visiting law professor at the University of Cape Town. He publishes widely on critical and comparative approaches to the right to religious freedom in legal, political, and moral thought.

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STEPHEN N. DAVIS, MBBS (SOM)
Vice President, Clinical Translational Science, UMB
Dr. Theodore E. Woodward Professor and Chair, Department of Medicine, SOM

Dr. Davis, an internationally recognized endocrinologist and research scientist, became UMB’s first vice president of clinical translational science in 2017, expanding his previous University roles. As UMB vice president and director of the Institute for Clinical and Translational Research, he is spearheading UMB’s collaboration with Johns Hopkins University in the prestigious National Institutes of Health Clinical and Translational Science Award. He also chairs the School of Medicine’s largest department, with over 300 full-time faculty members of physicians and scientists. A native of the United Kingdom, Dr. Davis has devoted his career to treating adults with diabetes and metabolic disorders as well as studying the biological basis of certain diabetes-related complications. He currently leads research projects totaling $10 million as principal investigator for the Davis Research Laboratory. Dr. Davis has identified promising new treatments and interventions that counteract these mechanisms and stimulate the body’s ability to defend itself against hypoglycemia. He also explores the mechanisms that cause increased heart attacks and strokes in diabetic patients. Dr. Davis has been recognized with many distinguished awards, including the Novartis Award for Diabetes Research, considered the highest honor in that field of research. He has published more than 215 articles, reviews, and textbook chapters in premier scientific journals.

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VINEET DHAR, BDS, MDS, PHD (SOD)
Clinical Professor and Chair, Department of Orthodontics and Pediatric Dentistry

Dr. Dhar is a board-certified pediatric dentist who serves on the Councils on Scientific Affairs and Post-Doctoral Education at the American Academy of Pediatric Dentistry (AAPD) and on the Council of Scientific Affairs of the American Dental Association (ADA). He also serves on the ADA guideline panels on restorative care and caries prevention and has served on the pit and fissure sealants panel. Dr. Dhar also is on the AAPD guideline panels on vital pulp therapies in primary and immature permanent teeth and behavior guidance and has served on the AAPD panel to produce clinical practice guidelines on non-vital pulp and vital pulp therapies in primary teeth. He received the 2018 ADA Evidence Based Dentistry Mid-Career Faculty Award and the 2017 AAPD Jerome B. Miller/Crest-Oral-B/For The Kids Award. He also co-authored manuscripts that were selected for the AAPD Paul P. Taylor Award in 2016, 2017, and 2020. Dr. Dhar has been involved in multiple research projects and has directed thesis work for master’s students as an advisor or co-advisor.

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**BETHANY DIAPAULA, PHARMD, BCPP (SOP)**  
*Professor, Department of Pharmacy Practice and Science*

Dr. DiPaula received her Doctor of Pharmacy degree and completed a psychiatric pharmacy specialty residency at the School of Pharmacy. Her research and teaching focus involves psychiatry and substance abuse. She serves as director of the University of Maryland Psychiatric Pharmacy Residency Program and is a board-certified psychiatric pharmacist with inpatient and outpatient psychiatric and substance abuse practices. In addition, she has worked as the director of pharmacy at two Maryland state psychiatric hospitals. Dr. DiPaula has presented and published research related to psychiatry, substance abuse, and academics, and she is specifically interested in comorbidity of psychiatry and substance abuse.

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**ALLAN DOCTOR, MD (SOM)**  
*Professor, Department of Pediatrics*  
*Director, Center for Blood Oxygen Transport and Hemostasis*

Dr. Doctor is a pediatric intensivist and previously led pediatric critical care at Washington University and St. Louis Children's Hospital for 10 years, stepping down and transitioning to UMB to focus on a rapidly expanding research program and development of a novel biosynthetic artificial red cell. His laboratory studies the role of red blood cell-based signaling in the control of regional blood flow, related pathophysiology arising from acquired red cell injuries, blood substitute design, and translational transfusion medicine in critical illness.

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**KELLY DORAN, PHD, RN (SON)**  
*Associate Professor, Department of Family and Community Health*  
*Director of Health and Wellness, UMB Community Engagement Center*

Dr. Doran runs the health suite at the UMB Community Engagement Center (CEC), which has been serving West Baltimore residents for five years. Dr. Doran and other School of Nursing faculty serve as clinical instructors and preceptors to graduate and undergraduate nursing students who are joined by medical, social work, and pharmacy students in the CEC’s health suite. Students gain community-based experience and opportunities to interact with neighbors outside the hospital. Dr. Doran’s expertise is in interprofessional education and nurse-run clinics to improve social determinants of
health and health outcomes with underserved populations. Her research focuses on worksite wellness programs with health care workers, health promotion interventions to improve cardiovascular health, and interventions to improve health outcomes with populations experiencing health disparities.

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SUSAN DORSEY, PHD, RN, FAAN (SON)
Professor and Chair, Department of Pain and Translational Symptom Science
Co-Director, UMB Center to Advance Chronic Pain Research

Dr. Dorsey is a multiple principal investigator for UMB’s P30-funded Center for Pain Studies (focusing on cancer treatment-related pain) and its Center to Advance Chronic Pain Research. Her group studies the molecular, cellular, and genetic factors associated with the development and persistence of chronic pain. More people suffer from chronic pain than cancer, heart disease, and diabetes combined. Although people who suffer from chronic pain cost the United States more than $600 billion annually, there are few effective treatments that can reduce or eliminate chronic pain without significantly disrupting a person’s quality of life. Dr. Dorsey’s team seeks to solve this problem.

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PETER DOSHI, PHD (SOP)
Associate Professor, Department of Pharmaceutical Health Services Research

Dr. Doshi, an associate editor for The BMJ (formerly The British Medical Journal), earned a bachelor’s degree in anthropology from Brown University, a master’s in East Asian Studies from Harvard University, and a PhD in history, anthropology, and science, technology, and society from the Massachusetts Institute of Technology. During his PhD studies, he was an intern at the Japanese Ministry of Health, Labour and Welfare; a research student at the National Institute of Infectious Diseases in Tokyo; and a visiting researcher at the University of Tokyo Center for Biomedical Ethics and Law. Dr. Doshi completed a fellowship in comparative effectiveness research at Johns Hopkins University before joining the School of Pharmacy’s faculty. His research focuses on the drug approval process, how the risks and benefits of medical products are communicated, and improving the credibility and accuracy of evidence synthesis and biomedical publications. Dr. Doshi campaigns for greater transparency of clinical trial data and has received wide recognition for his work. In 2013, The New York Times called Dr. Doshi “one of the most influential voices in medical research today” in recognition of his efforts to increase public access to clinical study reports. The same year, he was chosen for the Wired “Smart List.” In 2015, he received a New Investigator Award from the American Association of Colleges of Pharmacy. Dr. Doshi has presented on the topic of clinical trial data and served on advisory panels to the European Medicines Agency regarding its policy on proactive publication
of clinical trial data. Dr. Doshi leads the RIAT Support Center, funded by the Laura and John Arnold Foundation. The Restoring Invisible and Abandoned Trials (RIAT) initiative enables researchers to address two longstanding problems in the biomedical literature: non-publication and misreporting of trials.

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SUSAN DOSREIS, PHD (SOP)
Professor and Vice Chair for Research, Department of Pharmaceutical Health Services Research

Dr. dosReis received a bachelor's degree in pharmacy from the University of Rhode Island School of Pharmacy and a doctorate in pharmacoepidemiology from the University of Maryland Graduate School. She completed a postdoctoral fellowship in child mental health services with the Johns Hopkins Bloomberg School of Public Health. Before her faculty appointment, she was on the faculty of the Johns Hopkins University School of Medicine's Division of Child and Adolescent Psychiatry. She works closely with the state Mental Hygiene Administration on policies and programs that impact child mental health services. She is a core faculty member of the Maryland Child Mental Health Advisory Group within the Center for Child Mental Health Innovations at the University of Maryland School of Medicine. In this role, she advises the state on the psychopharmacologic treatment of youth in the public mental health system, with a specific focus on psychotropic medication use among youth in the child welfare system. Through several federally funded research grants from the National Institute of Mental Health, Dr. dosReis has developed a profile of research on psychotropic medication use among children and adolescents, examining disparities in psychotropic use by age, race, and foster care involvement; characterizing psychotropic treatment by combined use with psychotherapy for ADHD and use of multiple psychotropic medications; and assessing longitudinal patterns in antipsychotic treatment for adults with schizophrenia. She developed two surveys: the ASK-ME survey, which assesses parental perceptions of stimulant treatment for their child's ADHD, and a survey to assess pediatricians' identification and screening of autism spectrum disorders in young children. Using qualitative research methods, she has investigated parental perspectives of their child's ADHD and developed a conceptual model of how parents approach mental health care for their children.

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HOWARD DUBOWITZ, MB, CHB, FAAP (SOM)
Professor, Department of Pediatrics
Head, Division of Child Protection, and Director, Center for Families

Dr. Dubowitz is an award-winning professor who is regarded as one of the leading experts on child abuse and neglect. He created and leads the Child Protection Team at the University of Maryland Medical Center and established the Care Clinic, a treatment program for abused children. He also is the innovator behind the Maryland Child Abuse Medical Professionals program, which brings together a network of physicians and nurses who are experts in child maltreatment to develop the most effective treatments for children who have been maltreated. He serves on multiple state and national boards dedicated to the defense of children and has published hundreds of articles in leading journals on child abuse and neglect. He leads the World Health Organization’s Violence Prevention Alliance Parenting Project Group and is a founding member of the Ray Helfer Society, an international honor society for child abuse physicians.

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NATALIE D. EDDINGTON, PHD, FAAPS, FCP (SOP)
Dean and Professor, School of Pharmacy
Executive Director, University Regional Partnerships, UMB
Co-Decanal Lead, UMB Center for Addiction Research, Education, and Service

Dr. Eddington became dean of the School of Pharmacy (SOP) in August 2007. An alumna of the school, she was formerly chair of its Department of Pharmaceutical Sciences. Dr. Eddington graduated summa cum laude with a bachelor’s degree in pharmacy from Howard University. She later earned her PhD from SOP and, after working as assistant director of new drug development at Pfizer Inc., joined the faculty in 1991. She was appointed director of SOP’s Pharmacokinetics/Biopharmaceutics Laboratory in 1999 and became chair of the Department of Pharmaceutical Sciences in 2003. As chair, she guided the launch of the Bio- and Nano-Technology Center, which brings together scientists to find new and better ways of providing pharmaceutical treatment. It was SOP’s first organized research center. Dr. Eddington is a nationally known expert in drug delivery and pharmacokinetics, the movement of drugs in the body. Her research focuses on cancer therapy and treatments for disorders of the central nervous system. Her work has been supported by funding from the National Cancer Institute, the National Institute of Mental Health, the National Institute on Drug Abuse, the Food and Drug Administration (FDA), and the pharmaceutical industry. In 2014, she was named executive director of University Regional Partnerships at UMB, a position she assumes while maintaining her leadership of SOP. In this role, Dr. Eddington assists UMB’s senior leadership, working collaboratively with the deans on issues related to the expansion of the University’s academic and research programs in Montgomery and Prince George’s counties. In 2017, she was appointed co-decanal lead of the Center for Addiction Research, Education, and Service (CARES), UMB’s interprofessional effort to address the adverse impact of addiction on individuals, families, communities, and society. Under Dr. Eddington’s leadership, SOP has established a number of centers and programs including
the Center for Innovative Pharmacy Solutions; the Patients, Pharmacists, Partnerships (P3) Program; the Patient-centered Involvement in Evaluating the effectiveness of Treatment (PATIENTS) Program; the Bio- and Nano-Technology Center; the Center for Translational Medicine; the Mass Spectrometry Center; and the FDA-supported Maryland Center of Excellence in Regulatory Science and Innovation, a collaborative agreement with the FDA to promote innovation in support of the development and evaluation of safe and effective products. She also has envisioned and launched a transformational pharmapreneurism initiative, which seeks to position the school’s world-class faculty, wonderful students, and exceptional staff to achieve their career aspirations and address our nation’s health care, research, policy, and societal needs.

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SARAH EDWARDS, DO (SOM)
Assistant Professor, Department of Psychiatry
Medical Director, Child and Adolescent Psychiatry Services

Dr. Edwards is a board-certified child and adolescent psychiatrist with expertise in early childhood mental health and the treatment of complex pediatric trauma-related disorders. She is the medical director of the Child and Adolescent Psychiatry clinical service line at the School of Medicine, which includes child inpatient, partial hospitalization, pediatric consultation-liaison, and outpatient sub-specialty services. Dr. Edwards also is the training director for the University of Maryland Child and Adolescent Psychiatry Fellowship.

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DAVID EFRON, MD (SOM)
Professor, Department of Surgery
Medical Director and Chief of Trauma, R Adams Cowley Shock Trauma Center

Dr. Efron, who joined the School of Medicine in September 2020, is a nationally recognized trauma researcher who has made landmark findings in the regulation of inflammatory mediators of septic and post-injury states. He is particularly focused on the role that statins may play to reduce inflammation during trauma, especially with regard to potential translational research from the bench to the bedside.

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DEBORAH THOMPSON EISENBERG, JD (SOL)

*Piper & Marbury Professor*

*Director, Center for Dispute Resolution*

*Associate Dean for Academic Affairs*

Professor Eisenberg’s work focuses on dispute resolution, mediation, restorative justice, and strategies for managing K-12 school discipline issues and stemming the “school-to-prison pipeline.” Before joining the Maryland Carey Law faculty, Professor Eisenberg spent 15 years in private practice, often handling complex civil rights and employment litigation, and has testified on a range of employment law and equal pay issues before the U.S. Senate, the Equal Employment Opportunity Commission, and the Maryland General Assembly.

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ROBERT K. ERNST, PHD (SOD)

*Dr. Paul and Mrs. Jean Corcoran Endowed Professor*

*Professor and Chair, Department of Microbial Pathogenesis*

Dr. Ernst is among the scientists leading the fight against sepsis, a blood-borne bacterial infection that kills someone in the United States every two minutes. Dr. Ernst and colleagues in his School of Dentistry lab are working to understand the interplay between a bacterial pathogen (disease-causing agent) and the host defense mechanisms. He has earned major research contracts/grants, is developing a diagnostic test to more rapidly identify bacteria- and fungi-caused infections, and cofounded a company, Pataigin, that aims to develop a method to quickly and accurately identify pathogens. On another front in the sepsis fight, Dr. Ernst was awarded a five-year, $6.4 million contract from the National Institute of Allergy and Infectious Diseases in 2018 to develop and test adjuvants that help vaccines protect against infection. In total, since moving his lab from the University of Washington in 2008, he has received more than $14 million in research funding. He was the 2017 UMB Researcher of the Year, 2018 Dr. Mark E. Shirtliff PhD Student Mentor Award (UMB Graduate Program) winner, and 2019 UMB Entrepreneur of the Year. In 2020, he was awarded the inaugural Dr. Paul and Mrs. Jean Corcoran Professorship, and, in 2021, he earned a University System of Maryland Board of Regents Faculty Award for Excellence in Research, the highest honor presented by the board to exemplary faculty members.

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ALAN I. FADEN, MD (SOM)

David S. Brown Professor in Trauma, Department of Anesthesia
Associate Dean for Trans-Campus Research Advancement
Scientific Co-Director, Center for Brain Health and Human Performance

Dr. Faden is a neurologist who is an internationally recognized leader in neurotrauma. As the director of the Center for Shock, Trauma and Anesthesiology Research for 10 years, Dr. Faden oversaw multidisciplinary research focusing on brain injuries, critical care, organ support, resuscitation, surgical outcomes, patient safety, and injury prevention. His present research focuses on the pathobiology and treatment of traumatic brain and spinal cord injuries, mechanisms of cell death, neuroinflammation, neuroimmunology, and brain systemic interactions.

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CARLOS A. FAERRON GUZMÁN, MD, MSC (GS)

Assistant Professor, Global Health
Director, Global Health Programs

In addition to his Graduate School roles, Dr. Faerron Guzmán is the director of the Centro Interamericano para la Salud Global (CISG) in Costa Rica, the associate director of the Planetary Health Alliance at the Harvard T.H. Chan School of Public Health, and an adjunct faculty member in the Department of Oral Health Policy and Epidemiology at Harvard University. Dr. Faerron Guzmán began his career as a primary care doctor in a rural area of Costa Rica, where he worked closely with migrant and Indigenous populations. His work seeks to redefine the meaning of leadership and global health through innovative educational approaches. Dr. Faerron Guzmán follows a framework of equity in health and human rights as guiding principles and firmly believes in progress in health through community empowerment, action/research, and participatory education. He earned his medical degree at the University of Costa Rica and his MSc degree in international health at Queen Mary University in Edinburgh, Scotland, and Vrije Universiteit in Amsterdam, Netherlands. Additional studies include social justice at the International Institute for Health and Development in Scotland and social innovation for health from INCAE Business School in Costa Rica. He is a fellow of the Central American Healthcare Initiative.

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KATHERINE FORNILI, DNP, MPH, RN, CARN, FIAAN (SON)
Assistant Professor, Department of Family and Community Health

Dr. Fornili combines individual- and population-based perspectives to provide interprofessional solutions for patients with co-occurring psychiatric, somatic, and substance use disorders. She has extensive experience performing policy analyses and developing, implementing, and evaluating publicly funded substance use disorder and prevention and treatment services, having served as a program specialist, grant writer and consultant at the city, state, and federal levels for over 10 years. She is on the editorial board of the Journal of Addictions Nursing and is the editor of the journal’s “Policy Watch” column. Dr. Fornili has served five terms on the board of the International Nurses Society on Addictions, most recently as the society’s president (October 2018-2020), and has served on the International Nurses Society on Addictions’ Policy Committee since 2004. In 2010, she co-developed the School of Nursing course Addictions, Society, and the Role of the Nurse, which has become one of the school’s most popular undergraduate electives. In 2020, she co-developed two graduate courses: Addictions Nursing 1-Foundations, and Motivational Interviewing for Addictions Nursing.

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CLAIRE M. FRASER, PHD (SOM)
Dean’s Endowed Professor of Medicine
Director, Institute for Genome Sciences

Dr. Fraser is a pioneer and global leader in genomic medicine and one of the most highly cited investigators in microbiology. She is internationally recognized as the first scientist to map the complete genetic code of a free-living organism, Haemophilus influenza, the bacterium that causes lower-respiratory-tract infections and meningitis in infants and young children. This achievement, at the Institute for Genomic Research, forever changed microbiology and launched a new field of study: microbial genomics. A prolific investigator with more than 40,000 citations, Dr. Fraser’s research interests are focused on the structure and function of the human gut microbiota.

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MATTHEW B. FRIEMAN, PHD (SOM)
Associate Professor, Department of Microbiology and Immunology

Dr. Frieman is an innovative scientist who studies the growing number of emerging diseases and coronaviruses around the world such as SARS, MERS, and COVID-19. With the emergence of new pathogens, Dr. Frieman has a dedicated laboratory investigating the interaction between these viruses and the host during infection. In the case of SARS and other highly pathogenic respiratory viruses, he discovered that while the virus causes much damage to the lungs during infection, it is the body’s response to the infections that leads to the most damage. His research studies the interaction of viruses with the innate immune system, the host’s response to viral infection, and the pathways that after infection cause lung damage leading to acute lung injury, pulmonary fibrosis, and Acute Respiratory Distress Syndrome.

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ELIZABETH GALIK, PHD, CRNP, FAAN, FAANP (SON)
Professor and Chair, Department of Organizational Systems and Adult Health

Dr. Galik is a nurse practitioner who specializes in improving care practices for older adults with dementia and their caregivers. Her externally funded research tests the impact of non-pharmacological interventions designed to optimize function and physical activity, improve mood, and manage behavioral symptoms among long-term care residents living with dementia. She also has expertise in the recruitment, retention, and measurement of cognitively impaired research participants, particularly involving the measurement of physical activity, using actigraphy. She has served as an expert advisor to the Centers for Medicare and Medicaid’s national initiative to improve behavioral health and minimize the inappropriate use of antipsychotic medications among nursing home residents and hospitalized older adults with dementia.

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ROBERT C. GALLO, MD (SOM)
Homer and Martha Gudelsky Distinguished Professor in Medicine
Professor, Departments of Medicine and Microbiology and Immunology
Co-Founding Director, Institute of Human Virology

Dr. Gallo is world renowned as the co-discoverer of HIV to be the cause of AIDS. Since then, the research scientist has spent much of his career trying to end this and other viral chronic diseases, culminating in 2015 with the announcement of clinical trials for a new AIDS vaccine. Earlier in his career, Dr. Gallo and his team pioneered the development of the HIV blood test, which enabled health care workers for the first time to screen for the AIDS virus — leading to a more rapid diagnosis while also protecting patients receiving blood transfusions. His research also helped physicians develop HIV therapies to prolong the lives of those infected with the virus. After 30 years at the National Institutes of Health's National Cancer Institute, Dr. Gallo came to the School of Medicine as director of its Institute of Human Virology. Dr. Gallo has received numerous scientific honors and awards from around the world, holds 35 honorary doctorates, and has published nearly 1,200 papers. Dr. Gallo was the most referenced scientist in the world in the 1980s and 1990s, during which time he had the unique distinction of winning America's most prestigious scientific award — the Albert Lasker Award in Medicine — in 1982 and 1986.

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DAVID L. GEORGE, DDS, MBA, MS, FAGD (SOD)
Associate Professor and Chief of Staff

Dr. George earned his Doctor of Dental Surgery degree from the Medical College of Virginia in 1988, a certificate in advanced general dentistry from the University of Maryland School of Dentistry in 1989, and a fellowship certificate from the Academy of General Dentistry in 2000. He also earned a Master of Business Administration with concentrations in finance and management consulting from the Robert H. Smith School of Business at the University of Maryland, College Park in 2002, and a Master of Science in data analytics from University of Maryland University College in 2017.

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ROBYN GILDEN, PHD, RN (SON)
Associate Professor, Department of Family and Community Health
Program Director, Environmental Health Certificate

Dr. Gilden is an expert in pesticides and their health effects, including how seemingly safe household products can harm the immune, reproductive, and nervous systems. She is adept at translating scientific information into understandable language for health care providers and the public and in helping communities understand the health risks of contaminants in soil and water. Dr. Gilden is on the steering committee of the Alliance of Nurses for Healthy Environments and works to develop online resources that help nurses launch new studies in environmental health and create a network of nurse researchers, educators, and practitioners.

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JOGA GOBBURU, PHD, MBA, MSC (SOP)
Professor, Department of Pharmacy Practice
Science Director, Center for Translational Medicine

Dr. Gobburu is a world-renowned scientific leader in the area of quantitative disease models and their applications to decisions. He is best known for transforming the field of pharmacometrics into a decision-supporting science. His experience as a senior biomedical research scientist and director of pharmacometrics at the Food and Drug Administration gives him unique insight into the technical, regulatory, and decision-making aspects of all phases of drug development. He obtained his BPharm degree and MSc in chemistry from the Birla Institute of Technology and Science, his PhD in pharmaceutical sciences from North Dakota State University, and his MBA from Johns Hopkins University.

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ERIN GOLEMBIEWSKI, PHD (GS)
Senior Associate Dean and Chief Student Affairs Officer

Dr. Golembewski oversees master’s and PhD students at the Graduate School. She also is the principal investigator for the collaborative AGEP-T: PROMISE AGEP (Association for Graduate Education and the Professoriate) Maryland Academy. She serves on several committees and organizations, including the Northeastern Association of Graduate Schools Executive Committee.

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LEIGH GOODMARK, JD (SOL)
Marjorie Cook Professor of Law
Director, Clinical Law Program and Gender Violence Clinic

Professor Goodmark directs Maryland Carey Law’s Gender Violence Clinic, which provides direct representation in matters involving intimate partner abuse, sexual assault, trafficking, and other cases involving gender violence. Professor Goodmark’s scholarship focuses on domestic violence. She co-edited “Comparative Perspectives on Gender Violence: Lessons from Efforts Worldwide” (Oxford, 2015) and is the author of “A Troubled Marriage: Domestic Violence and the Legal System” (New York University, 2012). From 2003 to 2014, Professor Goodmark was on the faculty at the University of Baltimore School of Law. From 2000 to 2003, she was director of the Children and Domestic Violence Project at the American Bar Association’s Center on Children and the Law. Before joining the center, Professor Goodmark represented battered women and children in Washington, D.C. She is a graduate of Yale University and Stanford Law School.

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MARK GRABER, JD, PHD, MA (SOL)
Jacob A. France Professor of Constitutionalism
University System of Maryland Regents Professor

One of the nation’s leading authorities on constitutional history, law, and politics, Dr. Graber is a Supreme Court analyst and expert on American constitutional development whose insights on the full spectrum of pending or recent decisions and constitutional developments outside of the courts are often sought by National Public Radio, The Atlantic, and other local and national news media outlets. He is the author of “A New Introduction to American Constitutionalism” and co-editor of a two-volume series on American constitutionalism, all from Oxford University Press.

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DAVID GRAY, JD, PHD, MA (SOL)

*Jacob A. France Professor of Law*

Dr. Gray focuses on criminal procedure and constitutional aspects of criminal law — perspectives that informed his frequent op-eds and commentary in local and national news media after the death of Freddie Gray in Baltimore in April 2015. The author of “The Fourth Amendment in an Age of Surveillance” (Cambridge University Press), he was named UMB’s Researcher of the Year in 2019. Dr. Gray was in private practice at Williams & Connolly LLP before joining the Maryland Carey Law faculty.

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MICHAEL GREENBERGER, JD (SOL)

*Professor and Founding Director, Center for Health and Homeland Security*

Professor Greenberger leads the Center for Health and Homeland Security, which provides research, analysis, and training services in the law and policy of cybersecurity, emergency preparedness, counterterrorism, crisis management, and public health to domestic and international government agencies at the local, state, and national levels, as well as the private sector. A frequent commentator for the news media, he is a member of the American Bar Association’s Law and National Security Advisory Committee; the National Academies’ Committee on Science, Technology, and Law; the Maryland Cybersecurity Council; and the Baltimore-Washington Cyber Task Force. Before joining Maryland Carey Law, he held senior positions in the U.S. Department of Justice and at the Commodity Futures Trading Commission. His academic coursework includes courses on homeland security and the law of counterterrorism and on futures, options, and derivatives. He often provides expertise on the legal and policy issues associated with national and cybersecurity as well as the regulation of financial derivatives.

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ERIN HAGER, PHD (SOM)

*Associate Professor, Department of Pediatrics*

Dr. Hager is a nutritional epidemiologist with additional training in the assessment of physical activity. Her research focuses on programs and policies to promote health and prevent obesity among pediatric populations. She began partnering with the Maryland State Departments of Education and Health on the Maryland Wellness Policies and Practices Project in 2012. This base project and partnership has led to additional ongoing funded studies, included Wellness Champions for Change and Project SELECT. In addition to these research studies, she serves as
co-chair of a Centers for Disease Control and Prevention working group on school wellness and chair of the Maryland State School Health Council.

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CHRISTOPHER HARMAN, MD (SOM)
Professor and Chair, Department of Obstetrics, Gynecology and Reproductive Sciences

Dr. Harman is a leading expert in fetal health assessment, heading the team that performed the first intravascular fetal blood transfusion in North America. He is director of the University of Maryland Center for Advanced Fetal Care, one of the few centers in the country specializing in laser fetal surgery. Nearly 4,000 fetal procedures have been performed at the center for various abnormalities, including twin-to-twin transfusion syndrome. Dr. Harman is one of the developers of the Biophysical Profile Score, the top assessment test used in North America to measure the health of the baby during pregnancy. He and his colleagues were the first in the nation to use nuchal translucency screening, a noninvasive ultrasound technique that accurately diagnoses genetic and chromosomal abnormalities in unborn babies. Dr. Harman has published extensively on fetal medicine, including the seminal 1995 book “Invasive Fetal Testing and Treatment.” He is a founding member of the North American Fetal Therapy Network.

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EMILY HEIL, PHARMD (SOP)
Associate Professor, Department of Pharmacy Practice and Science

Dr. Heil completed her undergraduate and Doctor of Pharmacy degrees at the University of North Carolina, Chapel Hill and her pharmacy practice and infectious diseases pharmacy residency training at University of North Carolina Hospitals. In addition to her duties at the School of Pharmacy, she has served for the last six years as coordinator of the Antimicrobial Stewardship Program at the University of Maryland Medical Center. Her research interests include individualization of antimicrobial dosing, particularly in critically ill patients, gram-negative resistance, and antimicrobial stewardship.

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CHERILYN HENDRIX, DHED, MSBME, PA-C, DFAAPA (GS)
Assistant Dean, Physician Assistant Education
Associate Professor and Director, UMB/Anne Arundel Community College Collaborative Physician Assistant Program

Dr. Hendrix is responsible for the overall management, development and implementation strategies regarding program rankings, residency programs, facilities development, and scholarship of physician assistant (PA) education for the UMB/Anne Arundel Community College (AACC) collaboration. She earned her doctorate in health education from A.T. Still University in 2011 and her Master of Science in engineering and applied physics of biomedicine from Johns Hopkins University in 1998. Dr. Hendrix's first career was as an engineer, earning four U.S. patents in medical imagery device design. Deciding to pursue her PA education, she became a 2003 graduate of AACC’s PA program and completed a postgraduate PA residency in general surgery at Duke University Medical Center in 2004. Her practice as a certified PA spans a multitude of specialties including general, vascular, and thoracic surgery, emergency medicine, and urgent care. Dr. Hendrix has spent the last 16 years in higher education; her passion in developing students’ critical thought processes at the graduate and postgraduate levels has allowed her to excel in her roles in PA education. She is a highly sought-after lecturer on the national stage and has earned a solid reputation for curriculum development that cultivates critical thinking and clinical reasoning skills in PA and medical residents. She is a distinguished fellow of the American Academy of Physician Assistants and a member of the Florida Academy of Physician Assistants, the Maryland Academy of Physician Assistants, and the Physician Assistant Education Association.

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RONNA HERTZANO, MD, PHD (SOM)
Professor, Department of Otorhinolaryngology-Head and Neck Surgery

Dr. Hertzano’s clinical practice focuses on the diagnosis and treatment of diseases of the ear, with an emphasis on hearing restoration. UMB’s 2021 Researcher of the Year, she treats patients of all ages who suffer from hereditary and non-hereditary auditory and vestibular dysfunction. Over 60 percent of her time is dedicated to research, where her goal is to make significant contributions toward the treatment of congenital and acquired auditory and vestibular dysfunction. Toward hearing restoration, she works to unravel the regulatory signaling cascades that lead to the proper development of the ear and specifically the hair cells.

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DIANE HOFFMANN, JD, MS (SOL)
Professor and Director, Law and Health Care Program

Professor Hoffman’s nationally recognized Law and Health Care Program has educated more than 400 health law attorneys. Professor Hoffman has worked at the intersection of law, health care, ethics, and public policy. She is a primary author of the Maryland statute dealing with advance directives and served as acting staff director of the U.S. Senate Subcommittee on Aging, where she was responsible for all health care and aging legislation for former Sen. Barbara Mikulski. Before joining the law school faculty, she was in private practice in Washington, D.C., where she worked on health, environmental, and food and drug law. Professor Hoffman has published numerous articles in legal journals as well as scientific and medical journals including Science, JAMA, The New England Journal of Medicine, and Annals of Internal Medicine. Her recent scholarship has focused on scope-of-practice issues in dentistry and medicine, health claim regulation, telemedicine, medical marijuana and the law, end-of-life care as a public health issue, the criminal prosecution of physicians for the prescribing of opioids, and the use of genetic tests in the courtroom. In recent years, she has received two National Institutes of Health grants related to the Human Microbiome Project. The first is on the regulation of probiotics; the second is on proposing a regulatory framework for microbiota transplants.

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KATHLEEN HOKE, JD (SOL)
Professor and Director, Legal Resource Center for Public Health Policy

Professor Hoke’s work focuses on public health laws and policies, with specific emphasis on tobacco regulation, obesity prevention, injury prevention, and environmental health. After eight years in the Maryland Office of the Attorney General, she joined Maryland Carey Law and directs two centers providing pro bono technical legal assistance: the Network for Public Health Law-Eastern Region, which focuses on the needs of 12 East Coast states, and the Legal Resource Center for Public Health Policy (LRC), which provides resources in Maryland. Recent work of the LRC includes examining the public health consequences of electronics, the medical use of marijuana, and the regulation of gambling hotline advertisements.

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CHARLES “CHAZ” HONG, MD, PHD (SOM)
Melvin Sharoky, MD, Professor in Medicine
Director of Cardiology Research
Co-Chief of Cardiovascular Medicine

Dr. Hong is a physician-scientist whose research functions at the intersection of developmental biology, chemical biology, stem cell biology, and cardiovascular medicine. Dr. Hong’s work includes innovative chemical biologic approaches to study embryonic development as well as implementation of the induced pluripotent stem cell technology to better understand human cardiomyocyte biology and pathobiology at the cellular level.

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LAUREN HYNICKA, PHARMD (SOP)
Associate Professor, Department of Pharmacy Practice and Science

Dr. Hynicka provides clinical service to a general internal medicine team at the University of Maryland Medical Center and has an ambulatory care practice site at a viral hepatitis C clinic. She received her Doctor of Pharmacy degree from the University of Pittsburgh School of Pharmacy. She went on to complete postgraduate general practice and internal medicine residencies at Virginia Commonwealth University/Medical College of Virginia Health System. Dr. Hynicka has a variety of research interests including transitions of care, infectious diseases, viral hepatitis C, chronic liver disease, provision of care to underserved patients, and global health.

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SHANNON K. IDZIK, DNP, CRNP, FAANP, FAAN (SON)
Associate Professor, Department of Organizational Systems and Adult Health
Associate Dean for the DNP Program

Dr. Idzik is an expert in nurse practitioner practice, education, and policy. She has led numerous legislative initiatives related to the full scope of practice and removing scope-of-practice barriers for nurse practitioners. She is a past president of the Nurse Practitioner Association of Maryland and has represented the profession as a member of the Chesapeake Regional Information System for Our Patients clinical advisory board. She serves on the editorial board of the Journal of Doctoral Nursing Practice. Dr. Idzik also is an expert in endocrine and more specifically diabetes management. She was elected to serve for the past three years on the National Clinical Care Commission, a
federal advisory board that made recommendations to Congress on improving diabetes care in the United States. She has practiced in a variety of settings including endocrinology, bariatric surgery, primary care, and chronic disease management. She was awarded the American Association of Nurse Practitioners (AANP) State Award for Excellence in 2012 and was selected as a fellow of the AANP in 2014 and a fellow of the American Academy of Nursing in 2017.

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ISABEL JACKSON, PHD (SOM)
Marlene & Stewart Greenebaum Professor in Radiation Oncology
Associate Professor, Department Radiation Oncology
Director, Division of Translational Radiation Sciences

Dr. Jackson is an expert in the field of tumor and normal tissue radiobiology, with specialized expertise in medical countermeasure development for acute radiation sickness and delayed effects of acute radiation exposure. Her expertise extends to model development, new target identification, biomarker discovery, schedule optimization, application of disease progression modeling to drug development, and product approval through the Food and Drug Administration's (FDA) Animal Rule regulatory pathway. Studies conducted in Dr. Jackson’s laboratory are performed in compliance with the FDA's Good Laboratory Practice regulations.

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BRUCE E. JARRELL, MD, FACS
President, UMB

Dr. Jarrell was named president of UMB in September 2020 after an eight-month tenure as interim president, succeeding Jay A. Perman, MD. It was the latest in a long line of upward moves by Dr. Jarrell at UMB. He was named executive vice president and provost in December 2017, expanding his already wide-ranging duties at UMB. As chief academic and research officer and senior vice president since April 2012, Dr. Jarrell served as the focal point for all academic matters at UMB and was responsible for facilitating the research mission of the University by working closely with UMB administrators, deans, research leadership of the schools, and others. As executive vice president and provost, Dr. Jarrell had the authority to act on behalf of the president in a variety of matters and settings. Through and with the deans and vice presidents. Dr. Jarrell, who was dean of the Graduate School, also oversaw many of the University's most critical institutional relationships, such as the University of Maryland Strategic Partnership: MPowering the State, UMB’s innovative and structured collaboration with the University of Maryland, College Park, and in building and maintaining academic interactions with all University System of
Maryland institutions. Recruited by the School of Medicine (SOM) to chair the Department of Surgery, Dr. Jarrell came to UMB in 1997 and moved to the Dean’s Office in 2003, where he served as the executive vice dean, directing SOM’s education and research enterprises. Dr. Jarrell, who performed kidney and liver transplantation and hepatobiliary surgery for 10 years in the 1980s at Thomas Jefferson University in Philadelphia, joined UMB’s President’s Office in 2012. Dr. Jarrell has written a number of books, including 2021 editions of the popular textbook “NMS Surgery” and the “NMS Surgery Casebook.” He also is an accomplished metalsmith and a member of the Blacksmith Guild of Central Maryland.

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BENNIE H. JENG, MD (SOM)
Professor and Chair, Department of Ophthalmology and Visual Sciences

Dr. Jeng, a leading expert in cornea and external disease, is a distinguished National Institutes of Health (NIH)-funded physician-scientist. Dr. Jeng’s primary interests are in the areas of corneal transplantation, ocular surface disease, limbal stem cell transplantation, and artificial corneas. He joined UMB in 2013, having previously served on the faculty of the University of California, San Francisco and the Cleveland Clinic, where he established a busy medical and surgical cornea practice. Dr. Jeng has received NIH funding to study corneal preservation and a Research Project Grant through the Food and Drug Administration to study a novel compound in healing persistent eye tissue defects. Dr. Jeng has published more than 60 peer-reviewed manuscripts and 15 book chapters and delivered more than 100 invited lectures in the United States and around the world, including Kuwait, Australia, and South Korea.

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LOUISE JENKINS, PHD, RN, FAHA, ANEF (SON)
Inaugural Distinguished University Professor
Director, Institute for Educators
Director, Teaching in Nursing and Health Professions Certificate Program

Dr. Jenkins co-founded the Institute for Educators in 2004 to address an urgent statewide nursing faculty shortage. Under her leadership, over 1,000 nurses have been prepared as faculty in academic institutions or educators in clinical institutions. This growth has dramatically increased the number of nursing school graduates becoming licensed in Maryland. This and other statewide initiatives have been recognized through the awarding of multiple grants totaling nearly $7 million. Dr. Jenkins also co-developed and leads the Teaching in Nursing and Health Professions Certificate Program, which has equipped additional graduate students with essential skills for teaching current and future nurses.
She led the development and implementation of a Faculty Mentorship Program at the School of Nursing and is exploring avenues for supporting new nursing faculty. She serves on the UMB Campus Instructional Technology Stakeholders Group and is a member of the Steering Committee for the UMB Graduate School’s interprofessional PhD in teaching in health education. She is a fellow of the American Heart Association and past chair of the Council on Cardiovascular Nursing of the American Heart Association. She also is a fellow of the National League for Nursing’s Academy of Nursing Education.

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**BRENDA JONES HARDEN, PHD, MSW (SSW)**

*Alison Richman Professor for Children and Families*

For more than 35 years, Dr. Jones Harden has focused on the developmental and mental health needs of young children at environmental risk, specifically children who have been maltreated, are in the foster care system, or have been exposed to multiple family risks such as maternal depression, parent substance use, and poverty. She is particularly interested in using this research to inform practice with respect to preventive interventions to promote positive outcomes for children reared in high-risk circumstances, such as home visitation and Early Head Start. Dr. Jones Harden is working on a major evaluation of an Early Head Start-child care partnership initiative and the implementation and evaluation of a group-based intervention to promote language development in infants and toddlers from low-income backgrounds. In addition, she is completing three studies: an implementation and impact evaluation of an intervention to reduce the toxic stress experienced by children enrolled in Early Head Start; an impact evaluation of a rural home visiting program focused on pre-literacy; and an implementation evaluation of a local Educare program.

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**SEEMA KAKADE, JD, PHD, MA (SOL)**

*Associate Professor and Director, Environmental Law Clinic*

Professor Kakade has directed Maryland Carey Law’s Environmental Law Clinic since 2017. She has extensive practical experience in implementation, enforcement, and compliance with environmental law, and her scholarship focuses on questions of air pollution, energy, and climate change. Before joining the faculty, Professor Kakade was a federal government attorney with the U.S. Environmental Protection Agency’s Office of Civil Enforcement and the U.S. Department of Energy’s Office of General Counsel. At both agencies, she won numerous awards for her work, including bronze and silver medals for service, and twice received the Administrator’s Award for Excellence. Before her federal government practice, she worked as a research attorney and co-director of...
the India Program at the Environmental Law Institute. She also spent time as a litigation associate in private practice. She is a member of the South Asian Bar Association.

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MAUREEN KANE, PHD (SOP)
Associate Professor, Department of Pharmaceutical Sciences
Executive Director, Mass Spectrometry Center

Dr. Kane received a BS degree in chemistry from Canisius College in Buffalo, N.Y., and a PhD in analytical chemistry from the University at Buffalo-State University of New York. She completed postdoctoral training at the University of California, Berkeley, where she received a National Institutes of Health-Kirschstein Individual Postdoctoral Fellowship. Her areas of research interest include mass spectrometry to interrogate biological problems; retinoid (vitamin A) metabolism and active metabolite (retinoic acid) signaling; biomarker discovery, quantification, and validation; mass spectrometry imaging; bioanalysis for pharmacokinetic studies; quantitative mass spectrometry assay development and validation; collaborations pertaining to metabolism, metabolite signaling, lipid profiling, and lipid signaling; and biomarkers, drugs, and drug metabolites. As executive director of the School of Pharmacy’s Mass Spectrometry Center, Dr. Kane heads the areas of metabolite quantification, metabolomics, and mass spectrometry imaging. She also leads several collaborative efforts focused on biomarker discovery, quantification, and validation in drug development efforts.

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JAMES B. KAPER, PHD (SOM)
Inaugural Distinguished University Professor
Professor and Chair, Department of Microbiology and Immunology
Vice Dean for Academic Affairs

As vice dean for academic affairs, Dr. Kaper oversees all of the educational programs at the School of Medicine, including the MD, PhD, DPT, and graduate programs in the life sciences, with more than 1,300 total students. Dr. Kaper is an esteemed scientist and widely published scholar, and his laboratory focuses on bacterial pathogens, with studies ranging from basic research to gene regulation to translational research such as the development of new vaccines and diagnostic probes.

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GERALD KAYINGO, PHD, MMSC, PA-C (GS)

Assistant Dean of Research
Executive Director, Physician Assistant Leadership and Learning Academy

Professor Kayingo has extensive experience in scholarship, education, leadership, clinical practice, and global health. As assistant dean of research, Dr. Kayingo seeks to advance the research mission by nurturing scholarship and the growth of extramural research funding for physician assistant education and practice. His research interests relate to health professions education, health care delivery science, and the intersection of infectious diseases and substance use disorders/addiction. His clinical interests are in primary care settings as well as advancing rural health. Nationally, Professor Kayingo has served as a board member for various organizations and as associate editor of *BMC Health Services Research*. He has co-authored three books on health professions education and published extensively on health systems science and infectious diseases in peer-reviewed journals. He is a recipient of several awards, including a university book prize, the 2016 American Academy of Physician Assistants (AAPA) PA Student Academy Mentor Award, the 2015 AAPA Research Publishing Award, and the 2014 Jack Cole Society Award from Yale University.

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ASAF KELLER, PHD (SOM)

Professor and Chair, Department of Anatomy and Neurobiology

Dr. Keller is a leading scientist in the fields of addiction, chronic pain, and affective disorders. His lab, which receives funding from the National Institutes of Health with multiple grants totaling nearly $5 million, focuses on sensory perception, delving into questions such as how the brain perceives objects and events and how to optimize a person’s ability to detect and discriminate. His research team is examining what mechanisms go awry when perceptions are altered by chronic pain or drug abuse. His team takes an integrative approach, focusing on cellular, networking, computational, and behavioral aspects of information processing by the brain’s neurons.

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RAYA KHEIRBEK, MD (SOM)
Professor, Department of Medicine
Chief, Division of Geriatrics and Palliative Medicine

Dr. Kheirbek is a physician-educator with over 20 years of experience in quality improvement projects development and implementation in older adults. In January 1999, she started her tenure at the George Washington University School of Medicine and Health Sciences as an assistant professor of medicine and the Veterans Affairs Medical Center as medical director, geriatrics and extended care, with a focus on improving the health and well-being of patients living with chronic illness and building the foundation for hospice and palliative care services. Dr. Kheirbek's national work is focused on transforming the culture of nursing home care from a health care institution to a person-centered home.

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JANE M. KIRSCHLING, PHD, RN, FAAN (SON)
Bill and Joanne Conway Dean of the University of Maryland School of Nursing and Professor
Director of Interprofessional Education, UMB
Co-Convener of Maryland Action Coalition

As a nationally recognized leader and past president of the American Association of Colleges of Nursing, Dean Kirschling has a comprehensive understanding of the trends in health care delivery, nursing workforce, and strategies for equipping nurses for health care in the 21st century. She brings particular expertise in interprofessional education and workforce development, especially in rural environments. Dean Kirschling's clinical focus includes mental health nursing with an emphasis on end-of-life care.

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J. HOWARD KUCHER, DPA, MBA (GS)
Associate Professor and Director, MS in Health and Social Innovation Program

Dr. Kucher is an internationally recognized thought leader in social entrepreneurship and the lead author of “Social Entrepreneurship: A Practice-Based Approach to Social Innovation.” His research interests focus on the practical applications of social enterprise, with a particular interest in faith-based contexts. Before joining UMB, Dr. Kucher led the Baltimore Social Enterprise Collaborative, a program that was nationally recognized for its innovative curriculum and helped more than 60 area nonprofits develop new models for meeting the needs of their constituents while increasing the
sustainability of their organizations. He has successfully secured over $70 million in working capital on behalf of mission-oriented enterprises and assisted more than 100 area nonprofits and social enterprises in developing new models for meeting the needs of their constituents while increasing the sustainability of their organizations. He earned a Doctorate in Public Administration with a concentration in social entrepreneurship from the University of Baltimore, where he also earned an MBA with an entrepreneurship specialization. He holds a bachelor’s degree from Kean University, a graduate certificate in urban theology from the Ecumenical Institute at St. Mary’s Seminary and University, and has earned certification as a project management professional and a new product development professional. He is an advisor, coach, and mentor to several regional social change initiatives including the Boost Program at Innovation Works and the Social Innovation Lab at Johns Hopkins University. Among his many honors, Dr. Kucher has been recognized as a Baltimore Renaissance Seed Scholar, an Unsung Hero of Small Business, and a Fulbright Specialist Scholar in Social Entrepreneurship.

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WENDY LANE, MD, MPH (SOM)

Associate Professor, Department of Epidemiology and Public Health
Director, Preventive Medicine Residency Program

Dr. Lane is a pediatrician and researcher who is board-certified in general pediatrics, child abuse pediatrics, and preventive medicine. In addition to leading the Preventive Medicine Residency Program, she serves as co-director of the School of Medicine’s Health Disparities and Population Health Program. Dr. Lane’s research and clinical activities focus on child maltreatment and maternal and child health. She is the principal investigator for B’more for Healthy Babies, a community-based and -engaged intervention program to improve birth outcomes in the Upton/Druid Heights neighborhood of Baltimore. She also develops and evaluates maltreatment prevention and intervention programs. She examines professional issues such as disparities in the medical evaluation, identification, and reporting of maltreatment. In addition, Dr. Lane performs medical evaluations of children with suspected maltreatment.

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CHRISTINE LAU, MD, MBA (SOM)
Professor and Dr. Robert W. Buxton Chair of Surgery, Department of Surgery
Surgeon-in-Chief, University of Maryland Medical Center

Dr. Lau specializes in all aspects of general thoracic surgery and is board-certified in general surgery and thoracic surgery. She is the first woman to chair the Department of Surgery at UMSOM, and one of a small number of women throughout the United States to lead a major department of surgery. Dr. Lau is a nationally renowned thoracic and lung transplant surgeon who is widely regarded for her leadership in the field of thoracic surgery. She is a federally funded scientist and an expert clinician who is widely acclaimed for her work in improving outcomes for lung transplant patients.

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CHEROKEE LAYSON-WOLF, PHARMD, BCACP, FAPHA (SOP)
Associate Professor, Department of Pharmacy Practice and Science
Associate Dean for Student Affairs

Dr. Layson-Wolf’s research interests include evaluations of immunization programs, point-of-care testing, medication adherence, and innovative patient care program implementation. In addition to serving as associate dean for student affairs, she is the director of the school’s PGY-1 Community Pharmacy Residency and is board-certified in ambulatory care pharmacy. She also is past president of the Maryland Pharmacists Association and a faculty member of the American Pharmacist Association’s Pharmacy-Based Immunization Delivery certificate course. Dr. Layson-Wolf received her Doctor of Pharmacy degree from the School of Pharmacy and completed her community pharmacy residency with Virginia Commonwealth University and Ukrop’s Pharmacy.

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NANCY LEVER, PHD (SOM)
Associate Professor, Department of Psychiatry

Dr. Lever has more than 20 years of experience in providing and leading school-based mental health services and programming efforts at the local, state, and national levels. She is co-director of the Center for School Mental Health, a national resource center for advancing research, training, policy, and practice in school mental health, and is executive director of the University of Maryland School Mental Health Program, a longstanding and exemplary community-partnered school mental health program in Baltimore. She also provides leadership and guidance to UMB’s three other clinical programs in schools.
Effective family-school-community partnerships are a priority across all aspects of Dr. Lever’s school-behavioral health efforts. She has extensive experience and leadership in advancing high-quality and sustainable school mental health services and programming. She has led large-scale workforce development and mental health training-related efforts for interdisciplinary stakeholders, including educators, health and mental health professionals, administrators, advocates, community providers, and policymakers. She also has provided technical assistance to local, state, and federal grantees and written and presented extensively on school mental health.

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MYRON M. LEVINE, MD, DTPH (SOM)
Simon and Bessie Grollman Distinguished Professor, Department of Medicine
Associate Dean for Global Health, Vaccinology and Infectious Diseases
Founding Co-Director, Center for Vaccine Development and Global Health

Dr. Levine is considered one of the leading scientists and vaccinologists of his generation. For nearly 50 years, the first 41 under Dr. Levine’s leadership, the Center for Vaccine Development and Global Health (CVD) has conducted a wide range of research relating to the development of vaccines for a variety of diseases including cholera, typhoid fever, paratyphoid fever, non-typhoidal Salmonella disease, shigellosis, Escherichia coli diarrhea, malaria, and other infectious diseases, including influenza. CVD also has developed new delivery systems and public health and vaccine policy around the world, including Africa, Asia, and Latin America. Dr. Levine received worldwide attention for leading CVD’s direct involvement in the World Health Organization’s global consortium for accelerated testing of a new Ebola vaccine candidate in CVD-Mali and CVD-Baltimore.

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FLAVIUS R.W. LILLY, PHD, MA, MPH (GS)
Vice Provost, Academic and Student Affairs
Vice Dean, Graduate School

In the Graduate School, Dr. Lilly leads professional master’s degree development and online learning as well as strategic initiatives in entrepreneurial education. Dr. Lilly also is responsible for providing executive leadership to a broad range of student affairs services. Before coming to UMB, he worked in the health care industry for more than a decade in senior leadership roles with a focus on community health improvement, quality care, and organizational development. His primary research interests are in the realm of health care improvement for individuals with severe mental illnesses and innovation to support aging communities.

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RAYMOND C. LOVE, PHARMD, BCPP, FASHP (SOP)
Professor and Vice Chair for Collaborative Services, Department of Pharmacy Practice and Science
Director, Mental Health Program

Dr. Love was the 2015-16 president of the College of Psychiatric and Neurologic Pharmacists (CPNP), chair of the United States Pharmacopeia (USP) Expert Panel on Drug Allergy and Intolerance, and is a member of the USP Expert Committee for Health Care Quality Standards. He oversees pharmacy services for the state of Maryland’s Behavioral Health Administration, Department of Health and Mental Hygiene, directs the state’s Clozapine Authorization and Monitoring Program, and is the principal investigator for the Peer Review Program for Mental Health Drugs for the Maryland Medicaid Pharmacy Program. He serves as co-principal investigator of a National Institutes of Health-funded R01 grant titled “Biomarker and Safety Study of Clozapine in Benign Ethnic Neutropenia.” Dr. Love has an extensive research and service record in psychiatric pharmacotherapy with numerous publications and presentations. As principal or co-principal investigator, he is the recipient of over $80 million in grants and contracts. His past professional service includes chair of the Mental Health Workgroup for the Pharmacy Quality Alliance; membership on the Board of Pharmaceutical Specialties, Specialty Council on Psychiatric Pharmacy Practice; commissioner of the Maryland Board of Pharmacy; member of the Depression/Behavioral Health Technical Advisory Panel, National Quality Forum; and chair of the Ethics Special Interest Group, American Association of Colleges of Pharmacy. Dr. Love is a board-certified psychiatric pharmacist, fellow of the American Society of Health-System Pharmacists, and Distinguished Practitioner and Fellow of the National Academies of Practice. He is a recipient of the W. Arthur Purdum Award, the highest recognition of the Maryland Society of Health-System Pharmacists; the Elan Award for Innovative Pharmacy Practice; the Alma Troccoli Award for Excellence in Advocating for the Mental Health Needs of Young Children and Families; and CPNP’s Judith Saklad Award.

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JAY S. MAGAZINER, PHD, MSHYG (SOM)
Professor and Chair, Department of Epidemiology and Public Health
Director, Center for Research on Aging

Dr. Magaziner is recognized for his leadership and expertise in epidemiology and public health, particularly as it relates to the aging population. He has published extensively in internationally recognized journals and served as a reviewer for Veterans Affairs; the Alcohol, Drug Abuse and Mental Health Administration; the Agency for Health Care Policy and Research; and the National Institutes of Health on a series of special review panels. UMB’s 2020 Researcher of the Year, Dr. Magaziner pursues research on aging in three interrelated areas: the consequences of hip fracture, health and long-term care, and methods for studying older populations. The major focus of this work is to identify ways to enhance functioning and improve the quality of life for older people.

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DANIEL MALUF, MD (SOM)
Professor, Department of Surgery
Director, Program in Transplantation

Dr. Maluf has extensive National Institutes of Health-funded research focusing on the areas of transplant surgery, liver donor liver transplantation, and robotic minimally invasive surgery, among others. He has published more than 300 papers, abstracts, and book chapters. His research discoveries in the laboratory aim to improve outcomes in the operating room. He is specifically focused on identifying new interventions to expand the donor organ pool by using ex-vivo organ perfusion approaches during organ preservation and biomarkers that will help provide earlier diagnoses for liver, kidney, and pancreas transplant patients.

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RICHARD J. MANSKI, DDS, MBA, PHD (SOD)
Professor and Chair, Department of Dental Public Health

Dr. Manski manages and provides oversight for a team of faculty, staff, educators, and researchers at the School of Dentistry. His disciplines of interest and areas of responsibility include public health, research methods, statistics, education, practice management, the school’s externship program, and the Samuel D. Harris National Museum of Dentistry (NMD). Dr. Manski also manages a multi-institutional and multidisciplinary team of researchers that studies the effects of dental utilization patterns associated with changes in dental coverage and changes in retirement status among older Americans. As executive director of NMD, Dr. Manski is responsible for all operations of the museum, a Smithsonian Affiliate organization that has one of the most comprehensive dental collections in the world; is the national collection for the social, cultural, economic, scientific, and technological history of dentistry; and represents the origins and development of dentistry in the United States and beyond. The museum received congressional designation as the official U.S. museum of the dental profession in 2003. Dr. Manski also serves as a senior scholar for the Agency for Healthcare Research and Quality (AHRQ) within the Department of Health and Human Services. As a senior scholar, he provides advice to AHRQ staff on the editing and imputation of Medical Expenditure Panel Survey data related to use, source, expenditures, and health insurance benefits for oral health care. He also provides technical assistance and advice to the oral health community on issues related to dental policy, expenditures, dental benefit, and dental utilization data.

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KATRINA MARK, MD, FACOG (SOM)
Associate Professor, Department of Obstetrics, Gynecology and Reproductive Sciences

Dr. Mark is an obstetrician and gynecologist who cares for women throughout their lifespan. Her clinical interests include obstetric care, contraception, abnormal bleeding, cervical dysplasia, postmenopausal bleeding, and adolescent care. Her main research interests are substance use in pregnancy and the interaction of the vaginal microbiome and acquisition or prevention of disease, particularly human papillomavirus and other sexually transmitted infections.

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DIANE MARTIN, PHD, MA (GS)
Senior Lecturer
Director, Geriatrics and Gerontology Education and Research Program
Director, Aging and Applied Thanatology Program

Dr. Martin has been committed throughout her career to developing high-quality, impactful, and engaging academic and non-academic activities designed to increase the knowledge and skill sets of professionals and paraprofessionals employed in the senior service and care industry. As an applied gerontologist, her research has centered on quality-of-later-life initiatives, including person-centered care and aging in place. Dr. Martin is a member of the Gerontological Society of America and the Academy for Gerontology in Higher Education. She earned her doctorate in psychology with a concentration in aging from Northcentral University, her master’s degree in experimental psychology from Towson University, and her bachelor’s degree in psychology from the College of Notre Dame of Maryland.

RADI MASRI, DDS, MS, PHD (SOD)
Professor
Director, Division of Prosthodontics, Department of Advanced Oral Sciences and Therapeutics
Director, Advanced Education Program in Prosthodontics

Dr. Masri is heavily involved in developing and implementing cutting-edge technologies used in oral health care. He authored the first book on the applications of digital technologies in the dental field and holds several patents. He serves as editor-in-chief of the Journal of Prosthodontics, president of the American Academy of Fixed Prosthodontics, and president of the American Board of Prosthodontics. His honors include the 2013 American College of Prosthodontists’ (ACP) Clinician Researcher Award, 2015 Maryland LIFE
Award for most promising technology, and 2018 ACP Distinguished Service Award. He is a 2021 recipient of a Wilson H. Elkins Endowed Professorship from the University System of Maryland.

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JOEY MATTINGLY, PHARMD, MBA, PHD (SOP)
Associate Professor, Department of Pharmaceutical Health Services Research
Vice Chair of Academic Affairs

After graduating from the University of Kentucky College of Pharmacy and Gatton College of Business and Economics, Dr. Mattingly went directly into pharmacy practice for Kroger Co. as an EasyFill Pharmacy Retail Network super trainer, facilitating the implementation of a new pharmacy information system software for more than 40 pharmacies. After completing the pharmacy system rollout, he managed four Kroger Pharmacy locations, revamping operations at each site to improve multiple business and patient care activities. He was promoted by Kroger to serve as a pharmacy coordinator in the Mid-South Division, overseeing operations for 12 pharmacies. In 2013, Dr. Mattingly left Kroger to lead Indianapolis operations as general manager for a startup long-term care pharmacy company called AlixaRx, providing pharmacy services and remote automated dispensing systems to 23 skilled nursing facilities across Indiana, Kentucky, and Ohio. Dr. Mattingly writes for “Leading Over the Counter,” a blog dedicated to sharing leadership and management perspectives for pharmacists and other health care professionals. Dr. Mattingly’s primary research interests include pharmacoeconomics, patient engagement, and social media. His practice interests revolve around patient care and business model challenges in various pharmacy practice settings.

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MARGARET M. MCCARTHY, PHD (SOM)
Professor and Chair, Department of Pharmacology

Dr. McCarthy is a leading neuroscientist who has received international acclaim for her research on sex differences and the developing brain. Specifically, her research program focuses on the influence of steroid hormones as the brain develops. Her pioneering work has made new discoveries in finding that men and women are exposed to different hormonal milieus and this results in sex differences in the brain. These differences include alterations in the volumes of particular brain nuclei and patterns of synaptic connectivity. UMB’s 2015 Researcher of the Year, Dr. McCarthy continues to study the mechanisms by which sexually dimorphic structures are formed in the brain.

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MARY LYNN MCPHERSON, PHARMD (SOP)
Professor, Department of Pharmacy Practice and Science
Executive Director, Advanced Postgraduate Education in Palliative Care

Dr. McPherson has maintained a practice in hospice and palliative care as well as ambulatory care throughout her career. She teaches extensively in the Doctor of Pharmacy program on the topics of pain management and end-of-life care, including didactic and experiential content. She also developed one of the first palliative care pharmacy residency programs in the United States. Dr. McPherson serves on the Board of the Hospice Network of Maryland and is president of the American Society of Pain Educators. She has received many honors for her work, including the American Pharmacists Association’s Distinguished Achievement Award in Specialized Practice, the University of Maryland Teacher of the Year Award, the Maryland Society of Health-Systems Pharmacists W. Purdum Lifetime Achievement Award, and the Robert K. Chalmers Distinguished Pharmacy Educator Award from the American Association of Colleges of Pharmacy. She has written four books, including the best-selling “Demystifying Opioid Conversion Calculations: A Guide for Effective Dosing.”

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VALLI MEEKS, DDS, MS, RDH (SOD)
Clinical Professor, Department of Oncology and Diagnostic Sciences

UMB’s 2018 Public Servant of the Year, Dr. Meeks is director of the School of Dentistry’s PLUS Clinic, which focuses on treating people who are living with HIV disease and in need of oral health services. Halfway around the world, Dr. Meeks supports a second vulnerable population by collaborating in an effort that formed the first school of dentistry in Rwanda. She also has taught at, helped form the curriculum, and assisted an orphanage in becoming a dental education outreach center. Additionally, Dr. Meeks works with students in Baltimore to donate dental equipment that she delivers to Rwanda. The project involves teaming with two Rwanda nonprofits, the Urukundo Learning Center (ULC) and the Rwanda Village Concept Project (RVCP). ULC began as an orphanage for children displaced by the genocide of 1994 and now serves as a primary and secondary school for children in the area. RVCP is an organization run by the students at the University of Rwanda College of Medicine and Health Sciences that works to advance the health of Rwandans living in rural areas.

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MEGAN MEYER, PHD, MSW (SSW)
Associate Professor

Dr. Meyer has taught community organization and macro social work practice at the School of Social Work for 17 years. Dr. Meyer’s research and publications have been interdisciplinary, spanning the fields of social work, sociology, and political science. She has sought to examine the practices and challenges of building social capital and organizing for social change in economically distressed urban environments, barriers to and practices in facilitating collaboration among community-based organizations and associations, and effective practices for community-university partnerships. She received her PhD and MSW degrees from the University of California, Los Angeles.

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SARAH MICHEL, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Associate Dean for Graduate Programs
Co-Director, Metallotherapeutics Research Center

Dr. Michel, who joined the School of Pharmacy in 2004, focuses her research on investigating the role that metals such as iron, zinc, and copper play in the human body. Her research has increased the understanding of how metals regulate proteins involved in chronic inflammation, cancer, and neurodegenerative diseases. She also is investigating whether metal ions and other potentially harmful toxins produced in e-cigarettes are toxic to cells in the oral cavity and upper-respiratory system. Her work is funded by the National Science Foundation, the Food and Drug Administration, and the Army Research Laboratories. As associate dean for graduate programs, Dr. Michel is responsible for identifying and responding to workforce needs, working with faculty to develop new programs and obtain necessary approvals, and expanding the school’s programs into global markets.

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WILLIAM J. MOON, JD (SOL)  
*Associate Professor*

Professor Moon’s teaching and research interests include contracts, corporate law, and private international law, with his research focusing on offshore financial transactions that challenge territorially defined regulatory power. He has published widely in these areas in prominent law reviews and peer-reviewed journals. Before joining the Maryland Carey Law faculty, Professor Moon served as an acting assistant professor in the lawyering program at NYU School of Law and worked as a litigation associate in New York, where he specialized in cross-border commercial disputes. From 2013-14, he served as a law clerk for the U.S. Court of Appeals for the Third Circuit. At the University of Michigan, he was the founding editor-in-chief of the *Michigan Journal of Business*.

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JILL MORGAN, PHARMD (SOP)  
*Professor and Chair, Department of Pharmacy Practice and Science*

Dr. Morgan received her Doctor of Pharmacy degree from the University of Illinois, Chicago. She completed pharmacy practice and pediatric pharmacy specialty residencies at the University of Maryland Medical Center (UMMC) in Baltimore. She is a pediatric clinical pharmacy specialist with practice sites at Pediatrics at the Harbor, the President’s Interdisciplinary GI Clinic, and the Children’s Hospital Intestinal Rehabilitation Program at UMMC. For a number of years, Dr. Morgan has taught pediatric and neonatal pharmacotherapy to nursing and pharmacy students and medical residents. Dr. Morgan is the director of the PGY2 Pediatric Pharmacy Residency program. She also is a board-certified pharmacotherapy specialist. Dr. Morgan is involved with a number of student and professional organizations. She is the advisor for the School of Pharmacy’s Phi Lambda Sigma Chapter, Students Promoting Awareness, and the Pediatric Pharmacy Advocacy Group (PPAG) at UMB. She is past president of the Maryland Society of Health-System Pharmacists, chair of the Maryland Pharmacy Coalition, chair of the Student Services Special Interest Group for the American Association of Colleges of Pharmacy, and member of the national PPAG Research Committee. Dr. Morgan’s research interests include asthma, community pharmacy related to pediatric patients, immunizations, transitions of care for pediatric patients, and interprofessional education.

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C. DANIEL MULLINS, PHD (SOP)
Professor and Chair, Department of Pharmaceutical Health Services Research
Executive Director, PATIENTS Program

Dr. Mullins’ research focuses on patient-centered and community-engaged outcomes research, pragmatic clinical trial design, and health disparities research. He has received funding as a principal investigator from the Agency for Healthcare Research and Quality; the Food and Drug Administration; the National Institute on Aging; the National Heart, Lung, and Blood Institute; the Patient-Centered Outcomes Research Institute; pharmaceutical manufacturers; patient advocacy organizations; and the insurance industry. He is the executive director of the University of Maryland PATient-centered Involvement in Evaluating effectiveNess of TreatmentS (PATIENTS) Program, which provides an infrastructure to support patient-centered outcomes research and related training activities. Dr. Mullins also is the director of the UMB Institute for Clinical and Translational Research’s Community and Collaboration Core.

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EUN-SHIM NAHM, PHD, RN, FAAN (SON)
Professor and Specialty Director, Nursing Informatics
Co-Director, Center of Excellence in Biology and Behavior Across the Lifespan

Dr. Nahm’s research focuses on the use of technology-based interventions to engage patients, caregivers, and community-dwelling older adults in their care and to promote the management of chronic conditions. She has conducted numerous studies in the nursing informatics field, including qualitative, measurement, theory testing, usability studies, and longitudinal intervention trials. In her most recent R21 study, Dr. Nahm and her team investigated the effects of a theory-based patient portal e-learning program on selected health-related outcomes in older adults with chronic illnesses. She also leads online cancer survivorship studies in collaboration with oncologists and oncology nurses. Dr. Nahm has published more than 65 peer-reviewed journal articles and seven book chapters in her area of expertise and has given presentations at regional, national, and international scientific conferences.

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KATHLEEN M. NEUZIL, MD, MPH, FIDSA (SOM)
Myron M. Levine, MD, DTPH, Professor in Vaccinology
Professor, Department of Medicine
Director, Center for Vaccine Development and Global Health

Dr. Neuzil is one of the most influential research scientists and advocates in the area of vaccine development and public policy in the world and has been central to the domestic and global response to the COVID-19 pandemic. As a co-principal investigator of the National Institutes of Health-funded leadership group for the Vaccine and Treatment Evaluation Unit network, Dr. Neuzil is part of the strategic team evaluating COVID-19 vaccines and therapeutics in the United States and was part of the study team that designed the first COVID-19 vaccine clinical trial in the country. She has extensive experience with vaccine research, policy, and introduction, having directed worldwide vaccine access and delivery at PATH, an international nonprofit global health organization, originally known as the Program for Appropriate Technology in Health, based in Seattle. During her time at PATH, Dr. Neuzil’s work focused on vaccines targeted against several diseases, including rotavirus, human papillomavirus infection, Japanese encephalitis, and influenza. Dr. Neuzil has extensive experience in domestic and international policy, including membership on the Centers for Disease Control and Prevention’s Advisory Committee on Immunization Practices and the Pandemic Influenza Task Force for the Infectious Disease Society of America. She also has worked as a technical advisor on diarrheal diseases with the World Health Organization. Dr. Neuzil has contributed more than 100 scientific papers on vaccines and infectious diseases, with a particular research focus on influenza and rotavirus vaccines.

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YOLANDA OGBOLU, PHD, CRNP-NEONATAL, FNAP, FAAN (SON)
Associate Professor and Chair, Department of Partnerships, Professional Education, and Practice
Director, Center for Health Equity and Outcomes Research

Dr. Ogbolu has expertise in research seeking global and local solutions for advancing health equity. Funded projects address the social determinants of health, community social isolation, cultural competency, and health disparities in neonatal outcomes. She is a member of the Baltimore City Social Determinants of Health Taskforce, the first such legislatively mandated committee in the nation. She is experienced in building nurse capacity globally through partnerships with nursing colleges and programs. As department chair, Dr. Ogbolu is responsible for overseeing teamwork within six of the school’s units, including the Office of Global Health, the Clinical Simulation Labs, the Standardized Patient Program, the Institute for Educators, the Wellmobile Program, and the Office of Professional Education. She also leads the development of a global learning network to advance health equity.

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AMANDA OGLESBY, PHD (SOP/SOM)

Associate Professor, Department of Pharmaceutical Sciences, School of Pharmacy

Associate Professor, Department of Microbiology and Immunology, School of Medicine

Dr. Oglesby is interested in the role of iron in bacterial pathogenesis. In 2005, she completed her doctoral training at the University of Texas at Austin in the Department of Molecular Genetics and Microbiology, where she studied iron and sRNA regulation in *Shigella* species, the causative agents of bacillary dysentery. After her graduate training, her postdoctoral studies at the University of Colorado School of Medicine focused on iron and sRNA regulation in *Pseudomonas aeruginosa*. She joined the faculty at UMB in 2012, and her lab has expanded these studies into the role of iron and heme regulation via small RNAs in pathogenesis of *P. aeruginosa*, as well as how iron impacts *P. aeruginosa*’s interactions with other bacterial species.

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LYNN OSWALD, PHD, RN (SON)

Associate Professor, Department of Family and Community Health

Dr. Oswald conducts research on neurobiological factors that underlie interrelationships among stress, childhood trauma, impulsive behavior, and risks for substance use disorders.

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JENNY OWENS, SCD, MS (GS)

Assistant Dean, Academic Programs

Faculty Executive Director, Graduate Research Innovation District

Dr. Owens has a decade of experience in higher education administration and leads the Graduate Research Innovation District (The Grid), an innovation hub designed to support student entrepreneurial ventures through education, early-stage funding, and programming. Dr. Owens teaches foundational courses in the Master of Science in Health and Social Innovation Program and Capstone courses in the Master of Science in Health Sciences Program. Dr. Owens is Robert Wood Johnson Culture of Health Leader and a Warnock Social Innovation Fellow. She was recognized in the *Baltimore Business*
Journal’s “40 under 40” Class of 2018 and is an alumna of the Johns Hopkins Social Innovation Lab. Her research interests include health equity, indirect costs of health care, and technology-assisted community support.

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FRANCIS B. PALUMBO, PHD, JD, MS (SOP)
Professor, Department of Pharmaceutical Health Services Research
Executive Director, Center on Drugs and Public Policy

Dr. Palumbo is a licensed pharmacist and a member of the Maryland and District of Columbia bar who has practiced pharmacy and law. As an adjunct professor at Maryland Carey Law, he teaches the course in food and drug law. In addition, he served as chair of the editorial advisory board of the Food and Drug Law Journal. UMB’s 2019 Educator of the Year, Dr. Palumbo has been the principal investigator for major federal research grants and served as a member of a National Institutes of Health study section. In addition to law, he maintains a strong interest in public policy, pharmacoepidemiology, and health services research. He has many journal articles and presentations to his credit, covering a wide range of topics including law and public policy, and he co-authored a book on containing costs in third-party drug programs. He also has been active in several national professional organizations, including the American Pharmacists Association, where he served as president of the Academy of Pharmaceutical Research and Science, and the American Society for Pharmacy Law, where he is a past president. He received his bachelor’s degree in pharmacy from the Medical University of South Carolina, MS and PhD in health care administration from the University of Mississippi, and JD from the University of Baltimore School of Law. He served in the U.S. Army from 1969 to 1971. Dr. Palumbo’s research interests include food and drug law, pharmacy law, drugs and public policy, pharmacoepidemiology, and economics and epidemiology.

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MICHAEL PAPPAS, JD, MA (SOL)
Professor of Law

Professor Pappas concentrates his research on property law, natural resources law, and environmental law, with a special focus on emerging issues in climate change, including energy (from both fossil fuel and renewable sources), land use, and water law. He formerly served on the leadership committee of the Agriculture Law Education Initiative, a collaboration among Maryland universities to identify and meet the legal needs of the state’s farm families.

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MICHELLE PEARCE, PHD (GS)
Professor and Director, Integrative Health and Wellness Program

Dr. Pearce is a clinical psychologist who researches the relationship among religion/spirituality, coping, and health as well as the integration of spirituality into the practice of psychotherapy. She has developed a national online training program for spiritual competency in mental health care and directs two graduate certificate programs: Integrative Health and Wellness, and Science Communication. She also teaches several Graduate School courses on mind-body interventions, health coaching, self-care for professionals, and writing for the public. She is the author of the books “Night Bloomers: 12 Principles for Thriving in Adversity” and “Cognitive Behavioral Therapy for Christians with Depression: A Practical, Tool-Based Primer.” She also co-authored the book “Religion and Recovery from PTSD.” Her areas of clinical expertise include cognitive behavioral therapy, mind-body stress reduction methods, existential issues, and behavioral medicine to address the intersection of mental and physical illness.

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ROBERT PERCIVAL, JD, MA (SOL)
Robert F. Stanton Professor of Law
Director, Environmental Law Program

A leading scholar in the field of international environmental law, Professor Percival is a sought-after analyst on international efforts to control climate change and has a deep knowledge of environmental policy in China, where he has delivered more than 25 lectures to Chinese government agencies, professional associations, and universities. A former clerk for U.S. Supreme Court Justice Byron R. White, he brings constitutional insight to his analysis of domestic environmental policy. Before joining academia, Professor Percival served as senior attorney for the Environmental Defense Fund.

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MICHAEL PINARD, JD (SOL)  
*Francis & Harriet Iglehart Professor of Law*

Professor Pinard leads Maryland Carey Law’s nationally recognized Clinical Law Program, which provides nearly 75,000 hours of free legal services annually to individuals, families, and organizations in Maryland. He writes and practices in the areas of criminal justice, the collateral consequences of criminal convictions and criminal records, and the school-to-prison pipeline. Professor Pinard has testified on bills that aim to ease criminal record-related obstacles so that individuals are better situated to support themselves, their families, and their communities.

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ANDREW N. POLLAK, MD (SOM)  
*James Lawrence Kernan Professor*  
*Chair, Department of Orthopaedics*  
*Chief of Orthopaedics, University of Maryland Medical System*

Dr. Pollak is leading the way in investigating innovative ways to diagnose and treat orthopaedic issues, overseeing National Institutes of Health-funded research programs that study the mechanisms of the musculoskeletal system. A pre-eminent orthopaedic trauma surgeon, Dr. Pollak has introduced two innovative surgical techniques to the University of Maryland R Adams Cowley Shock Trauma Center and University of Maryland Medical Center to improve recovery after femoral shaft fractures and spinal injuries. Dr. Pollak was instrumental in developing the University of Maryland Center for Brain Health and Human Performance, which brings together the scientific expertise of the University of Maryland, College Park with the clinical and research capabilities of UMB’s professional schools to focus on traumatic brain injury and other sports medicine issues. He was associate team physician for the Baltimore Ravens and serves as a consulting orthopaedic surgeon for the NFL team. As former chair of the American Academy of Orthopaedic Surgeons’ Extremity War Injuries Project Team, Dr. Pollak was instrumental in producing evidence needed to establish treatment guidelines for the optimal care of wounded soldiers.

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JAMES E. POLLI, PHD (SOP)
Ralph F. Shangraw/Noxell Endowed Chair in Industrial Pharmacy and Pharmaceutics
Professor, Department of Pharmaceutical Sciences
Co-Director, Maryland Center of Excellence in Regulatory Science and Innovation
Co-Director, Center for Research on Complex Generics

Dr. Polli's research interests evolve around the performance and pharmaceutical quality of orally administered medicines. His two main research interests are maximizing oral bioavailability through formulation and chemical approaches and developing public quality standards for oral dosage forms. He has published in the areas of dissolution, drug intestinal permeability, transporter substrate requirements, pro-drug design, oral bioavailability, in vitro-in vivo correlation, and bioequivalence. He is a fellow of the American Association of Pharmaceutical Scientists, an editorial board member of several journals, an editor of Pharmaceutical Research, and vice chair of the U.S. Pharmacopeia Expert Committee on Biopharmaceutics. He is a licensed pharmacist and teaches professional pharmacy students and graduate students. Dr. Polli frequently advises international and developing agencies on drug product quality standards. He received a bachelor’s degree in pharmacy from the Philadelphia College of Pharmacy and Science and a PhD in pharmaceutics from the University of Michigan.

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JUDY L. POSTMUS, PHD, ACSW (SSW)
Dean and Professor

Dean Postmus’ research has focused on the physical, sexual, and economic victimization of women. She was the founder and director (2007-2018) of the Rutgers University Center on Violence Against Women and Children, which works to eliminate physical, sexual, and other forms of violence against women and children — and the power imbalances that permit them — through multidisciplinary research, education, and community engagement. In 2016, Dean Postmus received a grant from the National Institute of Justice (NIJ), within the U.S. Department of Justice, to create the Rutgers Violence Against Women Research Consortium. The consortium works collaboratively with interdisciplinary researchers and NIJ scientists to identify, implement, and disseminate research and evaluation projects that fill the gaps in our current knowledge of intimate partner violence, sexual violence, stalking, and teen dating violence.

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NATALIE RAM, JD (SOL)
Professor

Professor Ram, who joined the Maryland Carey Law faculty in 2019, is a top scholar on the intersection of genetic privacy and the law, publishing groundbreaking research in *Harvard Law Review, Stanford Law Review, Columbia Law Review, Virginia Law Review, Northwestern Law Review*, and the scientific journals *Science* and *Nature Biotechnology*. She teaches courses in the school’s Law and Health Care Program. Professor Ram is a 2021 Greenwall Faculty Scholar in Bioethics, which awards three-year career development grants to promising young scholars across disciplines. Before joining Maryland Carey Law, she clerked for Judge Guido Calabresi of the U.S. Court of Appeals for the Second Circuit and Justice Stephen G. Breyer of the U.S. Supreme Court. She subsequently worked in the appellate and Supreme Court litigation group at Morrison & Foerster in Washington, D.C. From 2014 to 2019, Professor Ram taught at the University of Baltimore School of Law, where she also was associate director of the Center for Law and Medicine. She earned her law degree from Yale Law School and bachelor’s degree in public and international affairs from the Woodrow Wilson School at Princeton University. She has appeared on CNN, national radio broadcasts “Science Friday” and “Here & Now,” and has been quoted in *The Wall Street Journal, The Washington Post*, and *BuzzFeed News*. She also has written several op-eds for *Slate*.

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JACQUES RAVEL, PHD (SOM)
Professor, Department of Microbiology and Immunology
Associate Director, Institute for Genome Sciences

Dr. Ravel’s research program focuses on applying modern genomics technologies and ecological principles to characterize the role and dynamics of the microbial communities inhabiting the human body in health and disease and better define the interactions between the host, the microbes, and the environment that drive these ecological systems. He previously was an assistant investigator at the Institute for Genomic Research in Rockville, Md., where the first microbial genome was sequenced in 1995. He was elected to the American Academy of Microbiology in 2012 and was awarded the Blaise Pascal International Research Chair in 2015. Dr. Ravel is editor-in-chief of the journal *Microbiome* and an associate editor of the journal *mBio*. He received his PhD in environmental molecular microbiology and ecology from the University of Maryland, College Park and performed his postdoctoral training at Johns Hopkins University in the Department of Chemistry working on microbial natural product chemistry.

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E. ALBERT REECE, MD, PHD, MBA (SOM)

*Executive Vice President for Medical Affairs, UMB*

*Dean and John Z. and Akiko K. Bowers Distinguished Professor, School of Medicine*

Dean Reece is one of the nation’s pre-eminent academic medical leaders. As the School of Medicine’s 30th dean, he leads more than 3,000 faculty scientists and physicians and 2,900 staff across the school’s key mission areas — education, clinical care, finance, philanthropy, and research — working in partnership with the University of Maryland Medical System. Most significantly, he has played an integral role in building the school into one of the fastest-growing biomedical research enterprises in the nation, with $563 million in total research funding. Dean Reece has published extensively in scientific literature: 12 books including revisions, five monographs, and more than 500 articles, chapters, and abstracts. He formerly served as chair of the Council of Deans of the Association of American Medical Colleges and serves or has served on many governmental and civic organizations and committees such as the Food and Drug Administration, the Institute of Medicine, the National Institutes of Health, the Secretary of Health and Human Services Committee on Infant Mortality, the March of Dimes Birth Defects Foundation, and the Massachusetts General Hospital Scientific Advisory Committee. He has received numerous special recognitions and awards, including the 2015 Distinguished Leadership Award from the American Association of Medical Colleges. He is a speaker and lecturer on a wide range of topics, including medical innovation, research funding, leadership, and the future of medicine. Trained as an OB/GYN, he also is a highly regarded scientist who maintains his own laboratory studying diabetes in pregnancy, birth defects, and prenatal diagnosis.

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WILLIAM F. REGINE, MD, FACR, FACRO (SOM)

*Isadore & Fannie Schneider Foxman Professor*  
*Chair, Department of Radiation Oncology*  
*Executive Director, Maryland Proton Treatment Center*

Dr. Regine, ranked in the top five in National Institutes of Health research funding, is recognized nationally and internationally in the areas of gastrointestinal and sympathetic nervous system malignancies and in the use of stereotactic radiosurgery. At the Maryland Proton Treatment Center, he leads the first and most advanced facility of its kind in the Baltimore-Washington region, providing nearly 2,000 cancer patients a year with precise “pencil-beam” technology to treat solid tumors. UMB’s 2016 Entrepreneur of the Year, Dr. Regine has served as principal or co-principal investigator on at least four National Cancer Institute (NCI)-sponsored cooperative group clinical trials. He is a member of the GI and brain tumor steering committees for NCI’s Radiation Therapy Oncology Group and is the chairman of the GI section of the National Oral Board examination for trainees in radiation oncology. Dr. Regine served as the principal investigator of a study evaluating adjuvant therapy in patients with pancreatic cancer, which defined a new standard of care. He also has been the principal investigator/study chairman for two institutional clinical trials that defined new
standards of care for patients with brain metastases and malignant spinal cord compression. Dr. Regine is co-editor of “Principles and Practices of Stereotactic Radiosurgery,” the first comprehensive textbook of its kind. He also is co-inventor of the GammaPod, a first-of-its-kind treatment device dedicated to the stereotactic radiation treatment of early-stage breast cancer.

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**BARBARA RESNICK, PHD, RN, CRNP, FAAN, FAANP (SON)**  
*Professor and Sonia Ziporkin Gershowitz Chair in Gerontology*  
*Co-Director, Biology and Behavior Across the Lifespan Organized Research Center*

An internationally recognized expert in gerontology, Dr. Resnick focuses on developing innovative interventions to motivate older adults to engage in healthy behaviors, particularly with regard to function and physical activity as well as other behaviors such as adhering to recommended immunizations and to managing pain and other symptoms commonly noted in aging, and to implement these in real-world settings. These interventions are designed to optimize recovery, health, function, and physical activity regardless of age or underlying co-morbidities. Examples include helping individuals recover from orthopedic events or, for individuals with and without dementia, to optimize their participation in personal care activities and ambulation and engage in physical activity.

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**MARK A. REYNOLDS, DDS, PHD (SOD)**  
*Dean and Professor*

A distinguished academic dentist, Dr. Reynolds has been a professor at the School of Dentistry (SOD) since 2009 and served for one year as interim dean before being named dean in 2014 after a national search. He has published nearly 200 peer-reviewed articles with more than 11,000 citations and serves on the editorial boards of journals including *Biomaterials, Clinical Advances in Periodontics, the International Journal of Periodontics and Restorative Dentistry*, and the *Journal of Periodontal Research*. Dr. Reynolds is a diplomate and past director and co-chair of the American Board of Periodontology. He has served on the board of organizations such as the American Academy of Periodontology and LifeNet Health. He is past president of the National Dental Honor Society, Omicron Kappa Upsilon, Supreme Chapter, and a fellow of the American College of Dentists, International College of Dentists, and Pierre Fauchard Academy. Dr. Reynolds has participated in more than 40 National Institutes of Health (NIH) study sections, serving as a regular member of the Skeletal Biology Development and Disease Study Section from 2006 to 2010. He was a consultant to the Commission on Dental Accreditation and Naval Postgraduate School and was appointed in 2017 to a second four-year term as a voting member of the Food and
Drug Administration’s Medical Devices Advisory Committee, Dental Products Panel, which he chairs. He began his NIH funding in 1992, when he earned a competitive five-year NIH Individual Dentist Scientist Award to support his residency and PhD studies. His research focuses on bone and periodontal regeneration. In 2004 and 2016, Dr. Reynolds received the American Academy of Periodontology R. Earl Robinson Periodontal Regeneration Award. In 1999, Dr. Reynolds earned his PhD in oral and experimental pathology from the University of Maryland Graduate School. In 1995, he earned a certificate in periodontics from SOD, where he had earned his DDS in 1986. Dr. Reynolds also earned a master’s degree in community-clinical psychology in 1982 and a bachelor’s degree in psychology in 1978, both from the University of Maryland, Baltimore County.

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CHARMAINE D. ROCHESTER-EYEGUOKAN, PHARMD (SOP)
Professor, Department of Pharmacy Practice and Science
Associate Director of Clinical Programs, Center for Innovative Pharmacy Solutions

Dr. Rochester-Eyeguokan graduated from Howard University College of Pharmacy in 1996 and received her postgraduate pharmacy practice residency training at the Medical University of South Carolina in 1997 and her postgraduate primary care residency at the University of Mississippi Medical Center in 1998. She is the clinical director of P3 eHealth Services and the residency program director for the PGY2 Ambulatory Care Residency Program at the University of Maryland Medical Center. She served as an at-large commissioner of the Maryland State Board of Pharmacy from 2013 to 2017.

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MAGALY RODRIGUEZ DE BITTNER, PHARMD, BCPS, CDE, FAPHA (SOP)
Felix Gyi Professor in Pharmapreneurship
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In addition to her School of Pharmacy duties, Dr. Rodriguez de Bittner is director of the Maryland P3 Program — a patient-centered comprehensive medication therapy and chronic disease management program provided by pharmacists throughout the Mid-Atlantic region. She engages in legislative advocacy and state and national leadership to expand the role of pharmacists in chronic disease management. She is an innovator who has implemented many new health care delivery models, particularly in community pharmacies, and received many grants and contracts to develop innovative programs. UMB’s 2013 Entrepreneur of the Year, Dr. Rodriguez de Bittner is a member of the Health Care Delivery Reform Subcommittee of the Maryland Health
Care Reform Council, a member of the subcommittee of the Maryland Patient-Centered Medical Home pilot, past president of the Maryland Pharmacists Association, past board member and president of the American Pharmacists Association Foundation, and member of the Pan-American Commission for Pharmaceutical Education. As executive director of the Center for Innovative Pharmacy Solutions, Dr. Rodriguez de Bittner oversees the eHealth Center, which delivers patient care services by leveraging technology housed in a location remote from the patient and providers in scenarios where advanced practice pharmacists work closely within a patient-centered, team-based model.

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VIRGINIA ROWTHORN, JD, LLM (UMB, GS)
Assistant Vice President for Global Engagement, UMB
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Senior Lecturer and Co-Director, Vulnerability and Violence Reduction Programs, Graduate School

Before joining the Graduate School, Virginia Rowthorn was the managing director of the Law and Health Care Program at Maryland Carey Law for 10 years, a staff attorney for the Department of Health and Human Services, an associate at the law firm of DLA Piper, and a Peace Corps volunteer in the Marshall Islands. She is on the board of the Consortium of Universities for Global Health (CUGH). She oversees the Center for Global Engagement, a UMB center that serves as the hub of interprofessional global health and education activities on campus. CGE provides Universitywide leadership to build and sustain global education at UMB; nurtures strategic global partnerships through the center-run President’s Global Impact Fund; creates and manages student, faculty, and staff mobility programs; promotes collaborative international research; develops curricula designed to build global competency through the GLOBALtimore Fellows Program; and delivers educational and professional services that support sustainable global programs. Rowthorn obtained her bachelor’s degree in American studies from Carleton College, law degree from Maryland Carey Law, and master’s in global health law from Georgetown Law School.

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Honorable Francis X. Kelly Professor of Trauma Surgery
Director, Program in Trauma
Physician-in-Chief, R Adams Cowley Shock Trauma Center

Dr. Scalea is one of the world’s foremost authorities on trauma research, education, and clinical practice. As physician-in-chief of the R Adams Cowley Shock Trauma Center, he leads the largest facility of its kind in the nation and the first in the world to treat shock. Since taking over Shock Trauma, he has elevated the center to be one of the premier trauma facilities in the world, treating 8,000 critically injured patients annually with a 96 percent survival rate for gunshot victims, head-on car collisions, and other trauma injuries. Widely acknowledged as a pioneer in the treatment of shock trauma, Dr. Scalea puts in 60 to 70 hours a week attending to patients and performing about 600 surgeries a year. His Program in Trauma has expanded clinical services, and his faculty is responsible for the bulk of emergency general surgery patients at the University of Maryland Medical Center. His group has built a regionwide critical care program and is responsible for nine intensive care units and over 100 beds. Several years ago, he established the GO Team, a physician-led rapid response team consisting of an anesthesiologist, surgeon, critical care medicine specialist, and certified registered nurse anesthetist that is available around the clock every day and serves as a specialized component of Maryland’s statewide emergency medical system. Dr. Scalea remains a prolific investigator, and Shock Trauma investigators from his department report at many national meetings.

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LEAH SERA, PHARMD, MA (SOP)
Associate Professor, Department of Pharmacy Practice and Science
Director, MS in Medical Cannabis Science and Therapeutics Program

Dr. Sera received her PharmD from the School of Pharmacy in 2010. She is a board-certified pharmacotherapy specialist and earned a master’s in instructional systems development from the University of Maryland, Baltimore County in 2017. Dr. Sera’s clinical specialties are pain management and palliative care. In addition to directing nation’s first MS in Medical Cannabis Science and Therapeutics program, she teaches a variety of courses within the PharmD curriculum, including the skills-based Abilities Lab series, Applied Science and Therapeutics, and Immunology. She also manages a Study Skills elective for first-year PharmD students and teaches pain/palliative care topics in several elective courses. Dr. Sera’s research interests include medication management in hospice patients, implementation of inpatient palliative care pharmacy services, and educational research.

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WENDY SHAIA, MSW, EDD (SSW)
Clinical Associate Professor
Executive Director, Social Work Community Outreach Service

Dr. Shaia has an MSW degree from the School of Social Work and an EdD in human and organizational learning from George Washington University. She has more than 20 years of experience in developing, implementing, and leading organizations and programs including homeless shelters, low-income housing developments, and community service programs.

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PAUL SHAPIRO, PHD (SOP)
Professor, Department of Pharmaceutical Sciences

Dr. Shapiro’s research focuses on protein kinases and their role in regulating signaling pathways that control cellular functions and dysregulation of protein kinases during disease. Specific areas of research focus on the discovery and development of novel small molecules that inhibit the extracellular signal-regulated kinases (ERK1/2) and p38 MAP kinases and provide the rationale for clinical applications of these molecules in treating cancer or inflammatory disease. Dr. Shapiro received his Bachelor of Science degree from the University of Wisconsin-Madison and his doctorate in molecular physiology and biophysics from the University of Vermont. He completed postdoctoral training in the Department of Chemistry and Biochemistry at the University of Colorado-Boulder.

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FADIA SHAYA, PHD, MPH (SOP)
Professor, Department of Pharmaceutical Health Services Research

Dr. Shaya’s work focuses on building strategic partnerships to target addictions, alcohol, prescription drugs, and other substance misuse in Maryland communities and beyond. The goal is to raise awareness about the dangers of misuse of medications and other substances and to work with pharmaceutical and medical communities on the risks of overprescribing to young adults. Her team brings drug abuse prevention activities and education to schools, communities, parents, health care systems, insurers, pharmacists, physicians, and their patients while tracking reductions in adverse events and overdoses. UMB’s 2017 Teacher of the Year, Dr. Shaya also is director of research for the School of Pharmacy’s Center for Innovative Pharmacy Solutions, associate director for the Center on
Drugs and Public Policy, director of the Behavioral Health Research and Resource Team, and a faculty member in the Department of Epidemiology and Preventive Medicine at the University of Maryland School of Medicine.

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COREY SHDAIMAH, PHD, LLM, LLB (SSW)
Daniel Thursz Distinguished Professor of Social Justice

Dr. Shdaimah, who has degrees in law and social work, examines the impact of policy as it evolves through implementation, with a focus on child welfare, prostitution policy, and child care. She is an expert on alternative criminal justice responses to prostitution and street-based sex work and has consulted with jurisdictions across the country and internationally on development, implementation, and evaluation of such programs. In the field of child welfare, Dr. Shdaimah studies case processing. She advises the Maryland judiciary and has worked with the state’s Foster Care Improvement Program as well as a number of local jurisdictions on dependency court reforms and the involvement of stakeholders in the court process. She also is a leading voice on U.S. child care policy, speaking in academic venues and to the news media about the struggles faced by families and providers and the range of early education and child care policy responses to address them.

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ALAN R. SHULDINER, MD (SOM)
John L. Whitehurst Professor of Medicine
Associate Dean for Personalized and Genomic Medicine
Director, Program for Personalized and Genomic Medicine

Dr. Shuldiner is a leading national expert in personalized/precision medicine whose major research interest lies in the genetics of age-related diseases, including type 2 diabetes, obesity, osteoporosis, and cardiovascular disease. He also is an expert in pharmacogenetics, the study of how genetics affect the way a given patient will respond to or be at risk for the adverse side effects of medications. He is best known for his studies involving Old Order Amish, a homogeneous population ideal for genetic studies. In the Program for Personalized and Genomic Medicine, Dr. Shuldiner leads a large, multidisciplinary research team that uses state-of-the-art molecular genetic statistical and epidemiological methods.

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MANEKA SINHA, JD (SOL)

Assistant Professor

Professor Sinha joined Maryland Carey Law in 2019 to relaunch the Criminal Defense Clinic. She has extensive experience in criminal litigation and is recognized for her expertise in forensic science. Professor Sinha’s research interests explore the intersection of forensic science evidence and outcomes in criminal cases. Before joining the faculty, she spent 10 years at the renowned Public Defender Service for the District of Columbia, where she served as a senior advisor to the agency’s director on forensic science issues and represented indigent clients charged with the most serious crimes in Washington, D.C., including complex homicides and sexual assaults. She also served as head of the agency’s nationally recognized Forensic Practice Group, training and supervising lawyers involved in forensic science litigation locally and nationwide while also litigating highly complex and novel forensic science issues.

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MATICANGAI SIRLEAF, JD, MA (SOL)

Nathan Patz Professor of Law

Professor Sirleaf writes and teaches in the areas of global public health law, public international law, international human rights law, international criminal law, post-conflict and transitional justice, and criminal law. Her research focuses on the disproportionate distribution of highly infectious diseases and the role of law in facilitating this result. Before joining the Maryland Carey Law faculty, Professor Sirleaf served in a number of attorney and fellow roles including law clerk to Chief Justice Sandile Ngcobo of the Constitutional Court of South Africa and Bernstein Fellow at the International Center for Transitional Justice. She previously was an associate professor of law at the University of Pittsburgh School of Law and an assistant professor of law at the University of Baltimore School of Law. Her scholarship has appeared in a wide variety of law review articles, book chapters, and online publications.

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MAX STEARNS, JD (SOL)
*Venable, Baetjer & Howard Professor of Law*

Professor Stearns is an interdisciplinary scholar who specializes in constitutional law and the economic analysis of law, applying such tools as public choice, social choice, and game theory to public law doctrines. His work focuses on standing and justiciability; the Commerce Clause, both affirmative and dormant; and due process and equal protection. He has written extensively on institutional decision-making processes, focusing on the judiciary, legislatures, and plebiscites. Before he began teaching law, Professor Stearns clerked for Harrison L. Winter on the U.S. Court of Appeals for the Fourth Circuit and practiced in the litigation department of firms in Boston and Philadelphia.

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RENA STEINZOR, JD (SOL)
*Edward M. Robertson Professor of Law*

Professor Steinzor is a leading authority on regulatory reform and the author of numerous essays and op-eds as well as the provocative 2014 book “Why Not Jail? Industrial Catastrophes, Corporate Malfeasance, and Government,” in which she argues that corporate executives should be criminally prosecuted for industrial catastrophes that kill or sicken people. Professor Steinzor is a founder and former president of the Center for Progressive Reform, a nonprofit research and advocacy organization with 60 member scholars that specializes in health, safety, and environmental protection. In addition to practicing environmental law at Spiegel & McDiarmid in Washington, D.C., she has testified at federal and state legislative hearings, been an attorney advisor at the Federal Trade Commission, and served as counsel to the House Subcommittee on Commerce, Transportation, and Tourism.

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DAVID L. STEWART, MD (SOM)
Associate Professor and Chair, Department of Family and Community Medicine

Dr. Stewart is on the front lines as an active clinician, researcher, and highly respected physician in the Baltimore community. In particular, he has been tireless in his work to address hypertension and diabetes in African Americans as well as in his efforts to help psychiatric patients with medical problems. He has extensively studied health disparities and other public health and urban issues affecting individuals and families in Baltimore. In addition, as a physician member of the University of Maryland Rehabilitation Orthopaedic Institute, Dr. Stewart has played an important role in the development of the University of Maryland Center for Brain Health and Human Performance.

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PETER SWAAN, PHD (SOP)
Professor and Chair, Department of Pharmaceutical Sciences
Associate Dean for Research and Graduate Education

Dr. Swaan received a PhD in biopharmaceutics from Utrecht University in the Netherlands and completed a postdoctoral fellowship in pharmaceutical chemistry at the University of California, San Francisco. Before joining the School of Pharmacy in 2002, he was an associate professor of pharmaceutics at Ohio State University and director of its Core Laboratory for Bioinformatics and Computational Biology. He has published more than 100 original research articles focusing on all aspects of transport proteins in drug targeting and delivery, pharmacokinetics, and pharmacodynamics. His major contributions to this research area involve the application of transporters as targets for prodrugs. Furthermore, Dr. Swaan has pioneered the use of computational techniques in determining structural requirements of membrane transporters, which has paved the way for the discovery of novel substrates and inhibitors. He holds several U.S. patents, serves as editor-in-chief of the journal Pharmaceutical Research, and is an associate editor of the journal Drug Metabolism and Disposition.

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MAUREEN SWEENEY, JD, PHD, MA (SOL)
Professor and Director, Immigration Law Clinic
Director, Chacón Center for Immigrant Justice

Professor Sweeney is a founding board member of the Maryland Immigrant Rights Coalition, a nonprofit dedicated to assisting Maryland immigrants through the coordination and enhancement of pro bono representation of low-income immigrants, community education, and advocacy on behalf of immigrants. In her scholarship, Professor Sweeney writes primarily in the fields of asylum law and the immigration consequences of criminal convictions. UMB’s 2020 Public Servant of the Year, she is the principal author of “Immigration Consequences of Maryland Offenses,” a chart for use by criminal defense practitioners, and has spoken and trained widely in the state on this topic. Before joining the Maryland Carey Law faculty, Professor Sweeney worked for Associated Catholic Charities’ immigration legal services in Baltimore, the Migrant Legal Action Program in Washington, D.C., and the Texas Center for Immigrant Legal Assistance in Houston.

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SCOTT M. THOMPSON, PHD (SOM)
Professor and Chair, Department of Physiology

Dr. Thompson is a physiologist who is at the forefront of cutting-edge research at the University of Maryland’s Brain Science Research Consortium that could lead to innovative new treatments for depression and other diseases. He is the principal investigator on grants from the National Institute of Neurological Disorders and Stroke, the National Institute of Mental Health, and the National Institute of General Medical Sciences, with total funding of $3.3 million. Dr. Thompson has authored 75 articles in premier peer-reviewed journals, serving as primary author on 15 of them. He has received several major awards for his outstanding research and is invited to lecture nationally and internationally.

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DONALD B. TOBIN, JD (SOL)
Dean and Professor

Dean Tobin is recognized as one of the nation’s leading authorities on the intersection of tax and campaign finance laws. He has extensive government experience, having served for four years as an appellate attorney in the tax division of the U.S. Justice Department and seven years on Capitol Hill, where he was on the professional staff of former Maryland Sen. Paul Sarbanes, the Senate Committee on the Budget, and the Joint Economic Committee. He has testified before the Federal Election Commission and the U.S. House Ways and Means Subcommittee on Oversight.

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J. KATHLEEN TRACY, PHD (SOM)
Associate Professor, Department of Epidemiology and Public Health
Director, Clinical Translational Research and Informatics Center

Dr. Tracy is an epidemiologist whose research is focused on cancer disparities, with an emphasis on cervical cancer prevention in underserved groups of women, particularly women from developing countries and lesbians. As part of cultivating this line of research, she has completed data collection for an intramurally funded pilot study of factors associated with HPV infection in Malian women in West Africa and is collaborating with the director and staff of the Center for Vaccine Development-Mali — a School of Medicine field site based in the capital city to support research activities — and other cervical cancer researchers located in Bamako, Mali, to facilitate this research.

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DEANNA TRAN, PHARMD, BCACP (SOP)
Associate Professor, Department of Pharmacy Practice and Science
Co-Director, Pharmacy Practice Laboratories

Dr. Tran is one of three pharmacists serving on the SARS-CoV-2 Vaccination Technical Advisory Group for the Maryland Department of Health. She also is a research team member on the University of Maryland School of Medicine’s Health Resources Services Administration grant focusing on COVID-19 vaccine hesitancy. Dr. Tran remains active in providing immunizations to patients in her current practice site, assisting in flu and COVID-19 vaccination clinics, as well as educating and training pharmacists and student pharmacists on the American Pharmacists Association Immunization Certificate program.
ALISON TRINKOFF, SCD, MPH, RN, FAAN (SON)
Professor, Department of Family and Community Health

Dr. Trinkoff’s longitudinal study of more than 2,600 registered nurses examined the relationship among long work hours, needlestick injuries, and musculoskeletal disorders. More recently, her research has focused on the implications of nurses’ work environments on patient outcomes. She has been studying long-term care settings, including certified nursing assistant preparation and training, nursing home leadership, and their impact on resident care outcomes.

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JAMES TROVATO, PHARMD, MBA, BCOP, FASHP (SOP)
Professor and Vice Chair for Academic Affairs, Department of Pharmacy Practice and Science

Dr. Trovato, an oncology specialist, earned a bachelor’s degree in pharmacy at the Massachusetts College of Pharmacy, a Doctor of Pharmacy degree at Purdue University, and an American Society of Health Systems Pharmacists-accredited oncology residency at the University of Texas Health Science Center at San Antonio. He is a leader in oncology pharmacy practice, professional education, and residency training. He serves the School of Pharmacy as the program director for the Postgraduate Year 2 Oncology Pharmacy Practice Residency Program and is a board-certified oncology pharmacist with inpatient and ambulatory care medical oncology practices. Dr. Trovato’s research interests include the prevention and management of complications related to chemotherapy or malignant disease in patients with cancer.

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MICHAEL VAN ALSTINE, JD, MJURCOMP, DRJUR (SOL)

Francis King Carey Professor in Business Law
Director, Business Law Program

Professor Van Alstine specializes in international and domestic private law. He has published widely in English and German in the areas of comparative law, contracts, commercial law, and international commercial transactions. A particular area of scholarly interest is the comparative law analysis of treaties, specifically how different legal systems give effect to international treaties in domestic law. Before becoming a professor, he practiced commercial and business law at firms in the United States and Germany. Professor Van Alstine teaches courses in International Business Transactions, Contracts, Secured Transactions, and Sales and Sales Financing. He also has taught in the Scholars Program at the University of Maryland, College Park.

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ZELJKO VUJASKOVIC, MD, PHD (SOM)
Professor, Department of Radiation Oncology
Director, Division of Translational Radiation Sciences

Dr. Vujaskovic’s clinical and research work for the past two decades has been to elucidate the mechanisms associated with radiation normal tissue injury, identify potential biomarkers predicting individual patient risk for injury, and develop novel therapeutic interventions/strategies to prevent, mitigate, or treat radiation injury. As director of the Division of Translational Radiation Sciences in the Department of Radiation Oncology at the School of Medicine (SOM), he is a nationally and internationally recognized leader in the field of radiation-related normal tissue injury. Many future clinical care protocols, new novel therapies, and future drug development will stem directly from the result of Dr. Vujaskovic’s research/patent work and lead to improvement in radiation therapy and the quality of life for cancer patients. He also is the director of the Maryland Proton Alliance, a collaborative venture between SOM and the Maryland Proton Treatment Center (MPTC) that integrates research, education, and patient care at MPTC.

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HONGBING WANG, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Chair, Experimental and Translational Therapeutics Program

Dr. Wang’s research interests focus primarily on the influence of drugs and genetic factors on the expression of metabolizing and detoxifying enzymes and drug transporters in humans as well as the early prediction of metabolism-associated drug interactions. Dr. Wang joined the School of Pharmacy in 2006 after receiving his doctorate in toxicology from Fudan University in Shanghai, China, and working at the University of North Carolina’s Eshelman School of Pharmacy. As chair of Experimental and Translational Therapeutics, he leads a program that aims to optimize drug metabolism, pharmacokinetics, and therapeutic efficacy of drugs through a combined strategy that integrates experimental and translational therapeutic approaches.

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ROGER J. WARD, EDD, JD, MSL, MPA (GS)
Provost and Executive Vice President, UMB
Dean, Graduate School

Dr. Ward was named UMB provost and executive vice president in October 2021 after serving in interim roles since January 2020, when he also was named dean of the Graduate School. These are the latest in a series of upward moves for Dr. Ward at UMB. He was promoted to senior vice president for operations and institutional effectiveness in January 2018, serving as UMB’s chief operating officer and directing departments and initiatives that promote institutional effectiveness and assure accountability including human resources, strategic planning, enterprise risk management, and institutional accreditation. In addition, he oversaw areas that promote University compliance and transparency, including the offices of research integrity, conflict of interest, human research protections, and education and equal access. On the academic side, Dr. Ward is dean of the Graduate School after serving as vice dean, where he was responsible for building graduate programs that are self-sustaining and responsive to evolving needs of the health and human services workforce in the state. Dr. Ward joined UMB in March 2009 as the associate vice president for academic and student affairs. He served as chief academic officer and interim dean of the Graduate School during the 2011-2012 academic year. In June 2012, Dr. Ward was named UMB’s first chief accountability officer and was promoted to vice president for academic affairs in October 2013 and to vice president of operations and planning in June 2015. He served as interim chief human resources officer from October 2014 to November 2015. Before joining UMB, Dr. Ward served as assistant vice president for student affairs at the New School in New York and also held senior administrative positions in the City University of New York system. Dr. Ward holds an associate’s degree in data processing/computer programming from Kingsborough Community College, a bachelor’s degree in government and a master’s in public administration, both from John Jay College of Criminal Justice. He holds a Doctor of Law degree from New York Law School and a Master of Science in Law (cybersecurity) from Maryland Carey Law. Dr. Ward also holds a Doctor of Education degree in higher education management from the University
of Pennsylvania. He has been teaching on-site, online, and in a blended environment since 2004 and has taught graduate courses in ethics, the history of higher education, leadership and organizational behavior, legal issues in higher education policy, and cybersecurity policy, among others.

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LINDA WASTILA, PHD, MSPH (SOP)
Professor and Parke-Davis Chair of Geriatric Pharmacotherapy, Department of Pharmaceutical Health Services Research
Director of Research, Peter Lamy Center on Drug Therapy and Aging

Dr. Wastila has conducted research focusing on prescription drug policy for more than 15 years. She received her undergraduate pharmacy degree from the University of North Carolina, where she also completed a Master of Science in Public Health. In 1993, she received her doctorate in health policy from Brandeis University, where she later served as a senior scientist at the Schneider Institute for Health Policy. There, she also was co-director of a doctoral training program sponsored by the National Institute on Alcohol Abuse and Alcoholism. As a policy and health services researcher, she examines issues such as prescription drug abuse and diversion, psychopharmacological medication use and outcomes in older adults, the intended and unintended impacts of policy on access and health outcomes, and comparative safety and effectiveness of medication regimens in vulnerable populations. UMB’s 2016 Researcher of the Year, Dr. Wastila has a portfolio that includes pharmacologic treatment of mental illness in long-term care beneficiaries and substance use epidemiology. She has received grants and contracts from the National Institute on Drug Abuse, the Agency for Healthcare Research and Quality, the Centers for Medicare and Medicaid Services, the Substance Abuse and Mental Health Services Administration, the Research Retirement Foundation, and various states and foundations.

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ERIC WEINTRAUB, MD (SOM)
Associate Professor, Department of Psychiatry
Division Head, Alcohol and Drug Abuse

Dr. Weintraub is board-certified in general psychiatry and has added qualifications in addiction psychiatry. In addition, he is the medical director of the University of Maryland Medical Center's Psychiatric Emergency Services. He is an expert on the treatment of opioid dependence with medication-assisted treatment (MAT) and has helped develop innovative programs in providing MAT to underserved rural areas via telemedicine and to opioid-dependent patients in the Emergency Department.

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MARLEY WEISS, JD (SOL)
Professor

Professor Weiss is an expert in all facets of labor and employment law, including comparative and international aspects of the field, and has published on a wide range of related topics. In 1984, she left the position of associate general counsel of the United Auto Workers to join the Maryland Carey Law faculty. Professor Weiss previously was a visiting professor at the Eötvös Loránd University Faculty of Law in Budapest, Hungary, and returned there as a Visiting Fulbright Lecturer in 1997. She served as chair of the National Advisory Committee to the U.S. National Administrative Office for the NAFTA Labor Side Agreement from 1994-2001 and as secretary of the American Bar Association Section of Labor and Employment Law in 1997-98.

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CHRISTOPHER WELSH, MD (SOM)
Associate Professor, Department of Psychiatry
Medical Director, Substance Abuse Consultation Service and Comprehensive Recovery Program, UMMC

Dr. Welsh specializes in the areas of addiction and dual diagnosis, working directly in inpatient and outpatient settings, and is the medical director of the Maryland Center of Excellence on Problem Gambling. He also studies the medical complications of addiction and is the medical director of the UMMC Substance Abuse Consultation Service, which is responsible for substance abuse assessment and intervention with patients throughout the University of Maryland Medical Center (UMMC).

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OWEN R. WHITE, PHD (SOM)
Professor, Department of Epidemiology and Public Health
Director of Bioinformatics
Associate Director, Institute for Genome Sciences

Dr. White is an internationally recognized expert in bioinformatics with more than 15 years of experience. His primary role is to enable the researchers at the School of Medicine to perform state-of-the-art genomic and transcriptomic analysis. He leads a group of 25 scientists and engineers at the Institute for Genome Sciences who are collectively responsible for the development of nearly all production-level annotation pipelines, database systems, and tools for automated and manual annotation of genomes and metagenomic data sets. Dr. White also participates in National Institutes of Health research projects that involve large-scale data management and analysis across multiple institutions.

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ANGELA WILKS, PHD (SOP)
Isaac E. Emerson Professor
Chair, Chemical and Biological Discovery Program, Department of Pharmaceutical Sciences
Co-Director, Metallotherapeutics Research Center

Dr. Wilks' research interests focus on mechanisms by which bacterial pathogens acquire and utilize heme as an iron source. Her research spans disciplines employing bacterial genetics and metabolomics alongside biochemical and biophysical approaches to understand the molecular mechanisms by which pathogenic bacteria acquire heme. These studies have led to the structural characterization of several proteins involved in heme uptake and degradation and to the rational design of potential therapeutic agents that reduce virulence through global effects on iron metabolism. Dr. Wilks received her bachelor’s degree in biochemistry from the University of Lancaster, England. She received her PhD in biochemistry from the University of Leeds, where she worked on the mechanism of heme degradation with Professor Stanley B. Brown. After a postdoctoral fellowship with Professor Paul Ortiz de Montellano, she took an appointment as a research assistant professor at the University of California, San Francisco. In 1998, she joined the faculty at the School of Pharmacy.

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GRAEME F. WOODWORTH, MD, FAANS, FACS (SOM)
Professor and Chair, Department of Neurosurgery
Director, Brain Tumor Treatment and Research Center

As director of the Brain Tumor Treatment and Research Center, Dr. Woodworth provides leadership and surgical care within a multidisciplinary team of radiologists, medical oncologists, radiation oncologists, neurosurgeons, and pathologists treating brain cancer patients. In this clinical role, he facilitates the cross-disciplinary group of engineers, cancer biologists, and clinician-scientists within the Translational Therapeutics Research Group to address key challenges in counteracting the pathobiology and improving the treatment of brain cancer. Much of this work is centered on the concept of using the operating room as a portal for discovery and opportunity to improve the understanding of and therapeutic delivery for brain cancer.

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BRUCE YU, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Director, Bio- and Nano-Technology Center

In his independent research career at the University of Utah and the School of Pharmacy, Dr. Yu has worked on developing magnetic resonance imaging (MRI) agents and on biomaterials engineering. In the imaging area, the focus was to synthesize dendrimer imaging agents for multicolor F-19 MRI and advanced MRI technology to evaluate the mechanical properties of soft materials and biological tissues. In biomaterials engineering, he has explored the link between molecular chirality and material mechanical properties, exploiting chirality to create biomaterials with novel mechanical properties for cell growth and differentiation. Current research in Dr. Yu’s lab involves regulatory science for biologics and nano-drugs, particularly nondestructive analytical technologies that are being developed for pharmaceutical solutions of drug substances and drug products and for product inspection, using a variety of physicochemical techniques. Dr. Yu received the Kimmel Scholar Award in 2004 for his work on imaging agent development and the Presidential Early Career Award for Scientists for Engineers in 2005 for his work on biomaterials. He holds several issued patents for dendrimer synthesis, biomaterials engineering, and noninvasive analytical technologies. Dr. Yu received a bachelor’s degree in biochemistry from Peking University and a PhD in biophysics from Johns Hopkins University. His postdoctoral training was in nuclear magnetic resonance spectroscopy at the State University of New York-Buffalo and in peptide chemistry at the University of Alberta.

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UMB
DIVERSITY, EQUITY, AND INCLUSION

The following faculty and staff members are among the leaders of UMB’s commitment to diversity, equity, and inclusion:

**PATTY ALVAREZ, PHD, MS (SHE/HER)**
*Assistant Vice President of Student Affairs, UMB*

Dr. Alvarez has more than 21 years of professional experience working in student affairs and academic affairs at several universities. She uses an inclusive excellence lens and approach to her work. Dr. Alvarez has led a multicultural affairs office and strategic planning efforts designed to positively influence the campus climate for diversity, supported the academic success of racially and ethnically underrepresented students, and developed intercultural education experiences. She taught intergroup dialogue and community-based research courses for undergraduate students and graduate courses for students enrolled in higher education and college student personnel programs. Dr. Alvarez is the chair of UMB’s Diversity Advisory Council, which plays a vital role in implementing the goals identified in the University’s strategic plan to achieve diversity, equity, and inclusion. She earned a PhD in college student personnel from the University of Maryland, College Park. Dr. Alvarez’s dissertation used grounded theory to better understand the experiences of Latina first-generation college students. She has a master’s degree in higher education and student affairs and a bachelor’s degree in criminal justice with minors in sociology and Spanish; both degrees were earned at Indiana University.

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**JEFFREY R. ASH, EDD, MS (HE/HIS)**
*Associate Dean, Diversity and Inclusion, and Assistant Professor, School of Nursing*

Dr. Ash serves as the primary advisor to the dean and senior leadership on all diversity and inclusion issues within the School of Nursing (SON). Under his leadership, SON has been recognized with *INSIGHT Into Diversity* magazine’s highly acclaimed Healthcare Professions Higher Education Excellence in Diversity (HEED) Award for four consecutive years (2018-21). In addition, Dr. Ash serves on the Board of Trustees at The Green House Project and Broadmead Senior Living. Additionally, he served on the Board of Trustees at Mary Baldwin University from 2014-20. Additional experience includes serving as a diversity leadership mentor in the Fellows Mentoring Program of the National Association of Diversity Officers in Higher Education and as co-chair of the Diversity Leadership
Consortium of Diversity Deans of the Big Ten Academic Alliance. Before coming to UMB, Dr. Ash worked at the University of Maryland, Baltimore County as a clinical associate professor in the Erickson School of Aging Studies. His professional experience includes 11 years at the University of Maryland, College Park, where he served as a benefits retirement counselor and organizational development and training counselor. Dr. Ash’s instructional expertise has been in teaching leadership development, race and gender relationships, and dialogue facilitation in diversity and inclusion. Dr. Ash is writing a book, “9 School House Lane,” a tribute to his grandmother’s underscoring the importance of older adults in the family in establishing hope and faith in children at an early age. He co-authored “The Changing Face of Academic Nursing: Nurturing Diversity, Inclusivity, and Equity,” which was published in the Journal of Professional Nursing in 2018, and wrote a chapter titled “Dimensions of Diversity” in the 2013 book “Models and Pathways for Person-Centered Elder Care.” He also is an experienced presenter, presenting at conferences, leading plenary sessions, and giving keynote speeches. Dr. Ash received a bachelor’s degree in economics from Towson University, a master’s in human resources management from University of Maryland University College, and a doctoral degree in urban educational leadership from Morgan State University.

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**GREGORY BRIGHTBILL, MED, MBA (HE/HIS)**

*Associate Director, Student Leadership and Involvement, UMB*

Gregory Brightbill works in UMB’s Intercultural Leadership and Engagement Center. In addition to his knowledge related to business practices, leadership education, and student affairs, he has become one of the University’s leading content experts as it relates to supporting gender and sexual minorities such as LGBT individuals. Brightbill also has experience in implementing LGBT+ inclusive practices on college campuses and supporting underserved student populations. Outside of UMB, he works as an LGBT+ education consultant for his company, Bright Baltimore LLC, and is a board member of the Maryland Chapter of GLSEN, a nonprofit advocacy and education group for LGBT K-12 students. Mr. Brightbill holds a bachelor’s degree in psychology from Frostburg State University, a Master of Education degree in college student personnel administration from James Madison University, and a Master of Business Administration degree from University of Maryland University College. He is pursuing a doctorate in educational leadership in higher education administration from Frostburg State.

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NEIJMA CELESTINE-DONNOR, MSW, LCSW-C (SHE/HER)
Assistant Dean and Director, Office of Diversity, Equity, and Inclusion, and Faculty Clinical Instructor, School of Social Work

Neijma Celestine-Donnor leads the School of Social Work’s (SSW) diversity and anti-oppression efforts and is helping to guide the achievement of a new standard for inclusive excellence. As a member of the dean’s leadership team, she has a strategic position responsible for promoting and enabling an inclusive environment for faculty, students, and staff while championing organizational change. Celestine-Donnor came to SSW in August 2020 from the University of Maryland, College Park, where she served as a director in the school’s Division of Diversity and Inclusion. She is a graduate of SSW and is pursuing a law degree.

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ROSEMARY FERREIRA, MED (SHE/HER)
Associate Director, Intercultural Center, UMB

Rosemary Ferreira works to develop programs that support historically marginalized students and create opportunities for UMB students, staff, and faculty to engage in anti-racism and anti-oppression educational trainings and dialogue. Driven by her experiences as a first-generation, low-income student of color, Ferreira has served in higher education institutions in Maryland as well as educational nonprofit organizations in her hometown of New York City and her parents’ homeland of the Dominican Republic. Her areas of expertise include working with first-generation and/or low-income students and students of color, facilitating dialogue on identity and social issues, and examining the role of higher education institutions in American cities. Ferreira earned her MEd degree in student affairs from the University of Maryland, College Park and her bachelor’s degree in environmental and urban studies from Bard College.

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SHANI FLEMING, MSHS, MPH, PA-C (SHE/HER)

Professor Fleming has devoted her career to promoting social justice, equity, diversity, and inclusion within the health care community. She serves as an associate professor in the Graduate School’s Physician Assistant (PA) Program and Intercultural Leadership Certificate Program. She also is an executive team member of the Physician Assistant Leadership and Learning Academy. She has significant clinical, academic, and leadership experience as a PA, practicing primarily in underserved communities and advocating for and coordinating curricula addressing social determinants of health, LGBTQ+ care, and cultural humility within PA education programs. She received her bachelor’s degree from the University of Maryland Eastern Shore and earned master’s degrees in public health and health science from George Washington University. She is a diversity and inclusion leader within national and state organizations, reaching thousands of underrepresented racial and ethnic high school and college students and advocating for increased representation in the health professional workforce. She encourages, leads, and fights for inclusive and just environments for faculty, staff, and students. She is pursuing her PhD in language, literacy, and culture from the University of Maryland, Baltimore County, completing a dissertation examining the impact of advancing academic credentials on health professional workforce diversity.

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DIANE FORBES BERTHOUD, PHD, MA (SHE/HER)

Dr. Forbes Berthoud reports directly to UMB’s president and works to steward the University’s commitment to equity, diversity, and inclusion (EDI), catalyze the institutional change necessary for deepening and strengthening that commitment, and design and operationalize a transparent accountability framework to measure and evaluate the impact and effectiveness of UMB’s EDI initiatives at every level of the institution. She also works closely with the provost and other senior University officials on the development of a strategic action plan that will leverage current efforts and create a sustainable infrastructure that affects every aspect and every level of UMB. Before joining UMB, Dr. Forbes Berthoud held several key positions at the University of California, San Diego from 2011 to 2021, most recently as associate vice chancellor for EDI. Dr. Forbes Berthoud earned PhD and MA degrees in organizational communication and social psychology from Howard University and a bachelor’s degree in communication and a certificate in Spanish translation and interpretation from Barry University.

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COURTNEY J. JONES CARNEY, DPA, MBA (SHE/HER)

Executive Director, Intercultural Leadership and Engagement, and Director, Intercultural Center, UMB
Instructor and Program Director, Postbaccalaureate Certificate and Master of Science in Diversity, Equity, and Inclusion Leadership, Graduate School

Dr. Jones Carney focuses many of her efforts on advancing student success and the development of cultural competencies to inform professional practice. Additionally, she challenges students, faculty, and staff to critically examine themselves and the ideals that they hold about others while understanding the role of oppression in the formation of policy, practices, and procedures in institutions and systems. She continues to hold a leadership role in administering, analyzing, and sharing the findings of the UMB Student Climate for Diversity Survey and serves as an ex-officio member of UMB’s Diversity Advisory Council. Dr. Jones Carney’s research areas of interest include the impact of microaggressions, intercultural development, and the relationship between acts of discrimination on campus climate and employee engagement. She is an alumna of Morgan State University and completed her doctoral studies in public administration at the University of Baltimore. Her dissertation examined the relationship between exposure to racial and ethnic microaggressions and employee engagement.

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RUSSELL MCCLAIN, JD (HE/HIS)

Professor, Associate Dean for Diversity and Inclusion, and Director, Academic Achievement Program, Francis King Carey School of Law

Professor McClain’s research focuses on the effects of implicit bias and stereotype threat. He is regarded nationally as an expert on these topics, having conducted workshops across the country for lawyers, law schools, judges, educational institutions, businesses, government organizations, health care institutions, and others. UMB’s 2020 Educator of the Year, he has published two articles and the book “The Guide to Belonging in Law School.” He earned his bachelor’s degree from Howard University and his law degree from Maryland Carey Law.

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NICOLE K. PALMORE, MSW (SHE/HER)
Director of Diversity, Inclusion, and Intercultural Learning, School of Nursing

Nicole Palmore is deeply committed to working to create just, equitable, diverse, and inclusive organizations. Before joining the School of Nursing (SON), she worked for four years as a senior organization and employee development consultant with Human Resources Services at UMB. Palmore joined UMB in 2016 after working in diversity and inclusion and learning and development for more than 15 years. She holds a bachelor’s degree in psychology from Georgetown University and a master’s in social work from the University of Maryland School of Social Work. She earned a master’s certificate in instructional design from the University of Maryland, Baltimore County, and, most recently, completed a master’s certificate in intercultural leadership from UMB. She is currently pursuing a doctoral degree in higher education leadership from Frostburg State University. She is a member of UMB’s Diversity Advisory Council and SON’s Staff Council and an ex-officio member of SON’s Diversity Council. She also is an advisory board member for DNPs of Color, a nonprofit that works to increase diversity in doctoral studies, clinical practice, and leadership for nurses. Palmore’s areas of expertise include assessing organizational culture and designing and implementing change initiatives as well as designing and facilitating classes and conversations related to justice, diversity, equity, and inclusion.

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SANDRA M. QUEZADA, MD, MS (SHE/HER)
Associate Professor, Associate Dean for Medical School Admissions, and Assistant Dean for Faculty Diversity and Inclusion, School of Medicine

Dr. Quezada is passionate about diversity, equity, and inclusion and brings this lens to her work in academic medicine at the School of Medicine (SOM). She has worked locally, regionally, and nationally to amplify physician workforce diversity and impact the climate in which future and current physicians train and practice. As co-chair of SOM’s Diversity Advisory Council, Dr. Quezada spearheaded the development of an equitable faculty search policy and established an unconscious bias training initiative for the school’s faculty and leadership. She also advocated for and implemented educational sessions on unconscious bias as a core element of the medical education curriculum, along with cultural awareness and sensitivity and LGBTQ health education. She is faculty advisor to SOM’s Student Diversity Council and is the Northeast regional representative on the Committee on Student Diversity Affairs for the Association of American Medical Colleges. She serves on UMB’s Diversity Advisory Council and the University
System of Maryland’s Inclusion and Diversity Council. She also serves as course director of SOM’s Medical Spanish elective and is part of a nationwide Medical Spanish Taskforce aiming to establish a framework for medical Spanish education standards. Dr. Quezada is a practicing gastroenterologist, serves as chair of the Diversity Committee of the American Gastroenterological Association, and is a member of the Diversity and Inclusion Task Force for the Crohn’s & Colitis Foundation’s National Scientific Advisory Committee.

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KRISTIN REAVIS, MD, MBS (SHE/HER)
Clinical Assistant Professor; Director, Family Medicine Residency Program; and Director of Student Diversity and Inclusion, School of Medicine

Dr. Reavis joined the School of Medicine (SOM) faculty in 2013 and practices a full scope of family medicine. She is the faculty advisor for SOM’s chapter of the Student National Medical Association, co-faculty advisor for the Student Diversity Council, and has been an advisor for SOM’s House Advisory System since its inception in 2016. Additionally, she serves on the Diversity Advisory Councils at UMB and SOM. As a leader for equity, diversity, and inclusion (EDI) efforts at SOM, she is working to establish the Center for Equity, Diversity, and Inclusion in an effort to centralize DEI efforts at the school. Dr. Reavis is an inaugural member of the Society of Teachers of Family Medicine’s Anti-Racism Task Force and is working to integrate anti-racism policies into the strategic plan of the leading organization that supports family medicine educators, thus affecting the future of family medicine. Dr. Reavis serves as the director of maternal child health and is a family medicine obstetrics provider for the department. Her academic and clinical interests include women’s health and social justice/health equity. She is a member of the Alpha Omega Alpha Honor Medical Society and was the 2019 recipient of the Dean’s Alumni Award for Diversity and Inclusion. Dr. Reavis completed her undergraduate education at Morgan State University before earning her Master of Biological Sciences degree at Drexel University. She earned her medical degree from SOM and completed her residency and fellowship training in the Department of Family Medicine at the University of North Carolina-Chapel Hill.

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JULIA SCOTT (SHE/HER)
Diversity, Equity, and Inclusion Coordinator, School of Social Work

Julia Scott develops diversity and inclusion-focused education, programs, and events for the School of Social Work's faculty, staff, and students and the local community. She also works with Baltimore Racial Justice Action (BRJA), which collaborates with individuals and organizations to fight racism and other forms of institutional oppression. With BRJA, she serves as an Advisory Board member, primary trainer, and “13th of the Month” event co-coordinator. Her interest revolves around using anti-racist and anti-oppression frameworks to approach community building and leadership programming. Scott earned her bachelor's degree in English literature from Morgan State University.

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UMB RESEARCH CENTERS

INTERPROFESSIONAL

Center for Addiction Research, Education, and Service (CARES)
The mission of the Center for Addiction Research, Education, and Service (CARES) is to strengthen and advance UMB’s efforts to address the adverse impact of addiction on individuals, families, communities, and society. The center aims to advance addiction-related science and service through prevention, treatment, and initiatives in four core areas: workforce development and community-based training and technical assistance; development of innovative models and systems of care; translational faculty research and improved surveillance and prediction; and policy analysis development and education.

Center for Global Engagement (CGE)
In partnership with communities here and abroad, the Center for Global Engagement (CGE) addresses global challenges by developing experiential learning opportunities and interprofessional solutions with creative faculty scholarship, curricular innovation, and educational programs. CGE’s vision is a borderless world where communities collaborate toward better health for all. Global is local and local is global.

Center for Interprofessional Education (CIPE)
Launched in 2013, the Center for Interprofessional Education (CIPE) advances UMB’s vision for preparing its students to provide high-quality, affordable health care and human services within a team-based model. The center’s mission is to prepare health, law, and human services professionals to work collaboratively on interprofessional teams focused on improving the lives of people locally, nationally, and globally. CIPE is a national leader in providing interprofessional education that is grounded in best practices for educational innovation and assessment.

Center to Advance Chronic Pain Research (CACPR)
The Center to Advance Chronic Pain Research (CACPR) arose from a strong foundation built on decades of successful pain research at UMB. It also arose by recognizing that the complex problem of chronic pain requires a broad perspective. CACPR is a multidisciplinary center composed of nationally and internationally renowned clinical and preclinical translational scientists whose principal research focus is on the physiological, genetic, and psychosocial underpinnings of the development and persistence of debilitating chronic pain conditions. CACPR is a Universitywide entity under the leadership of co-directors from the School of Nursing (Susan Dorsey, PhD, RN, FAAN) and the School of Dentistry (Man-Kyo Chung, DMD, PhD). CACPR seeks to promote cutting-edge basic, translational, and clinical biomedical research that will advance our understanding and treatment of chronic pain. As a catalyst for this process, CACPR engages research teams and scientist-clinician collaborations to address this critical health care problem, which is a burden to patients, their families, and society. The faculty, staff, and student members of CACPR bring together a unique collection of skills to create an exciting research environment that is primed to make great strides in the field of pain research.

Rebuild, Overcome, and Rise Center (ROAR)
The Rebuild, Overcome, and Rise (ROAR) Center at UMB was launched in 2019 with funding provided by the Governor’s Office of Crime Control and Prevention. Administered by the Francis King Carey School of Law, the ROAR Center engages with individuals and communities in Baltimore City by providing holistic, client-driven services to the survivors of crime and influencing efforts to reform systemic responses to
crime. The ROAR Center is a “one-stop shop” in the city where victims of crime can access wraparound services that include legal, social work, nurse care management, and therapy. As a collaboration of the UMB professional schools — law, nursing, social work, dentistry, pharmacy, and medicine — and community-based organizations, the center capitalizes on the vast expertise and deeply rooted community connections of the University to serve the diverse needs of its clients.

Support, Advocacy, Freedom, and Empowerment (SAFE) Center for Human Trafficking Survivors

The SAFE Center for Human Trafficking Survivors is an initiative of the University of Maryland Strategic Partnership: MPowering the State, the structured collaboration between UMB and the University of Maryland, College Park. This program provides direct services to survivors of sex and labor trafficking. Women, men, girls, boys, transgender individuals, foreign nationals, and U.S. citizens who have been exploited by trafficking are eligible for its services. Case management services are provided in English, Korean, and Spanish. Services include but are not limited to safety planning, strengths and needs assessments, connection to primary medical care, and accompaniment to court appearances, public benefits appointments, financial assistance programs, and employment services. In addition, on-site bilingual legal immigration services are provided through its immigration attorney. Partners at UMB’s School of Nursing provide basic, primary health care services for the center’s clients through the Governor’s Wellmobile Program. The center provides bilingual clinical mental health counseling on-site, including cognitive behavioral therapy and teaching healthy coping skills. It is partnering with university programs and workforce experts to provide clients with English language education, job readiness, financial literacy, and job placement services on-site.

FRANCIS KING CAREY SCHOOL OF LAW

Center for Dispute Resolution (C-DRUM)

The Center for Dispute Resolution at the University of Maryland Francis King Carey School of Law (C-DRUM) promotes the power of conflict resolution to build a more just society. Through professional education, research, and direct services, C-DRUM provides individuals and communities with the knowledge and skills to address conflict strategically and productively. Through the education of law students and the provision of conflict resolution services throughout the state of Maryland, C-DRUM furthers the law school’s goal of maintaining high academic standards while providing service to the surrounding community. Established in loving memory of Ronna K. Jablow, a Mediation Fellowship is available to Maryland Carey Law students to work with local community mediation centers to advance the cause of alternative dispute resolution. Whether you are a human resources representative, state legislator, business owner, teacher, student, or parent, conflict resolution training can improve the way you communicate with others and effectively deal with conflict professionally and personally. C-DRUM offers a wide variety of training and can tailor the training to fit the unique needs or your organization or group. Types of training offered include mediation, facilitation, effective communication skills, dealing with difficult people, and peer mediation.

Center for Health and Homeland Security (CHHS)

The University of Maryland Center for Health and Homeland Security (CHHS) works side-by-side with the nation’s top emergency responders in the public and private sectors to develop plans, policies, and strategies that ensure the safety of citizens in the event of natural or man-made catastrophes. To fulfill that mission, CHHS focuses on cybersecurity law, general emergency preparedness planning, continuity of operations planning and training, preparation of special needs populations during emergencies, mass evacuation and sheltering planning, emergency communication systems, hospital coordination, tabletop and field emergency response exercises, the provision of adequate energy supplies during emergencies, and grant-writing assistance for governmental institutions seeking funding for emergency planning efforts.
Chacón Center for Immigrant Justice
The Chacón Center for Immigrant Justice is dedicated to creating a future where all Maryland families and residents are stable and secure regardless of immigration status, race, or economics, and where skin color and place of birth do not limit opportunities to build a good life and participate fully in our communities. The center’s work focuses on direct representation and impact litigation on issues of asylum and the intersection of criminal and immigration law with special attention to the legally, ethically, and psychologically complex situations that straddle these disciplines. A key component of the center’s work is training the next generation of immigration lawyers to have the unique skills and understanding of the immigration system to help clients at all levels of the court system. Through Maryland Carey Law’s Immigration Clinic and new Federal Appellate Clinic, students get hands-on experience working directly with clients to achieve positive outcomes and advocating for law reform and policies that will fundamentally improve the immigration system.

Legal Resource Center (LRC) for Public Health Policy
The Legal Resource Center (LRC) for Public Health Policy provides pro bono technical legal assistance on a wide range of public health issues, including tobacco regulation, injury prevention, and the reduction of obesity and hypertension. Established in 2001, LRC offers legal guidance to state and local governments, legislators, nongovernmental organizations, health advocacy groups, and Maryland residents. LRC is a grant-funded legal center that receives support from the federal Centers for Disease Control and Prevention and the Maryland Department of Health. LRC also works closely with state agencies such as the Office of the Comptroller and the Office of the Attorney General as well as members of the Maryland General Assembly.

Maryland Intellectual Property Legal Resource Center (MIPLRC)
The Maryland Intellectual Property Legal Resource Center (MIPLRC) was established in 2002 to educate law students, entrepreneurs, and the community about the legal aspects of intellectual property. As part of its mission, MIPLRC also provides free legal services on intellectual property and related matters to emerging technology companies and explores relevant legal, ethical, and policy issues in the high-technology and intellectual property areas. The center delivers legal services primarily through law students who practice under the supervision of faculty members. The center is therefore a vehicle for training law students to serve the needs of early-stage high-technology companies. MIPLRC provides services from Maryland Carey Law and the University of Maryland, College Park. In addition to offering academic courses for students at the law school, the center presents workshops and lectures on intellectual property issues of relevance to high-technology and biotechnology startup companies. The center was designed to have three distinct components: an academic program, a clinical program, and a public policy and ethics program.

SCHOOL OF MEDICINE

Center for Biomedical Engineering and Technology (BioMET)
The Center for Biomedical Engineering and Technology (BioMET) is a collaborative effort between the UMB School of Medicine and the Fischell Department of Bioengineering at the A. James Clark School of Engineering at the University of Maryland, College Park. BioMET brings together basic biomedical researchers with engineers to develop new strategies and devices to enhance our ability to treat diseases. BioMET faculty address fundamental questions in bioengineering as well as optical biology, sensing, neurobiology, genetics, cardiovascular diseases, cellular signaling, and protein structure. Scientific efforts center on biophotonics, molecular controls, and cell signaling with current research foci that includes cellular signal transduction, genes and proteins contributing to Alzheimer’s disease, cellular and molecular defects that lead to heart failure and arrhythmia, calcium signaling in nerve and muscle, and time-release drugs for stroke prevention. Other major areas of research involve imaging and fluorescence spectroscopy,
development of novel contrast media for magnetic resonance imaging, and creation of a new generation of biomedical devices that detect real-time changes in medically important biochemicals.

**Center for Biomolecular Therapeutics (CBT)**
The Center for Biomolecular Therapeutics (CBT) was established as a partnership between UMB and the University of Maryland, College Park (UMCP). Located within the Institute for Bioscience and Biotechnology Research (IBBR), a three-building complex of research laboratories at UMCP and the Universities at Shady Grove in Montgomery County, Md., CBT is composed of faculty from UMB (including the schools of medicine and pharmacy); UMCP; the University of Maryland, Baltimore County; IBBR; and several other schools within the University System of Maryland (USM). CBT director David J. Weber, PhD, also serves as interim co-director of IBBR. CBT’s mission is to facilitate the identification and development of diagnostics and therapeutics. To accomplish this goal, CBT collaborates with research and clinical faculty across all USM institutions to identify important biological targets; develops a parallel educational process to raise the level of expertise across USM concerning the discovery-to-commercialization “pipeline,” including regulatory and business expertise, and creation of an active visiting faculty scientist and postdoctoral fellow program; interacts with the biotechnology and pharmaceutical industries in coordination with our Offices of Research and Development to help maintain CBT’s focus on the most biomedically and commercially important targets, diagnostics, and therapeutics; and manages state-of-the-art scientific discipline-based programs necessary for the discovery and regulation of disease targets.

**Center for Blood Oxygen Transport & Hemostasis (CBOTH)**
Oxygen (O2) transport and hemostasis are central to human adaptation to stress/injury and to disease pathobiology. The interdisciplinary Center for Blood Oxygen Transport & Hemostasis (CBOTH) addresses fundamental, challenging questions related to blood O2 transport and hemostasis from a systems perspective, with attention to human biology, physiology, and therapeutics. Innovative study of O2 transport, hemostasis, and key interacting biologic systems crosses traditional disciplines; moreover, efficient therapeutic development bridges typical stages of pharmaceutical and bioengineering advancement. CBOTH surmounts this challenge by integrating effort from leading investigators across disciplines and engagement across the translational pipeline. Through these interdisciplinary efforts, CBOTH advances the development of an artificial blood product for use in trauma settings without easy access to donated blood for transfusions such as battlefields or rural areas. CBOTH includes a team of physicians, biochemists, and engineers who are working to answer fundamental, challenging questions related to blood function in the setting of critical illness.

**Center for Epigenetic Research in Child Health & Brain Development (CERCH)**
The Center for Epigenetic Research in Child Health & Brain Development (CERCH) facilitates groundbreaking research into the origins of chronic disease and neuropsychiatric disorders, highlighting the role of parental health and early-life experience in shaping child development. This cross-disciplinary venture at the School of Medicine is supported by the Departments of Pharmacology, Pediatrics, Psychiatry, and Obstetrics, and is directed by Tracy Bale, PhD, a leading expert on the epigenetics of neurodevelopment. Founded to encourage translational collaborations and guide basic scientific study, CERCH serves as a resource for administrative support, education, and scientific consultation for investigators and trainees. Our mission is to create the framework necessary for large institutional research grants that spur innovative research promoting child health interventions for at-risk populations in the Baltimore community.

**Center for Integrative Medicine (CIM)**
The Center for Integrative Medicine (CIM) was the first academic integrative medicine center in the United States. With a track record of over $50 million in government-funded grants, more than 800 peer-reviewed publications and abstracts, and collaborators in more than 100 countries, CIM continues to be a leading international center for research, patient care, education, and training in integrative medicine. Emphasizing
an approach to healing that values mind, body, and spirit, the center is committed to evaluating the scientific foundation of complementary medicine, educating health professionals and the public about integrative medicine, and integrating evidence-based complementary therapies into clinical care to help people achieve and maintain optimal health and well-being. Its research program is looking at a variety of impactful approaches to whole-person health. Current studies include interventions featuring nutrition, acupuncture, massage, community-based health promotion, practice-based research networks, and more. The center also coordinates the Cochrane Complementary Medicine Field, a National Institutes of Health-funded program that evaluates worldwide literature on complementary and alternative therapies.

Center for Research on Aging
The goal of the Center for Research on Aging is to enhance involvement and collaboration among faculty at UMB’s seven schools and expand the conduct of interdisciplinary research and research training in gerontology through collaborations among investigators in aging research at UMB; the University of Maryland, College Park; the University of Maryland, Baltimore County; Veterans Affairs; and the National Institute on Aging. The center works closely with UMB’s Geriatrics and Gerontology Education Research Program to advance the growth of research, educational, and clinical programs in aging at UMB. Since its inception in 1998, the total funding for the center has increased significantly from $2.7 million in 1999 to more than $60 million. The center was established under the leadership of Andrew Goldberg, MD, and Jay Magaziner, PhD, MSHyg. Dr. Magaziner assumed sole leadership of the center in 2015 when Dr. Goldberg retired. Dr. Magaziner has successfully expanded membership to more than 150 affiliates.

Center for Shock, Trauma, and Anesthesiology Research (STAR-ORC)
The Center for Shock, Trauma, and Anesthesiology Research organized research center (STAR-ORC) is a world-class multidisciplinary research and educational center focusing on critical care and organ support, resuscitation, surgical outcomes, patient safety, and injury prevention. Originally established by Congress as the Charles McCurdy “Mac” Mathias Jr. National Study Center for Trauma and Emergency Medical Systems, the STAR center was designated as an organized research center at the School of Medicine in 2007. It is the first research center in the nation dedicated exclusively to the study of trauma, its complications, and prevention. STAR-ORC serves as a research umbrella for the school’s Department of Anesthesiology and the Program in Trauma. Many of the center’s researchers are doctors who care for trauma patients at the R Adams Cowley Shock Trauma Center.

Center for Stem Cell Biology and Regenerative Medicine
The Center for Stem Cell Biology and Regenerative Medicine opened in 2009 with the recruitment of Curt Civin, MD, as its founding director. Dr. Civin is recognized as a pioneer in cancer research for developing a way to isolate blood stem cells from mature blood cells. The center’s mission is to discover new treatments and preventive approaches, based on stem cell technology, for important and currently intractable human maladies. The center is driven by an imperative to work quickly from bench science to the actual use of discoveries to transform clinical medicine. Stem cell research is transforming the future of medicine. Indeed, we all begin life as a stem cell, and it is through a highly complex series of events that those few stem cells, which are capable of self-renewal and differentiation, develop into all of the specialized cells found in our adult bodies. By studying these events, we gain rare insight into how the human body is made. Stem cell research also holds great potential for restructuring the way we practice medicine: One day, stem cells may be used to replace or repair damaged tissues and organs and dramatically alter how we treat diseases like cancer. The center provides a focal point of interaction, information, leadership, and facilitation of stem cell research and regenerative medicine applications at UMB, with links to Johns Hopkins, federal labs, and corporate researchers across Maryland. To fulfill its mission with specificity, the center has established four scientific working groups for focused research, educational, and clinical interactions. The center also is a founding member of the Maryland Stem Cell Consortium, which created a stem cell core facility to support and accelerate research in the field.
Center for Vaccine Development and Global Health (CVD)
The Center for Vaccine Development and Global Health’s (CVD) faculty and staff are experts in the field of global health and vaccinology, dedicated to improving global health by conducting innovative, world-leading research in Baltimore and around the world. The center’s key mission is to harness the power of vaccines to prevent disease and save lives in the most vulnerable populations. Its research, surveillance, and vaccine development focuses on four key areas: enteric diseases, malaria, influenza and respiratory diseases, and emerging pathogens. Since 1974, CVD researchers have worked domestically and internationally to develop, test, and deploy vaccines to aid the world’s underserved populations. CVD is an academic enterprise engaged in the full range of infectious disease intervention from basic laboratory research through vaccine development, preclinical and clinical evaluation, large-scale pre-licensure field studies, and post-licensure assessments. Training is a critical component of its work to ensure the foundation for the next generation of scientists and researchers committed to global health initiatives.

Center for Vascular and Inflammatory Diseases (CVID)
Formed in July 2005, the Center for Vascular and Inflammatory Diseases’ (CVID) mission is to promote research that advances knowledge of vascular and inflammatory diseases, interface with clinicians, and promote translation of the basic discoveries into novel therapeutic applications that ultimately will improve the health of patients. The long-term vision of CVID is to establish and maintain an internationally recognized center of excellence that integrates basic molecular and cell biology with applied and clinical sciences, specifically in the areas of biochemistry, vascular biology, immunology, hematopoiesis, and cardiology. Emphasis is placed on fundamental research and the interface between the laboratory and the clinic, with the flow of knowledge to advance new therapies for disease prevention and patient management.

Greenebaum Comprehensive Cancer Center
The University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center (UMGCCC) is a joint program of the School of Medicine and the University of Maryland Medical System. UMGCCC is a National Cancer Institute-designated comprehensive cancer center, a distinction that places it in the top tier of cancer centers throughout the country, and is ranked among the nation’s 20 top cancer centers by U.S. News & World Report. UMGCCC has substantial National Institutes of Health funding, is a strong participant in new drug development and trials, and is a member of several national cooperative groups. UMGCCC has a historic and sustained track record of clinical trials in human cancer. Cancer research funding at UMGCCC has grown dramatically since 2002 — from $19.4 million to $100 million — and continues to drive scientific discovery by its cancer experts. UMGCCC also is a leader in addressing cancer disparities, with research focused on improving access to care and treatment outcomes for minorities, who represent 65 percent of the patients in its clinical trials, compared to 16 percent nationally. The center has established strong translational research programs in experimental therapeutics, hormone responsive cancers, molecular biology and genetics, viral oncology, tumor immunology, and cancer prevention and control.

Institute for Genome Sciences (IGS)
Formed in 2007, the Institute for Genome Sciences (IGS) is part of the School of Medicine and located on the UMB campus. Members of the IGS team have helped revolutionize genomic discoveries in medicine, agriculture, environmental science, and biodefense. The institute is led by Claire Fraser, PhD, a pre-eminent genome scientist and microbiologist, and a team of investigators working on the cutting edge of genomic research. IGS team members have helped to revolutionize genomic discoveries in medicine, agriculture, environmental science, and biodefense. By applying genomic tools to clinical research, these investigators are creating new dynamics for understanding individual differences in our susceptibility to disease, understanding the role of our bodies’ microorganisms in health and disease, and exploring new personalized therapeutics. IGS investigators also are leading the development of the new field of microbial forensics. In the years since its formation, IGS has become a leading center for major biological initiatives including the
National Institutes of Health-funded Human Microbiome Project and the National Institute of Allergy and Infectious Diseases-sponsored Genomic Sequencing Center for Infectious Diseases.

**Institute of Human Virology (IHV)**

The Institute of Human Virology (IHV) was the first center in the United States to combine the disciplines of basic science, epidemiology, and clinical research in a concerted effort to speed the discovery of diagnostics and therapeutics for a wide variety of chronic and deadly viral and immune disorders — most notably HIV, the virus that causes AIDS. Formed in 1996 as a partnership between the state of Maryland, the city of Baltimore, the University System of Maryland, and the University of Maryland Medical System, IHV is an institute of the School of Medicine and is home to some of the most globally recognized and world-renowned experts in the field of human virology. IHV was co-founded by Robert Gallo, MD, director of IHV; William Blattner, MD, retired since 2016 and formerly associate director of IHV and director of IHV’s Division of Epidemiology and Prevention; and Robert Redfield, MD, who resigned in March 2018 to become director of the U.S. Centers for Disease Control and Prevention and formerly associate director of IHV and director of IHV’s Division of Clinical Care and Research. The institute is uniquely housed in a 250,000-square-foot building located in the center of Baltimore. IHV creates an environment where multidisciplinary research, education, and clinical programs work closely together to expedite the scientific understanding of HIV/AIDS pathogenesis and to develop therapeutic interventions to make AIDS and virally caused cancers manageable, if not curable, diseases. IHV’s more than 300 employees include more than 80 faculty whose research efforts are focused on the area of chronic human viral infection and disease. At present, more than 75 percent of the institute’s clinical and research effort is targeted at HIV infection, but also includes hepatitis C virus, human T cell leukemia viruses 1 and 2, human papillomavirus, herpes viruses, and cancer research.

**Maryland Psychiatric Research Center (MPRC)**

The Maryland Psychiatric Research Center (MPRC) is an internationally renowned research center that is dedicated to providing treatment to patients with schizophrenia and related disorders, educating professionals and consumers about schizophrenia, and conducting basic and translational research into the manifestations, causes, and treatment of schizophrenia. MPRC is a School of Medicine (SOM) organized research center that resides in the Department of Psychiatry and operates as a joint program between SOM and the Maryland Department of Health and Mental Hygiene. MPRC is the home of the National Institute of Mental Health-sponsored Silvio O. Conte Center for Translational Mental Health Research.

**Organ Transplant Center**

Advanced heart, lung, liver, kidney, and pancreatic failure account for the majority of deaths in developed nations worldwide. The University of Maryland Organ Transplant Center is one of the largest in the United States, performing over 400 transplants per year, including 300 kidneys, 80 livers, 20 pancreas, and 45 thoracic transplants. The clinical center receives more than 1,500 new patient referrals each year and follows more than 4,800 patients who have been transplanted during the last two decades, as well as over 1,400 patients on the organ transplant waiting lists. The center’s leaders in the various organ failure areas hold national and international prominence in their fields and have translated their discoveries into clinical management guidelines. The American Journal of Physiology-Heart and Circulation and The Journal of Heart and Lung Transplantation editorial offices reside at UMB. It is one of only two transplant centers serving over 5 million people in Maryland.

**R Adams Cowley Shock Trauma Center**

For more than 50 years, the R Adams Cowley Shock Trauma Center at the University of Maryland Medical Center has been a worldwide leader in trauma care. It is the only freestanding trauma center in the nation and the best-known trauma center in the world. It cares for over 8,000 critically injured patients annually with a 96 percent survival rate. It is named after R Adams Cowley, MD, a pioneer in open-heart surgery who conceived of the “Golden Hour,” which he defined as a severe trauma patient having 60 minutes or less
from time of injury to receive specialized treatment to improve chances of survival. Trauma faculty at the School of Medicine make up the principal medical staff at Shock Trauma. In addition, Shock Trauma serves as Maryland’s principal trauma and critical care teaching site for training physicians, nurses, pre-hospital providers, and other health professionals.

SCHOOL OF NURSING

Center for Biology and Behavior Across the Lifespan (BBAL)
The Center for Biology and Behavior Across the Lifespan (BBAL) promotes the conduct of interdisciplinary research related to the influence of biology and behavior on health and health outcomes across the lifespan. BBAL strives to serve as a center for shared thinking — within the School of Nursing and across UMB — aimed at the development of pioneering research ideas and interventions to promote and sustain health in all people, from infancy to old age. The center provides a core for pooling resources and sharing data across a wide variety of projects related to biological and behavioral outcomes. Its members will provide leadership within the School of Nursing to guide research related to biology and behavior across the lifespan.

Center for Health Equity and Outcomes Research (CHEOR)
The Center for Health Equity and Outcomes Research (CHEOR) improves health outcomes and eliminates health inequities by generating knowledge about the complex causal influences that affect health inequities in outcomes; identifying, intervening, and dismantling social and institutional systems and structures that impede health equity and outcomes, including addressing racism and social determinants of health; and creating social impact through changes in policy, clinical, and community practice. Its vision is to be a thriving research center for interprofessional scientists to collaborate and act to address complex health outcomes and health inequities through contextually rich research.

Maryland Nursing Workforce Center (MNWC)
The Maryland Nursing Workforce Center (MNWC) aims to improve the collection methods of workforce data and develop an accurate and comprehensive data set to plan for the state’s future workforce needs and to measure progress on the recommendations of the Institute of Medicine’s 2010 “Future of Nursing” report. MNWC enables the state to gather critical data in three key areas: faculty, pipeline, and practice. Faculty data focuses on statistics related to the number of faculty positions available, projected faculty needs, areas with the most faculty vacancies, and educational background of faculty members. Relevant data for the pipeline includes the number of nursing students in nursing programs, graduation rates, National Council Licensure Examination pass rates, projected need for new nurses, recruitment and retention initiatives, number of qualified nursing school candidates denied admission, student diversity, and clinical placements. The practice data details projected nursing demands, current workforce numbers, nursing shortage locations, and diversity within the workforce.

Omics Associated with Self-Management Interventions for Symptoms (OASIS) Center
The Omics Associated with Self-Management Interventions for Symptoms (OASIS) Center aims to combine rigorous phenotyping of preclinical models and patients in chronic pain with cutting-edge omics methods. This approach will advance the understanding of how individual differences influence resilience, motivation, and capability to engage in self-management interventions, acknowledging that other factors such as psychosocial, environmental, and sex differences may moderate or mediate these relationships. Omics also may be mechanistically linked to response to treatment.
Bio- and Nano-Technology Center
The Bio- and Nano-Technology Center develops and disseminates enabling technologies to translate biology and nanoscience into medicines. The translation of basic science research into medicines for patients requires enabling technologies. The center develops technologies to translate biology and nanoscience discoveries into biopharmaceuticals, nanomedicines, and biomaterials. Its technologies span different aspects of this translation process, including drug discovery, drug development, pharmaceutical manufacturing, product inspection, and product regulation. In addition to research, the center engages in education, service, and technology transfer.

Center for Innovative Pharmacy Solutions (CIPS)
The Center for Innovative Pharmacy Solutions (CIPS) is a national resource center and leader in the development of innovative patient care and business solutions to health problems. The center capitalizes on the expertise of pharmacists to improve the health of patients through the most appropriate use of medication therapy, maximize pharmacists’ contributions to the health care team, integrate evidence-based and sustainable pharmacist care and services into the standard of patient care in all health care settings, and shape state and federal policy to incorporate these models of care and payments for these models into the health care delivery system. CIPS captures the intellectual contributions and skills of pharmacists as they create pharmacist-directed patient care models that improve clinical outcomes, ensure medication adherence, and reduce health care costs. The center develops business models to parallel CIPS’ clinical services for a variety of health care settings, including ambulatory care, community pharmacy, hospitals, institutions, skilled nursing facilities, and assisted-living facilities. These models promote seamless integration of clinical expertise, scientific evidence, and sustainable business practices.

Center for Research on Complex Generics (CRCG)
The Center for Research on Complex Generics (CRCG) is funded with a $5 million grant from the Food and Drug Administration and was formed in collaboration with the University of Michigan College of Pharmacy. CRCG increases access to safe and effective generic drugs through collaborative research, training, and exchange. The center facilitates information sharing among graduate students, postdoctoral fellows, those working in industry, and faculty at both universities. A team of 24 investigators from Maryland and Michigan allows the center to offer broad research capabilities for formulation development and analytical characterization, computer (in-silico) models and animal testing, clinical trials and post-market assessment of patient data, and more.

Center for Translational Medicine (CTM)
The Center for Translational Medicine (CTM), part of the Department of Pharmacy Practice and Science, aims to eliminate the silos in which research into pharmaceutical innovations is conducted. Using its unique ability to employ advanced and innovative analyses to create intelligence from information, CTM analyzes and summarizes data from experiments and clinical trials using quantitative disease, drug, and trial models. These quantitative models, along with cutting-edge development techniques such as adaptive and enrichment trials, are integrated into tools that drug developers, regulatory agencies, and other research organizations can use to guide decisions pertaining to “go/no-go,” dosage, patient population, design, endpoint, analyses, and therapeutics choices. CTM also works with leaders in the field of translational medicine to further their education and develop their skills to foster innovation in medical product development.

Center of Excellence in Regulatory Science and Innovation (M-CERSI)
The University of Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI), funded by the Food and Drug Administration (FDA), focuses on modernizing and improving the ways drugs and medical devices are reviewed and evaluated. It is part of the University of Maryland Strategic Partnership: MPowering
the State collaboration between UMB and the University of Maryland, College Park. Researchers from both universities work with FDA staff to support the development of new tools, standards, and approaches to assess the safety, efficacy, quality, and performance of FDA-regulated products. M-CERSI focuses on four key FDA priorities: improving preclinical assessments of the safety and efficacy of new drugs and devices, ensuring readiness to evaluate innovative and emerging technologies, harnessing diverse data through information sciences to improve health outcomes, and addressing minority health and health disparities. The center also sponsors seminars and workshops and serves as an open public forum to promote regulatory science exchange, bringing together a network of experts from academia, industry, and the FDA.

Center on Drugs and Public Policy (CDPP)
Through its innovative research and educational programming, the Center on Drugs and Public Policy (CDPP) has been providing thought-provoking analysis and focused dialogue on drug use and public policy since 1987. CDPP examines the dynamic connections between theory and practice in the health care arena, assessing the impact on regulation, policy, industry practices, and health care treatment standards. It specializes in providing credible, unbiased, and pragmatic solutions for government agencies, the pharmaceutical industry, professional organizations, and private businesses. CDPP also offers educational programming as a forum to address current trends in health care policy and practice. As an educational group, the center bridges the gap among health care providers, payers, government and state officials, health plans, the pharmaceutical industry, and academics.

Computer-Aided Drug Design (CADD) Center
The Computer-Aided Drug Design (CADD) Center fosters collaborative research among biologists, biophysicists, structural biologists, and computational scientists at UMB and beyond. To facilitate the discovery of novel therapeutic agents, rational drug design methods in combination with structural biology offer great potential. Advances in the fields of biochemistry, molecular biology, and cell biology, facilitated by developments in genomics and proteomics, are producing a large number of novel biological targets that may be exploited for therapeutic intervention. CADD approaches can use the information in the 3D structures of biological target molecules to identify chemicals with a high potential for binding to the biological target molecules. The CADD Center provides collaborative opportunities for biologists to apply computer-aided drug design approaches to their research programs, initiating collaborations that lead to the establishment of research projects to discover novel chemical entities with the potential to be developed into novel therapeutic agents.

Maryland Poison Center (MPC)
The Maryland Poison Center (MPC), part of the Department of Pharmacy Practice and Science, provides emergency assessment of poison exposures, treatment recommendations, and education and prevention information to the majority of Maryland’s residents. Established in 1972, MPC is a regional poison center certified by the American Association of Poison Control Centers (AAPCC). It strives to decrease the cost and complexity of poisoning and overdose care while maintaining or improving patient outcomes. While saving a life is absolutely priceless, MPC saves money by managing more than 60 percent of all cases safely and inexpensively at home. For every dollar spent on poison center services, at least $13.69 is saved in overall health care costs. MPC is the first place to call in the event of a suspected poisoning. It is staffed 24 hours a day, seven days a week by licensed pharmacists and nurses — all with specialized training in clinical toxicology — who can provide callers with safe and effective emergency treatment advice as well as answer any nonurgent questions callers might have about poisons. Each specialist is certified by AAPCC. A board-certified medical toxicologist also is available for medical consultation 24 hours a day.
Mass Spectrometry Center
The Mass Spectrometry Center strives to accelerate drug discovery by providing investigators across UMB and beyond with access to cutting-edge technologies in mass spectrometry. In addition to providing researchers with access to state-of-the-art expertise, methodology, and instrumentation, the center offers researchers the opportunity to perform and access sophisticated experiments by working closely in a true collaborative effort among faculty, students, and staff. The expertise and experience of the center’s faculty and staff span a broad range of biomedical research, from basic biology and medicine to technology development and translational research. The Mass Spectrometry Center also is a partner in the Waters Corporation Centers of Innovation Program, which recognizes analytical scientists facilitating breakthroughs in health and life science research, food safety, environmental protection, sports medicine, and many other areas.

Metallotherapeutics Research Center
The Metallotherapeutics Research Center’s mission is to bring together researchers across disciplines who have a fundamental interest in metallotherapeutics, metals in biology, and the role of metals in the environment. The center strives to improve human health and welfare by identifying new metalloprotein drug targets, developing new metal therapeutics, and improving current metal-based medications. In bringing together researchers with backgrounds as far ranging as environmental chemistry, bioinorganic chemistry, biochemistry, and microbiology, the center aims to increase and expand understanding of the basic biology and chemistry of metal-based proteins and systems and their role in disease. By disrupting the discipline-centric approach of academic departments and centers, the Metallotherapeutics Research Center not only addresses a gap in the area of drug development and regulatory science, but also positions the School of Pharmacy as a nationally and internationally recognized leader in research on metals in medicine and the environment. The center also aims to provide expertise and education to existing companies, agencies, and organizations that work to develop or analyze metal-based drugs, while providing outreach and education to the community on the role of environmental metals in disease and toxicity.

Patient-Driven Values in Healthcare Evaluation (PAVE)
Patient-Driven Values in Healthcare Evaluation (PAVE) is a Center of Excellence dedicated to promoting value-based decision-making through a diverse multi-stakeholder collaboration and engaging patients from an extensive network of partners to build technical expertise in patient-centered outcomes research, education, and dissemination. The center is a collaboration among the School of Pharmacy, the National Health Council, patient community leaders, and payer and industry stakeholders that works to expand patient and other stakeholder engagement partnerships, educate the patient and research communities, support patient-driven value assessment research, and disseminate patient-driven value assessment principles and methods. PAVE is funded by a grant from the Pharmaceutical Research and Manufacturers of America Foundation and strives to bring together patients and other stakeholders, including value framework developers and users, to co-produce reliable and meaningful value assessments to support patient-centered health care decision-making.

Peter Lamy Center on Drug Therapy and Aging
The Peter Lamy Center on Drug Therapy and Aging is the focal point for research, education, and clinical initiatives in geriatric pharmacotherapy at the School of Pharmacy. It is named in honor of its founder, Peter P. Lamy, PhD, ScD (1925-1994), a renowned educator in the field of geriatric pharmacotherapy and the first holder of the school’s Parke-Davis Chair in Geriatric Pharmacotherapy. Since 1978, the Lamy Center has been committed to improving the lives of older adults. It is dedicated to improving drug therapy for older adults through its innovative research, education, and clinical initiatives that aim to optimize medication safety and use among this patient population.
Pharmaceutical Research Computing

Established in 1998, Pharmaceutical Research Computing is a dynamic research center at the School of Pharmacy that offers responsive and client-focused computer programming, data management, pharmaceutical classifications, and analytic support for health services research and evaluation. The center’s work is Health Insurance Portability and Accountability Act-compliant, compliant in the use and execution of data use agreements, and compliant with Institutional Review Board standards of practice.

SCHOOL OF SOCIAL WORK

The Institute for Innovation and Implementation

At the Institute for Innovation and Implementation, founded in 2005, School of Social Work faculty and staff have nationally recognized expertise and leadership in the fields of children’s behavioral health; systems of care; clinical practice; care management; Medicaid, managed care, and financing; child welfare, juvenile justice, and public child- and family-serving systems; parent, infant, and early childhood development and mental health; housing and homelessness; LGBTQ youth and young adults; evidence-based and promising practices; policy analysis and development; and developing and disseminating adult online learning content. The institute is committed to supporting children, youth, young adults, and families to be healthy and successful within their homes and communities. It provides training, technical assistance, facilitation, analysis, consulting, implementation support, and translational research and evaluation for and with federal, state, and local governments, community organizations, and providers. It utilizes peer-reviewed research, experience and expertise from the field, adult learning theory, and implementation science to support workforce development, systems design and financing initiatives, data-driven strategic planning, value-based and research-informed practice, quality improvement, and implementation readiness. The institute partners with governments, communities, and organizations to develop and implement actionable, effective, and sustainable designs, solutions, and interventions to support children, youth, young adults, and their families.

Ruth H. Young Center for Families and Children

The Ruth H. Young Center for Families and Children strives to promote the safety, permanence, stability, and well-being of children, youth, and families in their communities through research and evaluation, education and training, best-practice service programs, and organizational development.