# TABLE OF CONTENTS

**Letter from Interim President Jarrell** ................................................................. 8
**UMB Fast Facts** ........................................................................................................ 9
**Experts** .................................................................................................................... 13

## A. The Future of Health Care

### I. Cancer Treatment
- Greenebaum Cancer Center – Kevin Cullen .......................................................... 23
- Maryland Proton Treatment Center – William Regine ........................................... 66

### II. Education
- Academic interactions – Dean Roger Ward ......................................................... 80
- Academic programs – Mary Jo Bondy ................................................................. 16
- Accountability – Dean Roger Ward ...................................................................... 80
- Dentistry – Dean Mark Reynolds .......................................................................... 67
- Graduate education – Erin Golembewski ............................................................. 35
- Interprofessional – Heather Brennan Congdon ...................................................... 21
- Law – Dean Donald Tobin ..................................................................................... 76
- Medical cannabis education – Dean Natalie Eddington ...................................... 29
  - Leah Sera ............................................................................................................. 70
- Medical and life sciences education – James Kaper .............................................. 45
- Medicine, federal funding – Dean E. Albert Reece ............................................... 64
- Nursing – Louise Jenkins ...................................................................................... 44
- Nursing, interprofessional – Dean Jane Kirschling .............................................. 46
- Online learning, entrepreneurial education – Flavius Lilly ................................... 49
- Pharmacy – Dean Natalie Eddington ................................................................... 29
  - Cherokee Layson-Wolf ....................................................................................... 47
- Physician assistant programs – Cherilyn Hendrix ................................................. 41
- Social innovation in learning – Jenny Owens ....................................................... 59
- Social Work – Dean Richard Barth ...................................................................... 14
- Team-based education – Interim President Bruce Jarrell ..................................... 43

## III. Pain and Neuroscience

### Brain injury – Alan Faden .................................................................................... 31
- Chronic pain – Susan Dorsey ................................................................................ 26
- Pain modulation – Luana Colloca ......................................................................... 21
- Pain and neuroscience – Joel Greenspan .............................................................. 38
- Pain and palliative care – Mary Lynn McPherson ................................................. 54

## IV. Other Specialties

- Cardiovascular therapies – Brent Reed ................................................................. 65
TABLE OF CONTENTS

Genomics – Claire Fraser ................................................................. 32
Global vaccine development – Myron Levine ......................... 48
Health specialization in social work – Melissa Bellin ................ 14
HIV/AIDS – Robert Gallo ............................................................... 33
Infectious diseases – Kimberly Claeys ........................................... 20
– Emily Heil .................................................................................. 40
Medicine in underserved areas – Richard Colgan ...................... 20
Personalized medicine – Alan Shuldiner ...................................... 73
Population health, telemedicine – Magaly Rodriguez de Bittner .... 68
Translational/clinical research – Stephen Davis ............................ 24
Trauma – Thomas Scalea ............................................................... 70

B. Global Health

I. Community engagement
Valli Meeks .................................................................................... 54

II. Emergency medicine in developing countries
Brian Browne .................................................................................. 17

III. Emerging diseases
Matthew Frieman ................................................................................ 32

IV. Interprofessional education, policy
Virginia Rowthorn ............................................................................. 69
Magaly Rodriguez de Bittner .............................................................. 68

V. Maternal newborn child disparities
Yolanda Ogbolu ................................................................................... 58

VI. Regulatory affairs
Dean Natalie Eddington ................................................................. 29
Joga Gobburu ................................................................................. 35
James Polli ......................................................................................... 63

VII. Vaccine development, public policy
Kathleen Neuzil .................................................................................. 57

C. Ensuring Access and Equity in Health Care

I. Elder Care
Care for dementia patients – Elizabeth Galik .............................. 33
Dental public health, Medicare – Richard Manski ......................... 51
Geriatrics – Nicole Brandt ............................................................... 16
Gerontology/aging – Barbara Resnick ............................................... 66
# TABLE OF CONTENTS

## II. Pediatrics
- Childhood mental health – Nancy Lever ........................................ 48
- Children's health – Steven Czinn ..................................................... 23
- Dentistry – Norman Tinanoff .......................................................... 76
- Mental health, prescribing of antipsychotics to children – Susan dosReis .... 27
- Oncology – Paul Shapiro. ................................................................. 71
  - James Trovato ............................................................................ 78

## III. Underserved Populations
- Health disparities – Jay Magaziner ............................................... 51
- Specialty pharmacy programs – Lauren Hynicka .............................. 42

## IV. Pharmaceutical Health Outcomes Research
- C. Daniel Mullins ............................................................................. 56

## V. From Hospital to Home
- Charmaine Rochester-Eyeguokan .................................................. 68

## VI. Behavioral Health
- Raymond Love .................................................................................. 50
- Michelle Pearce .................................................................................. 61

### D. Caring for the Human Condition

#### I. Child Welfare
- Child maltreatment, child abuse – Wendy Lane ............................... 47
- Child neglect and abuse prevention – Howard Dubowitz .................. 28
- Early childhood caries, nutrition – Vineet Dhar ............................... 24
- Family and community medicine – David Stewart .......................... 74
- Foster care – Dean Richard Barth. .................................................... 14
- Mental health needs of children at environmental risk – Brenda Harden .... 39
- Lead poisoning – Pat McLaine. ......................................................... 53
- Pediatric pharmacy – Jill Morgan ...................................................... 56

#### II. Addictions/Overdose
- Gambling addiction – Christopher Welsh ........................................ 82
- Impulsivity/addictions – Lynn Oswald .............................................. 58
- Overdose response programs and prescribing of naloxone – Bethany DiPaula ... 25
- Opioid addiction – Eric Weintraub .................................................. 81
  - Christopher Welsh ......................................................................... 82
- Poison Center's role in monitoring of the state overdose response program
  - Bruce Anderson ================================================== 13
- Prescription drug monitoring – Linda Wastila .................................. 81
# TABLE OF CONTENTS

Substance abuse – Fadia Shaya .................................................. 72  
Substance use disorders – Charon Burda ............................... 18  
  – Katherine Fornili .......................................................... 31  

### III. Women's Health

Diabetes and pregnancy – Dean E. Albert Reece .................. 64  
Reproductive and infectious diseases – Rebecca Brotman .......... 17  
Health care quality and safety – Debra Bingham ................. 14  

### IV. Workplace Health

Environmental issues – Robyn Gilden ................................. 35  
Musculoskeletal injuries – Alison Trinkoff ........................... 77  

### V. Palliative Care

Mary Lynn McPherson ......................................................... 54  

### VI. Low-Income Services

Homeless populations – Kelly Doran ................................. 25  
Socio-economic inequalities in health care – Richard Manski .... 51  

#### E. Community Engagement

Anchor institutions – Interim President Bruce Jarrell ............ 43  
Community pharmacy – Cherokee Layson-Wolf .................. 47  
Community and public health – Laura Allen ...................... 13  
HIV/AIDS Dental Clinic – Valli Meeks ......................... 54  
Patient-centered research – C. Daniel Mullins .................. 56  
Promise Heights – Bronwyn Mayden ............................... 52  
Social Work Community Outreach Service – Wendy Shaia .... 71  

#### F. Legal Considerations

##### I. Environmental Law and Policy

Energy law – Michael Pappas ............................................. 60  
Food safety and environmental policy – Rena Steinzor .......... 74  
International – Robert Percival ...................................... 61  

##### II. Health Law & Policy

Advance directives – Diane Hoffmann ............................... 41  
Child welfare, prostitution policy – Corey Shdaimah ........... 72  
Dental hygiene – Deborah Cartee .................................... 19  
Drug pricing – Joey Mattingly ........................................ 52  
Family law and domestic violence – Leigh Goodmark ........ 36  
FDA and regulatory issues – Francis Palumbo .................... 59  
Genetic privacy and law – Natalie Ram ............................ 63  
Health disparities – Kathleen Tracy ............................... 77
TABLE OF CONTENTS

Public health policy – Jay Magaziner ........................................... 51
Tobacco regulation – Kathleen Hoke ............................................. 42

III. Constitutional Law
Mark Graber ................................................................. 36
Max Stearns ................................................................. 73

IV. Criminal Justice
David Gray ................................................................. 37
Michael Pinard .............................................................. 62

V. Business and Tax Law
Employment law – Deborah Thompson Eisenberg .................... 30
Intellectual property – Patricia Campbell ................................. 18
Tax law – Andrew Blair-Stanek ........................................... 15
Tax and campaign finance laws – Dean Donald Tobin ............... 76

G. Research and Innovation
I. Genomics and Personalized Medicine
Claire Fraser ................................................................. 32
Alan Shuldiner ............................................................. 73
Owen White ................................................................. 82
Hongbing Wang ............................................................ 79

II. Pain
Luana Colloca ............................................................... 21
Susan Dorsey ............................................................... 26
Joel Greenspan .............................................................. 38
Mary Lynn McPherson .................................................... 54

III. Opioid Development
Andrew Coop ............................................................... 22

IV. Antibiotic Resistance
Kimberly Claeys ............................................................ 20
Emily Heil ................................................................... 40
Amanda Oglesby-Sherrouse .............................................. 58
Angela Wilks ................................................................. 83

V. Aging
Care of dementia patients – Elizabeth Galik ............................ 33
Functional status in elderly patients – Barbara Resnick .......... 66
Long-term care/international approaches to aging populations
- Kirsten Corazzini ........................................................ 22
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Author/Contributor</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term care regulations and training</td>
<td>Alison Trinkoff</td>
<td>77</td>
</tr>
<tr>
<td>Medications and the elderly</td>
<td>Nicole Brandt</td>
<td>16</td>
</tr>
<tr>
<td>Research on aging and mobility</td>
<td>Jay Magaziner</td>
<td>51</td>
</tr>
<tr>
<td>VI. Transplantation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical technology, heart and lung disease</td>
<td>Bartley Griffith</td>
<td>38</td>
</tr>
<tr>
<td>VII. Other Specialties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic science research, depression research</td>
<td>Scott Thompson</td>
<td>75</td>
</tr>
<tr>
<td>Bioequivalence of brand and generic drugs</td>
<td>James Polli</td>
<td>63</td>
</tr>
<tr>
<td>Brain injury</td>
<td>Alan Faden</td>
<td>31</td>
</tr>
<tr>
<td>Cancer therapeutics</td>
<td>Paul Shapiro</td>
<td>71</td>
</tr>
<tr>
<td>Diabetes and obesity</td>
<td>Dean E. Albert Reece</td>
<td>64</td>
</tr>
<tr>
<td>Discovery-based medicine</td>
<td>Dean E. Albert Reece</td>
<td>64</td>
</tr>
<tr>
<td>Diseases of the eye</td>
<td>Bennie Jeng</td>
<td>44</td>
</tr>
<tr>
<td>Entrepreneurism</td>
<td>Dean Natalie Eddington</td>
<td>29</td>
</tr>
<tr>
<td>Fetal health and prenatal care</td>
<td>Christopher Harman</td>
<td>40</td>
</tr>
<tr>
<td>Focused ultrasound, non-invasive therapies</td>
<td>Graeme Woodworth</td>
<td>83</td>
</tr>
<tr>
<td>Global health</td>
<td>Bonnie Bissonette</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Virginia Rowthorn</td>
<td>69</td>
</tr>
<tr>
<td>Interprofessional research</td>
<td>Interim President Bruce Jarrell</td>
<td>43</td>
</tr>
<tr>
<td>Mass spectrometry</td>
<td>Maureen Kane</td>
<td>45</td>
</tr>
<tr>
<td>Metallotherapeutics</td>
<td>Sarah Michel</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Angela Wilks</td>
<td>83</td>
</tr>
<tr>
<td>Nanomedicine</td>
<td>Peter Swaan</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>Bruce Yu</td>
<td>84</td>
</tr>
<tr>
<td>Neuroscience research</td>
<td>Asaf Keller</td>
<td>46</td>
</tr>
<tr>
<td>Nursing informatics</td>
<td>Eun-Shim Nahm</td>
<td>57</td>
</tr>
<tr>
<td>Oral health technologies</td>
<td>Gary Hack</td>
<td>39</td>
</tr>
<tr>
<td>Pharmacology and neuroscience</td>
<td>Margaret McCarthy</td>
<td>53</td>
</tr>
<tr>
<td>Research transparency</td>
<td>Peter Doshi</td>
<td>26</td>
</tr>
<tr>
<td>Sepsis</td>
<td>Robert K. Ernst</td>
<td>30</td>
</tr>
<tr>
<td>Sports medicine, orthopaedics</td>
<td>Andrew Pollak</td>
<td>62</td>
</tr>
<tr>
<td>Stem cell research</td>
<td>Curt Civin</td>
<td>19</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

## H. Safety, Security, and Privacy

### I. Big data and privacy
Frank Pasquale .......................................................... 60

### II. Counterterrorism and radiation oncology
Zeljko Vujaskovic ...................................................... 78

### III. Emergency preparedness and cybersecurity
Michael Greenberger .................................................... 37

## I. Economic Development

### I. Business ventures
Cardiac surgery – James Gammie .................................. 34
Institutional planning – David George ............................. 34

### II. Community engagement
Community organizing and advocacy – Megan Meyer ......... 55

## Diversity, Inclusion and Equity

Patty Alvarez ............................................................. 85
Gregory Brightbill ....................................................... 86
Courtney Jones Carney ................................................. 86
Bill Joyner ................................................................. 87
Ebony Nicholson ........................................................ 87
Sandra Quezada .......................................................... 88

## Research Centers

### A. Interprofessional .................................................. 89
### B. Carey School of Law ............................................. 90
### C. School of Medicine ............................................... 91
### D. School of Nursing ................................................ 95
### E. School of Pharmacy .............................................. 96
### F. School of Social Work .......................................... 99

---

**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 task isn’t an easy one; the issues you tackle every day have a profound impact on your constituents. Policy debates invariably have many facets, and it’s important that you have sufficient research, facts, and informed perspectives to help you make the best decisions.

You have in your hands the fourth edition of the University of Maryland, Baltimore Experts Guide, a resource for you to draw upon as you develop and advance policies affecting Maryland communities and influencing legislation beyond our borders. In this book is a snapshot of the experts, researchers, and trailblazers who call UMB home — authorities in health care, law, cybersecurity, social welfare, community development, and more. In addition, we list the many UMB research centers that extend our excellence.

UMB — Maryland’s only public health, law, and human services university — awards most of the state’s professional practice doctoral degrees each year. The University consists of six highly ranked professional schools and an interdisciplinary Graduate School; together, we improve the human condition through leadership in education, research, clinical care, and public service.

Certainly this book doesn’t — and couldn’t — include every expert at UMB. For additional resources, please consult UMB’s website, www.umaryland.edu, or contact Kevin P. Kelly, JD, chief government affairs officer and associate vice president, at 410-706-2535.

I’m deeply grateful for all you do to strengthen Maryland and our nation. 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
Interim 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>
</tr>
</thead>
<tbody>
<tr>
<td>School of Medicine</td>
<td>1807</td>
</tr>
<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>
</tr>
<tr>
<td>School of Social Work</td>
<td>1961</td>
</tr>
</tbody>
</table>

Facilities
Located in Baltimore, the campus consists of 71 acres with 6.5 million gross square feet of space in 62 buildings.

CORE VALUES

<table>
<thead>
<tr>
<th>ACCOUNTABILITY</th>
<th>EXCELLENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVILITY</td>
<td>KNOWLEDGE</td>
</tr>
<tr>
<td>COLLABORATION</td>
<td>LEADERSHIP</td>
</tr>
<tr>
<td>DIVERSITY</td>
<td></td>
</tr>
</tbody>
</table>

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># of students</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurses</td>
<td>826</td>
</tr>
<tr>
<td>Dental Hygienists</td>
<td>30</td>
</tr>
<tr>
<td>Medical Technologists</td>
<td>22</td>
</tr>
<tr>
<td>Undergraduate Total</td>
<td>878</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>13%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of students</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurses</td>
<td>1,162</td>
</tr>
<tr>
<td>Biomedical</td>
<td>1,132</td>
</tr>
<tr>
<td>Social Workers</td>
<td>971</td>
</tr>
<tr>
<td>Lawyers</td>
<td>742</td>
</tr>
<tr>
<td>Physicians</td>
<td>629</td>
</tr>
<tr>
<td>Dentists</td>
<td>587</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>534</td>
</tr>
<tr>
<td>Physical Therapists</td>
<td>192</td>
</tr>
<tr>
<td>Prof./GraduateTotal</td>
<td>5,949</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total — Fall 2019</th>
<th>6,827</th>
<th>100%</th>
</tr>
</thead>
</table>
STUDENT DEMOGRAPHICS

27% MALE
73% FEMALE

73% IN-STATE
27% OUT-OF-STATE

18% AFRICAN-AMERICAN

44% MINORITIES

EMPLOYMENT — FALL 2019

Faculty 2,884
Executive/Prof. 2,527
Support Personnel 1,448
Total Regular Employees 6,859
Student Employees 772
Total Employees 7,631

AN ENTREPRENEURIAL CAMPUSS

FY 2020 - Sources of Funds
Research Contracts and Grants 41%
Clinical (Patient) Care 25%
Research and Clinical Care 66%
State Funds 19%
Tuition & Fees 11%
Auxiliary Fees 4%
Total $1.33 Billion 100%

HISTORY

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

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

1824
The forerunner of the law school, the Maryland Law Institute, was opened in 1824.

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

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

1889
In 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 in 1918.

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

NATIONAL RANKINGS

Dentistry 7th NIH Funding (Publics) FY 2018
Medicine 8th Total Grants and Research Expenditures (Publics) AAMC FY 2018
Law Three specialties in top 10 in U.S. News & World Report, with Evening Program 4th, Health Law 6th, and Clinical Training 7th
Nursing 6th U.S. News & World Report. Four specialties in top 10 with Nursing Informatics at No. 1
Pharmacy 9th U.S. News & World Report
Social Work 17th U.S. News & World Report
DRIVING THE ECONOMY

**Dramatic Achievements**
- FY 2019 — awarded $664.7 million in grants and contracts
- Yield — $1,361,988 research dollars per core faculty

**Return on Investment**
- Yields $13 in economic activity for each $1 of state general fund appropriation
- Generates 18,000 jobs
- Together with the University of Maryland Medical Center and affiliated physician practices, generates $7 billion in annual economic activity

COMMERCIAL POTENTIAL

In FY19, UM Ventures — the joint technology transfer enterprise of UMB and the University of Maryland, College Park (UMCP) — 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:

- 217 new patent filings
- 48 new license agreements
- seven new startup companies
- three 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:

- **Breeth**, a UMB startup developing a wearable artificial lung, raised $6 million in funding. Since 2015 Breeth has raised more than $16 million.
- **CoapTech** received U.S. Food and Drug Administration (FDA) clearance for its PUMA-G System, which enables ultrasound-based placement of percutaneous gastrostomy feeding tubes. CoapTech also was awarded a $1.2 million National Institutes of Health (NIH) grant to support a 40-patient clinical trial at the University of Maryland Medical Center.
- **NeoProgen**, a biotech company developing a cell therapy that could help patients who have suffered a heart attack, raised $1.5 million in seed funding. NeoProgen is led by Bill Niland, former CEO of UMB startup Harpoon Medical, which was acquired by Edwards Lifesciences for $100 million in 2017.
- **Pumas-AI** released its first, cutting-edge software platform for pharmaceutical researchers and clinicians. Pumas-AI is working to double pharmaceutical and patient care success rates by democratizing tools and education in the health care data analytics space.

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 University-created or -sponsored technology companies to locate in Baltimore City. Highlights include:

- **The Maryland Momentum Fund**, the University System of Maryland’s (USM) $10 million early-stage investment program, has invested more than $1.5 million in USM-affiliated companies, with $11.1 million in matching funds from more than 14 co-investors. Two companies, NextStep Robotics and NeoProgen, are based on UMB intellectual property and one, Veralox Therapeutics, was founded by a School of Medicine alum.
- **The Baltimore Fund** has encouraged the expansion and location of 16 companies in qualifying areas, creating or retaining more than 350 jobs.
- **The Life Sciences IP Fund** has approved more than $1.7 million in investments to move 10 early-stage technologies forward and accelerate commercialization at UMB. The projects have resulted in three options, two licenses, and three startups with 12 additional outcomes, including new disclosures, publications, and presentations.
- **The Grid** (Graduate Research Innovation District) houses UMB startups and two early-stage companies, b.well and ARMR Systems, and offers business development services through programs such as the Small Business Development Center and Carey School of Law IPEC Law Clinic.

The 14-acre **University of Maryland BioPark**, home to more than 1,000 employees, provides sophisticated lab and office space for nearly 40 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 AND LEGAL CARE

Medicine

- Attending physicians at the University of Maryland Medical Center are faculty members of the School of Medicine (SOM).
- Research funding in FY19 totaled $542.1 million, the highest total ever. Also this year, SOM received its largest research contract to date — $200 million — to develop and test a universal vaccine for influenza.
- SOM now has recruited 20 top scientists, adding $60 million in total research funding as part of the school’s STRAP (Special Trans-disciplinary Recruitment Award Program) initiative, including Christine Lau, MD, MBA, who becomes the first woman in SOM’s history to chair the school’s Department of Surgery.

Dentistry

- Only dental school in Maryland and the largest provider of oral health services to Medicaid children/HIV patients
- More than 23,000 patients and 95,000 patient visits per year
- Founded in 1840, it is the world’s first dental college.

Carey Law

- Each year 150 Carey Law students provide nearly 75,000 hours of free legal services through 17 legal clinics, making the Clinical Law Program one of the region’s largest public interest law firms.

Nursing

- The nurse’s clinic at Paul’s Place, a community outreach center in Southwest Baltimore, provided 460 intensive clinical case management visits to patients in FY19. As a result, the clinic — run by assistant professor Kelly Doran, PhD ’11, MS ’08, RN — was able to divert 77 percent of non-emergent cases to an appropriate non-emergent care facility. The clinic serves as a clinical placement for nursing, medical, and social work students at UMB.

Pharmacy

- In 2018, the Maryland Poison Center received 39,360 calls.
- Faculty and staff provide clinical service to approximately 40,000 patients each year in more than 30 practice settings in specialties such as community pharmacy, cardiology, oncology, pediatrics, HIV/AIDS, mental health, diabetes, geriatrics, and palliative care.

Social Work

- More than 800 social work students provide over 500,000 hours of care to Maryland citizens annually.

ENGAGEMENT IN BALTIMORE

The UMB Community Engagement Center, adjacent to campus, provides direct health, employment, legal, and social services to West Baltimore residents, and works with them on neighborhood-strengthening projects.

- UMB CURE Scholars is a long-term mentoring program 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 UM 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 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)
Program Director, Community and Public Health Environmental Initiative

Ms. 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.

410-706-7884 | lallen@umaryland.edu

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

Dr. Anderson joined the faculty at the School of Pharmacy in 1993, following the completion of a fellowship in clinical toxicology at the University of California, San Diego and 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 board for the American Board of Applied Toxicology, as well as a trustee for the American Academy of Clinical Toxicology. A center within the School of Pharmacy’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 only served physicians when it first moved to the School of Pharmacy 46 years ago, it has grown into a free public service that now 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.”

410-563-5580 | banderso@rx.umaryland.edu
RICHARD P. BARTH, PHD, MSW (SSW)
Dean and Professor, School of Social Work

The author of 12 books and over 200 scholarly articles, Dean Barth is recognized as a leading expert on several social topics including social work education, adoption, foster care, and child welfare. Dean Barth, who is 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.

410-706-7794 | rbarth@ssw.umaryland.edu

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.

410-706-4409 | mbellin@ssw.umaryland.edu

DEBRA BINGHAM, DRPH, RN, FAAN (SON)
Associate Professor

Dr. Bingham’s expertise is in health care quality and safety. Her primary clinical focus is the use of implementation science to improve the health of women and newborns. She has co-authored numerous articles and tool kits, and also has developed and led 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 founder and executive director of the Institute for Perinatal Quality Improvement and is regularly interviewed and quoted by the media.

410-706-4909 | dbingham@umaryland.edu
BONNIE BISSONETTE, EDD (GS)
Director, Education Abroad and International Safety Director,
Global Health Systems and Services

In addition to serving as director of Education Abroad and International Safety, Dr. Bissonette is program director and faculty for the Global Health Systems and Services certificate degree at the Graduate School. She works to strengthen international opportunities for faculty and students at all seven schools at the University by working collaboratively with faculty and staff. Dr. Bissonette works to develop processes and procedures, appropriate safety and security mechanisms, and other logistics relevant to international experiences. Before coming to UMB, she was associate dean of business and international education at Northcentral Technical College in Wausau, Wis., for 10 years, and prior to that 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 serves as a member-leader on the Board of Directors of NAFSA: Association of International Educators in her role as vice president for public policy and practice (2017-2019). She is a frequent presenter on international education leadership topics, as well as cultural understanding and international safety and security. Dr. Bissonette received her BA in international studies at the University of St. Thomas in St. Paul, Minn., and her MA in international affairs at George Washington University in Washington, D.C.

410-706-6331 | bbissonette@umaryland.edu

ANDREW BLAIR-STANEK, JD (SOL)
Associate Professor

Professor Blair-Stanek is an expert in tax law. His 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.

410-706-4232 | ablair-stanek@law.umaryland.edu
MARY JO BONDY, DHED, MHS, PA-C (GS)
Assistant Dean of Academic Programs

Assistant Dean Bondy is the director of graduate studies for the Graduate School, including the Master of Science in Health Science Program. She is a certified physician assistant (PA) with more than 23 years of clinical experience. Her research interests include educating PAs to increase presence in primary care and PA workforce issues. She is an award-winning teacher and leader and serves as the liaison and adjunct professor to the Anne Arundel Community College PA Program.

410-706-2298 | mjbondy@umaryland.edu

NICOLE BRANDT, PHARMD, MBA (SOP)
Executive Director, Peter Lamy Center on Drug Therapy and Aging
Professor, Department of Pharmacy Practice and Science

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 and has affected this through her educational, clinical, as well as health care policy work. She has directed projects such as Medication Use Safety Training for Seniors (www.mustforseniors.org), Assisted Living Medication Management and Safety, and Medication Therapy Management Standardized format development. Her public policy advocacy occurs on both a state and national level. She has 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.

410-706-1491 | nbrandt@rx.umaryland.edu
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 currently developing a research program in 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, and 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 now the focus of her current research. Future work will involve studies of the pathophysiology of BV, including the various behavioral and biological factors associated with the acquisition, remission, and recurrence of BV.

410-706-6767 | rbrotman@som.umaryland.edu

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

Dr. Browne is known as one of the pioneers of emergency medicine and continues today as 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, which today 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 U.S. and abroad, noting that the emergency room has evolved into becoming the diagnostic center of the hospital.

410-328-8025 | bbrowne@umem.org
CHARON BURDA, DNP, PMHCNS, PMHNP-BC, CARN-AP (SON)
Assistant Professor
Director, Psychiatric/Mental Health Nurse Practitioner Specialty

Dr. Burda combines individual- and population-based perspectives to provide interprofessional solutions for patients with co-occurring psychiatric and substance use diagnoses. Her work has been published in the *Journal of Addictions Nursing*, and she has served on the board of the International Nurses Society on Addictions. Dr. Burda is in the middle of her first term 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.

410-706-2454 | cburda@umaryland.edu

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

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

410-706-2569 | pcampbell@law.umaryland.edu
DEBORAH L. CARTEE, RDH, MS (SOD)
Associate Professor

Professor Cartee is junior clinical coordinator in the Division of Dental Hygiene at the School of Dentistry. She earned her MS in management (Health Care Administration Track) at the University of Maryland University College, BS degree in dental hygiene at the School of Dentistry, and AA degree in dental hygiene at Baltimore City Community College. She has extensive clinical experience, and has been teaching full-time for the last 16 years, serving as course coordinator for numerous didactic courses including: Prevention & Control of Oral Disease I & II, Fundamentals of General Pathology, Oral Radiology, Dental Materials, Oral Histology & Embryology, Head and Neck Anatomy, Ethics, Introduction to Oral Health Research, and as co-director of pain management. Awarded Teacher of Year by the junior dental hygiene class in 2010, 2011, 2012, 2014, and 2015, she teaches continuing education courses for SOD. 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 verbal testimony in Annapolis leading to successful passage of legislation including; allowing dental hygienists to administer local anesthesia and nitrous oxide, providing dental screenings without supervision at health fairs, and providing direct access to patients in long-term care facilities. She was awarded the MDHA Symbol of Excellence Award in 2012 and was appointed by Gov. Larry Hogan to serve on the Maryland Commission for Women. Her career goal has been empowering women to be independent future leaders.

410-706-7235 | dcartee@umaryland.edu

CURT I. CIVIN, MD (SOM)
Professor, Department of Pediatrics
Director, Center for Stem Cell Biology and Regenerative Medicine
Associate Dean for Research

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, which are used today in both 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 University of Maryland School of Medicine in 2009 to become the founding director of the school’s 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.

410-706-1198, 410-706-1181 | ccivin@som.umaryland.edu
KIMBERLY CLAEYS, PHARMD, BCPS (SOP)
Assistant Professor, Department of Pharmacy Practice and Science

Dr. Claeys completed her PharmD at Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences in Detroit. She then completed her pharmacy practice residency at the University of Illinois at Chicago 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 University as well as a graduate certificate in public health from Wayne State University School of Medicine. Dr. Claeys' research interests include: infectious diseases 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.

410-706-3215 | kclaeys@rx.umaryland.edu

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 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 Hurricane Katrina. Dr. Colgan was chosen by the School of Medicine’s student body to be its nominee to the Association of American Medical Colleges for its annual humanism award, was inducted into the school’s Humanism honor society as well as the school’s medical honor society, Alpha Omega Alpha. He had received several Student Council Faculty Teaching Awards, and was awarded the American Medical Student Association Golden Apple clinical faculty teaching award by the University of Maryland School of Medicine graduating medical school student body. Dr. Colgan serves as director of the School of Medicine’s Executive Health Program and oversees the school’s “Mini-Med School” community outreach lecture series. In 2013, Dr. Colgan was appointed by Dean E. Albert Reece to serve as program director for the Maryland Area Health Education Center. He is the author of several books, including Advice to the Young Physician: On the Art of Medicine, Advice to the Healer, and On the Art of Caring.

667-214-1800 | rcolgan@som.umaryland.edu
LUANA COLLOCA, MD, PHD (SON)
Associate Professor

Dr. Colloca conducts pioneering, groundbreaking studies that have advanced the scientific understanding of the psychoneurobiological bases of endogenous systems for pain modulation in humans. Through her studies, Dr. Colloca has discovered that the vasopressin system is involved in the enhancement of placebo effects with a dimorphic effect. In response to her work, Dr. Colloca has developed an international reputation as a leading scientist for advancing the knowledge of the neurobiological mechanisms of the placebo and nocebo effects with a multiple approach including psychopharmacological, neurobiological, and behavioral approaches.

410-706-8244 | colloca@umaryland.edu

HEATHER BRENnan CONGDON, PHARMD, BCPS, CDE (SOP)
Assistant Dean for Shady Grove
Associate 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. She completed a pharmacy practice residency with emphasis in community care from the University of Maryland, Baltimore (UMB). Her teaching focus surrounds interprofessional education, diabetes, and the abilities lab series. She serves as the assistant dean for the Universities of Shady Grove campus of the school in Rockville, Md., and 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 (MTM) 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.

301-738-6344 | hcongdon@rx.umaryland.edu
ANDREW COOP, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Associate Dean for Academic Affairs

Dr. Coop received his PhD from the University of Bristol in the area of chemistry of drugs of abuse, followed by a Fogerty postdoctoral fellowship at the National Institutes of Health (NIH). He has been a faculty member at the School of Pharmacy 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 the 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, he oversees the school’s educational programs including assessment and accreditation, instructional design, electronic learning resources and training, pathways and dual degrees, and academic scheduling.

410-706-2029 | acoop@rx.umaryland.edu

KIRSTEN CORAZZINI, PHD, FGSA (SON)
Professor
Associate Dean for 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, which she has studied both 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, Division of Nursing, School of Health Sciences, United Kingdom.

410-706-6836 | kcorazzini@umaryland.edu
KEVIN J. CULLEN, MD (SOM)
Professor, Departments of Medicine, Pharmacology
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 — Dr. Cullen oversees a staff of 275 physicians and researchers. Under his leadership, the cancer 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 the NCI.

410-328-5506 | kcullen@umm.edu

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

Dr. Czinn is a pediatric gastroenterologist recognized for 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 and is the lead author or co-author on more than 100 peer-reviewed publications and has served as an associate editor of the American Journal of Gastroenterology since 2003. He is currently acting as chair of the Pediatric Gastroenterology Committee at the American College of Gastroenterology.

410-328-6777 | sczinn@peds.umaryland.edu
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 February 2017, expanding his previous University roles. As UMB vice president and director of the new Institute for Clinical and Translational Research, Dr. Davis is spearheading UMB’s collaboration with Johns Hopkins University in competing for 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, he has devoted his career to treating adults with diabetes and metabolic disorders as well as studying the biological basis of certain diabetes-related complications. Dr. Davis 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 throughout his career, including the Novartis Award for Diabetes Research, considered the highest honor in that field of research. He has published more than 190 articles, reviews, and textbook chapters in premier scientific journals.

410-328-2488 | sdavis@medicine.umaryland.edu

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

As a pediatric dentistry resident in India, Dr. Dhar often treated children who hadn’t had access to health care and were in advanced stages of oral disease. The experience opened his eyes to the importance of clinical research and the ways in which it can improve care. In 2009, he moved to the United States for a faculty position at the School of Dentistry (SOD) and in 2013 he earned a certificate in pediatric dentistry from SOD. Dr. Dhar received the 2017 Jerome B. Miller/Crest–Oral–B/For the Kids Award from the American Academy of Pediatric Dentistry (AAPD), which annually recognizes an up-and-coming clinician, researcher, or academician in pediatric dentistry. He also was co-author of a paper on sealants that won the 2017 Paul P. Taylor Award from AAPD. Dr. Dhar has been involved in multiple research projects and also has directed thesis work for master’s students as advisor or co-advisor.

410-706-7970 | vdhar@umaryland.edu
BETHANY DIPAULA, 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. She is specifically interested in comorbidity of psychiatry and substance abuse.

410-970-7136 | bdipaula@rx.umaryland.edu

KELLY DORAN, PHD, RN (SON)
Director of Health and Wellness, Paul’s Place, Southwest Baltimore
Assistant Professor

Under a decades-long partnership between the School of Nursing and Paul’s Place in Southwest Baltimore, 24 programs have been established for low-income and homeless people, as well as an after-school program to improve children’s health and promote academic success. Dr. Doran serves as clinical instructor to graduate and undergraduate nursing students who join medical and social work students at Paul’s Place to provide services to these populations. Students gain community-based experience and opportunities to interact with patients outside the hospital — where the patients live. Dr. Doran’s research areas include worksite health promotion with health care workers; behavioral interventions to reduce cardiovascular disease risk factors; use of peer recovery advocates to engage individuals with substance abuse disorders in harm reduction and/or treatment; and motivation for engagement in health promotion and health care services for homeless and/or low-income individuals.

410-706-5470 | kdoran@son.umaryland.edu
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 U.S. 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.

410-706-7250 | sdorsey@umaryland.edu

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

Dr. Doshi, an associate editor at The BMJ (formerly the British Medical Journal), earned an AB in anthropology from Brown University, an AM 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, 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 was 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 faculty at the University of Maryland School of Pharmacy. 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 also 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 everywhere to address two long-standing problems in the biomedical literature: non-publication and misreporting of trials.

410-706-0527 | pdoshi@rx.umaryland.edu
SUSAN DOSREIS, PHD (SOP)
Professor, Department of Pharmaceutical Health Services Research
Vice Chair for Research

Dr. dosReis received a Bachelor of Science 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 from the Johns Hopkins Bloomberg School of Public Health. Before this faculty appointment, she was on the faculty of the Johns Hopkins University School of Medicine, 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 child 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, she 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.

410-706-0807 | sdosreis@rx.umaryland.edu
HOWARD DUBOWITZ, MB, CHB, FAAP (SOM)
Professor, Department of Pediatrics
Division Head, Child Protective Services
Head, Division of Child Protection
Director, Center for Families

Dr. Dubowitz is an award-winning professor in the Department of Pediatrics at the School of Medicine and 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 (CHAMP) 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 around the world and has published hundreds of articles in leading journals on child abuse and neglect. He currently leads the World Health Organization Violence Presentation Alliance Parenting Project Group and was the founding member of the Ray Helfer Society, an international honor society for child abuse physicians.

410-706-6144 | hdubowitz@peds.umaryland.edu
NATALIE D. EDDINGTON, PHD, FAAPS, FCP (SOP)

Dean and Professor, School of Pharmacy
Executive Director, University Regional Partnerships, UMB

Dr. Eddington became dean of the School of Pharmacy 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 BS in pharmacy from Howard University. She later earned her PhD from the University of Maryland School of Pharmacy and, after working as assistant director of new drug development at Pfizer Inc., joined the faculty in 1991. She was appointed director of the School of Pharmacy’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 Center for Nanobiotechnology, which brings together a collection of scientists to find new and better ways of providing pharmaceutical treatment. It is the School of Pharmacy’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 U.S. Food and Drug Administration (FDA), and the pharmaceutical industry. In 2014, she was named executive director of University Regional Partnerships at the University of Maryland, Baltimore (UMB), a position she assumes while maintaining her leadership of the School of Pharmacy. 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 UMB’s Center for Addiction Research, Education, and Service (CARES), the University’s interprofessional effort to address the adverse impact of addiction on individuals, families, communities, and society. Under Dr. Eddington’s leadership, the School of Pharmacy 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 (M-CERSI), which is a collaborative agreement with the FDA to promote innovation in support of the development and evaluation of safe and effective products. Most recently, she envisioned and launched a transformational pharmapreneurism initiative, which seeks to position the school’s world-class faculty, its wonderful students, and exceptional staff to achieve their career aspirations and address our nation’s health care, research, policy, and societal needs.

410-706-7651 | neddingt@rx.umaryland.edu
DEBORAH THOMPSON EISENBERG, JD (SOL)
Professor and Director, Center for Dispute Resolution (C-DRUM)

Professor Eisenberg is director of C-DRUM at the Francis King Carey School of Law, where her 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 law school 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.

410-706-5995 | deisenberg@law.umaryland.edu

ROBERT K. ERNST, PHD (SOD)
Professor and Vice 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 co-founded a company, Pataigin, aimed at developing a method to quickly and accurately identify disease-producing agents, or 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 $12 million in research funding. In 2017, Dr. Ernst was honored as UMB’s Researcher of the Year, and in 2019 he was named UMB’s Entrepreneur of the Year.

410-706-3622 | rkernst@umaryland.edu
ALAN I. FADEN, MD (SOM)
Professor of Surgery
Director, Center for Shock, Trauma and Anesthesiology Research
Co-Director, Center for Sports Medicine, Health and Human Performance

Dr. Faden is a leading medical researcher in the treatment of brain trauma and other central nervous system injuries. As director of the Center for Shock, Trauma and Anesthesiology Research (STAR) & National Study Center for Trauma and EMS (NSC), Dr. Faden oversees multidisciplinary research focusing on brain injuries, concussion, critical care and organ support, resuscitation, surgical outcomes, patient safety and injury prevention. The NSC, part of the STAR research center, is renowned throughout the U.S. and internationally as a leader in research related to the causes, treatment, and outcomes of traumatic injury and sudden illness, and is the first research center in the U.S. dedicated exclusively to the study of trauma, its complications, and its prevention. The Center for Sports Medicine, Health and Human Performance brings together the scientific expertise of the University of Maryland, College Park (UMCP) with the clinical and research capabilities of the University of Maryland, Baltimore's professional schools to focus on traumatic brain injury. Dr. Faden is co-director with UMCP biology professor Elizabeth Quinlan, PhD.

410-706-4205 | afaden@anes.umm.edu

KATHERINE FORNILI, DNP, MPH, RN, CARN, FIAAN (SON)

Dr. Fornili combines individual- and population-based perspectives to provide interprofessional solutions for patients with co-occurring psychiatric and substance use diagnoses. Her work has been published in the Journal of Addictions Nursing, and in October 2018 she began her fourth term on the board of the International Nurses Society on Addictions, this time as president. 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.

410-706-5553 | fornili@umaryland.edu
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 is 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 current research interests are focused on the structure and function of the human gut microbiota.

410-706-3879, 410-706-2396 | cmfraser@som.umaryland.edu

MATTHEW B. FRIEYAM, 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, including SARS and MERS. With the emergence of SARS and other 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 (ALI), pulmonary fibrosis, and Acute Respiratory Distress Syndrome (ARDS).

410-706-2539, 410-706-2538 (lab) | mfrieman@som.umaryland.edu
ELIZABETH GALIK, PHD, CRNP (SON)
Associate Professor

As an expert in function-focused care for dementia patients, Dr. Galik is conducting a study under a grant from the National Institute on Aging on how to improve the lives of such patients. This includes optimizing physical activity and patients’ involvement in functional activities of daily living. The study also focuses on increasing patient mobility and improving patient engagement, with a goal of maximizing each individual’s quality of life.

410-706-5261 | galik@umaryland.edu

ROBERT C. GALLO, MD (SOM)
Professor, Departments of Medicine, Microbiology and Immunology
The Homer and Martha Gudelsky Distinguished Professor in Medicine
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 put an end to this and other viral chronic disease — culminating in 2015 with the announcement of clinical trials for a new AIDS vaccine. Earlier in his career, Dr. Gallo and his team also pioneered the development of the HIV blood test, which enabled health care laborers for the first time to screen for the AIDS virus — leading to a more rapid diagnosis while simultaneously 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 University of Maryland School of Medicine as director of the school’s Institute of Human Virology. Dr. Gallo has received numerous scientific honors and awards from around the world, holds 32 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 twice winning America’s most prestigious scientific award — the Albert Lasker Award in Medicine — in 1982 and 1986.

410-706-8614 | nsamaranayake@ihv.umaryland.edu
JAMES S. GAMMIE, MD (SOM)
Professor, Department of Surgery
Division Head, Cardiac Surgery

As an innovative leader in cardiac surgery, Dr. Gammie has refined a radically different beating-heart procedure for the treatment of aortic stenosis and has one of the largest contemporary experiences with this procedure — aortic valve bypass surgery — in the world. Dr. Gammie’s clinical and research efforts have focused on the surgical treatment of heart valve disease. He performs over 200 mitral valve operations per year and serves as part of a cardiac surgery team that performs more than 1,000 open-heart cases per year. He is an award-winning entrepreneur who has founded companies that developed surgical tools to facilitate this procedure. Harpoon Medical, a startup Dr. Gammie co-founded in 2013, was acquired by Edwards Lifesciences for $100 million in 2017 after Harpoon announced that Dr. Gammie’s pioneering device to repair heart valves had been found to be safe and effective in clinical trials.

In addition to his accomplishments as a leading cardiac surgeon, he is a widely published physician-scientist of studies related to the surgical treatment of atrial fibrillation and minimally invasive mitral valve surgery.

410-328-5842 | jgammie@smail.umaryland.edu

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

Dr. George is chief of staff and institutional planning at the School of Dentistry. He earned his Doctor of Dental Surgery from The Medical College of Virginia in 1988 and a certificate from the University of Maryland Dental School in Advanced General Dentistry in 1989. Dr. George received his fellowship certificate from the Academy of General Dentistry in 2000. He earned a Master of Business Administration with concentrations in finance and management consulting from the R.H. Smith/University of Maryland, College Park in 2002. An associate professor at the School of Dentistry, Dr. George is a member of the American Dental Association, International Association of Dental Research, and Academy of General Dentistry.

410-706-7461 | dgeorge@umaryland.edu
ROBYN GILDEN, PHD, RN (SON)
Assistant Professor

Dr. Gilden is an expert in pesticides and their health effects, including how seemingly safe household products can harm the immune 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 has worked with the Alliance for Nurses for a Healthy Environment to develop online resources that help nurses launch new studies in environmental health and create a network of nurse researchers, educators, and practitioners.

410-706-4803 | rgilden@umaryland.edu

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

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 in all phases of drug development. He obtained his BPharm 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.

410-706-5907 | jgobburu@rx.umaryland.edu

ERIN GOLEMBEWSKI, PHD (GS)
Senior Associate Dean

Dr. Golembewski oversees MS and PhD students. She is also the principal investigator for the collaborative AGEP-T: PROMISE AGEP (Association for Graduate Education and the Professoriate) Maryland Academy. She serves on a number of committees and organizations, including the Northeastern Association of Graduate Schools executive committee.

410-706-8323 | egole001@umaryland.edu
LEIGH GOODMARK, JD (SOL)
Professor

Professor Goodmark directs the Francis King Carey School of 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 is co-editor of *Comparative Perspectives on Gender Violence: Lessons from Efforts Worldwide* (Oxford, 2015) and 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 Center on Children and the Law. Before joining the center, Professor Goodmark represented battered women and children in the District of Columbia. She is a graduate of Yale University and Stanford Law School.

410-706-3549 | lgoodmark@law.umaryland.edu

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

Recognized as 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 on constitutional developments outside of the courts are often sought by NPR, *The Atlantic*, and other local and national media. Graber is the author of *A New Introduction to American Constitutionalism* and co-editor (with Keith Whittington and Howard Gillman) of a two-volume series on American constitutionalism, all from Oxford University Press.

410-706-2767 | mgraber@law.umaryland.edu
DAVID GRAY, JD, PHD, MA (SOL)

Professor

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 media after the death of Freddie Gray in Baltimore in April 2015. The author of The Fourth Amendment in the Age of Surveillance (Cambridge University Press) was named UMB’s Researcher of the Year in 2019, Dr. Gray was in private practice at Williams & Connolly LLP before joining the law school faculty.

410-706-5986 | dgray@law.umaryland.edu

MICHAEL GREENBERGER, JD (SOL)

Professor and Founding Director, Center for Health and Homeland Security

Professor Greenberger is founder and director of the University of Maryland 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 level, as well as the private sector. A frequent commentator for the 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 the faculty at the University of Maryland Francis King Carey School of 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.

410-706-3846 | mgreenberger@law.umaryland.edu
JOEL D. GREENSPAN, PHD (SOD)
Professor and Chair, Department of Neural and Pain Sciences
Co-Director, UMB Center to Advance Chronic Pain Research

In addition to his School of Dentistry duties, Dr. Greenspan is co-director of the University of Maryland Center to Advance Chronic Pain Research, co-director of a National Institutes of Health (NIH)-funded UM Center for Genomics of Pain, and director of the Brotman Facial Pain Clinic, UM School of Dentistry. Dr. Greenspan received his PhD from the Neuroscience Program of Florida State University, and conducted postdoctoral work in the Neurobiology Program of the University of North Carolina, Chapel Hill. He holds adjunct faculty appointments in the Department of Anatomy and Neurobiology at the University of Maryland School of Medicine, and in the Department of Neurosurgery at Johns Hopkins University School of Medicine. Dr. Greenspan has studied the neural mechanisms of pain and somesthesis for over 30 years, and has authored more than 100 scientific publications in the field. He serves on the editorial board of the European Journal of Pain, and has served as a reviewer for many other pain and neuroscience journals, as well as NIH study sections. He was co-organizer of two scientific conferences: an international workshop titled “Sensory Evaluation for Pain and Analgesia Research,” held in 2007 in St. Petersburg, Russia, and “Consensus Conference to Establish Guidelines for Research on Sex Differences in Pain,” held in 2006 in Baltimore. Each of these conferences resulted in a consensus paper appearing in the journal Pain. Dr. Greenspan is a member of the Maryland Science Center Scientific Council, the State of Maryland Anatomy Board, and the NIH National Advisory Council for Complementary and Integrative Health.

410-706-7090 | jgreenspan@umaryland.edu

BARTLEY P. GRIFFITH, MD (SOM)
Thomas E. and Alice Marie Hales Distinguished Professor in Transplant Surgery

Dr. Griffith is an internationally known surgeon, inventor, and expert in heart and lung disease and hypertension. A brilliant clinician, researcher, and teacher who has performed more than 1,250 heart transplants and 685 lung transplants, Dr. Griffith, UMB’s 2010 Researcher of the Year and 2017 Entrepreneur of the Year, developed the first portable wearable artificial pump lung unit, with a request for approval from the Food and Drug Administration expected in late 2019. Previously chief of cardiac surgery at the School of Medicine, Dr. Griffith also was one of the first surgeons to implant a Jarvik heart and develop a pediatric heart pump. Some of Dr. Griffith’s special interests include adult cardiac care, cardiothoracic transplantation, and pulmonary hypertension, including pulmonary thromboendarterectomy surgery (PTE).

410-328-3822, 410-706-7715 (lab) | bgriffith@smail.umaryland.edu
GARY HACK, DDS (SOD)
Clinical Associate Professor, Department of Endodontics, Periodontics and Prosthodontics

Dr. Hack is a master of Computer-Aided Design/Computer-Aided Manufacturing, known by the acronym CAD/CAM, making use of the so-called Dream Room, where the latest oral health technologies are employed. He is a contributor to the textbook *Clinical Applications of Digital Dental Technology*, published by Wiley-Blackwell. Dr. Hack also has been instrumental in integrating diabetes screening and monitoring into the School of Dentistry’s curriculum. He was named the 2007 UMB co-Entrepreneur of the Year for his research on bioactive materials, and has received more than 30 patents related to his research on tooth hypersensitivity. Dr. Hack also co-discovered two anatomical structures (the sphenomandibularis muscle and the myodural bridge), which are now recognized in current textbooks on human anatomy.

410-706-7047 | ghack@umaryland.edu

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: (1) an implementation and impact evaluation of an intervention to reduce the toxic stress experienced by children enrolled in Early Head Start, (2) an impact evaluation of a rural home visiting program focused on pre-literacy, and (3) an implementation evaluation of a local Educare program.

410-706-3829 | brenda.jones-harden@ssw.umaryland.edu
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 (TTTS). 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 non-invasive ultrasound technique that accurately diagnose 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.

410-328-5966 | charman@upi.umaryland.edu

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 in Chapel Hill and subsequently completed a pharmacy practice and infectious diseases pharmacy residency training at the University of North Carolina Hospitals. In addition to her duties at the School of Pharmacy, she also has served for the last five 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.

410-706-0884 | eheil@rx.umaryland.edu
CHERILYN HENDRIX, DHED, MSBME, PA-C, DFAAPA (GS)

Program Director, AACC/UMB Collaborative PA Program

Dr. Hendrix is the program director of the Anne Arundel Community College (AACC)/University of Maryland, Baltimore (UMB) Collaborative Physician Assistant (PA) Program. She is responsible for the overall coordination, management, and leadership of PA education at AACC/UMB. She earned her doctorate in health education from A.T. Still University in 2011, and earned 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 PA graduate of the AACC 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 process 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 physician assistant students and in medical residents. She is a distinguished fellow of the American Academy of Physician Assistants, a member of the Florida Academy of Physician Assistants, the Maryland Academy of Physician Assistants, and the Physician Assistant Education Association.

410-777-7392 | chendrix@umaryland.edu

DIANE HOFFMANN, JD, MS (SOL)

Professor and Director, Law and Health Care Program

Professor Hoffmann’s nationally recognized Law and Health Care Program has educated more than 400 health law attorneys. Professor Hoffmann 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 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 Hoffmann has published numerous articles in legal journals as well as scientific and medical journals including Science, JAMA, the NEJM, 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 and the second on proposing a regulatory framework for microbiota transplants.

410-706-7191 | dhoffmann@law.umaryland.edu
KATHLEEN HOKE, JD (SOL)
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 the Francis King Carey School of Law and now 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.

410-706-1294 | khoke@law.umaryland.edu

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 both a PGY1 general practice and PGY2 internal medicine residency at the 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.

410-706-8072 | lhynicka@rx.umaryland.edu
BRUCE E. JARRELL, MD, FACS

Interim President, UMB

Dr. Jarrell became interim president of the University of Maryland, Baltimore (UMB) in January 2020 when former President Jay A. Perman, MD, began serving as chancellor of the University System of Maryland (USM). It was the latest in a long line of upward moves by Dr. Jarrell at UMB. He was named executive vice president and provost on Dec. 1, 2017, expanding his already wide-ranging duties at UMB. Since being named chief academic and research officer and senior vice president in 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 USM institutions. Recruited by the University of Maryland School of Medicine to chair the Department of Surgery, Dr. Jarrell came to UMB in 1997 and moved to the Dean’s Office of the School of Medicine in 2003, where he served as the executive vice dean, directing the school’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. He also is an accomplished metalsmith and member of the Blacksmith Guild of Central Maryland. Among Dr. Jarrell’s numerous creations are the mace holder he made for the University of Maryland School of Medicine in 2006, the mace holder he crafted for Dr. Perman’s inauguration in 2010, and the Davidge Elm tree window art that he and Ukrainian blacksmith Anatoliy Rudik created in 2012 that was installed in the University’s Southern Management Corporation Campus Center. Dr. Jarrell has written a number of books, including 2015 editions of the popular textbook NMS Surgery and the NMS Surgery Casebook.

410-706-2304 | bjarrell@umaryland.edu
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 the University of Maryland, Baltimore 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 funding from the NIH 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 has delivered more than 100 invited lectures in the U.S. and around the world, including in Kuwait, Australia, and South Korea.

667-214-1232 | bjeng@som.umaryland.edu

LOUISE JENKINS, PHD, RN, FAHA, ANEF (SON)
Professor and Director, Institute for Educators

In 2004, Dr. Jenkins co-founded the Institute for Educators to address the urgent statewide nursing faculty shortage. Under her leadership, the institute has contributed to a 63 percent increase in the number of new Maryland nursing school graduates sitting for boards and becoming licensed in the state; its effectiveness has 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 nearly 800 graduate and undergraduate students with the essential skills for teaching current and future nurses. She is currently working to develop a comprehensive blueprint for preparing the next generation of nursing faculty in the state. Her development plan includes creating a think tank of experts in teaching and learning, expanding pilot projects, and engaging with faculty throughout the state.

410-706-4296 | jenkins@umaryland.edu
MAUREEN KANE, PHD (SOP)
Associate Professor, Department of Pharmaceutical Sciences
Executive Director, Mass Spectrometry Center

Dr. Kane received a BS 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 (PK) studies; quantitative mass spectrometry assay development and validation; collaborations pertaining to metabolism, metabolite signaling, lipid profiling and lipid signaling, 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.

410-706-5097 | mkane@rx.umaryland.edu

JAMES B. KAPER, PHD (SOM)
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. An esteemed scientist and widely published scholar, Dr. Kaper’s 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.

410-706-7114, 410-706-2344 | jkaper@medicine.umaryland.edu
ASAF KELLER, PHD (SOM)
Professor and Interim Chair, Department of Anatomy and Neurobiology

Dr. Keller, who serves as interim chair of the Department of Anatomy and Neurobiology, is a leading scientist in 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. He and his research team also are 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.

410-706-7307 | akeller@som.umaryland.edu

JANE M. KIRSCHLING, PHD, RN, FAAN (SON)
Dean and Professor, School of Nursing
Director of Interprofessional Education, UMB
Co-Convener of the 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 and strategies for equipping nurses for health care in the 21st century. She brings particular expertise in the emerging area of interprofessional education and in workforce development, especially in rural environments. Dean Kirschling’s clinical focus includes mental health nursing with an emphasis on end-of-life care.

410-706-6741 | kirschling@umaryland.edu
WENDY LANE, MD, MPH (SOM)
Associate Professor, Departments of Epidemiology and Public Health; Pediatrics

Dr. Lane is a pediatrician and researcher at the School of Medicine (SOM). She is board certified in general pediatrics, child abuse pediatrics, and preventive medicine. Dr. Lane is the director of the Preventive Medicine Residency Program and she serves as co-director of the Health Disparities and Population Health Program at SOM. Dr. Lane’s research and clinical activities focus on child maltreatment and maternal and child health. She serves as the principal investigator for B’more for Healthy Babies Upton/Druid Heights, a community-based and community-engaged intervention to improve birth outcomes. 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 valuations for children with suspected maltreatment.

410-706-7865 | wlane@epi.umaryland.edu

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

Dr. Layson-Wolf received her Doctor of Pharmacy degree from the University of Maryland School of Pharmacy. She completed a community pharmacy residency with Virginia Commonwealth University and Ukrop’s Pharmacy. Her research interests include evaluations of immunization programs, point of care testing, medication adherence, and innovative patient care program implementation. In addition to service as associate dean, she is 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.

410-706-1067 | cwolf@rx.umaryland.edu
NANCY LEVER, PHD (SOM)
Associate Professor, Department of Psychiatry

Dr. Lever has more than 20 years of experience 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. She also serves as executive director of the University of Maryland School Mental Health Program, a long-standing and exemplary community-partnered school mental health program in Baltimore City. She also provides leadership and guidance to the University of Maryland, Baltimore’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 has written and presented extensively on school mental health.

443-506-6326 | nlever@psych.umaryland.edu

MYRON M. LEVINE, MD, DTPH (SOM)
Professor, Departments of Medicine, Epidemiology and Public Health, Microbiology and Immunology, Pediatrics
Associate Dean for Global Health, Vaccinology and Infectious Diseases

Dr. Levine is the Simon and Bessie Grollman Distinguished Professor and was the founding director of the School of Medicine’s Center for Vaccine Development (CVD). He is considered one of the leading scientists and vaccinologists of his generation. For the past 40 years, most under Dr. Levine’s leadership, the 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. The CVD also developed new delivery systems, as well as public health and vaccine policy around the world, including Africa, Asia, and Latin America. Most recently, 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 both in CVD-Mali and CVD-Baltimore. He currently serves as a senior advisor to the school’s Institute for Global Health, and is associate dean for global health, vaccinology, and infectious diseases while continuing to serve as a professor of medicine, pediatrics, epidemiology and public health, and microbiology and immunology.

410-706-7588 | mlevine@medicine.umaryland.edu
FLAVIUS R. W. LILLY, PHD, MA, MPH (GS)
Associate Vice President, Academic and Student Affairs, UMB
Senior Associate Dean

In the Graduate School, Dr. Lilly leads the new professional master’s degree development and online learning, and 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.

410-706-7767 | flilly@umaryland.edu
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 is a professor of pharmacy practice and science and psychiatry (secondary appointment) at the University of Maryland schools of pharmacy and medicine. Dr. Love was 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. Dr. Love oversees pharmacy services for the Behavioral Health Administration, Department of Health and Mental Hygiene, state of Maryland, 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 currently serves as co-principal investigator on a National Institutes of Health-funded R01 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, 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 the CPNP Judith Saklad Award.

410-706-1768 | rlove@rx.umaryland.edu
JAY S. MAGAZINER, PHD, MSHYG (SOM)
Professor and Chair, Department of Epidemiology and Public Health
Director, Center for Research on Aging

Dr. Magaziner is well-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 has served as a reviewer for Veterans Affairs, Alcohol, Drug Abuse and Mental Health Administration, Agency for Health Care Policy and Research, and the National Institutes of Health on a series of special review panels. He 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 of enhancing functioning and improving the quality of life for older people.

410-706-3553 | jmagazin@epi.umaryland.edu

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 and staff, educators and researchers at the School of Dentistry. 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. Dr. Manski also is responsible for and manages a multi-institutional, multidisciplinary team of researchers. Together they study the effects on dental utilization patterns associated with changes in dental coverage and changes in retirement status among older Americans. As the executive director of the National Museum of Dentistry (NMD), Dr. Manski is responsible for all operations of the museum. The NMD is a Smithsonian affiliate organization, 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 museum of the dental profession of the United States in 2003. Dr. Manski also serves as a senior scholar at the Agency for Health Care Research and Quality (AHRQ) within the Department of Health and Human Services. As a senior scholar, he provides advice to AHRQ staff into the editing and imputation of MEPS (Medical Expenditure Panel Survey) 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. Dr. Manski is also a trustee of the Community College of Baltimore County.

410-706-7245 | rmanski@umaryland.edu
JOEY MATTINGLY, PHARMD, MBA, PHD (SOP)
Associate Professor, Department of Pharmacy Practice and Science

After graduating from the University of Kentucky College of Pharmacy and Gatton College of Business and Economics, Dr. Mattingly dove directly into pharmacy practice for The Kroger Co. as an EPRN super trainer, facilitating the implementation of a new pharmacy information system software to more than 40 pharmacies. After completion of the pharmacy system rollout, Dr. Mattingly managed four different Kroger Pharmacy locations, revamping operations at each location to improve multiple business and patient care activities. He was promoted within Kroger to serve as a pharmacy coordinator in the Mid-South Division, overseeing operations for 12 pharmacies. In 2013, Dr. Mattingly left The Kroger Co. 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. He recently was named speaker-elect by the House of Delegates of the American Pharmacists Association.

410-706-8068 | jmattingly@rx.umaryland.edu

BRONWYN MAYDEN, MSW (SSW)
Executive Director, Promise Heights

From her early days as an advocate for adolescent and reproductive health and civil rights, to her current work as executive director of Promise Heights, an academic/community partnership in one of Baltimore’s neediest communities, Ms. Mayden is dedicated to improving the lives of young people, their families, and the communities they live in. Promise Heights is a cradle-to-college-to-career program in the West Baltimore neighborhoods of Upton and Druid Heights. Representatives of UMB’s six professional schools and Graduate School base their work in the four public schools there to reach students, families, and residents as they move through the pipeline of services and programs, many of them originated or coordinated by UMB.

410-706-2077 | bmayden@ssw.umaryland.edu
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 males and females 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, she continues to study the mechanisms by which sexually dimorphic structures are formed in the brain.

410-706-2655, 410-706-2654 (lab) | mmccarth@umaryland.edu

PAT MCLAINE, DRPH, MPH, RN (SON)
Assistant Professor

Dr. McLaine’s research focus has been on the impact of lead exposure on children and the evaluation of interventions to reduce exposure. She is the chair of Maryland’s Lead Poisoning Prevention Commission, and previously managed Maryland’s Lead Poisoning Prevention Program. She has been active in policy discussions and participated in the Center for Disease Control’s Educational Interventions for Lead-Exposed Children Workgroup that summarized the evidence of lead’s impact on educational outcomes and recommended actions to support appropriate education for children exposed to lead.

410-706-5868 | mclaine@umaryland.edu
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 both hospice and palliative care, as well as ambulatory care throughout her career. She teaches extensively in the Doctor of Pharmacy (PharmD) 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 also president of the American Society of Pain Educators. She has received many honors for her work, including the American Pharmacists Association 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 to Effective Dosing.

410-706-3682 | mmcphers@rx.umaryland.edu

VALLI MEEKS, DDS, MS, RDH (SOD)
Clinical Professor

UMB’s 2018 Public Servant of the Year, Dr. Meeks is director of the School of Dentistry’s PLUS Clinic, which has a focus on treating young people who are HIV-positive and in need of oral health services. Halfway around the world, Dr. Meeks supports a whole second vulnerable population, leading a collaboration that helped form the first school of dentistry in Rwanda. She has taught, helped form the curriculum, turned an orphanage into a dental education outreach center — and even worked with students and faculty in Baltimore to obtain donated dental equipment that she delivers to Rwanda. The project involves teaming with two nonprofit groups in Rwanda: Urukundo Learning Center and the Rwanda Village Concept Project (RVCP). The Urukundo Learning Center began as an orphanage for children displaced by the genocide of 1994 and now serves as an education program for children up to the age of 21. Urukundo Learning Center also provides the Baby and Mama Love House, where mothers can bond with their newborns after delivery. RVCP is a student-run organization by the students at the University of Rwanda College of Medicine and Health Sciences, comprised of around 150 students. RVCP works in rural villages to advance the health and well-being of Rwandans. UMB students conducted an oral health survey in the village of Huye where RVCP members were active. RVCP will use the survey results to inform the building of an oral health initiative to include as part of their work. The UMB students formed an active partnership with the RVCP and have been able to continue their collaborative work since their return to the U.S.

410-706-2291 | vmeeks@umaryland.edu
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 16 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 to facilitate 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.

410-706-5635 | mmeyer@ssw.umaryland.edu

SARAH MICHEL, PHD (SOP)

Professor, Department of Pharmaceutical Sciences
Associate Dean for Graduate Programs
Co-Director, Metallotherapeutics Research Center

Dr. Michel is a professor and associate dean for graduate programs at the School of Pharmacy. She is also director of the PhD and MS Program in the Department of Pharmaceutical Sciences and co-director of the Metallotherapeutics Research Center. Dr. Michel joined the School of Pharmacy in 2004, where her research focuses on investigating the role that metals such as iron, zinc, and copper play in the human body. Her research has increased understanding of how metals regulate proteins involved in chronic inflammation, cancer, and neurodegenerative diseases. She is also investigating whether metal ions and other potentially harmful toxins produced in e-cigarettes are toxic to cells in the oral cavity and the upper respiratory system. Her work is funded by the National Science Foundation, the U.S. 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.

410-706-5017 | smichel@rx.umaryland.edu
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 been teaching pediatric and neonatal pharmacotherapy to nursing and pharmacy students as well as medical residents. Dr. Morgan is the director for the PGY2 Pediatric Pharmacy Residency program. She is also a board-certified pharmacotherapy specialist. Dr. Morgan is involved with a number of student and professional organizations. She is the advisor for the University of Maryland School of Pharmacy Phi Lambda Sigma Chapter, Students Promoting Awareness, and the Pediatric Pharmacy Advocacy Group (PPAG) at UMB. She is a 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 on the national PPAG’s 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.

410-706-4332 | jmorgan@rx.umaryland.edu

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, various 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 is an infrastructure to support patient-centered outcomes research and related training activities. Dr. Mullins also is the director of the Community and Collaboration Core for UMB’s Institute for Clinical & Translational Research.

410-706-0879 | dmullins@rx.umaryland.edu
EUN-SHIM NAHM, PHD, RN, FAAN (SON)

Professor and Program 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 and their caregivers in their care and to promote self-management. She has conducted various 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 are investigating the effects of a theory-based patient portal eLearning program on selected health-related outcomes in older adults with chronic illnesses. Additionally, she has published more than 65 peer-reviewed journal articles and five book chapters in her area of expertise, and has given numerous presentations at regional, national, and international scientific conferences.

410-706-4913 | enahm@umaryland.edu

KATHLEEN M. NEUZIL, MD, MPH, FIDSA (SOM)

Professor, Department of Pediatrics  
Director, Center for Vaccine Development  
Deputy Director, Institute for 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. She is director of the Center for Vaccine Development and deputy director of the School of Medicine’s groundbreaking new Institute for Global Health. Dr. Neuzil has extensive experience with vaccine research, policy and introduction, directing 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, her work has 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 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.

410-706-4946 | kneuzil@medicine.umaryland.edu
YOLANDA OGBOLU, PHD, CRNP-NEONATAL (SON)
Director, Office of Global Health
Chair, Department of Partnerships, Professional Education, and Practice
Assistant Professor

Dr. Ogbolu has expertise in developing cultural competency among health professionals and organizations. In addition, she has a focus on maternal newborn child disparities nationally and internationally. She is experienced in building nurse capacity globally through partnerships with nursing universities.

410-706-3685 | ogbolu@umaryland.edu

AMANDA OGLESBY-SHERROUSE, PHD (SOP/SOM)
Associate Professor, Department of Pharmaceutical Sciences, School of Pharmacy
Associate Professor, Department of Microbiology and Immunology, School of Medicine

Dr. Oglesby-Sherrouse 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. Following her graduate training, her postdoctoral studies at the University of Colorado School of Medicine focused on iron and sRNA regulation in *Pseudomonas aeruginosa*. Since joining the faculty at the University of Maryland, Baltimore in 2012, 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.

410-706-8650 | aoglesby@rx.umaryland.edu

LYNN OSWALD, PHD, RN (SON)
Associate Professor

Dr. Oswald is involved in a multidisciplinary study that includes investigators from the University of Maryland schools of nursing and medicine and the Johns Hopkins University School of Medicine. This research explores neural mechanisms that may explain associations among impulsive personality traits, chronic stress, and risk for drug abuse in humans.

410-706-0928 | oswald@son.umaryland.edu
JENNY OWENS, SCD, MS (GS)
Faculty Executive Director, The Grid

Dr. Owens has a decade of experience in higher education administration and is the faculty executive director of the Graduate Research Innovation District (the Grid). The Grid is an innovation hub designed to support entrepreneurial ventures through education, early-stage funding, and programming. It’s a place where students, entrepreneurs, faculty, and staff connect to bring innovative health and social impact ideas to life. Dr. Owens is a social entrepreneur and has expertise in innovation and entrepreneurship, human-centered design, and design thinking.

410-706-4412 | jowens@umaryland.edu

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

UMB’s 2019 Educator of the Year, Dr. Palumbo is a member of the Maryland and District of Columbia bars and a licensed pharmacist. He has practiced both pharmacy and law. As an adjunct professor at the Carey School of 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. Dr. Palumbo has been the principal investigator on major federal research grants and he served as a member of a National Institutes of Health study section for more than four years. In addition to law, he maintains a strong interest in public policy, pharmacoconomics, 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 very 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 BS 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, pharmaceutical health services research, drug utilization and quality, and economics and epidemiology.

410-706-0133 | fpalumbo@rx.umaryland.edu
MICHAEL PAPPAS, JD, MA (SOL)
Associate Professor
Associate Dean for Faculty Research and Development

In his research Professor Pappas concentrates 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 serves 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.

410-706-7456 | mpappas@law.umaryland.edu

FRANK PASQUALE, JD, MPHIL (SOL)
Professor

Professor Pasquale is an expert on the law of big data, predictive analytics, artificial intelligence, and algorithms at the Francis King Carey School of Law. He has advised business and government leaders in the health care, internet, and finance industries, including the U.S. Department of Health and Human Services (HHS), the U.S. House Judiciary Committee, the Federal Trade Commission (FTC), and the European Commission. Routinely quoted in top global media outlets, including the Financial Times, The New York Times, and The Economist, he is the author of The Black Box Society (Harvard University Press, 2015) and a member of the Council on Big Data, Ethics, & Society. He has testified before the U.S. House Judiciary Committee and participated in panels at an HHS/FTC roundtable and the National Academy of Sciences.

410-706-4820 | fpasquale@law.umaryland.edu
MICHELLE J. PEARCE, PHD (GS)
Program Director, Integrative Health and Wellness; Aging and Applied Thanatology; and Science Communication

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

410-706-6164 | mpearce@umaryland.edu

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

Professor Percival heads the Francis King Carey School of Law’s nationally recognized Environmental Law Program. A leading scholar in the emerging field of international environmental law, Professor Percival is a sought-after analyst of 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, he served as senior attorney for the Environmental Defense Fund.

410-706-8030 | rpercival@law.umaryland.edu
MICHAEL PINARD, JD (SOL)
Professor and Co-Director, Clinical Law Program

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

410-706-4121 | mpinard@law.umaryland.edu

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

As chair of the Department of Orthopaedics, 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’s Shock Trauma Center and Medical Center to improve recovery after femoral shaft fractures and spinal injuries. Dr. Pollak was instrumental in developing the University of Maryland Center for Sports Medicine, Health and Human Performance, which brings together the scientific expertise of the University of Maryland, College Park with the clinical and research capabilities of the University of Maryland, Baltimore’s professional schools to focus on traumatic brain injury and other sports medicine issues. He was associate team physician for the Baltimore Ravens and continues to serve as a consulting orthopaedic surgeon for the 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.

410-328-6280 | apollak@umoa.umm.edu
JAMES E. POLLI, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Ralph F. Shangraw/Noxell Endowed Chair in Industrial Pharmacy and Pharmaceutics
Co-Director, Maryland Center of Excellence in Regulatory Science and Innovation

In addition to his duties in the Department of Pharmaceutical Sciences, Dr. Polli is co-director of the University of Maryland’s Center of Excellence in Regulatory Science and Innovation. He received a BS in pharmacy from the Philadelphia College of Pharmacy and Science and a PhD (pharmaceutics) from the University of Michigan. Dr. Polli’s research interests evolve around the performance and pharmaceutical quality of orally administered medicines. His two main research interests are 1) maximizing oral bioavailability through formulation and chemical approaches and 2) 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 USP 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.

410-706-8292 | jpolli@rx.umaryland.edu

NATALIE RAM, JD, AB (SOL)
Associate Professor

Professor Ram joined the Maryland Carey Law faculty in 2019. She 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, and Northwestern Law Review, and in 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, U.S. Court of Appeals for the 2nd Circuit, and for Associate Justice Stephen G. Breyer, U.S. Supreme Court. Subsequently, she 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 was also associate director of the Center for Law and Medicine. She earned her JD at Yale Law School and AB 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 been quoted in The Wall Street Journal, The Washington Post, and BuzzFeed News. She also has written several op-eds for Slate.

410-706-5241 | nram@law.umaryland.edu
E. ALBERT REECE, MD, PHD, MBA (SOM)
Executive Vice President for Medical Affairs, UMB
John Z. and Akiko K. Bowers Distinguished Professor and Dean, 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, and 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 $542 million in total research funding. Dean Reece has published extensively in the scientific literature: 12 books including revisions; five monographs; and more than 500 articles, chapters, and abstracts. He recently served as chair of the Council of Deans of the Association of American Medical Colleges. He 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 & 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 Distinguished Leadership Award in 2015 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 is also a highly regarded scientist who maintains his own laboratory studying diabetes in pregnancy, birth defects, and prenatal diagnosis.

410-706-7410 | deanmed@som.umaryland.edu
BRENT N. REED, PHARMD, BCPS-AQ CARDIOLOGY, FAHA (SOP)
Associate Professor, Department of Pharmacy Practice and Science

In addition to his duties in the Department of Pharmacy Practice and Science, Dr. Reed is a clinical pharmacy specialist at the University of Maryland Medical Center in Baltimore, where he practices in the areas of heart failure and advanced cardiovascular therapies. He also serves as director for the University of Maryland Cardiology Pharmacy Residency Program. Dr. Reed's practice and research interests include cardiovascular critical care, advanced heart failure, cardiac transplantation, and mechanical circulatory support. He is a fellow of the American Heart Association and a former member of its Council of Clinical Cardiology Clinical Pharmacology Committee. He is also a former trustee of the American Pharmacists Association (APhA), national president for the APhA Academy of Student Pharmacists, and chair for the APhA New Practitioner Advisory Committee. Dr. Reed writes for *The Unit*, a blog featuring perspectives on cardiology practice, health care, and the profession of pharmacy, and regularly contributes to the collaborative blog *HeartMeds*. Dr. Reed received a Bachelor of Science degree in biology from the University of Tennessee in Knoxville, and his Doctor of Pharmacy degree from the University of Tennessee College of Pharmacy in Memphis. He completed both a pharmacy practice residency and cardiology specialty residency at the University of North Carolina Hospitals in Chapel Hill. He is a board-certified pharmacotherapy specialist with added qualifications in cardiology.

410-706-1452 | breed@rx.umaryland.edu
WILLIAM F. REGINE, MD, FACR, FACRO (SOM)
Isadore & Fannie Schneider Foxman Professor and Chair, Department of Radiation Oncology
Executive Director, Maryland Proton Treatment Center

Dr. Regine, ranked in the Top 5 in the country 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. As executive director of the Maryland Proton Treatment Center, he leads the first and most advanced facility of its kind in the Baltimore-Washington, D.C. 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 in 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 the 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 is also co-inventor of the first of its kind treatment device completely dedicated to the stereotactic radiation treatment of early-stage breast cancer, known as the GammaPod.

410-328-2326 | wregine@umm.edu

BARBARA RESNICK, PHD, RN, CRNP, FAAN, FAANP (SON)
Sonia Ziporkin Gershowitz Chair in Gerontology/Professor

An internationally recognized expert in gerontology, Dr. Resnick focuses on developing innovative interventions to increase functional status in elderly patients and implementing them in real-world settings. These interventions are designed to optimize recovery, health, function, and physical activity regardless of age or underlying co-morbidities. For example, by helping patients regain mobility after hip fracture or through assisting dementia patients in acquiring the ability to feed themselves.

410-706-5178 | resnick@umaryland.edu
MARK A. REYNOLDS, DDS, PHD, MA (SOD)
Dean and Professor

Dean Reynolds is a 1986 graduate of the University of Maryland School of Dentistry (UMSOD) and a 1999 graduate of the University’s Graduate School. He joined the UMSOD faculty in 1996 as an assistant professor in the Department of Oral and Maxillofacial Pathology, with a secondary appointment in Periodontics. In 2001, he was appointed director of the Advanced Dental Education Program in Periodontics, and in 2005, he was selected to chair the Department of Periodontics. In 2009, he became a professor of periodontics. Dr. Reynolds was named interim dean in 2013, and dean in 2014, following a national search. A distinguished academic dentist, Dr. Reynolds has published more than 150 peer-reviewed articles and sits on the editorial boards of the journal *Clinical Advances in Periodontics*, the *International Journal of Periodontics and Restorative Dentistry*, the *Journal of Evidence-Based Dental Practice*, the *Journal of the Indian Dental Society of Periodontology*, and the *Journal of Periodontal Research*, and he serves on the peer review panel of the *Journal of Periodontology*. He has been part of committees for organizations such as the American Academy of Periodontology and the National Science Foundation. He served as a director of the American Board of Periodontology from 2010 to 2016 and was co-chair of the board from 2015 to 2016. Dr. Reynolds has participated in more than 20 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. In 2017, he was appointed 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 currently chairs. Dr. Reynolds began his ongoing record of NIH funding in 1992 when he earned a competitive five-year NIH Individual Dentist Scientist Award to support his residency and his PhD studies. His research focuses on bone and periodontal regeneration. In 2004 and 2016, Dr. Reynolds was recipient of the American Academy of Periodontology R. Earl Robinson Periodontal Regeneration Award. Dr. Reynolds earned his PhD in oral and experimental pathology from the University of Maryland Graduate School in 1999. In 1995, he earned a certificate in periodontics from the University of Maryland School of Dentistry, 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.

410-706-7461 | mreynolds@umaryland.edu
CHARMAINE D. ROCHESTER-EYEGUOKAN, PHARMD (SOP)
Professor, Department of Pharmacy Practice and Science

Dr. Rochester-Eyeguokan graduated from Howard University College of Pharmacy in May 1996 and subsequently received her Pharmacy Practice Residency (PGY1) training at the Medical University of South Carolina in June 1997 and her postgraduate Year 2 (PGY2) Primary Care Residency at the University of Mississippi Medical Center in July 1998. She is the clinical director of the 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 commissioner to the Maryland State Board of Pharmacy “At Large” for a four-year term from 2013 to 2017.

410-706-4336 | crochest@rx.umaryland.edu

MAGALY RODRIGUEZ DE BITTNER, PHARMD, BCPS, CDE, FAPHA (SOP)
Professor, Department of Pharmacy Practice and Science
Associate Dean for Clinical Services and Practice Transformation
Executive Director, Center for Innovative Pharmacy Solutions

In addition to her other 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 — and executive director of the school’s Center for Innovative Pharmacy Solutions. 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.

410-706-4146 | mrodrigu@rx.umaryland.edu
VIRGINIA ROWTHORN, JD, LLM (GS, SOL)
Executive Director, UMB Center for Global Education Initiatives

Ms. Rowthorn is executive director of the UMB Center for Global Education Initiatives, senior lecturer in the Graduate School, and an adjunct professor in the Law and Health Care Program at the Francis King Carey School of Law. In her role as executive director, she manages the interprofessional activities of the Universitywide center that focus on community-engaged research and service projects in international and U.S. settings. She was managing director of the Law and Health Care Program for 10 years and served as co-director of the Center for Global Education Initiatives for three years before becoming executive director. Ms. Rowthorn teaches the Health Law Practice Workshop at the law school and Global Health Law for the UMB Graduate School. She has led national workshops and written articles and book chapters on legal barriers to reverse innovation and bi-directional learning as well as on topics relating to global education such as competencies, service learning, and program development. Ms. Rowthorn is on the Board of the Consortium of Universities for Global Health. Before joining Maryland Carey Law in 2006, she was an attorney in the Legislative Division of the Office of General Counsel at the U.S. Department of Health and Human Services and an associate at the law firm of DLA Piper. In addition, Ms. Rowthorn spent several years as a legislative assistant for the Senate Veterans Affairs Committee and two years as a health educator in the Marshall Islands as a Peace Corps volunteer. She is an honors graduate of Maryland Carey Law and completed her LLM in global health law at Georgetown Law Center.

410-706-3098 | virginia.rowthorn@umaryland.edu
THOMAS M. SCALEA, MD, FACS, MCCM (SOM)
Professor of Surgery, Francis X. Kelly Professorship in Trauma Surgery
Physician-in-Chief, R Adams Cowley Shock Trauma Center

Dr. Scalea is one of the foremost authorities in the world 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 now 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 now 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 a 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.

410-328-8976 | tscalea@umm.edu

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

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 at the University of Maryland, Baltimore County in 2017. Dr. Sera is an assistant professor in the Department of Pharmacy Practice and Science. Her clinical specialties are pain management and palliative care. Dr. Sera is the program director for the nation’s first MS in Medical Cannabis Science and Therapeutics program at the School of Pharmacy. 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 students in the PharmD program 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.

301-738-6347 | lsera@rx.umaryland.edu
WENDY SHAIA, MSW, EDD (SSW)
Executive Director, Social Work Community Outreach Service

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

410-706-5130 | wshaia@ssw.umaryland.edu

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

Dr. Shapiro received his Bachelor of Science 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. 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.

410-706-8522 | pshapiro@rx.umaryland.edu
FADIA SHAYA, PHD, MPH (SOP)
Professor and Vice Chair for Academic Affairs
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, and tracks 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.

410-706-5392 | fshaya@rx.umaryland.edu

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 involvement of stakeholders in the court process. She also is a leading voice on U.S. child care policy, speaking in academic venues and the media on the struggles faced both by families and providers and the range of early education and child care policy responses to address them.

410-706-7544 | cshdaimah@ssw.umaryland.edu
ALAN R. SHULDINER, MD (SOM)
John L. Whitehurst Endowed Professorship
Director, Program in 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 how a given patient will respond to or be at risk for adverse side effects of medications. He is best known for his studies involving Old Order Amish, a homogeneous population ideal for genetic studies. As director of the School of Medicine’s Personalized and Genomic Medicine program, Dr. Shuldiner leads a large multidisciplinary research team that uses state-of-the-art molecular genetic statistical and epidemiological methods.

410-706-1623 | ashuldin@som.umaryland.edu

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

Professor Stearns is Venable, Baetjer & Howard Professor of Law at the Francis King Carey School of Law. An interdisciplinary scholar, he 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 4th Circuit, and practiced in the litigation department of firms in Boston and Philadelphia.

410-706-3942 | mstearns@law.umaryland.edu
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 *Why Not Jail? Industrial Catastrophes, Corporate Malfeasance, and Government* (Cambridge, 2014), 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, and served as an attorney advisor at the Federal Trade Commission, and as counsel to the House Subcommittee on Commerce, Transportation, and Tourism.

410-706-0564 | rsteinzor@law.umaryland.edu

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 local 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’s Center for Sports Medicine, Health and Human Performance.

410-328-2580 | dstewart@som.umaryland.edu
PETER SWAAN, PHD (SOP)
Professor, 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 University of Maryland 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 to 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 for the journal Pharmaceutical Research, and is an associate editor for the journal Drug Metabolism and Disposition.

410-706-0103 | pswaan@rx.umaryland.edu

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 fast, innovative new treatments for depression and other diseases. He is currently 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, on 15 of which he served as primary author. He has received several major awards for his outstanding research and is invited to lecture nationally and internationally.

410-706-5817, 410-706-2662 (lab) | sthom003@umaryland.edu
NORMAN TINANOFF, DDS, MS (SOD)
Professor, Department of Pediatric Dentistry

Dr. Tinanoff earned his dental degree from UMB in 1971. After receiving his certificate and master’s degree in pediatric dentistry at the University of Iowa, he spent another year at the Veterans Affairs Hospital in Iowa City in a research fellowship. Dr. Tinanoff’s two-year military service was at the Army Institute of Dental Research at Walter Reed Army Medical Center. For 23 years, he was at the University of Connecticut Health Center, where he was director of the Pediatric Dentistry Graduate Program for 16 years. In 1999, he became chair of the Department of Pediatric Dentistry at the University of Maryland School of Dentistry. Dr. Tinanoff has authored or co-authored over 160 publications, primarily on fluoride mechanisms, antimicrobials, caries risk factors, early childhood caries and prevention. His recent books/monographs include: “The Oral Cavity” in Nelson Textbook of Pediatrics and “Use of Fluorides” in Early Childhood Oral Health. His current interests are concerned with preventing dental caries (tooth decay) and oral health access for underserved child populations. In 2015, Dr. Tinanoff was named UMB’s Public Servant of the Year for improving the lives of children in Maryland and beyond for the past 40 years. When he joined the School of Dentistry as chair of the Department of Pediatric Dentistry in 1999, access to oral health care services for Maryland’s poor children was the worst in the country, with state support of $3 million for the Medicaid dental program, and only 18 percent of children in this program having at least one dental visit per year. In the next 16 years, Dr. Tinanoff and other health advocates developed legislation, advocated for, and testified on nine bills that were eventually passed to improve access to oral health care. Today the budget is $151 million with over 68 percent of Maryland Medicaid children receiving an annual dental visit — one of the highest access rates in the country.

410-706-7970 | ntinanoff@umaryland.edu

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

Dean of the Francis King Carey School of Law, he is recognized as one of the nation’s leading authorities on the intersection of tax and campaign finance laws. Dean Tobin 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 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.

410-706-2041 | dtobin@law.umaryland.edu
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 concentrated on cancer disparities, with an emphasis on cervical cancer prevention in underserved groups of women. Her research focuses on two target populations of underserved women: women from developing countries and lesbians. As part of cultivating this line of research, she recently 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 University of Maryland 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.

410-706-1205 | ktracy@epi.umaryland.edu

ALISON TRINKOFF, SCD, RN, FAAN (SON)
Professor

Dr. Trinkoff’s longitudinal study of more than 2,600 RNs examined the relationship between long work hours, needlestick injuries, and musculoskeletal disorders. More recently, her research focuses 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.

410-706-6549 | trinkoff@umaryland.edu
JAMES TROVATO, PHARMD, MBA, BCOP, FASHP (SOP)

Associate Professor and Vice Chair for Academic Affairs, Department of Pharmacy Practice and Science

Dr. Trovato, an oncology specialist, completed a BS in pharmacy at the Massachusetts College of Pharmacy, a Doctor of Pharmacy at Purdue University, and an ASHP-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 University of Maryland 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 prevention and management of complications related to chemotherapy or malignant disease in patients with cancer.

410-706-2751 | jtrovato@rx.umaryland.edu

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, 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 quality of life for cancer patients. He also has been named director of the Maryland Proton Alliance, a collaborative venture with the University of Maryland School of Medicine that integrates research, education, and patient care at the Maryland Proton Treatment Center.

410-706-5139 | zvujaskovic@som.umaryland.edu
HONGBING WANG, PHD (SOP)
Professor and Program Chair, Experimental and Translational Therapeutics, Department of Pharmaceutical Sciences

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-drug interactions. Dr. Wang joined the school in 2006 after receiving his doctorate in toxicology from Fudan University in Shanghai, China, and working at the University of North Carolina Eshelman School of Pharmacy. He currently serves as program chair for Experimental and Translational Therapeutics in his department, 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.

410-706-1280 | hwang@rx.umaryland.edu
Dr. Ward rose to interim executive vice president and provost, and dean of the Graduate School in January 2020 when Bruce Jarrell, MD, FACS, became interim president at the University of Maryland, Baltimore (UMB). It was the latest in numerous upward moves by Dr. Ward at UMB. He was promoted to senior vice president for operations and institutional effectiveness in January 2018. In that role, he served as UMB’s chief operating officer, directing a portfolio of 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 had responsibility for building an array of 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 City 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 two law degrees: a Doctor of Law degree from New York Law School, and a Master of Science in Law (cybersecurity law) from the Francis King Carey School of Law at UMB. Dr. Ward also holds a Doctor of Education degree (with distinction) in higher education management from the University of Pennsylvania. Dr. Ward 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.

410-706-1850 | rward@umaryland.edu
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, in addition to her research, she was co-director of a doctoral training program sponsored by NIAAA. As a policy and health services researcher, Dr. Wastila 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’s current portfolio 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.

410-706-4352 | lsimoniw@rx.umaryland.edu

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 in the treatment of opioid dependence with medication-assisted treatment and has helped develop innovative programs.

410-328-6690 | eweitra@som.umaryland.edu
CHRISTOPHER WELSH, MD (SOM)
Associate Professor, Department of Psychiatry
Medical Director, UMMC Substance Abuse Consultation Service
Medical Director, UMMC Comprehensive Recovery Program

As director of the Maryland Center of Excellence on Problem Gambling, Dr. Welsh specializes in the areas of addiction and dual diagnosis, working directly in various inpatient and outpatient settings. He is currently studying 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).

410-328-3716 | cwelsh@psych.umaryland.edu

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

Dr. White has overseen the annotation of hundreds of genomes sequenced using computer analyses such as pairwise searches, multiple sequence alignments, and numerous other methods in combination with systematic manual evaluation. This administration of analysis has served to generate highly uniform annotation that includes the genomes for Arabidopsis, the mosquito Aedes aegypti, parasitic organisms such as Trypanosoma Brucei and Plasmodium falciparum, human ESTs and many Bacterial and Archaeal species. He also has developed automated annotation systems such as TIGRFams, Genome Properties, as well as the Annotation Engine.

410-706-6751 | owhite@som.umaryland.edu
ANGELA WILKS, PHD (SOP)

Isaac E. Emerson Professor and Program Chair, Chemical and Biological Discovery
Co-Director, Metallotherapeutics Research Center
Department of Pharmaceutical Sciences

Dr. Wilks received her BSc 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. Following 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 University of Maryland School of Pharmacy, where she now holds a position as professor and chair. Her research interests focus on mechanisms by which bacterial pathogens acquire and utilize heme as an iron source. Dr. Wilks’ research spans across disciplines employing bacterial genetics, 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.

410-706-2537 | awilks@rx.umaryland.edu

GRAEME F. WOODWORTH, MD, FAANS, FACS (SOM)

Professor and Interim Chair, Department of Neurosurgery
Director, Brain Tumor Treatment and Research Center

Dr. Woodworth serves as interim chair of the Department of Neurosurgery. He is also director of the Brain Tumor Treatment and Research Center at the School of Medicine, where he 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 patho-biology 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.

410-328-6148 | gwoodworth@som.umaryland.edu
BRUCE YU, PHD (SOP)
Professor, Department of Pharmaceutical Sciences
Director, Bio- and Nano-technology Center

Dr. Yu received a BS in biochemistry from Peking University and PhD in biophysics from Johns Hopkins University. His postdoctoral training was in NMR spectroscopy at SUNY Buffalo and in peptide chemistry at the University of Alberta. 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 non-invasive analytical technologies. In his independent research career at the University of Utah and at the University of Maryland, 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 multi-color F-19 MRI and advanced MRI technology to evaluate the mechanical properties of soft materials and biological tissues. In biomaterials engineering, he 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 the Yu lab involves regulatory science for biologics and nano-drugs, particularly nondestructive analytical technologies are being developed for pharmaceutical solutions of drug substances and drug products and for product inspection, using a variety of physicochemical techniques.

410-706-7514 | byu@rx.umaryland.edu
UMB DIVERSITY, INCLUSION, AND EQUITY

The following are among the leaders of UMB’s commitment to diversity, inclusion, and equity — one of the University’s Core Values.

PATTY ALVAREZ, PHD, MS
Assistant Vice President of Student Affairs

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, diversity strategic planning efforts designed to positively influence the campus climate for diversity, supported the academic success of racially and ethnically under-represented 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 earned a PhD in college student personnel from the University of Maryland, College Park. Her 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 in Bloomington.

410-706-5433 | palvarez@umaryland.edu
GREGORY BRIGHTBILL, MED, MBA
Leadership Education and Involvement Program Specialist

Mr. Brightbill works in the Department of Interprofessional Student Learning & Service Initiatives. 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 lesbian, gay, bisexual, and transgender (LGBT) individuals. Mr. Brightbill also has experience related to implementing LGBT+ inclusive practices on college campuses and supporting underserved student populations. Outside of UMB, Mr. Brightbill works as an LGBT+ education consultant for his company, Bright Baltimore LLC, and is a board member for the Maryland Chapter of GLSEN, which is a nonprofit advocacy and education group for LGBT K-12 students. Mr. Brightbill holds a Bachelor of Science in psychology from Frostburg State University, a Master of Education in college student personnel administration from James Madison University, a Master of Business Administration from the University of Maryland University College, and is pursuing a Doctorate of Educational Leadership in higher education administration from Frostburg State.

410-706-1478 | gbrightbill@umaryland.edu

COURTNEY J. JONES CARNEY, MBA
Director, Interprofessional Student Learning & Service Initiatives

Ms. Jones Carney directs center student affairs in the Department of Interprofessional Student Learning & Service Initiatives. Her department focuses on leadership, diversity, and inclusion. She continues to hold a leadership role in administering, analyzing, and sharing the findings of the UMB student climate for diversity survey. Ms. Jones Carney co-created the Intercultural Leadership post-baccalaureate certificate at the UMB Graduate School. She serves as program director for this certificate program and created and teaches the course Historical Exploration of Race in the U.S. This certificate program challenges students 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 this country. This program aims to better prepare graduates to serve their clients and patients in a culturally responsive manner. Ms. Jones Carney’s areas of expertise include impact of microaggressions, coded language, and institutional practices on organizational culture, intercultural development, and employee engagement.

410-706-2632 | courtney.carney@umaryland.edu
BILL JOYNER, LMSW, MSW

Senior Economic Inclusion Specialist

Mr. Joyner promotes economic opportunity for marginalized communities as a senior economic inclusion specialist in the Office of Community Engagement. His primary role is to use UMB’s purchasing power to attract, support, and retain small businesses that serve and employ West Baltimore residents. Mr. Joyner manages the Community Merchant Access Program, the UMB/UMMC Local Purchasing Committee, a youth employment program for West Baltimore teenagers, and other engagement projects focused in West Baltimore. He also addresses housing affordability and equity issues on the UMB Live Near Your Work steering committee, and co-chairs the UMB Institutional Equity Workgroup as a member of the President’s Diversity Advisory Council. Mr. Joyner is a 2014 graduate of the University of Maryland School of Social Work and a current student at the University of Maryland Francis King Carey School of Law. He is an alumnus of the Baltimore City Mayoral Fellowship program, where he developed strategies for creating a more robust and inclusive resource network for Baltimore’s small business community. Mr. Joyner’s areas of expertise include community development, community engagement, community organizing, economic opportunity, and institutional equity analysis.

410-706-4513 | wjoyner@umaryland.edu

EBONY NICHOLSON, MSW

Diversity, Inclusion, and Leadership Program Specialist

Ms. Nicholson is a macro social worker focused on the intersection of socio-economic status; racial, ethnic, and cultural identity; and professional identity. She creates and facilitates training curricula and programs that specifically address topics such as privilege, bias, allyship, anti-racism, and identity-affirming professional climate. She co-developed the Intercultural Leadership post-baccalaureate certificate program for the UMB Graduate School and currently serves as adjunct faculty and teaches the course Historical Exploration of Culture in the U.S.

410-706-7494 | ebony.nicholson@umaryland.edu
SANDRA M. QUEZADA, MD, MS  
*Associate Dean for Medical School Admissions and Assistant Dean for Academic and Multicultural Affairs*

Dr. Quezada is passionate about equity, inclusion, and diversity 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 to impact the climate in which future and current physicians train and practice. As co-chair of the SOM Diversity Advisory Council, Dr. Quezada spearheaded the development of an Equitable Faculty Search Policy, and established an unconscious bias training initiative for SOM 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 the SOM 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 the UMB Diversity Advisory Council and the University System of Maryland Inclusion and Diversity Council. She also serves as course director of the SOM 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 and serves as chair of the Diversity Committee of the American Gastroenterological Association, and as a member of the Diversity and Inclusion Task Force for the Crohn’s & Colitis Foundation’s National Scientific Advisory Committee.

410-706-3387 | squezada@medicine.umaryland.edu
UMB
RESEARCH CENTERS

INTERPROFESSIONAL RESEARCH CENTERS

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 lastly, policy analysis development and education.

Center for Global Education Initiatives
In partnership with communities here and abroad, the University of Maryland, Baltimore Center for Global Education Initiatives addresses global challenges by developing experiential learning opportunities and interprofessional solutions with creative faculty scholarship, curricular innovation, and educational programs. Our vision is a borderless world where communities collaborate toward better health for all. Global is local and local is global.

Center for Interprofessional Education
The Center for Interprofessional Education, launched in 2013, advances UMB’s vision for preparing its students to provide high-quality, affordable health care and human services within a team-based model. Our 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. The center is a national leader in providing interprofessional education that is grounded in best practices for educational innovation and assessment.

Center of Excellence in Regulatory Science and Innovation (M-CERSI)
The University of Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI) is funded by the U.S. Food and Drug Administration (FDA). The center 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 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, including 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, industrial consortia, and FDA scientists.

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 G. Dorsey, PhD, RN, FAAN) and the School of Dentistry (Joel D. Greenspan, 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. Together, 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 January 2019 with funding provided by the Governor’s Office of Crime Control & Prevention. Administered by the Carey School of Law, the ROAR Center engages with individuals and communities in Baltimore City by providing holistic, client-driven services to survivors of crime and influencing efforts to reform systemic responses to crime. The ROAR Center is a “one-stop shop” in Baltimore City where victims of crime can access wraparound services, which 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** between the University of Maryland, Baltimore and the University of Maryland, College Park. This program provides direct services for 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 all 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, onsite bilingual legal immigration services are provided through its immigration attorney. Partners at the University of Maryland 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 onsite, 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 onsite.

**FRANCIS KING CAREY SCHOOL OF LAW**

**Center for Dispute Resolution (C-DRUM)**
The Center for Dispute Resolution (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 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. Jablo, a new 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 to communicate with others and effectively deal with conflict professionally and personally. C-DRUM offers a wide variety of trainings and can tailor the training to fit the unique needs or your organization or group. Types of training offered: mediation training, facilitation training, 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 sector 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.

Legal Resource Center (LRC) for Public Health Policy
The Legal Resource Center for Public Health Policy (LRC) provides pro bono technical legal assistance on a wide range of public health issues, including tobacco regulation, injury prevention, and reduction of obesity and hypertension. Established in 2001, LRC offers legal guidance to state and local governments, legislators, non-governmental 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. In addition, LRC 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 the University of Maryland, College Park, and the University of Maryland Carey School of Law in Baltimore. In addition to offering academic courses for law students at the law school, the center also 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 University of Maryland School of Medicine at UMB and the Fischell Department of Bioengineering at the Clark School of Engineering, University of Maryland, College Park. BioMET brings together basic biomedical researchers with engineers to develop new strategies and new devices to enhance our ability to treat diseases. BioMET faculty address fundamental questions in bioengineering, and optical biology, sensing, neurobiology, genetics, cardiovascular diseases, cellular signaling, and protein structure. Scientific effort centers 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 (MRI), 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, CBT is composed of faculty from UMB (including the schools of medicine and pharmacy), UMCP, the University of Maryland, Baltimore County, the IBBR, and several other universities within the University System of Maryland (USM). CBT’s mission is to facilitate the identification and development of diagnostics and therapeutics. To accomplish this goal, CBT: (a) collaborates with research and clinical faculty across all USM institutions to identify important biological targets; (b) 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; (c) 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; (d) manages state-of-the-art scientific discipline-based programs necessary for the discovery and regulation of disease targets.

Center for Integrative Medicine (CIM)
The Center for Integrative Medicine (CIM) at the University of Maryland School of Medicine was the first academic integrative medicine center in the U.S. With a track record of over $37 million in government-funded grants, more than 625 peer-reviewed publications and abstracts, and collaborators in more than 100 different 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 meditation and nutrition for urban teens, adjuvant therapies for trauma patients, food gardens for staff and patient morale, how families cope with death, and more. The center also coordinates the Cochrane Complementary Medicine Field, an NIH-funded program that evaluates worldwide literature on complementary and alternative therapies.

Center for Research on Aging in Gerontology
The goal of the organized research center is to enhance involvement and collaboration among faculty at UMB’s six professional 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 (GGEAR) 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 nearly $62 million in 2017. The center was established under the leadership of Andrew P. Goldberg, MD, and Jay S. Magaziner, PhD, MSHyg. Dr. Magaziner assumed sole leadership of the center in 2015 when Dr. Goldberg retired. Dr. Magaziner has successfully expanded membership to 134 affiliates, including 20 leaders from all of UMB’s schools and the University System of Maryland.
Center for Shock, Trauma, and Anesthesiology Research
The 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 University of Maryland 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 Department of Anesthesiology and the Program in Trauma. Many of the researchers working in the new research center are doctors who care for trauma patients at the University of Maryland 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 I. 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 mission of the center is to discover new treatments and preventive approaches, based on stem cell technology, for important, 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, as we all begin life as a stem cell, 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 insights into how the human body is made. Stem cell research also holds amazing potential for restructuring the way we practice medicine: One day, stem cells may be used to replace or repair damaged tissues and organs and to 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 the state of Maryland. To fulfill its mission with specificity, the center has established a set of four scientific working groups for focused research, educational, and clinical interactions. The center is also 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)
Its faculty and staff are experts in the field of global health and vaccinology, and they are 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. For more than 40 years, researchers in the Center for Vaccine Development and Global Health (CVD) at the School of Medicine in Baltimore 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)
Officially formed July 1, 2005, the overall mission of the Center for Vascular and Inflammatory Diseases (CVID) is to promote research at UMB that advances knowledge of vascular and inflammatory diseases, to interface with clinicians, and to promote translation of the basic discoveries into novel
therapeutic applications that will ultimately improve the health of patients. The long-term vision of CVID is to establish and maintain a center of excellence and international recognition 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 will be 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. Research at the center focuses on integrating molecular and cell biology with applied and clinical sciences.

Greenebaum Comprehensive Cancer Center
The University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center (UMGCCC) is a joint program of the University of Maryland School of Medicine and the University of Maryland Medical System. In 2008, UMGCCC was named a National Cancer Institute-designated cancer center, one of only 64 such centers in the country. UMGCCC also is ranked among the nation’s 50 top cancer centers by U.S. News & World Report. UMGCCC has substantial NIH funding. The center 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. In FY 2008, 1,030 patients were accrued to clinical trials across UMGCCC and its affiliates. African-Americans represent more than 40 percent of its patients, and nearly half of them take part in clinical trials at our cancer center. The center also 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 May 2007, the Institute for Genome Sciences is part of the University of Maryland School of Medicine and is 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 M. Fraser, PhD, a pre-eminent genome scientist and microbiologist, and a team of investigators who have been working on the cutting edge of genomic research for the past 15 years. Members of the IGS team have helped 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, for understanding the role of our bodies’ microorganisms in health and disease, and for exploring new personalized therapeutics. IGS investigators also are leading the development of the new field of microbial forensics. In the years since IGS was created, the institute has become a leading center for major biological initiatives currently underway including the NIH-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) is the first center in the United States — perhaps the world — 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 cause of 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 University of Maryland 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 the 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 (CDC) and formerly associate director of the 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 and our nation’s HIV/AIDS pandemic. 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 70 faculty whose research efforts are focused in 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 University of Maryland School of Medicine (UMSOM) Organized Research Center, which resides in the UMSOM Department of Psychiatry and operates as a joint program between UMSOM 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. Our 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 Dr. Cowley, 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 University of Maryland School of Medicine represents 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 will provide 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 Outcomes Research (CHOR)**

The Center for Health Outcomes Research (CHOR) improves health outcomes of people and systems of care and provides numerous activities to support its researchers in training, service, and discovery. The center’s vision is to become a thriving interprofessional group of scientists for whom a complex health outcomes model inspires contextually rich research.

**Maryland Nursing Workforce Center (MNWC)**

The Maryland Nursing Workforce Center (MNWC) aims to improve collection methods of workforce data and to 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 focus 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 include the number of nursing students currently in nursing programs, graduation rates, NCLEX 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 detail 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 our 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.

**SCHOOL OF PHARMACY**

**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 Bio- and Nano-Technology Center develops technologies to translate biology and nanoscience discoveries into biopharmaceuticals, nanomedicines, and biomaterials. Its technologies span different aspects of this translations 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 the pharmacist to improve the health of patients through the most appropriate use of medication therapy; maximize pharmacists’ contributions on the
health care team; integrate evidence-based, 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’s 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 Translational Medicine (CTM)**
The Center for Translational Medicine (CTM) is part of the Department of Pharmacy Practice and Science. It 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 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 between 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 CADD approaches to their research programs, initiating collaborations that will 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) is part of the Department of Pharmacy Practice and Science. It 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, effective emergency treatment advice, as well as answer any non-urgent questions callers might have about poisons. Each specialist is certified by the 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 is also 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 mission of the Metallotherapeutics Research Center 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-Centered Research for Outcomes, Effectiveness, and Measurement (PROEM) Center of Excellence**

The Patient-Centered Research for Outcomes, Effectiveness, and Measurement (PROEM) Center of Excellence is designed to expand and improve training in comparative effectiveness research (CER) and patient-centered outcomes research (PCOR) methods. Established in 2014, the center focuses on patient-centeredness, characterized as patient engagement, as the first step in any CER activity. PROEM is one of five centers funded by the Pharmaceutical Research and Manufacturers of America Foundation, expanding graduate and training programs across the nation. Housed within the University of Maryland School of Pharmacy, the center is supported by an interdisciplinary team from six professional schools and five research centers across UMB, as well as a range of committed external partners from government, nonprofit, professional, trade, and private
organizations. UMB has a national reputation as a leader in CER-PCOR and interdisciplinary collaborations. The formation of the PROEM Center expands UMB’s current capabilities and allows the University to more fully and formally integrate its CER-PCOR expertise and interdisciplinary, collaborative research into its graduate and training programs. It currently collaborates with various organizations on- and off-campus to provide high-quality CER-PCOR training to researchers.

**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 University of Maryland 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 University of Maryland 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 Parke-Davis Chair in Geriatric Pharmacotherapy at the school. 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 HIPAA compliant, compliant in the use and execution of Data Use Agreements, and compliant with Institutional Review Board standards of practice.

**SCHOOL OF SOCIAL WORK**

**Institute for Innovation and Implementation**
The Institute for Innovation and Implementation was founded in 2005. University of Maryland 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. The institute 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. It 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.