FACULTY AWARDED PATENTS

Patents are arranged in chronological order by Fiscal Year 2020 issue date.

Lai-Xi Wang Wei Huang

School of Medicine

"Chemoenzymatic Glycoengineering of Antibodies and Fc Fragments Thereof

Robert Ernst

Mark Pelletier Adeline Hajjar (University of Washington) School of Dentistry "Immunotherapeutic Potential of Modified Lipooligosaccharides/Lipid A"

Fevruz Rassool Carine Robert

Nidal Muvarak Khadiza Chowdhury Stephen Baylin (Johns Hopkins University) **School of Medicine** 'Therapy Regimen and Methods to Sensitize Cancer Cells Treated with Epigenetic Therapy to PARP Inhibitors in Multiple Cancers"

Steven Tropello

School of Medicine "Coaptation Ultrasound Devices and Methods of Use"

Zhongjun Wu

Bartley Griffith David Wells (Breethe, Inc.) School of Medicine "Artificial Lung System and its Methods of Use"

Sunjay Kaushal

Dean Ho (Northwestern University) Patrick McCarthy (Northwestern University) Erik Robinson (Northwestern University) School of Medicine "Para-Xylene Films and Therapeutic Uses Thereof"

Matthew Frieman

Peter Jahrling (National Institutes of Health) Lisa Hensley (National Institutes of Health) School of Medicine "Methods of Treating Coronavirus Infection"

David Goodlett Robert Ernst School of Pharmacy "Methods for Identifying Fungi"

Mary Ann Jabra-Rizk

Svetlana Ikonomova (University of Maryland, College Park) Amy Karlsson (University of Maryland, College Park) School of Dentistry "Histatin-5 Based Synthetic Peptides and Uses Thereof"

Dai-Wei Gong Rongze Yang Alan Shuldiner Daozhan Yu Ling Chen School of Medicine "Methods for Treating Cardiovascular Dysfunction and Improving Fluid Homeostatis with a Peptide Hormone"

Peixin Yang Dean E. Albert Reece School of Medicine "Use of Trehalose for Prevention of Neural Tube Defects"

Horea Rus Cosmin Tegla Cornelia Cudrici School of Medicine "Diagnosis and Prognosis of Multiple Sclerosis"

Alexander MacKerell Jr. Anthony Capobianco (University of Miami) Mark Spyvee (University of Miami) School of Pharmacy

"Inhibitors of the Notch Transcriptional Activation Complex and Methods for Use of the Same'

Jerimy Polf

Emily Draeger Stephen Peterson Sam Beddar (MD Anderson Cancer Center) Dennis Mackin (MD Anderson Cancer Center) School of Medicine 'Techniques for Producing an Image of Radioactive Emissions Using a Compton Camera'

Christopher deFilippi

Robert Christenson Stephen Seliger James de Lemos (University of Texas-Southwestern) School of Medicine "Methods for Assessing Differential Risk for Developing Heart Failure"

Bruce Yu

Marc Taraban Yue Feng School of Pharmacy 'Biopharmaceutical Aggregation Assessment and Counterfeit Detection Using Magnetic Resonance Relaxometry

L. Elliott Hong Fow-Sen Choa (University of Maryland, Baltimore County) School of Medicine "Methods and Systems for Controlling Magnetic Fields and Magnetic Field Induced Current"

Myron M. Levine

Michael Fiechtner (Becton Dickinson) Francis Go (Becton Dickinson) Scott Castanon (Becton Dickinson) School of Medicine "Devices and Techniques for Oral Fluid Collection and Seroprotection Testing"

J. Marc Simard Mingkui Chen School of Medicine "Methods for Treating Central or Peripheral Nervous System Damage'

Erik Lillehoj

Avelino Verceles Simeon Goldblum School of Medicine "MUC1 Decoy Peptides for Treatment and Prevention of Bacterial Infections"

Robert Bloch Patrick Desmond Michele Markwardt Joaquin Muriel Megan Rizzo School of Medicine "Regulating Calcium in Excitable Cells with a Novel Protein"

Hao Zhang Warren D'Souza Gokhan Kirlik School of Medicine "System and Method for Optimizing a Treatment Plan for Irradiation Therapy Using Multi-Criteria Optimization (MCO)'

Raphael Simon Alan Cross Sharon Tennant School of Medicine "Broad Spectrum Conjugate Vaccine to Prevent Klebsiella Pneumoniae and Pseudomonas Aeruginosa Infections'

Wuyuan Lu Isaac Witz (Tel Aviv) Shelly Maman (Tel Aviv) School of Medicine 'Treatment of Cancer and Inhibition of Metastasis using Hemoglobin Beta Subunit"

Henryk Szmacinski Joseph Lakowicz School of Medicine "Plasmonic Substrates for Metal-Enhanced Fluorescence Based Sensing, Imaging and Assays for Cells"

Toni Antalis Erik Martin School of Medicine "Engineered Anthrax Protective Antigen Proteins for Cancer Therapy

J. Marc Simard Mingkui Chen School of Medicine "Therapeutic Methods That Target the NC CA-ATP Channel"

Vincent Njar Puranik Purushottamachar School of Medicine Nonsteroidal and Steroidal Compounds with Potent Androgen Receptor Down-Regulation and Anti Prostate Cancer Activity

Robert Bloch

Andrea O'Neill Joseph Roche Amber Mueller Paraskevi Sakellariou School of Medicine "Methods of Generating Mature Human Muscle Fibers"

James Gammie Peter Wilson (Harpoon Medical, Inc.) Peter Boyd (Harpoon Medical, Inc.) Bill Niland (Harpoon Medical, Inc.) School of Medicine "Method and Apparatus for Transapical Procedures on a Mitral Valve'

Jeffrey Hirsch David Eisenman School of Medicine "Ossicular Prosthesis and Method and System for Manufacturing Same'

Fengtian Xue Iqbal Hamza (University of Maryland, College Park)

School of Pharmacy "Compounds for Treating Parasitic Infections"

Vincent Njar Puranik Purushottamachar Andrew Kwegvir-Afful School of Medicine "Methods of Treating Pancreatic Cancer"

Feng Jiang School of Medicine "Biomarkers for Diagnosis and Prognosis of Lung Cancer'

Dudley Strickland Manuel Yepes Daniel Lawrence (University of Michigan) Enming Su (University of Michigan)

Ulf Ericksson (Ludwig Institute for Cancer Research) Linda Fredriksson (Ludwig Institute for Cancer Research) School of Medicine

"Methods and Compositions for Modulation of Blood-Neural Barrier'

Colin Mackenzie Shiming Yang Peter Hu Evan Garofalo School of Medicine "Automated Surgeon Performance Evaluation"

Zhongjun Wu Bartley Griffith Keshava Rajagopal School of Medicine "Self-Sealing Cannula"

