

**2017-2018 ANNUAL REPORT**



# LEADERSHIP

## LEADERSHIP

### Dean

Natalie D. Eddington, PhD,  
FAAPS, FCP

### Senior Associate Dean for Administration and Finance

William J. Cooper, MBA

### Associate Dean for Academic Affairs

Andrew Coop, PhD

### Associate Dean for Clinical Services and Practice Transformation

Magaly Rodriguez de Bittner, PharmD,  
BCPS, CDE, FAPhA

### Associate Dean for Development and Alumni Affairs

Ken Boyden, JD, EdD

### Associate Dean for Graduate Programs

Sarah Michel, PhD

### Associate Dean for Research and Advanced Graduate Studies

Peter Swaan, PhD

### Associate Dean for Student Affairs

Cherokee Layson-Wolf, PharmD, CGP,  
BCACP, FAPhA

### Assistant Dean for Academic Affairs and Assessment

Lisa Lebovitz, JD

### Assistant Dean for Communications and Marketing

Rebecca Ceraul

### Assistant Dean for Experiential Learning

Agnes Ann Feemster, PharmD, BCPS

### Assistant Dean for Information Technology

Tim Munn

### Assistant Dean for Instructional Design and Technology

Shannon Tucker, MS

### Assistant Dean for Policy and Planning

Deborah Dewitt, JD

### Assistant Dean for the Universities at Shady Grove

Heather Brennan Congdon, PharmD,  
CACP, CDE

### Chair, Department of Pharmaceutical Health Services Research

C. Daniel Mullins, PhD

### Chair, Department of Pharmaceutical Sciences

Paul Shapiro, PhD

### Chair, Department of Pharmacy Practice and Science

Jill Morgan, PharmD, BCPS, BCPPS

## CENTERS

### Bio- and Nano-technology Center

Bruce Yu, PhD, Director

### Center for Innovative Pharmacy Solutions

Magaly Rodriguez de Bittner, PharmD,  
BCPS, CDE, FAPhA, Executive Director

### Center for Translational Medicine

Joga Gobburu, PhD, MBA, FCP, Director

### Center of Excellence in Regulatory Science and Innovation

James Polli, PhD, Co-director

### Center on Drugs and Public Policy

Francis B. Palumbo, PhD, JD, Executive  
Director

### Computer-Aided Drug Design Center

Alexander D. MacKerell Jr., PhD, Director  
Jana Shen, PhD, Co-director

### Maryland Poison Center

Bruce D. Anderson, PharmD, Director

### Mass Spectrometry Center

Maureen Kane, PhD, Executive Director

### Mental Health Program

Raymond Love, PharmD, Director

### Metallotherapeutics Research Center

Sarah Michel, PhD, Co-director  
Angela Wilks, PhD, Co-director

### Peter Lamy Center on Drug Therapy and Aging

Nicole Brandt, PharmD, MBA, BCPP, CGP,  
FASCP, Executive Director

### Pharmaceutical Research Computing

Ebere Onukwugha, PhD, MS,  
Executive Director

## BOARD OF VISITORS

### Stephen J. Allen, RPh, MS '78, FASHP, Chair

Former CEO, American Society of Health-  
System Pharmacists Foundation

### Barbara M. Alving, MD, MACP

Professor of Medicine, Uniformed Services  
University of the Health Sciences  
Research Professor, School of Public  
Health, University of Maryland, College  
Park

### John Banta, MBA

Managing Director  
BlueCross BlueShield Venture Partners

### Harold E. Chappelle, DSC '98, RPh, LLD (Hon.)

Principal, InternaSource, LLC

### Victoria G. Hale, BSP '83, PhD, DSc (Hon)

Founder & Former CEO  
OneWorld Health  
Medicines360

### Gina McKnight-Smith, PharmD '97, MBA, CGP, BCPS

Regional (Mid-Atlantic) Medical Outcomes  
Science Liaison  
AbbVie, Inc.

### Thomas E. Menighan, BSP Pharm, MBA, FAPhA

Executive Vice President and CEO  
American Pharmacists Association

### David W. Miller, PhD '93

Operating Partner, GHO Capital Ltd.

### Jane Shaab, MBA

Senior Vice President and Executive  
Director, University of Maryland BioPark  
Assistant Vice President for Economic  
Development, University of Maryland,  
Baltimore

### Jermaine Smith, RPh

Senior Director, Legislative and Regulatory  
Affairs  
Rite Aid Pharmacy

### Ellen H. Yankellow, PharmD '96, BSP '73

President and CEO, Correct Rx Pharmacy  
Services, Inc.

### *Special thanks to the following contributors:*

*William Cooper, Nicole Derr, Jenny Giller, Greer  
Griffith, Cherokee Layson-Wolf, and Lisa Lebovitz*

**ACADEMIC PROGRAMS**

881 Total enrollment all degree programs

**PHARMD PROGRAM**

535 Total enrollment

**Fall 2018 admission**

632 Total applicants

131 Entering class

21% Acceptance rate

73% With undergraduate degree or higher

3.37 Average incoming GPA

75% Average PCAT composite percentile rank

**Ethnicity across all four years:**

39% Asian

30% White

20% Black

5% Hispanic

3% International

2% Multi-ethnic

1% No response

*Number may not total 100 percent due to rounding***PHD PROGRAMS**

88 Total enrollment

**Department of Pharmaceutical Health****Services Research**

26 Students

**Department of Pharmaceutical Sciences**

62 Students

**MASTER'S PROGRAMS****258 Total enrollment****Pharmaceutical Health Services Research**

3 Students

**Palliative Care**

139 Students

**Pharmaceutical Sciences**

6 Students

**Pharmacometrics**

54 Students

**Regulatory Science**

56 Students

**ACADEMIC TRAINING**

37 Postdoctoral fellows

22 Residents

**FACULTY**

90 Full-time faculty

115 Affiliate faculty

698 Preceptor faculty

**STAFF**

70 Administrative, business, development and alumni affairs, experiential learning, human resources, communications and marketing, student affairs, and faculty support

233 Technical, research staff, postdoctoral fellows, and teaching assistants

**SCHOLARLY ACTIVITY**

144 Principal investigators

419 Refereed works published (authored or co-authored)

129 Non-refereed works published (authored or co-authored)

598 Papers presented at professional meetings

**PROFESSIONAL SERVICES**

16 Review panels (off-campus peer review panels and accreditation and certification teams)

2,537 Manuscripts read/reviewed for professional journals, conferences, and publishers

74 Editors/associate editors for professional journals

79 Officeholders of professional associations

197 Total days in public service (non-consulting role with K-12 schools and community colleges, government agencies, nonprofit organizations, or businesses)

**PLACEMENT/EMPLOYMENT****Job Placements for the PharmD Class of 2018***Data is based on a survey voluntarily completed by graduating students in May.*

152 Total Number of Graduates

53 Additional Training (PGY1, Fellowship, Graduate School)

42 Community Pharmacy, Chain or Independent

3 Hospital Pharmacy or Outpatient Health System

4 Other (Pharmacy LTC, USPHS, Industry, Federal, etc.)

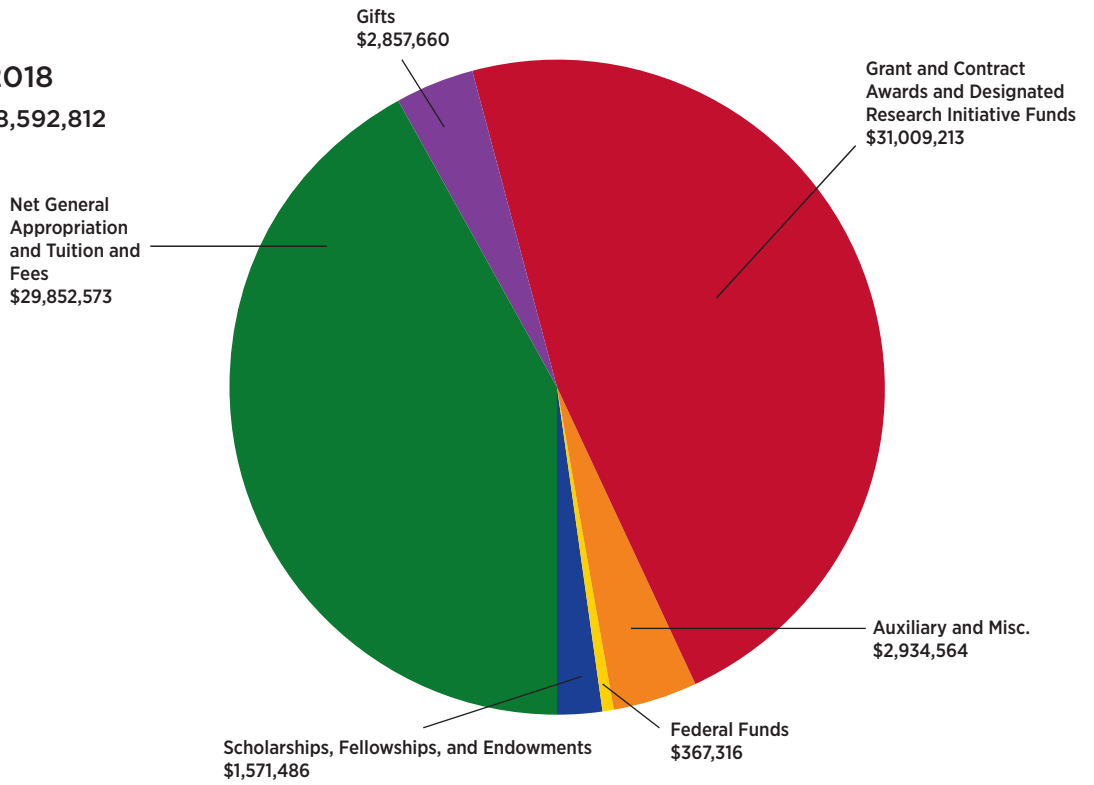
50 Did Not Respond to Survey or Still Seeking Employment

**SOURCES OF OPERATING REVENUES SUPPORTING THE SCHOOL**

*This report is an unaudited presentation of revenues supporting the School.*

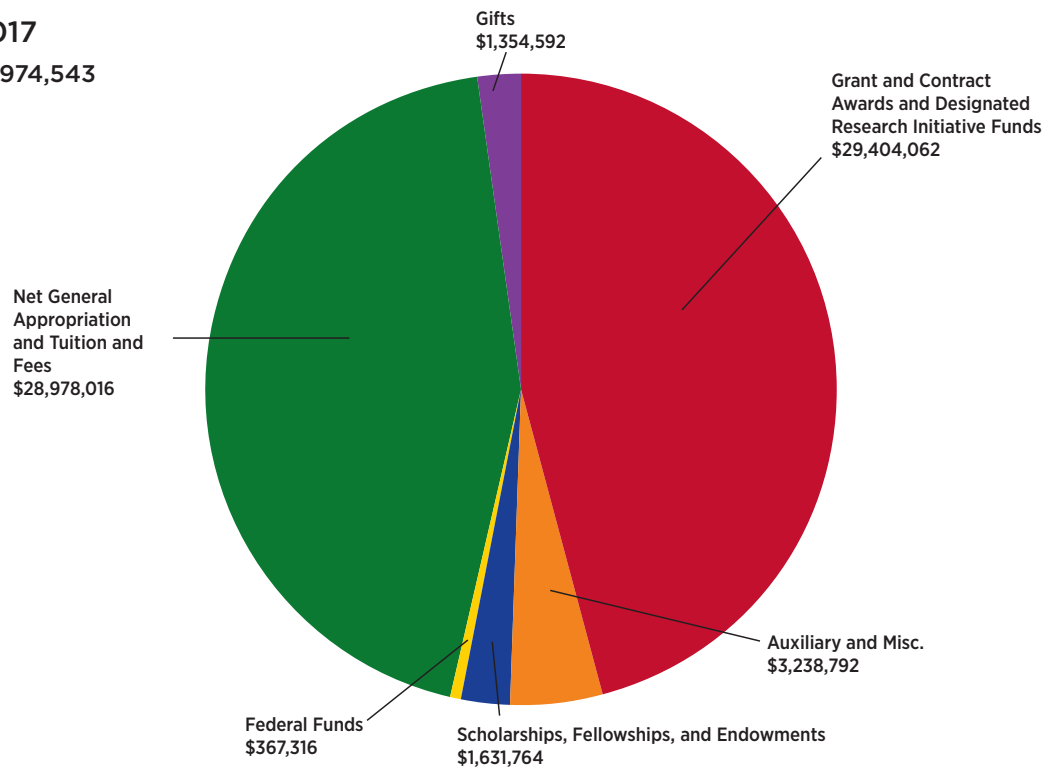
**FISCAL YEAR 2017-2018**

Total Source of Funds \$68,592,812



**FISCAL YEAR 2016-2017**

Total Source of Funds \$64,974,543



**Daniel Deredge, PhD**  
**Research Assistant Professor**  
**Department of Pharmaceutical Sciences**



Born in France, Deredge grew up primarily in Ethiopia where he completed his high school education. In 1999, he came to the United States to attend Louisiana State University in Baton Rouge, where he received both a Bachelor of Science and a PhD in biochemistry. During his graduate studies, Deredge characterized the solution thermodynamic properties of DNA binding by bacterial DNA polymerase I, focusing specifically on the polymerase from *E.*

*coli* and *T. aquaticus* and their response to the accumulation of the physiological counter-anion glutamate. Subsequently, Deredge undertook postdoctoral studies at Case Western Reserve University in Cleveland, where he studied the structural origin of resistance of HIV reverse transcriptase to a non-nucleoside reverse transcriptase inhibitor, Efavirenz, applying hydrogen-deuterium exchange coupled with mass spectrometry (HDX-MS). In 2012, he came to the University of Maryland School of Pharmacy to pursue additional postdoctoral training and, as part of the School's Mass Spectrometry Center, expand the application of HDX-MS, native mass spectrometry and ion mobility, fast photochemical oxidation of proteins to various biological and biophysical systems. His studies include bacterial, viral, and human protein systems studied within the perspective of protein folding, protein dynamics, protein-ligand binding, protein-protein interactions, and protein-nucleic acids interactions. As a research assistant professor, Deredge is developing and applying a framework to correlate experimental HDX-MS with computational approaches to augment the structural and biophysical understanding of various systems.

**Ashlee Mattingly, PharmD, BCPS**  
**Assistant Professor**  
**Department of Pharmacy Practice and Science**



Mattingly received her Doctor of Pharmacy degree from the University of Kentucky College of Pharmacy in 2011. After graduation, she worked as a pharmacist at Kindred Hospital, a long-term acute care hospital, in Louisville, Ky. In 2013, Mattingly joined Community Hospital South in Indianapolis as a clinical pharmacist. At the University of Maryland School of Pharmacy, Mattingly focuses on sterile and non-sterile compounding and serves as director of the

School's PharmTechX Program, an advanced pharmacy technician

training program. Her research includes the advancement in delivery of patient care through the use of pharmacy technicians, including the potential opportunities and the positive impact this can have on patient outcomes and overall pharmacy technician satisfaction. She also is interested in the regulations surrounding sterile and non-sterile compounding and developing processes that balance public safety with the efficient production of compounded pharmaceutical products. Mattingly has two research grants with the U.S. Food and Drug Administration evaluating the use of bulk drug substances in compounding as outlined in the Drug Quality and Security Act passed in 2013.

**Kristine Parbuoni, PharmD, BCPPS**  
**Associate Professor**  
**Department of Pharmacy Practice and Science**



Parbuoni obtained her Doctor of Pharmacy from the University of Maryland School of Pharmacy in 2005. She then completed a PGY1 pharmacy residency and PGY2 pediatric residency at Johns Hopkins Hospital in Baltimore. Following residency training, Parbuoni became the clinical pharmacy specialist in the Pediatric Intensive Care Unit at the University of Maryland Children's Hospital, where she later also took on administrative roles.

Parbuoni then joined the faculty at Loma Linda University School of Pharmacy as an assistant professor in the Department of Pharmacy Practice, where she was also director of the PGY2 Pediatric Residency Program. She is a board-certified pediatric pharmacy specialist and maintains a clinical practice site in general pediatrics at the University of Maryland Children's Hospital. She is also director of the School of Pharmacy's PGY2 Pediatric Residency. Parbuoni has been actively involved in professional organizations throughout her career. She has served as president of the Maryland Society of Health-System Pharmacy, as a delegate for the American Society of Health-System Pharmacists (ASHP), on ASHP's Council on Education and Workforce Development and Preceptor Development Section Advisory Group (SAG) and Pediatrics SAG. Parbuoni also was chair of the California Society of Health-System Pharmacists Membership Committee and chair of the Research Committee of the Pediatric Pharmacy Association. Her research interests include clinical outcomes in pediatrics (infectious diseases, critical care), pediatric pharmacokinetics, educational methods and outcomes in simulation, and postgraduate training.

**Ryan Pearson, PhD**  
**Assistant Professor**  
**Department of Pharmaceutical Sciences**



Pearson's research focuses on engineering nanoparticles to achieve programmable immune responses for specific immunomodulation and molecular design to achieve controllable cellular interactions for targeted drug delivery. His lab is focused on developing strategies for treating dysregulated immune responses such as allergy, inflammation, and cancer through

the intersection of two enabling disciplines — nanotechnology and immune engineering. As a postdoctoral fellow at the University of Michigan, he championed projects related to nanoparticle engineering and protein delivery for antigen-specific tolerance induction (i.e., autoimmunity, allergens, allogeneic cell transplantation). Notably, he contributed to the invention of CNP-101, an immune tolerance-inducing nanoparticle for the treatment of celiac disease, which has been licensed by Takeda Pharmaceutical Co. As a graduate student at the University of Illinois at Chicago, Pearson worked to synthesize and evaluate novel polymer molecular architectures based on dendrimers and linear-block copolymers. His research led to discoveries that improved the fundamental understanding of nanoparticle-biological interactions and strategies to overcome critical challenges associated with targeted drug delivery. Since 2009, Pearson has published 22 manuscripts in high-impact journals that have been cited more than 800 times. He is an inventor on three patents associated with biomaterials for immunomodulation, and is an active member of the board of directors for the Controlled Release Society ImmunoDelivery Focus Group.

**Zafar Zafari, PhD, MSc, BSc**  
**Assistant Professor**  
**Department of Pharmaceutical Health Services Research**



Zafari is a quantitative outcomes researcher with interests in a wide range of applied and theoretical topics in health economics, outcomes research, and health policy, including developing advanced cohort/micro simulation models for cost-effectiveness or comparative effectiveness of health policies or technologies, Bayesian methods of synthesizing and reconciling evidence, statistical methods of

longitudinal analyses, prospective, or retrospective studies including multi-level (hierarchical) modeling, age-period-cohort analysis, and non- or semi-parametric modeling to address burning epidemiological and health policy questions. He received a PhD in health economics and outcomes research in 2016 at the University of British Columbia. During his PhD, he worked as a mathematical modeler and data scientist affiliated with the Center for Clinical Epidemiology and Evaluation and as a health economist/epidemiologist for the Center of Collaborations for Outcomes Research and Evaluation. He received a MSc in mathematics from the University of British Columbia in 2012, and a BSc in electrical engineering from Tehran Polytechnic University in Iran in 2010. Zafari was a postdoctoral research scientist in the Department of Health Policy and Management at Columbia University in New York from 2016 to 2018. During this time, in addition to working on a variety of projects on the cost effectiveness of social and preventive policies, he conducted research to quantify and understand the trends of sociological well-being over time and their impact on survival inequalities in the United States.

**DEPARTMENT OF PHARMACEUTICAL HEALTH SERVICES RESEARCH (PHSR)**

PROJECT INVESTIGATOR	RANK/TITLE	PROJECT TITLE	SPONSOR NAME	PROJECT TOTAL
Peter Doshi	Associate Professor	Secondment Agreement	BMJ Publishing Group Ltd., Inc.	\$90,000
Peter Doshi	Associate Professor	Restoring Invisible and Abandoned Trials Support Center	Laura and John Arnold Foundation	\$348,404
Susan dosReis	Professor	Center for Patient-Focused Value Assessment	Pharmaceutical Research and Manufacturers of America	\$223,155
Susan dosReis	Professor	State of Maryland Foster Care Psychotropic Database Monitoring	Maryland Department of Human Services	\$100,652
Maya Hanna	Graduate Student	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$7,675
Maya Hanna	Graduate Student	Geographic Variations of Screening and Diagnosis of Alzheimer's Disease and Related Dementias in the U.S.	Pharmaceutical Research and Manufacturers of America	\$25,000
C. Daniel Mullins	Professor and Chair	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$842,516
C. Daniel Mullins	Professor and Chair	Mapping and Resourcing Patient and Stakeholder Engagement Along 10-Step PCOR Continuum Framework	Patient-Centered Outcomes Research Institute	\$399,321
C. Daniel Mullins	Professor and Chair	Pragmatic Clinical Trials of Proton vs. Photon Therapy for Patients with Breast and Lung Cancer	University of Pennsylvania	\$104,385
C. Daniel Mullins	Professor and Chair	Merck/UMB SOP HEOR Fellowship	Merck & Co. Inc.	\$105,073
C. Daniel Mullins	Professor and Chair	Patient-Centered Outcomes Research Scientific and Lay Training	Westat Inc.	\$213,017
C. Daniel Mullins	Professor and Chair	Increasing Patient-Community Capacity to Engage on Quality of Health Care Research and Programs	National Health Council	\$12,500
C. Daniel Mullins	Professor and Chair	Direct Medical Costs of Alpha-1 Antitrypsin Deficiency in the United States	Alpha-1 Foundation	\$157,753
C. Daniel Mullins	Professor and Chair	Improving FDA Health Communications with Older Women Regarding FDA Regulated Products	University of Maryland, College Park	\$162,000

## GRANT AND CONTRACT AWARDS

Elisabeth Oehrlein	Graduate Student	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$7,657
Ebere Onukwugha	Associate Professor	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$83,195
Ebere Onukwugha	Associate Professor	Non-Hodgkins Lymphoma SEER Medicare Proposal: Health Economics and Outcomes Research	Bayer Pharma AG	\$150,393
Eleanor Perfetto	Professor	Outcome Measures of Hospitalization from Bleeding Events from Anticoagulant Medication Use	Pharmacy Quality Alliance	\$16,488
Eleanor Perfetto	Professor	An Intensive Introduction to the Science of Clinical Outcomes Assessment (COA) – A COA Online Continuing Education Series	University of Maryland, College Park	\$74,986
Eleanor Perfetto	Professor	Hypoglycemic Events Requiring a Hospital Admission or ED Visit Associated with Anti-Hyperglycemic Medications	Pharmacy Quality Alliance	\$150,000
Fadia Shaya	Professor	Evaluation and Technical Assistance Services for the Maryland Substance Abuse Prevention and Treatment Block Grant Prevention Program	Maryland Department of Health	\$380,000
Fadia Shaya	Professor	Substance Abuse Block Grant Amendment	Maryland Department of Health	\$72,000
Fadia Shaya	Professor	Social Marketing Campaign, Technical Assistance and Evaluation	Maryland Department of Health	\$120,000
Fadia Shaya	Professor	Social Marketing Campaign Evaluation	Maryland Department of Health	\$135,000
Fadia Shaya	Professor	Implementation & Evaluation for the Strategic Prevention Framework for Prescription Drugs Initiative	Maryland Department of Health	\$320,000
Fadia Shaya	Professor	Technical Assistance and Evaluation of the Strategic Prevention Framework - Partnership for Success Initiative	Maryland Department of Health	\$215,000
Julia Slejko	Assistant Professor	SEER-Medicare Study of Health Outcomes and Economics: Multiple Myeloma Supplement	Takeda Pharmaceutical Co. Ltd.	\$300,000

## GRANT AND CONTRACT AWARDS

Julia Slejko	Assistant Professor	Literature Review of Claims-Based Measures for Oral Oncology Drugs	Novartis Pharmaceuticals Corp.	\$154,003
Ester Villalonga-Olives	Assistant Professor	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$15,120
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Statewide Epidemiological Outcomes Workgroup	Maryland Department of Health	\$200,000
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Shared Savings Calculations	Maryland Health Care Commission	\$60,385
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Novartis HEOR Fellowship	Novartis Pharmaceuticals Corp.	\$114,011
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Novartis HEOR Fellowship	Novartis Pharmaceuticals Corp.	\$109,420
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Shared Savings Calculations	Maryland Health Care Commission	\$65,420
Linda Wastila	Parke-Davis Chair of Geriatric Pharmacotherapy	Novartis HEOR Fellowship	Novartis Pharmaceuticals Corp.	\$109,420
			<b>PHSR Total</b>	<b>\$5,643,949</b>

### DEPARTMENT OF PHARMACY PRACTICE AND SCIENCE (PPS)

PROJECT INVESTIGATOR	RANK/TITLE	PROJECT TITLE	SPONSOR NAME	PROJECT TOTAL
Bruce Anderson	Professor	Denver Health and Hospital Authority WO# 34 and 35	Denver Health and Hospital Authority	\$27,799
Bruce Anderson	Professor	State Children's Health Insurance Program	Maryland Department of Health	\$2,824,120
Bruce Anderson	Professor	Poison Center Support and Enhancement	Health Resources and Services Administration	\$212,188
Bruce Anderson	Professor	Enhanced Toxidromic Surveillance Using Poison Center Data	Maryland Department of Health	\$70,000

## GRANT AND CONTRACT AWARDS

Bruce Anderson	Professor	Naloxone Surveillance Project	Maryland Department of Health	\$199,976
Nicole Brandt	Professor	Geriatrics Workforce Enhancement Program	Johns Hopkins University School of Medicine	\$55,000
Nicole Brandt	Professor	MedStar Good Samaritan Hospital Service Agreement	Good Samaritan Hospital	\$29,934
Nicole Brandt	Professor	Modernization, Testing & Validation of Alternate Formats of the Medicare Part D MTM Program Standardized Format	Academy of Managed Care Pharmacy	\$72,645
Nicole Brandt	Professor	Antimicrobial Stewardship in the Post-Acute Long-Term Care Setting	Maryland Department of Health	\$200,000
Kimberly Claeys	Assistant Professor	Improving Clinical Outcomes in Gram-Negative Bacteremia Through a 24-Hour Multidisciplinary Verigene Gram-Negative Blood Culture Treatment Pathway	MAD-ID: Making a Difference in Infectious Diseases	\$27,222
Kimberly Claeys	Assistant Professor	Comparing the Clinical Utility of Rapid Diagnostics for the Treatment of Bacteremia	Society of Infectious Diseases Pharmacists	\$9,039
Catherine Cooke	Research Associate Professor	Part D Enhanced Medication Therapy Management Technical Implementation Support	IMPAQ International, LLC	\$31,104
Catherine Cooke	Research Associate Professor	Fill Status Notification to Improve Hypertension Management	Maryland Department of Health	\$100,000
Catherine Cooke	Research Associate Professor	PCORI Training for Minority Practitioners and Their Patients: Targeting the Silent Killers of Cardiovascular Disease	Patient-Centered Outcomes Research Institute	\$187,393
Bethany DiPaula	Professor	Springfield Hospital Center – Pharmacy Services	Maryland Department of Health	\$1,438,166
Bethany DiPaula	Professor	Opioid Prescription Review for Pain Management	Maryland Department of Health	\$135,816
Bethany DiPaula	Professor	Pharmacy Education Project	Maryland Department of Health	\$196,987
Natalie Eddington	Dean and Professor	Memorandum of Understanding - Prince George's Hospital Center and University of Maryland, Baltimore	Dimensions Health Corp.	\$609,827
Agnes Ann Feemster	Associate Professor	FY18-19 Service Addendum #2	Johns Hopkins Hospital	\$44,784

## GRANT AND CONTRACT AWARDS

Agnes Ann Feemster	Associate Professor	Memorandum of Understanding for Joint Clinical and Educational Collaboration	Johns Hopkins Hospital	\$44,236
Joga Gobburu	Professor	PK Analysis Plan	Collegium Pharmaceutical	\$8,000
Joga Gobburu	Professor	Use Pharmacokinetic Data for Modeling and Simulation of Pediatric Drug Trial Design	Sunovion Pharmaceuticals, Inc.	\$25,000
Joga Gobburu	Professor	New Drug Application Strategy and Modeling and Simulation Support	Upsher-Smith Laboratories, Inc.	\$25,000
Joga Gobburu	Professor	USL-261 PBPK Modeling and Regulatory Strategy	Proximagen, LLC	\$100,000
Mathangi Gopalakrishnan	Research Assistant Professor	Pharmacodynamic and Pharmacokinetic Properties of Wockhardt's WCK 9444 with Actraphane 30 and Simultaneous Injections of Lantus & Actrapid in Healthy Subjects	Wockhardt Ltd.	\$25,000
Mathangi Gopalakrishnan	Research Assistant Professor	A Randomized, Single Center, Double Blind, Two Treatment, Two Period, Crossover Glucose Clamp Study to Test for Bioequivalence between Wockhardt's Consegna and Mixtard in Healthy Subjects	Wockhardt Ltd.	\$25,000
Emily Heil	Associate Professor	Society of Infectious Diseases Pharmacotherapy Residency Award	Society of Infectious Diseases Pharmacists	\$60,000
Emily Heil	Associate Professor	Oral Vancomycin plus Intravenous Metronidazole for Severe Clostridium Difficile NAPI/BI/027 Infection	American Association of Colleges of Pharmacy	\$4,564
Emily Heil	Associate Professor	Clinical Outcomes with Ceftolozane-Tazobactam in Patients with Multi Drug Resistant <i>Pseudomonas aeruginosa</i> Infections	Temple University - HSC	\$2,997
Lauren Hynicka	Associate Professor	Hepatitis C Virus Review Program	Maryland Department of Health	\$474,579
Vijay Ivaturi	Research Assistant Professor	Pharmacometric Support for a Neuro-Oncology Drug Development Program	Upsher-Smith Laboratories, Inc.	\$100,000
Vijay Ivaturi	Research Assistant Professor	A Comparison of Buprenorphine Vs. Morphine in the Treatment of the Neonatal Ab	Thomas Jefferson University	\$23,969

## GRANT AND CONTRACT AWARDS

Vijay Ivaturi	Research Assistant Professor	ESETT Pharmacokinetic-Pharmacodynamic Study	University of Minnesota	\$12,888
Cherokee Layson-Wolf	Associate Professor and Associate Dean	FY18 Resident Training Agreement	Sharpsburg Pharmacy	\$23,461
Cherokee Layson-Wolf	Associate Professor and Associate Dean	FY18 Resident Training Agreement	Whitesell Pharmacy	\$23,461
Raymond Love	Professor	Potomac Center - Secure Evaluation and Therapeutic Treatment	Maryland Department of Health	\$164,180
Raymond Love	Professor	Eastern Shore Hospital Center - Improving Pharmacy Services	Maryland Department of Health	\$419,040
Raymond Love	Professor	Spring Grove Hospital Center - Improving Pharmacy Services	Maryland Department of Health	\$1,900,810
Raymond Love	Professor	Clifton T. Perkins Hospital Center - Improving Pharmacy Services	Maryland Department of Health	\$773,134
Raymond Love	Professor	Thomas B. Finan Center - Improving Pharmacy Services	Maryland Department of Health	\$384,696
Raymond Love	Professor	MHA - Centralized Administration of Pharmacy Services	Maryland Department of Health	\$556,813
Raymond Love	Professor	Peer to Peer Review for Mental Health Drug Programs - Pediatrics	Maryland Department of Health	\$2,400,000
Raymond Love	Professor	Antipsychotic Prescription Review Program	Maryland Department of Health	\$1,613,755
Ashlee Mattingly	Assistant Professor	Clinical Use of Bulk Drug Substances Nominated for Use in Compounding by Outsourcing Facilities	University of Maryland, College Park	\$148,114
Joey Mattingly	Associate Professor	Engaging an Underserved Patient Community to Inform and Improve Comparative Effectiveness Research for Hepatitis C Treatments	Patient-Centered Outcomes Research Institute	\$49,500
Joey Mattingly	Associate Professor	A Single-Center Pilot to Measure Self-Reported Health Confidence from an Outpatient Pharmacy Discharge Service and 30-day Readmission Rates	Bristol-Myers Squibb	\$74,900

## GRANT AND CONTRACT AWARDS

Joey Mattingly	Associate Professor	Pharmapreneur: Defining the Role of Entrepreneurialism in Schools of Pharmacy	American Association of Colleges of Pharmacy	\$10,000
Mary Lynn McPherson	Professor	Union Memorial PGY2 Pain and Palliative Care Residency	Union Memorial Hospital	\$63,900
Jill Morgan	Professor and Chair	Medstar Georgetown University	MedStar Health Inc.	\$71,020
Jill Morgan	Professor and Chair	IPA Agreement	VA Maryland Health Care System	\$24,831
Jill Morgan	Professor and Chair	Clinical Pharmacy Services	Maryland Department of Health	\$186,668
Jason Noel	Associate Professor	Developmental Disabilities Administration	Maryland Department of Health	\$48,204
Kathleen Pincus	Associate Professor	PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS	Agency for Healthcare Research and Quality	\$7,675
Charmaine Rochester	Professor	Contraceptive Regulation Implementation: Stakeholder Facilitation	Maryland Department of Health	\$10,000
Magaly Rodriguez de Bittner	Professor and Associate Dean	FY18 Clinical Pharmacy Services	University of Maryland Baltimore Washington Medical Center	\$92,581
Magaly Rodriguez de Bittner	Professor and Associate Dean	Memorandum of Understanding for Joint Clinical and Educational Collaboration	University of Maryland Baltimore Washington Medical Center	\$70,231
Magaly Rodriguez de Bittner	Professor and Associate Dean	Joint Clinical and Educational Collaboration	UM Quality Care Network, LLC	\$308,135
Leah Sera	Assistant Professor	MedStar Montgomery Medical Center	MedStar Health Inc.	\$76,667
Mona Tsoukleris	Professor	School Epinephrine Administration: Electronic Database Development Consultation	Maryland Department of Health	\$4,000
<b>Total PPS</b>				<b>\$16,909,009</b>

### DEPARTMENT OF PHARMACEUTICAL SCIENCES (PSC)

PROJECT INVESTIGATOR	RANK/TITLE	PROJECT TITLE	SPONSOR NAME	PROJECT TOTAL
Joel Brandis	Graduate Student	Development of Bioanalytical Mass Spectrometric Approaches to Measure Iron Release in Plasma of Patients Treated with IV Iron Preparations	American Foundation for Pharmaceutical Education	\$10,000

## GRANT AND CONTRACT AWARDS

Andrew Coop	Professor and Associate Dean	Preclinical Identification of Better Antimuscarinic Antidepressants	University of Texas Health Science Center at San Antonio	\$91,445
Alecia Dent	Graduate Student	The Non-Redundant Role of the Has and Phu Heme Acquisition Systems of <i>Pseudomonas aeruginosa</i> in Iron Homeostasis	National Institutes of Health	\$29,173
Brandon Drennen	Graduate Student	Towards a New Therapeutic Modality for the Treatment of Alzheimer's: Interception of Transient Helical States of beta-Amyloid with Small-Molecule Proteomimetics	American Foundation for Pharmaceutical Education	\$10,000
Steven Fletcher	Associate Professor	Preclinical and Clinical Imaging and Treatment of Multiple Myeloma with cMyc-Max Nanoparticles	Washington University	\$81,790
Steven Fletcher	Associate Professor	Enhancers of Reverse Cholesterol Transport	Maryland Industrial Partnerships	\$68,253
David Goodlett	Professor	Functional Characterization of the Bax-Interacting Factor-1 Interactome in Neurons	University of Washington	\$18,756
Stephen Hoag	Professor	Effect of pH of Smokeless Tobacco Products on the Pharmacokinetics of Nicotine in Current Users	Battelle Memorial Institute	\$38,024
Stephen Hoag	Professor	Professional Service for Manufacturing an <i>in vitro</i> Component of an Assessment of a Proposed <i>in vitro</i> Bioequivalence Approach for Evaluating Generic and New Animal Formulations	Food & Drug Administration	\$32,000
Stephen Hoag	Professor	Formulation Development for Rare Disease Therapy	Maryland Industrial Partnerships	\$68,252
Stephen Hoag	Professor	Methods For Evaluation of Abuse Deterrence Via Smoking And Vaping	National Institute of Pharmaceutical Technology and Education	\$205,000
Lisa Jones	Associate Professor	Mechanism of Transcription Regulation by the Mediator	Indiana University	\$9,987
Lisa Jones	Associate Professor	CAREER: Development of an In Cell Footprinting Method for the Analysis of Protein Structure	National Science Foundation	\$219,677

## GRANT AND CONTRACT AWARDS

Lisa Jones	Associate Professor	A Novel Protein Footprinting Method Coupled with Mass Spectrometry for the Structural Analysis of Class II CFTR Mutants	Cystic Fibrosis Foundation	\$54,000
Lisa Jones	Associate Professor	Development of an <i>in vivo</i> Footprinting Method Coupled with Mass Spectrometry in <i>C. elegans</i>	National Institutes of Health	\$309,000
Maureen Kane	Associate Professor	Molecular Determinants of Retinoid Metabolism in Embryonic Tissues	University of Kansas Center for Research, Inc.	\$52,924
Alexander MacKerell Jr.	Grollman-Glick Professor	Program for Therapeutic Targeting of Transcriptional Repression	Samuel Waxman Cancer Research Foundation	\$15,000
Alexander MacKerell Jr.	Grollman-Glick Professor	Carbohydrate Force Fields for Structure, Dynamics, and Molecular Recognition	National Institute of General Medical Sciences	\$357,085
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Alexander MacKerell Jr.	Grollman-Glick Professor	Design and Synthesis of Inhibitors of the BTB Domain of BCL6	Joan & Sanford I. Weill Medical College of Cornell University	\$239,110
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Alexander MacKerell Jr.	Grollman-Glick Professor	Molecular Characterization and Drug Design Targeting Emerging Pathogenic Bacteria of Pakistan and Development of an Access Application for the Health Care Industry	The National Academies	\$51,599
Alexander MacKerell Jr.	Grollman-Glick Professor	Biased Agonism and Conformational Heterogeneity of Beta Adrenergic Receptors in Bronchodilation	Thomas Jefferson University	\$77,250
Sarah Michel	Professor and Associate Dean	Non-Classical Zinc Finger Proteins	National Science Foundation	\$150,000
Sarah Michel	Professor and Associate Dean	Bioanalytical Mass Spectroscopic Approaches to Characterize Protein-Stabilized Gold Nanoclusters	U.S. Army Research Office	\$80,000

## GRANT AND CONTRACT AWARDS

Amanda Oglesby-Sherrouse	Associate Professor	Role of PrrF and PrrH Regulation in <i>Pseudomonas aeruginosa</i> Pathogenesis	National Institute of Allergy and Infectious Diseases	\$428,875
Amanda Oglesby-Sherrouse	Associate Professor	Metallobiochemistry of Innate Immunity and Bacterial Physiology	Massachusetts Institute of Technology	\$114,532
Amanda Oglesby-Sherrouse	Associate Professor	Iron Regulation of CF Lung Pathogen Interactions	Cystic Fibrosis Foundation	\$108,000
James Polli	Shangraw/Noxell Endowed Chair	University of Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI)	University of Maryland, College Park	\$410,086
James Polli	Shangraw/Noxell Endowed Chair	Evaluation of Metal Ions in Electronic Cigarette Aerosol Condensates and Determination of Their Effects on Oral Keratinocytes	University of Maryland, College Park	\$188,610
James Polli	Shangraw/Noxell Endowed Chair	Development and Validation of a Clinically Relevant <i>in vitro</i> Dissolution Test for the Poorly Soluble, Weakly Basic Drug Itraconazole in Spray-Dried Amorphous Solid Dispersion	National Institute of Pharmaceutical Technology	\$750,000
C.S. Raman	Associate Professor	Redox Biochemistry of Energy Conservation in Methanogens and Their Syntrophic Partners	U.S. Department of Energy	\$196,302
Jana Shen	Professor	Thin Film Biofabrication for Integrated Bio-Electronics	University of Maryland, College Park	\$80,000
Jana Shen	Professor	Molecular Mechanisms of Secondary Active Transporters	Arizona State University	\$73,681
Jana Shen	Professor	Electrostatic Modulation of Protein Dynamics and Interactions	National Institute of General Medical Sciences	\$347,625
Audra Stinchcomb	Professor	Bioequivalence of Topical Drug Products: <i>in vitro</i> - <i>in vivo</i> Correlations	Food & Drug Administration	\$499,999
Audra Stinchcomb	Professor	Heat Effect on Generic Transdermal Drug Delivery Systems	Food & Drug Administration	\$499,999
Peter Swaan	Professor and Associate Dean	Structural Biology of the Apical Bile Acid Transporter	National Institute of Diabetes & Digestive & Kidney Diseases	\$350,326
Hongbing Wang	Professor	Function and Regulation of SLC13A5 in the Liver	National Institute of General Medical Sciences	\$297,413

## GRANT AND CONTRACT AWARDS

Hongbing Wang	Professor	Developing DL5016 as a Sensitizer for Cyclophosphamide-Based Treatment for Non-Hodgkins Lymphoma	Maryland Technology Development Corp.	\$115,000
Angela Wilks	Isaac E. Emerson Professor	Mechanistic Characterization and Regulation of the Non-Redundant phu and has Heme Uptake Systems of <i>Pseudomonas aeruginosa</i>	National Institute of Allergy and Infectious Diseases	\$396,890
Patrick Winthrode	Associate Professor	Mechanisms of Glycosaminoglycan-Catalyzed Protease Inactivation by Serpins	Vanderbilt University Medical Center	\$55,085
Bruce Yu	Professor	Contact-Free Real-Time In-Line PAT or Continuous Biomanufacturing	National Institute for Innovation in Manufacturing Biopharmaceuticals	\$197,960
<b>PSC Total</b>				<b>\$8,081,326</b>

<b>Department of Pharmaceutical Health Services Research (PHSR)</b>	<b>\$5,643,949</b>
<b>Department of Pharmacy Practice and Science (PPS)</b>	<b>\$16,909,009</b>
<b>Department of Pharmaceutical Sciences (PSC)</b>	<b>\$8,081,326</b>
<b>Grand Total</b>	<b>\$30,634,284</b>

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