

*Doctoral
Hooding Ceremony*

— MAY 15, 2014 —



UNIVERSITY of MARYLAND
GRADUATE SCHOOL

The Order of Ceremony

**Graduate School
University of Maryland
Doctoral Hooding Ceremony**

4 p.m. Thursday, May 15, 2014

Southern Management Corporation Campus Center Elm Ballroom
University of Maryland

Processional

Greetings

Jay A. Perman, MD
President, University of Maryland

Bruce Jarrell, MD
Dean, Graduate School

Roger Ward, JD, EdD
Vice President, Academic Affairs and Vice Dean, Graduate School

Geoffrey Heinzl
President, Graduate Student Association

Presentation of Dr. Patricia Sokolove Outstanding Mentor Award

Jinani Jayasekera and Candice Yong
Nominating Students

Eberechukwu Onukwugha, PhD
University of Maryland School of Pharmacy
Outstanding Mentor Awardee

Presentation and Hooding of PhD Graduates

Mentors and Graduate Program Directors

Closing Remarks

Bruce Jarrell, MD

The Doctoral Degree

*D*octor means teacher or instructor; the term was used in ancient Rome to describe people who delivered public lectures on philosophical subjects. Since the 12th century, "doctor" has been a title of honor borne by men and women of great learning. It was first made an academic title at the University of Bologna in Italy, which received from the emperor the right to appoint *doctores legum* (doctors of laws.)

The doctoral degree represents the most advanced earned degree conferred by American institutions. There are two distinct types: the professional or practitioner's degree and the research degree. The former doctoral degree signifies advanced training for the practice of professions such as medicine, dentistry, pharmacy, or law. The latter type of doctoral degree, the research doctorate, is awarded to individuals who have undertaken prolonged advanced study on a subject and who have made substantial and original contribution to the knowledge concerning that subject in the form of an extensive written document, the dissertation. The degree confers the title of doctor of philosophy (PhD), although the degree no longer is associated with the study of philosophy specifically.

Academic Regalia

*T*he traditional black caps and gowns worn by students and faculty in the academic

procession have been the costume of scholars since medieval times. A uniform code for academic costume was drafted by an intercollegiate commission in 1895 and has been adopted by the majority of colleges and universities in the United States. The gown or robe of the doctoral degree has a full, bell-shaped sleeve with three bars of velvet. The opening of the doctoral gown is faced with wide velvet bands that are either black or of a color indicating the wearer's general field of learning. For the doctor of philosophy degree, robes have velvet of either black to match the gown, or blue representing the PhD degree.

The most colorful and distinctive item of the academic costume is the hood, which passes around the neck and extends down the back. The hood is hemmed in a bright or dark blue for the PhD degree. The colors of the silk lining exposed in the center of the hood are those of the college or university which conferred the degree. For the University of Maryland Graduate School, Baltimore, the hood is lined with black and gold. The doctor of philosophy candidates will receive their diplomas at the university commencement exercises.

The cap, or mortarboard, is uniform in design for all degrees. However, the PhD recipient may also wear an eight-sided tam. The tassel may be either black or gold for the doctoral degree. A person may tip the cap to show respect to a colleague. Additional medallions or decorative trim may be worn by individuals who have achieved specific honors.

Doctor of Philosophy

Tina Abrefa-Gyan

Social Work

*"Socio-demographic Factors, Social Supports, and Quality of Life
among People Living with HIV/AIDS in Ghana"*

Mentor: Llewellyn Cornelius, PhD
Spring 2014

Minjeong An

Nursing

*"Effects of a Theory-Based Stroke Prevention Program
in Korean Americans: A Pilot Study"*

Mentor: Eun-Shim Nahm, PhD
Fall 2013

Elizabeth Marie Aparicio

Social Work

*"Exploring How Teen Mothers in Foster Care Experience
Motherhood: An Interpretative Phenomenological Analysis"*

Mentor: Edward Pecukonis, PhD
Spring 2014

Nathan Archer

Medicine

*"Th17-associated Immune Responses are Required for Resolution of
Staphylococcus aureus Nasal Carriage"*

Mentor: Mark E. Shirtliff, PhD
Fall 2013

Moradeke Asabi Bamgboye

Medicine

"Acute ROS in Cardiac Calcium Signaling"
Mentor: W. Jonathan Lederer MD, PhD
Spring 2014

Jennifer Bohl

Medicine

*"The Role of Protease Activated Receptor 2 (PAR2)
in the Initiation and Maintenance of Type 2 Immunity"*
Mentor: Terez Shea-Donohue, PhD
Summer 2013

Barbara Brady

Nursing

*"A Descriptive Study of Pre-operative Characteristics, Surgical Parameters,
Cardiovascular Interventions and Hospital Course among
Aortic Valve Replacement Patients"*
Mentor: Carla Storr, ScD
Fall 2013

Ross Cardarelli

Medicine

*"Dominant-negative Disrupted in Schizophrenia 1 Alters
the Dopaminergic Modulation of Excitatory-Inhibitory
Balance in the Prefrontal Cortex"*
Mentor: Patricio O'Donnell, MD, PhD
Fall 2013

Caitlin Castro

Medicine

"Characterization of Plasma Cell Lineages in the Nurse Shark"

Mentor: Martin Flajnik, PhD

Fall 2013

Monica Simone Charpentier

Medicine

*"Breast Tumor Stem Cells have Increased Microtentacles
that can be Targeted Therapeutically with Curcumin"*

Mentor: Stuart Martin, PhD

Spring 2014

Emily Cheng

Medicine

*"Analysis of TWEAK Receptor (Fn14) Expression and
Function in Non-small Cell Lung Cancer Cells"*

Mentor: Jeff Winkles, PhD

Spring 2014

Nisha Cooch

Medicine

*"Mechanisms of Valuation: Encoding of Outcome
Variables in Orbitofrontal Cortex"*

Mentor: Geoff Schoenbaum, MD, PhD

Spring 2014

Julie Craig

Medicine

"The LDL Receptor-related protein 1 (LRP1) Regulates the PDGF Signaling Pathway by Binding the Protein Phosphatase SHP-2 and Modulating SHP-2-mediated PDGF Signaling Events"

Mentor: Dudley Strickland, PhD

Fall 2013

Stephanie Deasey

Medicine

"Transglutaminase-mediated Bone Formation in Zebrafish"

Mentor: Maria Nurminskaya, PhD

Fall 2013

Nicolas Dorsey

Medicine

"The role of STAT6 modulation of natural and inducible Tregs during allergic lung inflammation"

Mentor: Achsah Keegan, Ph.D.

Summer 2013

Kathryn Driesbaugh

Medicine

"The Biochemistry and Pathophysiological Function of Testisin"

Mentor: Toni Antalis, PhD

Fall 2013

Sarah Kathryn Dutcher

Pharmacy

"Pharmacotherapeutic Management and Care Transitions among Nursing Home Residents with Atrial Fibrillation"

Mentor: Ilene Zuckerman, PhD, PharmD

Spring 2014

Mary Kohl Fey

Nursing

"Debriefing Practices in Nursing Education Programs in the United States"

Mentor: Louise Jenkins, PhD

Spring 2014

Tammy Fish

Social Work

*"Risk of Being Overweight or Obese among
Army Spouses: The Impact of Deployment, Distress, and Social Support"*

Mentor: Donna Harrington, PhD

Fall 2013

Erin Harberts

Medicine

*"TLR4/MyD88 Signaling Activates Ultraviolet Irradiation-induced
Apoptosis: Outcomes and Consequences"*

Mentor: Anthony Gaspari, MD

Spring 2014

Jessica Frances Hoffman

Medicine

"Identification and Characterization of a Sensitive Period in Cerebellar Development"

Mentor: Margaret McCarthy, PhD

Spring 2014

Valerie Huse

Medicine

"Functional Analysis of the Polymorphic Membrane Protein Family of Chlamydia"

Mentor: Patrik Bavoil, PhD

Fall 2013

Chaidan Intapa

Dental

"Farnesol-induced Apoptosis in Oral Squamous Carcinoma Cells is Mediated by MRP1 Extrusion and Depletion of Intracellular Glutathione"

Mentor: Mary Ann Jabra-Rizk, PhD

Fall 2013

Katherine Joyner

Pharmacy

"Non-covalent Interactions in Peptide Hydrogels: A Mechanism for Mechanical and Structural Control"

Mentor: Bruce Yu, PhD

Summer 2013

Raju Khatri

Medicine

"Role of Nrf2 Signaling in Therapeutic Resistance and Cancer Metastasis"

Mentor: Dr. Anil Jaiswal, PhD

Fall 2013

Jason Michael Koontz

Medicine

"Characterization of the Roles of the Hax-1 Variants in Apoptosis"

Mentor: Aikaterini Kontrogianni-Konstantopoulos, PhD

Spring 2014

Bhaveshkumar Hasmukhlal Kothari

Pharmacy

"Development of Real Time Release Testing of Controlled Release Multiparticulate Drug Delivery System Using the Principles of Quality by Design"

Mentor: Stephen Hoag, PhD
Spring 2014

Dayong Lee

Medicine

"Building a Scientific Basis for Oral Fluid Cannabinoid Testing: Cannabinoid Disposition in Oral Fluid Following Smoked Cannabis, Oral Δ 9-tetrahydro-cannabinol (THC), and Sativex® and during Extended Cannabis Abstinence"

Mentor: Marilyn Huestis, PhD
Summer 2013

Jonathan Levine

Medicine

"The Molecular Basis for the Regulation of LEE Expression by H-NST and Ler"

Mentor: James Kaper, PhD
Spring 2014

Brianna Rene Lindsay

Medicine

"Absolute Quantitative PCR Detection of Shigella spp./EIEC and Association with Moderate to Severe Diarrheal Illness in Children in Developing Countries"

Mentor: O. Colin Stine, PhD
Spring 2014

Tiha M. Long

"The Role of RNase-L in Intestinal Homeostasis and Disease"
Mentor: Bret Hassel, PhD
Spring 2014

Medicine

Federica Lucantonio

*"Effect of Cocaine Exposure on Estimates of Reward Value
and Neurobiological Correlates"*
Mentor: Geoffrey Schoenbaum, MD, PhD
Summer 2013

Medicine

Caitlin Elizabeth Lynch

*"Novel Human Constitutive Androstane Receptor Activators
and their Effects on Hepatic Energy Homeostasis"*
Mentor: Hongbing Wang, PhD
Spring 2014

Pharmacy

Karen Anne McNamara

*"Professionals and Their Organizational Roles in Pathways
to Care for Early Psychosis: Where are the Social Workers?"*
Mentor: Bruce DeForge, PhD
Spring 2014

Social Work

Jamie Michalek

Pharmacy

"Cys3His Zinc Finger Proteins: Metal Ion Coordination and RNA Recognition Properties of Tristetraprolin and the 30 kDa Subunit of the Cleavage and Polyadenylation Specificity Factor"

Mentor: Sarah Michel, PhD

Fall 2013

Sarah Morgan

Medicine

"PKA as the Effector of β 2-Adrenoreceptor Signaling Regulating Airway Smooth Muscle Relaxation"

Mentor: Raymond Penn, PhD

Fall 2013

Darnell Morris-Compton

Social Work

"Social and Academic Integration as Predictors of Community College Students' Semester Persistence in Developmental Courses"

Mentor: Donna Harrington, PhD

Summer 2013

Nathaniel Noyes

Medicine

"The Function of the LDL Receptor Family Member LRAD3 in the Brain"

Mentor: Dudley Strickland, PhD

Spring 2014

Kelly O'Connell

Medicine

*"Effects of Dietary Fat Intake on Mitochondrial
and Contractile Function in Heart Failure"*

Mentor: William Stanley, PhD
Summer 2013

Sylvina Mullins Raver

Medicine

*"Teenage Brains on Pot: Adolescent Cannabinoid Exposure
to Mice and Maturation of Cortical Functions"*

Mentor: Asaf Keller, PhD
Spring 2014

Lisa Semanick Reider

Medicine

*"Evaluating the Relationship between Muscle
and Bone Modeling Response in Older Adults"*

Mentor: Jay Magaziner, PhD
Spring 2014

Ekemini Aniema Udofa Riley

Medicine

*"The Regulation and Cytoprotective Function of Intracellular
Plasminogen Activator Inhibitor Type 2 in Response to Cellular Stress"*

Mentor: Toni Antalis, PhD
Spring 2014

Dushon De Vere Riley

Medicine

"Cellular and Molecular Dynamics of Stressed Myocardium"
Mentor: W. Jonathan Lederer, MD, PhD
Spring 2014

Patrick Robison

Medicine

*"The Intercostal Muscles: Development and Applications
of a Novel Primary Muscle Fiber Culture System"*
Mentor: Martin Schneider, PhD
Fall 2013

Gina Rowe

Nursing

*"Quantifying Neighborhood-level Social Determinants of
Potentially Preventable Emergency Department Visits in Maryland"*
Mentor: Meg Johantgen, PhD
Fall 2013

Michelle Sallin

Medicine

*"Defining the Role of Fc-Fc Gamma Receptor Interactions
in the Anti-Tumor Function of Anti-CD137 Monoclonal Antibody Therapy"*
Mentor: Amy Fulton, PhD
Fall 2013

Janet Schreck

Medicine

*"Marital Satisfaction in Spouses of Patients with Chronic Aphasia:
A Mixed Methods Study"*
Mentor: Ann Gruber-Baldini, PhD
Fall 2013

Judi Azevedo Sgambato

Medicine

*"Using Disease-specific Induced Pluripotent Stem Cells
to Understand the Etiology of the Hematopoietic Defects in Gaucher Disease"*

Mentor: Ricardo Feldman, PhD

Spring 2014

Phillip Shelton

Medicine

*"Glycogen Synthase Kinase 3-beta (GSK3 β) is a Central Regulator
in the Non-canonical NF-E2 Related Factor (Nrf2) Antioxidant Response"*

Mentor: Anil Jaiswal, PhD

Fall 2013

Jihyun Shim

Pharmacy

*"The use of conformational sampling in CHARMM protein force field optimization and
ligand-based drug design"*

Mentor: Alexander MacKerell Jr., PhD

Summer 2013

Jessica Shiu

Medicine

*"The Role of IRAK-M in Limiting Helicobacter-associated
Gastric Immunopathology"*

Mentor: Thomas Blanchard, PhD, JD

Summer 2013

Jacob Matthew Smith

Medicine

*"Role of the Autism-associated Met Tyrosine Kinase Receptor
in Cerebral Cortical Development"*

Mentor: Elizabeth Powell, PhD
Spring 2014

Chandler Rebecca Sours

Medicine

*"An Investigation of the Default Mode Interference Hypothesis
in Mild Traumatic Brain Injury"*

Mentor: Rao Gullapalli, PhD
Spring 2014

Ying Tang

Medicine

"Outcomes of Older Adults Admitted to a Level I Trauma Center"

Mentor: Gordon Smith, MBBCh
Fall 2013

Hugo Tejada

Medicine

"Prefrontal Kappa-opioid Receptor Regulation of Local Neurotransmission"

Mentor: Patricio O'Donnell, MD, PhD
Fall 2013

Cigdem Tosun

Medicine

"The Protective Effect of Glibenclamide in a Novel Model of Hemorrhagic Encephalopathy of Prematurity"

Mentor: J. Marc Simard MD, PhD
Spring 2014

Vidhya Vijayakumar

Medicine

"Study of Serine Protease Autotransporters of Enterobacteriaceae in Citrobacter rodentium Pathogenesis"

Mentor: James Nataro, MD, PhD
Spring 2014

Diana Swann Vivian

Pharmacy

"Application of Bile Acid Transporters in Drug Delivery and Enterohepatic Circulation Assessment"

Mentor: James Polli, PhD
Spring 2014

Lauren Dianne Wagner

Pharmacy

"Race and Age Differences in HAART Discontinuation and Treatment Outcomes Among Individuals with HIV/AIDS and a Comorbid Serious Mental Illness"

Mentor: Susan dosReis, PhD
Spring 2014

Ting Wang

Pharmacy

"Understanding and Predicting Pharmaceutical Excipient Variability and Performance using Spectroscopic and Multivariate Analysis Approaches"

Mentor: Stephen Hoag, PhD

Spring 2014

Patricia Woltz

Nursing

"Health-related Quality of Life and Mortality in Incident Heart Failure from the Cardiovascular Health Study (CHS)"

Mentor: Erika Friedmann, PhD

Spring 2014

Jun Zhang

Pharmacy

"Studies on Extracellular Signal-Regulated Kinase-1/2 (ERK1/2) Function and Identification of Small Molecule Inhibitors that Selectively Target ERK1/2 Regulation of Activator Protein-1 (AP-1) Function in Cancer Cell Proliferation"

Mentor: Paul Shapiro, PhD

Spring 2014

Beth Zucconi

Medicine

"Protein and RNA Determinants Regulating Binding of AUF1, A Major Post-Transcriptional Regulator of Gene Expression"

Mentor: Gerald Wilson, PhD

Summer 2013

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