COMMENCEMENT EXERCISES

SOUTHWESTERN GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

OF

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER



THURSDAY, MAY 16 Two Thousand Twenty-Four Seven p.m. Tom and Lula Gooch Auditorium Dallas, Texas



THE VERNIE A. STEMBRIDGE, M.D. ACADEMIC MACE

UT Southwestern's Vernie A. Stembridge, M.D., Academic Mace is carried in processions and displayed on ceremonial occasions. This symbol of the authority of the faculty to grant degrees, like much of our current academic pageantry, dates from the Middle Ages. The Stembridge Mace was designed by a UT Southwestern alumnus in memory of Vernie A. Stembridge, M.D., a much admired and respected member of UT Southwestern's faculty from 1959 to 2000. The execution of the design was by the Wm. B. Schieffer Studio; the work was completed in 2003.

At the top of the Stembridge Mace sits a Grecian amethyst. The amethyst is traditionally associated with healing of mind, body, and spirit; and service and humility. Some of this amethyst's crystalline facets remain rough and natural while others are smooth and polished to suggest the effect of education upon human attributes.

The Stembridge Mace exhibits a head with seven *bas-relief* cameos: the Aesculapian staff represents the healing arts; the interwoven star indicates the close relationship of the health care professions, the health care team, and the Lone Star State; the dawn offers the promise of a new beginning, or "commencement;" the pyramid symbolizes the creative intellect; the silhouette of Texas (with Dallas indicated) stands for our State and city commitment to education, and the concurrent responsibility of students and faculty to serve our city and State; the double helix (DNA molecule) exemplifies modern biomedical discovery; and the scroll symbolizes the passing of knowledge from teacher to student over the generations.

The overall configuration of the Stembridge Mace suggests the torch of learning. The wooden shaft is made of American Black Walnut, turned and shaped to a classical fluted columnar form.

MACE BEARER

The Mace is carried by Maralice Conacci-Sorrell, Ph.D., the holder of the John Perkins Distinguished Professorship.

John Perkins, Ph.D. was a transformative Dean of the Graduate School of Biomedical Sciences at UT Southwestern whose career was tragically cut short by amyotrophic lateral sclerosis. His legacy is honored by The John Perkins Distinguished Professorship, an endowed chair awarded to a faculty member who has made outstanding contribution to the Graduate School.

ORDER OF EXERCISES

ACADEMIC PROCESSION

Deans and Marshals Southwestern Graduate School of Biomedical Sciences

Deirdre L. Brekken, Ph.D. Arnaldo Díaz Vázquez, Ph.D. Lisa P. Gardner, Ph.D. Rueyling Lin, Ph.D. Stuart E. Ravnik, Ph.D. Joyce J. Repa, Ph.D.

Mace Bearer

Maralice Conacci-Sorrell, Ph.D.

The audience is requested to stand as the procession enters and remain standing for the National Anthem.

Introduction of Speaker Andrew R. Zinn, M.D., Ph.D.

Commencement Address Russell A. DeBose-Boyd, Ph.D. Professor of Molecular Genetics The University of Texas Southwestern Medical Center

PROGRAM DESCRIPTIONS AND HOODING

The audience is requested to delay applause until all candidates have received diplomas.

Closing Remarks...... Andrew R. Zinn, M.D., Ph.D.

RECESSIONAL

The audience is requested to stand during the Recessional and to remain standing in place until the graduates have exited.

BIOLOGICAL CHEMISTRY

Program Director: Benjamin P. Tu, Ph.D.

DOCTOR OF PHILOSOPHY

Christopher Luis Cervantes

B.S., 2014, Massachusetts Institute of Technology Ph.D. Dissertation: *"Investigating the Mechanism and Mode of Action of Golgi Toxins"* Degree Awarded: December 15, 2023 Deepak Nijhawan, M.D., Ph.D., Mentor

Krystal Courtney Johnson

B.S., 2018, The University of Texas at Austin Ph.D. Dissertation: "*Dynamic Shuttling of AGO2 to the Nucleus Relieves MicroRNA Repression*" Degree Awarded: December 15, 2023 David R. Corey, Ph.D., Mentor

Michael Alexander Pontikos

M.S., 2014, Oxford University Ph.D. Dissertation: *"Metabolomic Approaches in Parasitology"* Degree Awarded: August 4, 2023 Margaret A. Phillips, Ph.D. and Noelle S. Williams, Ph.D., Mentors

BIOMEDICAL ENGINEERING

Program Director: W. Matthew Petroll, Ph.D.

DOCTOR OF PHILOSOPHY

Paul Humberto Acosta

B.S., 2018, University of Arizona Ph.D. Dissertation: *"Using Tissue Morphology to Infer Intra-tumor Variation in Molecular State and Response"* Degree Awarded: May 3, 2024 Satwik Rajaram, Ph.D., Mentor

Zachary Thomas Bennett

B.S., 2017, The University of Texas at Austin Ph.D. Dissertation: "*An Ultra-pH-Sensitive Logic Decodes Cancer Imaging and Immunotherapy*" Degree Awarded: December 15, 2023 Jinming Gao, Ph.D., Mentor

Carlos Jesus Brambila

B.S., 2016, San Diego State University Ph.D. Dissertation: *"Enhancing Nanoparticle Drug Delivery to Brain Tumors with Focused Ultrasound"* Degree Awarded: December 15, 2023 Ian R. Corbin, Ph.D., Mentor

Sean A. Dilliard

B.A., 2017, William Marsh Rice University Ph.D. Dissertation: *"Elucidating the Impact of Endogenous Proteins on Lipid Nanoparticle Organ-Targeting Outcomes"* Degree Awarded: August 4, 2023 Daniel J. Siegwart, Ph.D., Mentor

Yin Gao

B.S., 2016, State University of New York, Stonybrook M.S., 2020, Duke University Ph.D. Dissertation: *"Intelligent Automatic Treatment Planning for Radiation Therapy"* Degree Awarded: May 3, 2024 Xun Jia, Ph.D., Mentor

Sheng Qing Lin

B.S., 2017, The University of Texas at Austin Ph.D. Dissertation: *"Efficient Fat/Water Separated MRI: Applications in Musculoskeletal Imaging and Whole-Body Imaging in Multiple Myeloma"* Degree Awarded: May 3, 2024 Ananth J. Madhuranthakam, Ph.D., Mentor

Elizabeth Marie Polsdofer

B.S., 2013, Iowa State University
M.S., 2016, Oregon State University
Ph.D. Dissertation: "Challenging the Rigor of Alpha/Beta and Relative Biological Effectiveness in Tumor Control Probability Determinations via in Silico Modeling that Incorporates Individualized Biological and Pathologic Data"
Degree Awarded: May 3, 2024
Michael Story, Ph.D., Mentor

Limin Zhou

B.S., 2018, Wuhan University Ph.D. Dissertation: "Quantitative Non-Contrast Perfusion Measurements Using Arterial Spin Labeled MRI-Evaluation of Therapy Response in Brain Tumors and Technical Advancements in Kidneys" Degree Awarded: May 3, 2024 Ananth J. Madhuranthakam, Ph.D., Mentor

CANCER BIOLOGY

Program Director: Rolf A. Brekken, Ph.D.

DOCTOR OF PHILOSOPHY

Ester Alvarez Benedicto

B.S., 2018, University of Puerto Rico, Rio Piedras Ph.D. Dissertation: *"Engineering Lipid Nanoparticle-Mediated Delivery of Nucleic Acids to Lymphoid Organs and Immune Cells"* Degree Awarded: August 4, 2023 Daniel J. Siegwart, Ph.D., Mentor

Joseph Louis Bower

B.S., 2016, University of Arizona
Ph.D. Dissertation: "Dual Receptor Uptake of Low-Density Lipoprotein Docosahexaenoic Acid (LDL-DHA) Elicits Differential Sensitivity across Breast Cancer Subtypes"
Degree Awarded: August 4, 2023
Ian R. Corbin, Ph.D., Mentor

Yan Fang

B.S., 2015, Tsinghua University M.S., 2018, Tsinghua University Ph.D. Dissertation: *"The Mechanism of cGAMP-induced Antitumor Immunity"* Degree Awarded: May 3, 2024 Zhijian "James" Chen, Ph.D., Mentor

Mauricio Antonio Marquez Palencia

B.S., 2017, University of California, San Diego Ph.D. Dissertation: "AXL-WRNIP1 Mediated Replication Stress Response Promotes Therapy Resistance and Metachronous Metastasis in HER2+ Breast Cancer" Degree Awarded: December 15, 2023 Srinivas Malladi, Ph.D., Mentor

Carla Sofia Rodriguez Tirado

B.S., 2018, University of Puerto Rico, Rio Piedras Ph.D. Dissertation: *"UBE2J1 is the E2 Ubiquitin-Conjugating Enzyme Regulating Androgen Receptor Degradation and Antiandrogen Resistance"* Degree Awarded: May 3, 2024 Ping Mu, Ph.D., Mentor

Mingrui Zhu

B.S., 2017, Wuhan University Ph.D. Dissertation: *"Targeting and Modeling Immune Resistance in Lung Cancer"* Degree Awarded: August 4, 2023 Esra A. Akbay, Ph.D., Mentor

CELL AND MOLECULAR BIOLOGY

Program Director: Angelique W. Whitehurst, Ph.D.

DOCTOR OF PHILOSOPHY

Julita Chlebowicz

B.S., 2015, Warsaw University of Technology
M.S.E., 2017, Warsaw University of Technology
Ph.D. Dissertation: "Decoding Sequence Determinants of Alpha Synuclein Aggregation"
Degree Awarded: August 4, 2023
Marc I. Diamond, M.D., Mentor

Bianca Catriona Field

B.A., 2013, Barnard College Ph.D. Dissertation: *"Systemic Impact of Insulin-Sensitized Adipocytes and their Precursors"* Degree Awarded: December 15, 2023 Phillipp E. Scherer, Ph.D., Mentor

Atossa Ghorashi

B.S., 2014, Stockton State College Ph.D. Dissertation: *"Fucose in the Time of Cholera: Host Cell Glycoproteins and Glycolipids Play Opposing Roles in Cholera Intoxication"* Degree Awarded: August 4, 2023 Jennifer J. Kohler, Ph.D., Mentor

Mehmet Oguz Gok

B.A., 2015, Sabanci University B.S., 2018, Sabanci University Ph.D. Dissertation: *"Investigating the Regulation of Receptor-Mediated Mitophagy"* Degree Awarded: May 3, 2024 Jonathan R. Friedman, Ph.D., Mentor

Amrita Shrikant Gokhale

M.S., 2016, Savitribai Phule Pune University Ph.D. Dissertation: *"Understanding the Role of Loner in Myoblast Fusion"* Degree Awarded: August 4, 2023 Elizabeth H. Chen, Ph.D., Mentor

Lizbeth Perez Castro

B.S., 2017, University of Puerto Rico, Cayey Ph.D. Dissertation: "Discovery of Novel Functions of the Transcription Factor AHR and its Tryptophan-Derived Ligands in Cancer Cells" Degree Awarded: May 3, 2024 Maralice Conacci-Sorrell, Ph.D., Mentor

Hande C. Piristine

B.A., 2014, Wellesley College Ph.D. Dissertation: *"The Role of Metabolic Inflexibility in Heart Failure"* Degree Awarded: December 15, 2023 Joseph A. Hill, M.D., Ph.D., Mentor

Luis Carlos Reza Herrera

B.S., 2018, The University of Texas at El Paso Ph.D. Dissertation: "Analysis of Meiotic Cancer Testis Antigens and their Contribution to Tumorigenesis" Degree Awarded: August 4, 2023 Angelique W. Whitehurst, Ph.D., and Anthony J. Davis, Ph.D., Mentors

Manolo Uriel Rios

B.S., 2017, The University of Texas at Dallas M.S., 2018, The University of Texas at Dallas Ph.D. Dissertation: *"Molecular Mechanisms of Centrosome Assembly and Strength"* Degree Awarded: May 3, 2024 Jeffrey B. Woodruff, Ph.D., Mentor

Spencer Dewayne Shelton

B.S., 2018, Texas State University Ph.D. Dissertation: "Consequences of Pathogenic Mitochondrial DNA Mutations in Cancer Progression" Degree Awarded: May 3, 2024 Prashant Mishra, M.D., Ph.D., Mentor

Natalie Ortiz Speer

B.S., 2019, University of California, San Diego Ph.D. Dissertation: "Molecular Dissection of Bsc2: a Novel Negative Regulator of Triglyceride Lipolysis for a Lipid Droplet Subpopulation" Degree Awarded: December 15, 2023 William M. Henne, Ph.D., Mentor

CLINICAL PSYCHOLOGY

Program Director: Richard C. Robinson, Ph.D.

DOCTOR OF PHILOSOPHY

Ellen Marie Andrews

B.A., 2017, Vanderbilt University
Ph.D. Dissertation: "A Randomized Controlled Trial of a Cellphone-Based Intervention to Promote Lethal Means Safety in Suicidal Adolescents"
Degree Awarded: August 4, 2023
Beth D. Kennard, Psy.D., ABPP, Mentor

Haley Sora Brown

B.A., 2015, Baylor University
MSW, 2017, Texas Christian University
Ph.D. Dissertation: "Impact of Web-Based Psychosocial Intervention on Perceived Ability to Address Cancer-Related Concerns in Adolescents and Young Adults with Cancer"
Degree Awarded: August 4, 2023
Brittany C. Hall, Ph.D. and Laura S. Howe-Martin, Ph.D., ABPP, Mentors

Tanisha R. Clark

B.A., 2009, Spelman College
M.Ed., 2016, Southern Methodist University
Ph.D. Dissertation: "Racial Socialization Intervention for African American Children with Experiences of Racialized Trauma: Training Development and Pilot Among Community-Based Clinicians"
Degree Awarded: August 4, 2023
Jill D. McLeigh, Ph.D. and Sunita M. Stewart, Ph.D., ABPP, Mentors

Karen Atilegna Dorsman

B.A., 2013, Universidad Católica del Uruguay
Ph.D. Dissertation: "Adaptive Behavior in a Sample of Culturally and Linguistically Diverse Children with 22q11.2 Deletion Syndrome"
Degree Awarded: August 4, 2023
Veronica B. Edgar, Ph.D., Mentor

Afsoon Gazor

B.S., 2016, The University of Texas at Arlington
M.Ed., 2018, Vanderbilt University
Ph.D. Dissertation: "Pilot Treatment Development: Improving Adolescent Suicide Risk with a Standardized, Brief, Group Sleep Intervention"
Degree Awarded: August 4, 2023
Sunita M. Stewart, Ph.D., ABPP and William D. Brown, Ph.D., Mentors

William Foster Goette

B.A., 2014, The University of Texas at Tyler
M.S., 2016, The University of Texas at Tyler
Ph.D. Dissertation: "Explaining Racial and Ethnic Alzheimer's Disease Disparities with Joint Estimation of Life Course Social Inequities and Measurement Bias in Verbal Memory Assessment"
Degree Awarded: December 15, 2023
Laura J. Lacritz, Ph.D., Mentor

Allison P. Gregg

B.A., 2018, William Marsh Rice University
Ph.D. Dissertation: "Establishing Neurocognitive Profiles of Major Depressive Disorder Subtypes"
Degree Awarded: August 4, 2023
Shawn M. McClintock., Ph.D., M.S.C.S, Mentor

Jessica Orobio

B.S., 2014, Texas A&M University
Ph.D. Dissertation: "The Development and Validation of a Spanish Verbal Memory Test for Children (SVMT-C): A Pilot Study"
Degree Awarded: August 4, 2023
Joy Neumann, Psy.D., and Lana L. Harder, Ph.D., ABPP, Mentors

Jessica Marie Woodford

B.A., 2011, The Ohio State University
M.A., 2014, Pepperdine University
Ph.D. Dissertation: "Development of the Multicultural Curriculum Appraisal (MCCA): A Process to Promote Multicultural Infusion into APA Accredited Doctoral Program Curriculum"
Degree Awarded: August 4, 2023
Sunita M. Stewart, Ph.D., ABPP and Kipp R. Pietrantonio, Ph.D., Mentors

GENETICS, DEVELOPMENT, AND DISEASE

Program Director: Ondine B. Cleaver, Ph.D.

DOCTOR OF PHILOSOPHY

Daniel Alejandro Armendariz

B.S., 2016, The University of Texas at El Paso Ph.D. Dissertation: *"CHD-Associated Enhancers Shape Human Cardiomyocyte Lineage Commitment"* Degree Awarded: August 4, 2023 Gary C. Hon, Ph.D., Mentor

Phoebe Catherine Carter

B.S., 2017, The University of Texas at Dallas Ph.D. Dissertation: *"Investigating the Role of Hippo/Warts Signaling in Sarcomatoid Renal Cell Carcinoma"* Degree Awarded: December 15, 2023 Thomas J. Carroll, Ph.D., Mentor

Andreas Chenzhang Chai

B.S., 2016, Johns Hopkins University Ph.D. Dissertation: "*Precision Gene Editing for Muscle Diseases*" Degree Awarded: August 4, 2023 Eric N. Olson, Ph.D., Mentor

Tyron Chang

B.S., 2015, California State University, Chico Ph.D. Dissertation: "*New Roles for Mitochondria in Shaping Antiviral and Stress Responses*" Degree Awarded: May 3, 2024 Dustin C. Hancks, Ph.D., Mentor

Yujing Cheng

B.S., 2017, Tsinghua University Ph.D. Dissertation: "A Non-Canonical Role for a Small Nucleolar RNA in Ribosome Biogenesis and Cellular Senescence" Degree Awarded: May 3, 2024 Joshua T. Mendell, M.D., Ph.D., Mentor

Lauretta El Hayek

B.S., 2015, Lebanese American University
M.S., 2018, Lebanese American University
Ph.D. Dissertation: *"From Genetics to Neurodevelopment: Identifying the Role of the Chromatin Remodeler KDM5A in Autism Spectrum Disorder"*Degree Awarded: December 15, 2023
Maria H. Chahrour, Ph.D., Mentor

Tuozhi Huang

B.S., 2016, Tsinghua University Ph.D. Dissertation: *"Mechanism and Functions of STING-induced Noncanonical Autophagy"* Degree Awarded: May 3, 2024 Zhijian "James" Chen, Ph.D., Mentor

Usman Hyder

B.S., 2018, The University of Texas at Dallas Ph.D. Dissertation: "Delineating Mechanisms of Signal-Induced RNA Polymerase II Transcription" Degree Awarded: December 15, 2023 Ivan D'Orso, Ph.D., Mentor

Benjamin Thomas Jones

B.S., 2016, Texas A&M University Ph.D. Dissertation: *"The Role of Target-Directed microRNA Degradation in Mammalian Development"* Degree Awarded: December 15, 2023 Joshua T. Mendell, M.D., Ph.D., Mentor

Chunyang Ni

B.S., 2017, Sun Yat Sen University Ph.D. Dissertation: "Dynamic Regulation of Ribosome Biogenesis and its Role in Early Brain Development" Degree Awarded: December 15, 2023 Michael Buszczak, Ph.D., Mentor

Nicole Marie Novaresi

B.A., 2015, De Pauw University
Ph.D. Dissertation: *"Therapeutic Targeting of Protocadherin 7 in Lung Adenocarcinoma"*Degree Awarded: December 15, 2023
Kathryn A. O'Donnell, Ph.D., Mentor

Carlos Andres Pinzon Arteaga

D.V.M., 2015, National University of Colombia M.S., 2017, Texas A&M University Ph.D. Dissertation: *"From Stem Cells to Blastoids: Unraveling Early Development and Gene Silencing Mechanisms"* Degree Awarded: December 15, 2023 Jun Wu, Ph.D., Mentor

Daniel Andrew Schmitz

B.S., 2017, California State University, Long Beach Ph.D. Dissertation: *"From Enhancers to Mitochondria: Modified Stem Cells to Study Development and Pluripotency"* Degree Awarded: May 3, 2024 Jun Wu, Ph.D., Mentor

Choushi Wang

B.S., 2018, Wuhan University Ph.D. Dissertation: *"How Prostate Cancer Cells Modify Lineage and Microenvironment to Escape Targeted Therapy"* Degree Awarded: May 3, 2024 Ping Mu, Ph.D., Mentor

Jingcheng Wang

B.S., 2017, Wuhan University Ph.D. Dissertation: "*Topological Regulation of TM4SF20*" Degree Awarded: August 4, 2023 Jin Ye, Ph.D., Mentor

Yichi Zhang

B.S. 2014, Queens University
M.S., 2016, Carleton University
Ph.D. Dissertation: *"Mechanistic Basis of Skeletal Muscle Wasting Diseases"*Degree Awarded: December 15, 2023
Eric N. Olson, Ph.D. and Rhonda S. Bassel-Duby, Ph.D., Mentors

IMMUNOLOGY

Program Director: Anne B. Satterthwaite, Ph.D.

DOCTOR OF PHILOSOPHY

Sushobhna Batra

B.S., 2016, State University of New York, Buffalo Ph.D. Dissertation: "*VCP Co-factors Dictate the Fate of Tau Seeds*" Degree Awarded: August 4, 2023 Marc I. Diamond, M.D., Mentor

Ryan Shie Huang

B.S., 2016, The University of Texas at Austin Ph.D. Dissertation: *"LILRB3 Supports Immunosuppressive Activity of Myeloid Cells and Tumor Development"* Degree Awarded: May 3, 2024 Chengcheng "Alec" Zhang, Ph.D., Mentor

Kennady Noelle Knox

B.S., 2017, Texas Tech University Ph.D. Dissertation: *"STING Signaling in Adaptive Immunity and Respiratory Pathophysiology"* Degree Awarded: May 3, 2024 Nan Yan, Ph.D., Mentor

MOLECULAR BIOPHYSICS

Program Director: Luke M. Rice, Ph.D.

DOCTOR OF PHILOSOPHY

Michael Antonio Cotten

B.S., 2014, Baylor University M.S., 2016, Baylor University Ph.D. Dissertation: "*Modulating Protein-Protein Interactions* to Understand Biomolecular Condensate Partitioning" Degree Awarded: May 3, 2024 Michael K. Rosen, Ph.D., Mentor

Umang Goswami

B.Tech., 2013, Kurukshetra University
M.S., 2018, Texas A&M University
Ph.D. Dissertation: " Structural Interplay of Anesthetics and Paralytics on Muscle Nicotine Receptors"
Degree Awarded: August 4, 2023
Ryan E. Hibbs, Ph.D., Mentor

Casey Elizabeth Hudman-Wing

B.S., 2016, The University of Texas at Dallas Ph.D. Dissertation: *"Identifying Novel Interaction Partners for Importin-8 and CRM1/XPO1"* Degree Awarded: May 3, 2024 Yuh Min Chook, Ph.D., Mentor

Dagimhiwat Hailu Legesse

B.S., 2014, San Francisco State University
Ph.D. Dissertation: "Understanding the Structure and Function of GABA_A Receptors Using Cryo-Electron Microscopy"
Degree Awarded: August 4, 2023
Ryan E. Hibbs, Ph.D., Mentor

Philip Frederick Paul Schmiege

B.A., 2014, Boston University Ph.D. Dissertation: *"Structures and Mechanisms of Lysosomal Transporters"* Degree Awarded: December 15, 2023 Xiaochun Li, Ph.D., Mentor

Jesus A. Vega Lugo

B.S., 2018, University Sagrado Corazon Ph.D. Dissertation: "Quantitative Analysis of Spatial and Temporal Organization of Cell Surface Receptors" Degree Awarded: May 3, 2024 Khuloud Jaqaman, Ph.D., Mentor

Liwei Wang

B.S., 2019, Wuhan University Ph.D. Dissertation: "Structural Investigation of the Alkaline pH-Dependent Activation of Insulin Receptor-Related Receptor" Degree Awarded: December 15, 2023 Xiaochen Bai, Ph.D., Mentor

MOLECULAR MICROBIOLOGY

Program Director: John W. Schoggins, Ph.D.

DOCTOR OF PHILOSOPHY

Melissa Renee Budicini

B.S., 2018, University of Notre Dame Ph.D. Dissertation: *"Factors that Influence Murine Norovirus Stability and Tropism"* Degree Awarded: May 3, 2024 Julie K. Pfeiffer, Ph.D., Mentor

Wesley Berry Buford

B.S., 2008, San Francisco State University
M.S., 2012, San Diego State University
Ph.D. Dissertation: "Design, Development, and Interrogation of Salmonella Typhimurium Minimal Effector Networks During Infection"
Degree Awarded: December 15, 2023
Neal M. Alto, Ph.D., Mentor

Matthew Bret McDougal

B.S., 2018, Louisiana Tech University Ph.D. Dissertation: *"Investigating Interferon-Inducible Antiviral Effectors through a Virological and Evolutionary Lens"* Degree Awarded: May 3, 2024 John W. Schoggins, Ph.D., Mentor

Moiz Munir

B.S., 2017, University of Missouri Ph.D. Dissertation: "Genome-wide CRISPR Activation Screen Identifies JADE3 as an Antiviral Activator of NF-kB Dependent IFITM3 Expression" Degree Awarded: May 3, 2024 Robert C. Orchard, II, Ph.D., Mentor

Keyera Larlan Randolph

B.S., 2017, Saint Mary's University Ph.D. Dissertation: *"Functional Analysis of KAP1 Requirements for HIV-1 Transcription and Latency Reactivation"* Degree Awarded: May 3, 2024 Ivan D'Orso, Ph.D., Mentor

Vivian Kimberly Rojas

B.S., 2017, The University of Texas at Arlington Ph.D. Dissertation: "*Gene Regulation of Tartrate Metabolism in Salmonella Typhimurium*" Degree Awarded: May 3, 2024 Sebastian E. Winter, Ph.D., Mentor

Da Hee Seo

B.S., 2017, Brown University Ph.D. Dissertation: "Poxvirus A51R Proteins Directly Bind to Microtubules to Antagonize Microtubule Dynamics, Intracellular Transport, and a Cell-Intrinsic Antiviral Response" Degree Awarded: May 3, 2024 Don B. Gammon, Ph.D., Mentor

MASTER OF SCIENCE

Nguyen Hoang Khanh Vo

B.S., 2020, California State University, Sacramento Master's Degree Awarded by Examination Degree Awarded: August 4, 2023 Yuki Obata, Ph.D., Mentor

NEUROSCIENCE

Program Director: Maria H. Chahrour, Ph.D.

DOCTOR OF PHILOSOPHY

Newaz Ibrahim Ahmed

B.S., 2015, The University of Texas at Austin
Ph.D. Dissertation: "Compensation Between FOXP Transcription Factors Maintains Proper Striatal Function"
Degree Awarded: August 4, 2023
Genevieve Konopka, Ph.D., Mentor

Danyal Hassan Alam

B.A., 2015, Hunter College, City University of New York Ph.D. Dissertation: *"From Song to Sleep: A Multi-Project Investigation into the Courtship Song of Zebra Finch, Memory Consolidation, and Transgene Expression"* Degree Awarded: August 4, 2023 Todd F. Roberts, Ph.D., Mentor

Emre Caglayan

B.S., 2016, Bilkent University
M.S. 2018, Heidelberg University
Ph.D. Dissertation: "Molecular Underpinnings of Human Brain Evolution and Cognition at Cellular Resolution"
Degree Awarded: December 15, 2023
Genevieve Konopka, Ph.D., Mentor

Ambar Cajigas Hernandez

B.S., 2016, University of Puerto Rico, Rio Piedras Ph.D. Dissertation: *"The Role of Stac3 in Synapse Elimination and Maturation"* Degree Awarded: May 3, 2024 Weichun Lin, Ph.D., Mentor

Katherine Poinsatte

B.A., 2014, Kenyon College Ph.D. Dissertation: "*Remodeling of the Axonal and Synaptic Projectome in the Whole Brain and Cervical Spinal Cord Following Motor Cortex Stroke*" Degree awarded: May 3, 2024 Mark P. Goldberg, M.D., Denise M. Ramirez, Ph.D., and Helen C. Lai, Ph.D., Mentors

Jennifer Nicole Putman

B.S., 2015, The University of Texas at Dallas
M.S., 2016, The University of Texas at Dallas
Ph.D. Dissertation: "Pre-and Postsynaptic MEF2C Promote Experience-Dependent, Input-Specific Development of Local Cortical Excitatory Synapses"
Degree Awarded: December 15, 2023
Kimberly M. Huber, Ph.D., Mentor

Natalia Rodriguez-Sosa

B.S., 2017, University of Puerto Rico, Rio Piedras Ph.D. Dissertation: "GABA Co-Release from Excitatory Pallidal Projections to the Lateral Habenula Controls Depression-Related Behaviors" Degree Awarded: May 3, 2024 Steven J. Shabel, Ph.D., Mentor

Gordon Chandler Werthmann

B.S., 2017, Brown University Ph.D. Dissertation: *"The Role of Progranulin in Frontotemporal Dementia"* Degree Awarded: August 4, 2023 Joachim Herz, M.D., Mentor

ORGANIC CHEMISTRY

Program Director: Uttam K. Tambar, Ph.D.

DOCTOR OF PHILOSOPHY

Jake M. Aquilina

B.S., 2019, City University of New York, John Jay College of Criminal Justice Ph.D. Dissertation: *"Chemical Investigations in Complex Alkaloid Synthesis"* Degree Awarded: December 15, 2023 Myles W. Smith, Ph.D., Mentor

James Edward McGettigan, Jr.

B.S., 2018, Juniata College Ph.D. Dissertation: "Development of New Stereoselective Reactions Using Alkenyl Boronate Complexes" Degree Awarded: May 3, 2024 Joseph M. Ready, Ph.D., Mentor

Cooper Atkins Vincent

B.S., 2017, Gonzaga University
M.S., 2019, Western Washington University
Ph.D. Dissertation: "Synthesis of Sulfonyl Fluorides and the Total Synthesis of the Rhodocorane Natural Products"
Degree Awarded: December 15, 2023
Uttam K. Tambar, Ph.D., Mentor

HONORS AND AWARDS FOR EXCELLENCE IN RESEARCH AND SERVICE RECEIVED BY 2023-2024 GRADUATES SOUTHWESTERN GRADUATE SCHOOL

American Heart Association Predoctoral Fellowship

Andreas Chenzhang Chai (2022) Umang Goswami (2021)

Leita Marsh Altrusa Award

Mehmet Oguz Gok (2024)

Dean's Discretionary Award (Nominata Finalist) Yichi Zhang (2024)

Howard Hughes Medical Institute Gilliam Fellowship Ester Alvarez Benedicto (2021)

Carmen Miller Michael Award for Scholarship and Service Ellen Marie Andrews (2023) William Foster Goette (2023)

National Science Foundation Graduate Research Fellowship Ester Alvarez Benedicto (2018) Mauricio Antonio Marquez Palencia (2019) Matthew Bret McDougal (2019) Spencer Dewayne Shelton (2019)

NIH Predoctoral to Postdoctoral Fellow Transition Award Usman Hyder (2021)

NIH Ruth L. Kirschstein National Research Service Award Newaz Ibrahim Ahmed (2020)

Zachary Thomas Bennett (2020) Andreas Chenzhang Chai (2022) William Foster Goette (2023) Krystal Courtney Johnson (2020) Dagimhiwat Hailu Legesse (2020) Carla Sofia Rodriguez Tirado (2022) Philip Frederick Paul Schmiege (2022) Daniel Andrew Schmitz (2022)

HONORS AND AWARDS (continued)

Sandra L. Warshak Outstanding Dissertation Award Afsoon Gazor (2023)

Rush C. Williams Award for Scholarship and Service Karen Atilegna Dorsman (2022)

CANDIDATES FOR GRADUATE DEGREES MEDICAL SCIENTIST TRAINING PROGRAM

The Medical Scientist Training Program is a program leading to both the M.D. and the Ph.D. degrees. The University is pleased to note this significant achievement.

August 4, 2023

Andreas Chenzhang Chai (2025) Michael Alexander Pontikos (2025) Gordon Chandler Werthmann (2025)

December 15, 2023

Bianca Catriona Field (2025) Hande C. Piristine (2026)

May 3, 2024

Kennady Noelle Knox (2027) Moiz Munir (2026)

ACADEMIC HERALDRY AND REGALIA

Although the people, the places and the styles have changed, you are about to participate in a reenactment of a ceremony, which has existed for nearly nine centuries: the recognition of academic achievement.

The tradition of recognizing academic accomplishment with ceremony, bright color and distinctive dress is an exercise that has existed through the ages. Although the commencement ceremony and academic costume of most colleges and universities in the United States are guided by a twentieth century standard, their roots are found in the development of the universities during the Middle Ages. The medieval universities of Western Europe, such as Paris, Bologna, Cambridge and Oxford, have provided us with an institutional format -- the university structure; a measure of progress -- degrees; and a ceremony of achievement -- commencement.

The academic hood is derived from the cloak, which in medieval times was worn over the gown. Attached to the cloak, at the back of the neck, was a cowl hood that hung down or could be pulled over the head for warmth. After time, this hood became a separate article, worn over the shoulders and hanging down the wearer's back. With the coming into fashion of caps and hats during the fifteenth century, the hoods soon became more ornamental than functional.

Whereas it is generally understood that in Europe gowns were necessary for warmth and hoods covered the academic clerics' tonsured heads, today the American tradition has evolved toward individual expression of the institution. Although the style of the hood is not unique to each institution, the combinations of colors and chevrons have been standardized in the United States for nearly 100 years. The satin colors of the hood lining represent the institution conferring the degree. The academic colors for all components of The University of Texas System are orange and white. The color of the academic hood's velvet trim is distinctive of the degree earned, as is the tassel on the cap. Historical associations of color continue to signify the various faculties and generally carry the traditions established by their early English counterparts. The green of medicinal herbs immediately identifies a medical degree. Philosophy is signified by dark blue, the traditional color of truth and wisdom. The wealth of information earned through research in science is represented by golden yellow. The arts, letters and humanity are represented by the purity of white.

Cords worn with academic regalia: Green and gold - Alpha Omega Alpha Honor Medical Society Red, white, and blue - US Armed Forces, Active Duty and Veterans Solid color - Medical School Academic College Light blue stoles - Southwestern Academy of Teachers Medals - The University of Texas Academy of Health Science Educators and UT System Regents' Outstanding Teacher Award

Degrees will be officially conferred to Candidates for Graduation identified in this Commencement Booklet who have met all requirements on the recommendation of the Faculty of the Graduate School for Biomedical Sciences and by virtue of the authority vested in the Faculty and Dean by the Regents of The University of Texas.