

2021

Drexel University  
Commencement Ceremonies

College of Medicine

MAY THE EIGHTEENTH  
PHILADELPHIA, PENNSYLVANIA



TABLE of CONTENTS

Message from the President . . . . . 1

Commencement Ceremony . . . . . 2

*Graduate Student Oath and  
    The Physician’s Pledge* . . . . . 3

Citation of Fifty-Year Graduates  
1971-2021 . . . . . 4

Honorary Degree Recipient  
and Commencement Speaker . . . . . 5

Degree Recipients . . . . . 6

Academic Awards . . . . . 18

Special Recognitions . . . . . 20

The Commencement Tradition . . . . . 21

Trustees of Drexel University . . . . . 22

Dear Graduates,

I am privileged to honor you for the outstanding achievement that brought you to this pivotal stage in your medical training, research and scientific studies. This is a moment of celebration, when you should take great pride in your many accomplishments.



As you move on to further training, career development and other professional experiences, you can be certain that your achievements are magnified many times over — because they are part of something much larger. It is that cherished legacy of helping patients, saving lives, advancing knowledge and expanding access to health care that is central to the mission of Drexel’s College of Medicine.

There are many challenges in your chosen fields, from the transformative power of technology, to the need for patient-centered care, to the imperative to foster better public health and ensure social justice. With the COVID-19 pandemic, your skills have never been more in demand and the challenges before you loom that much larger. Even so, I am confident that you are joining the ranks of Drexel physicians, scientists and professionals who are making a difference across health care and related fields.

I salute your efforts, and those of everyone who helped you achieve this milestone. With the mentoring of the Drexel faculty and the support of your family and friends, you have completed a monumental learning journey.

As you join a Drexel alumni community that spans the globe, it is my hope that your time at the College of Medicine has instilled a desire to stay involved. The colleagues and friends from your time at Drexel will continue to enrich your life, and I urge you to serve as proud alumni ambassadors for the College you helped to shape and sustain.

What a rare privilege you have in serving others with dedication as clinicians, researchers or administrators. You can be confident that your preparation has been outstanding and that your future is bright.

On behalf of the trustees, faculty and professional staff of Drexel University, I wish you all the best in fulfilling your career and personal goals.

Sincerely,

*JL Fry*  
John Fry  
President

*As a courtesy to our graduates and guests, please silence all phones and electronic devices during the Commencement Ceremony.*

### *Academic Procession*

---

Pomp and Circumstance March No. 1  
*Edward Elgar*

### *National Anthem*

---

Star-Spangled Banner  
*Francis Scott Key*

### *Opening Remarks*

---

Donna M. Russo, PhD  
*William Maul Measey Chair in Medical Education*  
*Interim Vice Dean for Educational Affairs*  
*Senior Associate Dean for Curriculum*  
*Professor, Microbiology & Immunology*

### *Remarks by the Dean*

---

Charles B. Cairns, MD  
*Walter H. and Leonore Annenberg Dean,*  
*College of Medicine*  
*Senior Vice President of Medical Affairs*  
*Professor of Emergency Medicine*

### *Welcome*

---

John Fry  
*President, Drexel University*

### *Greetings*

---

Stanley W. Silverman  
*Vice Chair, Drexel University Board of Trustees*

### *Recognition of Academic Awards*

---

Charles B. Cairns

### *Citation of Fifty-Year Graduates 1971-2021*

---

Charles B. Cairns

### *Conferring of Honorary Degree*

---

John Fry  
Charles B. Cairns

### *Doctor of Science*

---

Drew Weissman, MD, PhD

### *Commencement Address*

---

Drew Weissman

### *Recognition of Student Awards*

---

Charles B. Cairns

### *Spoken Word Poem*

---

*"A Survivor's Guide to Graduating"*

Theophilus Owofu Abah  
*Class of 2021*

### *Charge to the Graduates*

---

Charles B. Cairns

### *Conferring of Graduate Degrees*

---

John Fry

Elisabeth J. Van Bockstaele, PhD  
*Founding Dean, Graduate School of Biomedical Sciences*  
*and Professional Studies*  
*Chief Strategy Officer*  
*Senior Vice President for Graduate and Online Education*  
*Dean, Graduate College*  
*Professor of Pharmacology and Physiology*

Jed Shumsky, PhD  
*Senior Associate Dean of Educational*  
*and Academic Affairs*  
*Professor of Neurobiology and Anatomy*

### *Investiture*

---

### *Administration of the Graduate Student Oath*

---

Elisabeth J. Van Bockstaele

### *Conferring of Doctor of Medicine Degrees*

---

John Fry

Charles B. Cairns

Donna M. Russo

Amy C. Fuchs, MD  
*Senior Associate Dean for Student Affairs*  
*Associate Professor of Medicine*

Seema Baranwal, MD  
*Associate Dean for Student Affairs*  
*Associate Professor of Medicine*

Linda Berardi-Demo, EdD  
*Associate Dean, Admissions,*  
*Enrollment & Student Affairs*  
*Assistant Professor, Department of Medicine*

*All degrees awarded at this Commencement*  
*carry an official conferral date of*  
**May 14, 2021**

*Investiture**Administration of the Physician's Pledge*

Leon McCrea II, MD, MPH  
*Senior Associate Dean of Diversity, Equity and Inclusion*  
*Associate Professor of Family, Community, &*  
*Preventive Medicine*

*Military Oath for MD Officers*

Richard J. Hamilton, MD, HU '87  
*Captain, Medical Corps, United States Navy (Retired)*  
*Regional Associate Dean for Crozer Keystone*  
*Health System*  
*Academic Chair and Professor of Emergency Medicine*

*Induction into the Alumni Association*

Edward Siegel, MD '12, MBA  
*President-Elect, Alumni Association*

*Graduate Remarks*

Sitara Soundararajan, MD  
*Class of 2021*

*Farewell*

Amy C. Fuchs

*Recessional**Faculty Marshals*

Amy Baranoski, MD '03, MSc  
*Assistant Dean, Phase One Curriculum*  
*Associate Professor of Medicine*

Dana C. Farabaugh, MD '03  
*Associate Dean for Clinical Education*  
*Associate Professor of Obstetrics & Gynecology*

Nathalie S. May, MD  
*Associate Professor of Medicine*

Anh-Thu Vu, MD  
*Assistant Professor of Neurology*

*Graduate Student Oath*

I will represent my profession honorably by conducting myself and my professional endeavors in a manner that is above reproach. I pledge never to allow financial gain or ambition to cloud my judgment. I will pursue truth and create knowledge for the greater good, but never to the detriment of others. I will maintain scientific integrity in all my work.

I will acknowledge and honor the contributions of those who have preceded me and will commit myself to lifelong learning. I will show compassion, embrace diversity and uphold excellence so that I become a worthy role model deserving of respect by all.

*World Medical Association Declaration of Geneva***The Physician's Pledge:**

AS A MEMBER OF THE  
 MEDICAL PROFESSION...

I SOLEMNLY PLEDGE to dedicate my life to the service of humanity;  
 THE HEALTH AND WELL-BEING OF MY PATIENT will be my first consideration;

I WILL RESPECT the autonomy and dignity of my patient;

I WILL MAINTAIN the utmost respect for human life;

I WILL NOT PERMIT considerations of age, disease or disability, creed, ethnic origin, gender, nationality, political affiliation, race, sexual orientation, social standing or any other factor to intervene between my duty and my patient;

I WILL RESPECT the secrets that are confided in me, even after the patient has died;

I WILL PRACTICE my profession with conscience and dignity and in accordance with good medical practice;

I WILL FOSTER the honor and noble traditions of the medical profession;

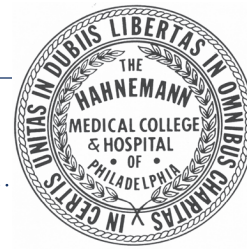
I WILL GIVE to my teachers, colleagues, and students the respect and gratitude that is their due;

I WILL SHARE my medical knowledge for the benefit of the patient and the advancement of healthcare;

I WILL ATTEND TO my own health, well-being, and abilities in order to provide care of the highest standard;

I WILL NOT USE my medical knowledge to violate human rights and civil liberties, even under threat;

I MAKE THESE PROMISES solemnly, freely, and upon my honor.

*Citation of College of Medicine Fifty-Year Graduates, 1971-2021***Hahnemann Medical College***Class of 1971*

Leland Russell Abbey, MD  
Edward B. Arenson Jr., MD  
Stephen Babic, MD  
Stephen E. Barron, MD  
Ollice Bates Jr., MD  
Joseph M. Becker, MD  
Joseph M. Bednarek, MD  
Mark Berger, MD \*  
Georgetta C. Bidwell-Voit, MD  
Robert E. Black, MD  
Michael H. Bleshman, MD  
Harry L. Bremer, MD  
Eric N. Burkett, MD  
Patricia A. Camody-Johnston, MD  
Anthony G. Campo Jr., MD  
Henry H. Canton Jr., MD  
Richard J. Carlson, MD  
Paul T. Cass, MD  
Jerome H. Check, MD  
T. Craig Childs, MD  
Alan Ciccirelli, MD \*  
Patricia A. Convery-Glover, MD  
Patrick A. Coyne, MD \*  
Duane E. Davis, MD  
Francis N. Deluca, MD  
Alain R. Derasse, MD \*  
John E. Devenney, MD  
Martin R. Eichelberger, MD  
Robert Enck, MD  
F. Richard Ervin, MD  
Ronald Feigin, MD  
Steven A. Field, MD  
Theodore Fink, MD  
Howard Frank, MD  
Irvin D. Franklin, MD  
Allen S. Gabroy, MD  
Richard A. Gambescia, MD  
Francis C. Gamza, MD

Stanley R. Goldman, MD  
Herbert P. Goodheart, MD  
James A. Gosper, MD  
Michael E. Gotthelf, MD  
Barry Edward Graham, MD  
Lowell T. Greenwald, MD \*  
Gloria A. Grzybicki, MD \*  
Robert H. Hale, MD  
Ward D. Heinrich Jr., MD  
Robert P. Hershkowitz, MD \*  
Lee H. Hertz, MD  
Orie E. Kaltenbaugh, MD  
Sheldon R. Karasick, MD  
George L. Kirkpatrick, MD \*  
William J. Knox III, MD  
Clark Kopycinski, MD \*  
Gary H. Kramer, MD  
Margaret A. Kraybill, MD  
Lawrence F. Kron, MD  
John R. Kuhns, MD  
Stephen H. Laffey, MD  
Edward C. Lamon, MD  
F. Forrest Lang, MD \*  
Harry J. Lessig, MD  
Bruce A. Levy, MD  
J. Leonard Lichtenfeld, MD  
Thomas E. Liston, MD \*  
James MacFadyen, MD  
Stephen Machinton, MD  
Stephen A. Matarazzo, MD \*  
James R. McCole, MD \*  
Edward P. McMahon, MD  
Charles T. Meyer, MD  
Richard Selig Meyer, MD  
Michael A. Miles, MD \*  
Gerald Miller, MD  
Lee H. Miller, MD  
Mayer R. Mintz, MD  
Frederick T. Murray, MD  
Ralph Nazzaro, MD  
John R. O'Neal, MD

Carol E. Ott, MD  
William Thomas Poirier, MD  
Melvyn P. Richter, MD  
Michael V. Rock, MD  
Lawrence N. Rossi, MD  
Millard A. Ruddell, MD  
Vadim M. Schaldenko, MD  
John C. Schantz, MD  
Fredric H. Schiffer, MD  
James G. Shames, MD  
Harlan J. Sicherman, MD  
Ronald D. Snyder, MD  
Alan R. Soltys, MD  
Calvin R. Stafford Jr., MD  
John D. Sten, MD \*  
Melvin J. Tonkon, MD \*  
William M. Trachtenberg, MD  
John Tumola, MD  
Michael J. Vergare, MD  
Dean R. Wasserman, MD  
James R. Watson, MD  
Jeffrey Charles Weidig, MD  
Stephen E. Weinberg, MD  
Richard Weismer, MD  
Armand J. Wohl, MD  
John C. Zahniser, MD

**Woman's Medical College /  
Medical College of Pennsylvania**  
*Class of 1971*

Lucrezia Aquino, MD \*  
Anna M. Baranauskas, MD  
Virginia Bolmarcich, MD  
Jean K. Boyd, MD  
Sandra Mae Chase, MD  
Mary E. Christenson, MD  
Wendy Coleman, MD  
E. Cheryl Cunningham, MD \*  
Corinne Devereux, MD  
Mary Anita Dilloway, MD  
Judith B. Feldman, MD  
Gail A. Fisher, MD

Suzanne Smith Godec, MD  
Norma Ruth Green, MD  
Martha Margaret Grout, MD  
Dillie Grunauer, MD \*  
Mary Ann Haflin,  
Nancy Jermanovich \*  
Lorraine C. King, MD  
Lyn C. Lederman, MD  
Kathleen R. Malaney, MD  
Kathleen Maloney, MD  
Claire Coverdale Marsh, MD  
Margaret Honora McAloon, MD  
Marian McNamara, MD  
Jeanne Shamai Meisler, MD  
Kathleen Mirante, MD \*  
Denise Mary Mulvihill, MD  
Carol A. Munch, MD  
Marjorie E. Newman, MD \*  
Doris Jean Phillips, MD  
Christine Quinn, MD  
Julie Annette Ricking, MD \*  
Dolores E. Rodriguez, MD \*  
Beverly R. Roth, MD  
Sandra H. Roth, MD \*  
Carolyn Ann Sack, MD  
Mindy E. Sanders, MD  
Natalie Shemonsky, MD  
Charlotte Ann Skibbs, MD  
Lilian Spigelman, MD  
Melody Ann Stancil, MD  
Judith Terrell, MD  
Alice A. L. Uong, MD  
Kathleen M. VanAalten, MD  
Nina Ward, MD  
Carol Lynn Weed, MD  
Marie Weinberger, MD  
Mary F. Welsh, MD

## DOCTOR OF SCIENCE

**Drew Weissman, MD, PhD***Physician-scientist paved the way for COVID-19 vaccines*

As a professor of medicine at the Perelman School of Medicine at the University of Pennsylvania, Drew Weissman, MD, PhD, is best known for his work with RNA biology that laid the groundwork with Katalin Karikó for the mRNA vaccines for COVID-19 developed by Pfizer/BioNTech and Moderna.

Dr. Weissman's research focuses on the study of RNA and innate immune system biology and the application of these findings to vaccine research, therapeutics and gene therapy. His lab is developing many vaccines for pathogens, including malaria, norovirus, influenza, *C. difficile*, HSV2, HIV and HCV, as well as vaccines for potential future pandemics, universal influenza and pancoronavirus. His lab also develops mRNA delivery of

proteins, including genetically deficient, therapeutic and monoclonal antibodies. In newer studies, his lab has developed new technologies to deliver mRNA-LNPs to specific cell types with simple in vivo injection. The cells and organs targeted thus far include lung, heart, brain, CD4+ cells, T cells and bone marrow stem cells. New therapies are being developed to treat genetic and other disorders in vivo, which has the potential to change and simplify such therapies and allow worldwide use for diseases such as sickle cell anemia.

Dr. Weissman received his bachelor's and master's degrees from Brandeis University and his medical degree and doctorate from the Boston University School of Medicine. He did his residency at Beth Israel Medical Center in Boston and a fellowship at the National Institutes of Health. He is widely published and holds memberships in the American Federation for Clinical Research, the Association of American Physicians and the American Association of Immunologists.

For his contributions to advancing world public health as a physician-scientist, Drexel is proud to confer upon Dr. Drew Weissman the degree of Doctor of Science, *honoris causa*.

**Doctor of Philosophy Degrees**

(The graduate's dissertation title and advisor are indicated.)

**Ilse Pamela Alonso**

"Impact of sleep on incubation of cocaine craving and dopamine terminal adaptations following abstinence"

Advisor: Rodrigo A. España, PhD  
BIOCHEMISTRY

**Sara M. Blazejewski**

"Dissecting Cellular Mechanisms of Neurite Formation in the Developing Cortex"

Advisor: Kazuhito Toyooka, PhD  
NEUROSCIENCE

**Kelly Donovan §**

"Investigating the Pathogenesis of Pre-clinical Diabetic Retinopathy: Transcription Factor Sp1 Glycosylation Upregulates VEGF-A"

Advisor: Jane Clifford, PhD  
MOLECULAR AND CELL BIOLOGY AND GENETICS

**Kaitlin Farrell §**

"Neuroinflammation and circuitry changes in the dorsal raphe nucleus with depressive phenotype after spinal cord injury."

Advisor: John Houlié, PhD  
NEUROSCIENCE

**Samuel Flashner**

"The Transcription Factor Specificity Protein 1 Regulates Chromosome Assembly and Segregation During Mitosis"

Advisor: Jane Clifford, PhD  
MOLECULAR AND CELL BIOLOGY AND GENETICS

**Katherine Ann Innamorati**

"Comparative genomics of the keystone mucosal pathogens *Porphyromonas gingivalis* and *Gardnerella vaginalis* reveal associations between virulence phenotypes and phylogenetic structure"

Advisor: Garth Ehrlich, PhD  
MOLECULAR AND CELL BIOLOGY AND GENETICS

**Dana Lengel**

"Mechanisms of hippocampal dysfunction following pediatric brain trauma"

Advisor: Ramesh Raghupathi, PhD  
NEUROSCIENCE

**Stacia I. Lewandowski**

"In Vivo Studies of the ERK1/2 Phosphatase, MKP3 in Dopaminergic Neurons on Cocaine-Associated Behaviors, Dopamine Signaling and Gene Expression"

Advisor: Ole Valente Mortensen, PhD  
PHARMACOLOGY AND PHYSIOLOGY

**Yuan-Ping Li §**

"Local administration of biomaterials for inducing antigen-specific tolerance"

Advisor: Hao Cheng, PhD  
MATERIALS SCIENCE AND ENGINEERING

**Ronak Subhash Loonawat**

"Interplay of hepatitis B virus infection and hepatocyte metabolism: a virus-induced Warburg-like effect stimulates hepatitis B virus replication"

Advisor: Michael J. Bouchard, PhD  
MICROBIOLOGY AND IMMUNOLOGY

**Kiran Kumar Madugula**

"Over representation of myocyte enhancer factor (MEF-2) in HTLV-1-induced adult T-cell leukemia/lymphoma contributes to acute disease by facilitating the activity of antisense promoter and HBZ via JunD"

Advisor: Pooja Jain, PhD  
MICROBIOLOGY AND IMMUNOLOGY

**Haley M. Majer**

"Natural Product Discovery of Thiopeptide Producers and Functional Characterization of Adenylation-Domains in Thiostrepton and Siomycin Biosynthesis"

Advisor: Joris Beld, PhD  
MICROBIOLOGY AND IMMUNOLOGY

**Hemalatha Muralidharan**

"The role of mitotic motor forces of KIF1C on microtubule array during neurodevelopment"

Advisor: Peter Baas, PhD  
NEUROSCIENCE

**Rachel A. Nolan §**

"Role of Dopamine in the Modulation of Macrophage-Mediated Inflammation: Implications for the Neuropathogenesis of NeuroHIV and Drug Abuse"

Advisor: Peter Gaskill, PhD  
NEUROSCIENCE

**Amanda Jo Platt**

"Characterization of adenylating enzymes and domain interactions involved in insect and bacterial non-ribosomal peptide synthesis"

Advisor: Joris Beld, PhD  
MICROBIOLOGY AND IMMUNOLOGY

**Margo Lillian Randelman**

"Hypercapnia Respiratory Training to Enhance Plasticity After Cervical Spinal Cord Injury"

Advisor: Michael A. Lane, PhD  
NEUROSCIENCE

**Matthew C. Stout**

"Investigating the interaction between K-Ras and HuR in pancreatic cancer"

Advisor: Paul Campbell, PhD  
PHARMACOLOGY AND PHYSIOLOGY

**Michelle L. Swift**

"Investigating the role of cell cycle-dependent regulation of Sp1 in double-strand break repair"

Advisor: Jane Clifford, PhD  
MOLECULAR AND CELL BIOLOGY AND GENETICS

**Charles Wang §**

"Investigation into synaptic and post-synaptic events of RAD51 mediated homologous recombination"

Advisor: Alexander Mazin, PhD  
BIOCHEMISTRY

**Riley Michele Williams**

"Type I interferon from astrocytes restricts influenza A virus replication in neurons"

Advisor: Glenn Rall, PhD  
MICROBIOLOGY AND IMMUNOLOGY

**Shasha Yang**

"Thalamocortical inputs regulate the post-adolescent development of inhibitory circuitry in the mPFC"

Advisor: Wen-Jun Gao, MD, PhD  
NEUROSCIENCE

**Master's Degrees**

*(The graduate's thesis title and advisor are indicated if a thesis was required. All degrees are Master of Science unless otherwise indicated.)*

**DIVISION OF BIOMEDICAL SCIENCES**

*Biochemistry*

**Eric Rossi**

*Biochemistry of Health & Disease*

**Thuraya Alruwaili**

**Prajakta Dilipkumar Mehetre**

"Identification of the BORG2 Actin Binding Element"  
*Advisor: Shae Padrick, PhD*

*Cancer Biology*

**Marwah Khalid Abdulfattah Al-Aloosi**

**Aditi H. Shimpi**

"Mechanistic target of rapamycin regulation of HBV replication"  
*Advisor: Michael J. Bouchard, PhD*

**Melissa A. Sutton-Navarro**

*Molecular and Cell Biology and Genetics*

**Tylor L. Brewster**

"The Role of Timeless-PARP1 Interaction in DNA Repair and Cancer Growth"  
*Advisor: Eishi Noguchi, PhD*

**Diehl R. De Souza**

"Understanding the role of the defective provirus in HIV-1 infected individuals with neuro-HIV"  
*Advisor: Michael Nonnemacher, PhD*

**Tejsi T. Dhameliya**

"Role of KLF8 in breast cancer stem cells and crosstalk with O-GlcNAc transferase."  
*Advisor: Mauricio Reginato, PhD*

**Emily Esquea**

"Role of OGT/CDK5/ACSS2 Signaling Axis on Breast Cancer Brain Metastatic Growth"  
*Advisor: Mauricio Reginato, PhD*

**Alexandra A. Guffey**

**Daniel Kantner**

"Cobamide amidohydrolase specificity governs cobamide remodeling in diverse bacteria"  
*Advisor: Joris Beld, PhD*

**Nima Sarfaraz**

**Daniel C. Slusaw**

"HOTAIR domains can independently regulate gene expression in breast cancer"  
*Advisor: Srinivas Somarowthu, PhD*

*Microbiology and Immunology*

**Rita Aurora Esposito**

"The effect of nonthermal plasma on herpes simplex virus type 1 infectivity"  
*Advisors: Fred Krebs, PhD, and Vandana Miller, MD*

**Brett LaBier**

"Novel Insights into TLR4:TLR3 Crosstalk in Response to TLR4 Specific Ultrapure Lipopolysaccharide (LPS) from Highly Pathogenic *Escherichia coli* O111:B4 in Murine Microglia"  
*Advisor: Sonia Navas-Martin, PhD*

**Bhavani Taramangalam**

"Adenosine deaminase-1 (ADA-1) induces DC maturation and improves adaptive immunity"  
*Advisor: Elias El Haddad, PhD*

*Neuroscience*

**Emily Zihal**

*Pharmacology and Physiology*

**Gianna Rossi**

**Jieyi Zhang**

**DIVISION OF INTERDISCIPLINARY AND CAREER-ORIENTED PROGRAMS**

*Biomedicine and Business*

**Adam Cohen**

**Caleb Ethan Grossman**

**Morgan Iveson**

**Melissa Jeanine Jenkins**

**Polat B. Shakarov**

**Sean E. Smith**

*Biomedicine and Law*

**Samantha Judi-Mari Gaerlan**

**Amber Grover**

**Alexis Mariah McIlwain**

**Avinash Sookdeo**

*Clinical Research for Health Professionals*

**Jarrett D. Cain**

**Prakruthi Palepu**

*Clinical Research Organization and Management*

**Kiersten M. Bestgen**

**Esther J. Campbell**

**Christine Chase**

**Jennifer Cisar**

**Jessica M. Clark**

**Ruth Connolly**

**Julia Deane**

**Tyler M. Faulkner**

**Jacob Atemefah Fotaw**

**Lukas Hoetzel**

**Cydney Lea Johnson**

**Timothy William Jones**

**Ami Kapadia**

**Claudia Kennedy**

**Sevak Keshishyan**

**Angel Kidd**

**Nareshkumar Vitthalbhai Nakarani**

**Todd Nesson**

**Michelle M. Onye**

**Angel Patel**

**Atithi Patel**

**Alison Hope Pressman**

**Victoria K. Rath**

**Stephanie Rivera**

**Steven M. Schoenfeld**

**Kyle J. Skelton**

**Derek Smith**

**Shakina Smith**

**Erik Vincent Soliz**

**Mandeep Sran**

**Patrick Charles Sturges**

**Gary Summer**

**Irene M. Toropin**

**Allison Weiderhold**

**Brina Michelle Wright**



### *Drug Discovery and Development*

Ciara Alvarez  
 Christopher M. Bouslog  
 Margott Meg Drew  
 Ereselda Elezi  
 Juan Manuel Estrada  
 Simran Kaur Gill  
 Tiffany Hammonds  
 Anna Kolesnik

Yue Lu  
 Nisha Rajamohan  
 Michael S. Ryan  
 Janeil Kortney Sankey  
 Janine Lynn Schippang  
 Lindsey Shelp  
 Caitlyn Stromko  
 Harshil Vyas  
 Wenda Wu  
 Hanming Zeng

### *Forensic Science*

Stuart M. Brand  
 Kande Leslyn Anne Duncan  
 Elizabeth Dale Henry  
 Carri Elizabeth Lupton  
 Jonae B. Savage-Hall

### *Immunology*

Samantha Albert  
 Bailey Banville  
 Moretti Pah Collins  
 Cameron T. Feathers  
 Ilanit Gutman  
 Jayla Hyde  
 Jacqueline Claire Robins  
 Holly M. Yost

### *Infectious Disease*

Adrienne Bonow  
 Ruth Chung Buh  
 Sandhya Tara Chakravarthi  
 Adrienne Goode  
 Stephanie Hadid  
 Malia Monique Hairston  
 Kelcey Harper  
 Kerisa Naicker  
 Jasmine M. Nymick

Tyler John Reese

Brianna J. Smith

Ryan Thompson

### *Master of Laboratory Animal Science*

Kirsten Jane Bell  
 Kathleen M. Borrelli  
 Christine Elizabeth Buhalo  
 Anaid Alexandra Carlo  
 Kelly M. Colflesh  
 Shekinah Cosby  
 Samantha Marie Foley

Kim A. Froeschl

Ryan E. Jones

Taylor Marie Kolbe

Katherine M. Marshall

Krystal Nacel

Joseph Anthony Ordile

Nicole Michelle Rountree

Tom Truong

Joshua John Van Auken

### *Medical and Healthcare Simulation*

Gina E. Tranel

### *Molecular Medicine*

Alexa Morgan Bacha

Tiara Cummings

Britani Graver

Megan Elizabeth Neilon

Oneneebari Lovette Nwogu

Navjot Kaur Sandhu

Meredith A. Singer

### *Pathologists' Assistant*

Madison Taylor Barker

London Ann Carpenter

Natalie J. Crippa

Niky DelGuercio

Mary Ann Erdman

Erica Frees

Mia Sachi Goldblatt

Kelly Louisa Hollar

Michael C. Irby

Hannah Frances Reilly

Eliza Siergiejs

Lindsey L. Wilson

### DIVISION OF PRE-MEDICAL AND PRE-HEALTH PROGRAMS

### *Biomedical Studies*

Attia Ahmad

Haizea Catherine Aurélie Alemany

Eunice Iretejesu Aworanti

Evan Loon Benza

Jose Antonio Collazo

Jade Diana Doolittle

Dana Renae Fiola

Sherelle Clarice Green

Lauren Leigh Haack

Mathuchena Bhavani Karthikeyan

Richard S. Madnick

Janae Kyanna Martin

Kirsten Alexis Moody

Alyssa Mai Nguyen

Rehana Victoria Persaud

Caroline Elizabeth Quindlen

Amir Khalid Richardson

Meghan Mackenzie Schilken

Myar Taha

Kearny Ken Tse

Michael Edward Vassolas

Tatyana Maureen Young

<i>Drexel Pathway to Medical School</i> .....	<b>Samiza Bryoney Chantelle Palmer</b>	<b>Xavier French</b>	<b>Heather E. Slattery</b>
<b>Aura Cristina Agudelo Rivera</b>	<b>Willow Durand Pastard</b>	<b>Dezurline Garcia</b>	<b>Seherzada Softic</b>
<b>Wisdom Akingbemi</b>	<b>Leslie Yulissa Perez Cervantes</b>	<b>Shweta Gupta</b>	<b>Tipsuda Sopho</b>
<b>Chioma Alaka</b>	<b>Nathaniel Pineda</b>	<b>Rahul Vasudeo Hadap</b>	<b>Abaykassa Tadesse</b>
<b>Christianah O. Alli</b>	<b>Alexis Lee Price</b>	<b>Kyungwon Han</b>	<b>Shayna Davi Zanker</b>
<b>Fatima Salah Amtashar</b>	<b>Maria Jose Rabanales-Fernandez</b>	<b>Brianna Elaine Hector</b>	<i>Intensive Medical Sciences</i> .....
<b>Stephanie Augustin</b>	<b>Carlos Roble</b>	<b>Cameron Richard Holmes</b>	<b>Zach Mathew Abraham</b>
<b>Ashanna Coralita Barclay</b>	<b>Odette Maria Rosales</b>	<b>Brionna Sharae Hough</b>	<b>Hanna Brubaker</b>
<b>Jordan Chase Barnhill</b>	<b>Paris Shaw</b>	<b>Bazilla Imran</b>	<b>William Chen Dan</b>
<b>Garvens Charles</b>	<b>Raven Lindsay Simmons</b>	<b>Victor Ip</b>	<b>Gabrielle Bernette Feher</b>
<b>Kenechukwu Chimaobim Charles-Obi</b>	<b>Abby Elizabeth Sproch</b>	<b>Rachelle Joseph</b>	<b>Anna Guo</b>
<b>Marie-Lise Laurane Chrysostome</b>	<b>Jont'yana Jakeria Tigner</b>	<b>Adelle Laniyan</b>	<b>Danielle Dove Ireland</b>
<b>Kayla Danielle Victoria Cooper</b>	<b>Viliani Tillage</b>	<b>Tyler L. H. Law</b>	<b>Meha Nayan Patel</b>
<b>Christiane Orlane Djiajeu De Tchappi</b>	<b>Kamol Usmonov</b>	<b>Yanisel Luna</b>	<b>Travis Hare Rushton</b>
<b>Maryam Durosinmi</b>	<b>Jordann Faye Wilson</b>	<b>Kaitlyn Elaine Lutz</b>	<b>Maura May Sheehan</b>
<b>Sascha Marguerite Enders</b>	<i>Interdisciplinary Health Sciences</i> .....	<b>Brandon A. Mamou</b>	<b>Mackenzie Julianna Sober</b>
<b>Nana Amo Frimpong</b>	<b>Kayla A. Addai</b>	<b>Francis Marenga Mburu</b>	<b>Vanessa Lee Veltre</b>
<b>Bryan Kuetiam Gamwo</b>	<b>Husein Olatoyosi Bakare-Korodo</b>	<b>Delia McDade</b>	<b>Amba M. Viswanathan</b>
<b>Josette Graves</b>	<b>Julia Louise Tamayo Barruga</b>	<b>Elle McNeiece</b>	<i>Medical Science</i> .....
<b>Quincy Meekell Harrison</b>	<b>Donte Bennett</b>	<b>Shahista Sahabuddin Mollah</b>	<b>Gal Daskal</b>
<b>Sanjeev Joseph Herr</b>	<b>Obinna Didacus Bethrand-Okechukwu</b>	<b>Megan Vu Nguyen</b>	<b>Volodar M. Migovich</b>
<b>Odeosamamwen Aguraoritse Idahor</b>	<b>Kelly Jean Bisceglia</b>	<b>Afrah Noor</b>	<b>Bryan T. Pham ●●</b>
<b>Austin Manuel Iglesias</b>	<b>Esin Bulut</b>	<b>Jonathan A. Pasato</b>	<b>Malia Voytik ●●</b>
<b>Julianna Karina Kinsolving</b>	<b>Binta Ceesay</b>	<b>Kinit D. Patel</b>	
<b>Micah Carl Jahvon May</b>	<b>Evelyn Fatima Cruzatte</b>	<b>Lorena Beatriz Pena</b>	
<b>Joshua Thomas Neal</b>	<b>Louis James Fedele</b>	<b>Neil Charles Pillai</b>	
<b>Joolie Ngoc Nguyen</b>	<b>Geilynn Fonseca</b>	<b>Jehron Armani Pura-Bryant</b>	
<b>Jessica Nkechi Nwabeke</b>		<b>Gabriela F. Sarriera</b>	
		<b>Steven Lee Sims</b>	
		<b>Ramon Luis Arambulo Sison</b>	

**Doctor of Medicine Degrees**

*(The location of the physician's clinical program is indicated.)*

**Theophilus Owofu Abah**

George Washington University  
Washington, DC  
Anesthesiology

**Mary Christine Abramczuk †**

Geisinger Health System  
Danville, PA  
Neurology

**Blake Omid Adnani**

University of Southern  
California  
Los Angeles, CA  
Internal Medicine

**Estefania J. Alba-Rodriguez \* £**

Cooper Medical School of  
Rowan University/Cooper  
University Hospital  
Camden, NJ  
Neurology

**Stephanie Algenio-Anciro**

David Grant Medical Center  
at Travis Air Force Base  
Fairfield, CA  
Family Medicine

**Sheena J. Amin**

University of Missouri-  
Kansas City  
Kansas City, MO  
Orthopaedic Surgery

**Veronica Su Andre**

Lankenau Medical Center  
Wynnewood, PA  
Internal Medicine

**Nicolas Andrea**

St. Luke's University Hospital-  
Bethlehem Campus  
Bethlehem, PA  
Emergency Medicine

**Cynthia Aline Araradian**

Oregon Health &  
Science University  
Portland, OR  
General Surgery

**Diane Choun Houy Armenta \***

Icahn School of Medicine at  
Mount Sinai Morningside  
and Mount Sinai West  
New York, NY  
Anesthesiology

**Thomas Alexander Arns \***

Loyola University  
Medical Center  
Maywood, IL  
Anesthesiology

**Ashlee Mari Asada**

Ohio State University  
Medical Center  
Columbus, OH  
Internal Medicine

**Benjamin Awad**

BronxCare Health System  
Bronx, NY  
Transitional

**Gabrielle Rose Barbera »**

Boston University  
Medical Center  
Boston, MA  
Internal Medicine

**Sara Ann Barlow »**

Duke University  
Medical Center  
Durham, NC  
Internal Medicine

**Karyn Elizabeth Barrett » †**

Brigham and Women's  
Hospital  
Boston, MA  
Anesthesiology

**Arjun M. Bashyam »**

Lankenau Medical Center  
Wynnewood, PA  
Medicine-Preliminary

University of Texas  
Southwestern Medical Center  
Dallas, TX  
Dermatology

**Christopher Vieira Bastos**

Hospital of the University  
of Pennsylvania  
Philadelphia, PA  
Internal Medicine

**Alexis Haley Bennett**

Case Western Reserve  
University/University  
Hospitals Cleveland  
Medical Center  
Cleveland, OH  
Internal Medicine

**Nicole Bernstein »**

University of California San  
Diego Medical Center  
San Diego, CA  
Internal Medicine

**Sabrina Ann-Marie Billings**

Mayo Clinic School of  
Graduate Medical Education  
Jacksonville, FL  
Internal Medicine

**Nataly Bingham**

Dartmouth-Hitchcock  
Medical Center  
Lebanon, NH  
Surgery-Preliminary  
Interventional Radiology

**Samantha Danielle Block »**

Temple University Hospital  
Philadelphia, PA  
Emergency Medicine

**Akua Agyeiwaa Boadu**

University of Virginia  
Charlottesville, VA  
Internal Medicine

**Edward Anderson Bowman**

Appointment Pending

**Anna Romanovna Braginskaya**

Crozer-Chester Medical Center  
Upland, PA  
Family Medicine

**Michael Allen Branham, Jr. »**

University of North  
Carolina Hospitals  
Chapel Hill, NC  
Internal Medicine

**Jayce Joseph Breig**

Cleveland Clinic Foundation  
Cleveland, OH  
Anesthesiology

**Samuel McGuire Brimmer » &&&**

Allegheny General Hospital  
Pittsburgh, PA  
Orthopaedic Surgery

**Ashlyn Renee Brown \* »**

University of Wisconsin  
School of Medicine  
and Public Health  
Madison, WI  
Family Medicine

**Andre Elias Bshara »**

University of Pittsburgh  
Medical Center  
Pittsburgh, PA  
Internal Medicine /  
Global Health

**Franklin Panuwat Burg**

University of Michigan  
Hospital  
Ann Arbor, MI  
Surgery-Preliminary

**Noe Cabello-Rivera**

Reading Hospital/  
Tower Health  
West Reading, PA  
Anesthesiology

**Joseph Salvatore Capalbo**

Temple University Hospital  
Philadelphia, PA  
Internal Medicine

**Michael Murray Caplan**

New York Presbyterian  
Hospital-Columbia  
University Medical Center  
New York, NY  
Internal Medicine

**Tyler David Cappello**

Stony Brook University  
Hospital  
Stony Brook, NY  
Internal Medicine

**Kodiak Freedman Carb**

Allegheny General Hospital  
Pittsburgh, PA  
Internal Medicine

**Julianna Marie Cervino »**

Women and Infants  
Hospital of Rhode Island/  
Brown University  
Providence, RI  
Obstetrics-Gynecology

**Sahil Chaddha**

State University of New  
York Health Science  
Center at Brooklyn  
Brooklyn, NY  
Internal Medicine

**Jothika Challapalli »**

New York University Long  
Island School of Medicine  
Mineola, NY  
Medicine-Preliminary

Rhode Island Hospital/  
Brown University  
Providence, RI  
Interventional Radiology

**Annie Chang »**

Barnes-Jewish Hospital  
St. Louis, MO  
Psychiatry

**Doreen Zhao Chang**

New York Presbyterian  
Hospital-Columbia  
University Medical Center  
New York, NY  
Pediatrics

**Simar Singh Chawla \***

Case Western Reserve  
University/MetroHealth  
Medical Center  
Cleveland, OH  
Internal Medicine

**Christina G. Chen »**

Brown University/  
Butler Hospital  
Providence, RI  
Psychiatry

**Elizabeth J. Chen**

Anne Arundel Medical Center  
Annapolis, MD  
Obstetrics-Gynecology

**Eric Cheung**

Thomas Jefferson University  
Philadelphia, PA  
Emergency Medicine

**Timothy Chong »**

UCSF Benioff Children's  
Hospital-Oakland  
Oakland, CA  
Pediatrics

**Eileen Diane Chu \***

University of Maryland  
Medical Center  
Baltimore, MD  
Emergency Medicine

**Joshua Shawn Clark**

Crozer-Chester Medical Center  
Upland, PA  
Family Medicine

**Ellen Nicole Cook »**

Beth Israel Deaconess  
Medical Center  
Boston, MA  
Internal Medicine

**Ladora Ayoka Cromwell \***

Case Western Reserve  
University/MetroHealth  
Medical Center  
Cleveland, OH  
Medicine-Pediatrics

**Brenndan Lawrence  
Crumley**

Barnes-Jewish Hospital  
St. Louis, MO  
Anatomic and Clinical  
Pathology

**Kristine Lauren Cueva »**

University of Washington  
Seattle, WA  
Internal Medicine

**Suhrudh Reddy Daaram**

Zucker School of Medicine  
at Staten Island University  
- Northwell Health  
Staten Island, NY  
Emergency Medicine

**Sarah Danehower**

University of Louisville  
School of Medicine  
Louisville, KY  
Neurological Surgery

**Temilolaoluwa Olanrewaju  
Daramola » &**

University of Michigan  
Hospital  
Ann Arbor, MI  
Thoracic Surgery

**John J. DeCaro III**

Dartmouth-Hitchcock  
Medical Center  
Lebanon, NH  
Pediatrics

**Dhriti M. Dedhia**

Zucker School of  
Medicine Northwell at  
Southside Hospital  
Bay Shore, NY  
Obstetrics-Gynecology

**Buffy Ferguson Dekmar \***

Emory University School  
of Medicine  
Atlanta, GA  
Transitional  
Radiology-Diagnostic

**Wyatt W. DeLomba**

University of Massachusetts  
Medical School  
Worcester, MA  
Internal Medicine

**Michael A. DeMaio**

Thomas Jefferson University  
Philadelphia, PA  
Neurology

**Medha Dommaraju**

Jersey Shore University  
Medical Center  
Neptune, NJ  
Obstetrics-Gynecology

**Miguel Angel Donneyz**

Appointment Pending

**Kelly R. Donovan §**

Duke University  
Medical Center  
Durham, NC  
Ophthalmology

**Sean Michael Dubois**

St. Luke's University Hospital  
Bethlehem, PA  
General Surgery

**Bryan C. Eckhart**

MedStar Georgetown/  
Washington Hospital Center  
Washington, DC  
Medicine-Preliminary

University of Vermont  
Medical Center  
Burlington, VT  
Radiology-Diagnostic

**Nicholas Elias**

Morristown Memorial Hospital  
Morristown, NJ  
Medicine-Preliminary

Icahn School of Medicine  
at Mount Sinai  
New York, NY  
Radiology-Diagnostic

**Jarrold Thomas Ellis**

State University of New York  
Upstate Medical University  
Syracuse, NY  
General Surgery

**Mariah Gabrielle Elly #**

Abington Hospital-  
Jefferson Health  
Abington, PA  
Obstetrics-Gynecology

**Nga Ying Eng**

Rhode Island Hospital/  
Brown University  
Providence, RI  
Medicine-Preliminary  
Neurology

**Kathryn T. Enriquez**

University of Southern  
California  
Los Angeles, CA  
Internal Medicine

**Youssef Mohammad Fardos \* »**

Stony Brook School  
of Medicine  
Stony Brook, NY  
Anesthesiology

**Kaitlin Farrell † §**

Pennsylvania Hospital  
Philadelphia, PA  
Medicine-Preliminary

University of California San  
Diego Medical Center  
San Diego, CA  
Neurology

**Kallie Taylor Fehr •**

Christiana Care Health System  
Newark, DE  
Family Medicine

**Jessica P. Fenton &&&**

Christiana Care Health System  
Newark, DE  
Family Medicine

**Nolan Peter Feola \***

Eglin Air Force Base  
Eglin AFB, FL  
Family Medicine

**Jacob Joseph Ferguson •**

Cooper Medical School of  
Rowan University/Cooper  
University Hospital  
Camden, NJ  
Anesthesiology

**Christian Anthony Figueredo \* »**

David Grant Medical Center  
at Travis Air Force Base  
Fairfield, CA  
Surgery-Preliminary

Naval Medical Center  
Portsmouth  
Portsmouth, VA  
Radiology-Diagnostic

**Gabriella Mae Forman**

Stamford Hospital  
Stamford, CT  
Family Medicine

**Yiwen Fu**

Kaiser Permanente-Santa  
Clara Medical Center  
Santa Clara, CA  
Internal Medicine

**Archana Durga Ganta**

Sutter Health  
Jackson, CA  
Family Medicine

**Lamberta G. Ghaly**

Stony Brook School  
of Medicine  
Stony Brook, NY  
Anesthesiology

**Zachariah Mark Gibson »**

McLennan County  
Medical Education and  
Research Foundation  
Waco, TX  
Family Medicine

**Andrew Ross Gilson**

Nuvance Health Medical  
Education  
Poughkeepsie, NY  
Psychiatry

**Mitchell Joshua Gilson**

Rutgers Robert Wood  
Johnson Medical School  
New Brunswick, NJ  
Anesthesiology

**Richard Joseph Giza »**

University of Pittsburgh  
Medical Center  
Pittsburgh, PA  
Internal Medicine

**Wesley Laurence Goodman-Levy •**

Crozer-Chester Medical Center  
Upland, PA  
Emergency Medicine

**Anisha L. Gopu » †**

Cincinnati Children's  
Hospital Medical Center  
Cincinnati, OH  
Pediatrics

**Richard Lee Graf »**

Thomas Jefferson University  
Philadelphia, PA  
Surgery-Preliminary

**Dana M. Gramolini**

St. Elizabeth's Medical Center  
Boston, MA  
Anesthesiology

**Nikhil Grandhi » &**

Washington University  
School of Medicine/  
Barnes-Jewish Hospital  
St. Louis, MO  
Internal Medicine

**Anuragh Reddy Gudur**

University of Virginia  
Charlottesville, VA  
Internal Medicine

**Edward Guo \***

Cooper Medical School of  
Rowan University/Cooper  
University Hospital  
Camden, NJ  
Emergency Medicine

**Shanshan Elissa Gustafson**

Kaiser Permanente Mid-  
Atlantic States  
Gaithersburg, MD  
Internal Medicine

**Christopher James Harwood**

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Pediatrics

**Hamid R. Hassanzadeh**

Albert Einstein Medical Center  
Philadelphia, PA  
Internal Medicine

**Kyle Maurice Hatcher**

Mayo Clinic School of  
Graduate Medical Education  
Jacksonville, FL  
Radiology-Diagnostic

**Katherine Frances Hawkins**

WellSpan York Hospital  
York, PA  
Emergency Medicine

**Jillian Elizabeth Heckman \* » #**

Johns Hopkins Hospital  
Baltimore, MD  
Pediatrics

**Laura Elizabeth Henderson »**

Johns Hopkins Hospital  
Baltimore, MD  
Pediatrics

**Grace Elizabeth Hernandez**

University of California  
Davis Medical Center  
Sacramento, CA  
Orthopaedic Surgery

**Timothy Patrick Higgins**

Rutgers Robert Wood  
Johnson Medical School  
Piscataway, NJ  
Psychiatry

**Melissa Louisa Hoffman**

Hospital of the University  
of Pennsylvania  
Philadelphia, PA  
Medicine-Preliminary

Eastern Virginia  
Medical School  
Norfolk, VA  
Dermatology

**Lauren M. Holleran »**

West Virginia University  
School of Medicine  
Morgantown, WV  
Transitional

Beth Israel Deaconess  
Medical Center  
Boston, MA  
Anesthesiology

**Tamim Ibrahim Al Hossain**

Christiana Care Health System  
Newark, DE  
Medicine-Pediatrics

**Kristy X. Hou**

Reading Hospital/  
Tower Health  
Reading, PA  
Family Medicine

**Ayomide Abiola Igun**

University of Maryland  
Medical Center  
Baltimore, MD  
Emergency Medicine

**Uru Uju Chiemena Ihim**

Washington Health System/  
Washington Hospital  
Washington, PA  
Family Medicine

**Samantha Lyn Innis**

Baylor College of Medicine  
San Antonio, TX  
Pediatrics

**Stephen Edward Jaffee**

Allegheny General Hospital  
Pittsburgh, PA  
Neurological Surgery

**Roxane Javadi \***

St. Christopher's Hospital for  
Children/Tower Health  
Philadelphia, PA  
Pediatrics

**Mohit Jethi**

University at Buffalo  
School of Medicine  
Buffalo, NY  
Medicine-Preliminary  
Ophthalmology

**Nikita Jhawar**

Mayo Clinic School of  
Graduate Medical Education  
Jacksonville, FL  
Internal Medicine

**Kevin Yu Jin**

Mercy Catholic Medical Center  
Darby, PA  
Transitional

University of Pittsburgh  
Medical Center  
Pittsburgh, PA  
Anesthesiology

**Ajit Jason John**

Brandywine Hospital/  
Tower Health  
Coatesville, PA  
Psychiatry

**Dominique Simone Jones**

Thomas Jefferson University/  
Alfred I. duPont  
Hospital for Children  
Philadelphia, PA  
Pediatrics

**Shreeja K. Kadakia**

St. Luke's University Hospital  
Easton, PA  
Neurology

**Jay M. Kadhiwala ••**

Penn State Milton S.  
Hershey Medical Center  
Hershey, PA  
Family Medicine

**Urooj Ayesha Khalid \***

Abington Hospital-  
Jefferson Health  
Abington, PA  
General Surgery

**Shama Khan**

New York-Presbyterian/Weill  
Cornell Medical Center  
New York, NY  
Child Neurology

**Fadi Jiryis Khoury**

University of Arizona  
College of Medicine  
Phoenix, AZ  
Internal Medicine

**Jenna Elyse Kocsis \* »**

Lankenau Medical Center  
Wynnewood, PA  
Medicine-Preliminary

Cleveland Clinic Foundation  
Cleveland, OH  
Radiation Oncology

**Won-Joon M. Koh**

Icahn School of Medicine at  
Mount Sinai Morningside  
and Mount Sinai West  
New York, NY  
Internal Medicine

**Jacqueline Nyarkoa Koomson**

Crozer-Chester Medical Center  
Upland, PA  
Transitional

Emory University School  
of Medicine  
Atlanta, GA  
Radiology-Diagnostic

**Kristine Elizabeth Lagana \* »**

Thomas Jefferson University  
Philadelphia, PA  
Internal Medicine

**Timothy Jason Lam**

Albert Einstein  
Healthcare Network  
East Norriton, PA  
Internal Medicine

**Joseph Andrew Larwa »**

University of Florida College  
of Medicine – Jacksonville  
Jacksonville, FL  
Orthopaedic Surgery

**Jacob Alexander Latreille**

Abington Hospital-  
Jefferson Health  
Abington, PA  
Medicine-Preliminary

George Washington University  
Washington, DC  
Radiology-Diagnostic

**Michael Robert Lattanzi**

University of Florida Health  
Shands Hospital  
Gainesville, FL  
Child Neurology

**Katelyn Mary Latuska \***

Vanderbilt University  
Medical Center  
Nashville, TN  
Emergency Medicine

**Luke Linwood Lawrence**

MedStar Georgetown  
University Hospital  
Washington, DC  
Internal Medicine

**Paul Taegyu Lee**

Mercy Catholic Medical Center  
Darby, PA  
Medicine-Preliminary

**May M. Li**

Abington Hospital-  
Jefferson Health  
Abington, PA  
Medicine-Preliminary

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Anesthesiology

**Yuan-Ping Li §**

Thomas Jefferson University  
Philadelphia, PA  
Neurology

**Jackie D. Long**

Information Withheld

**Kevin David Lopez**

Zucker School of Medicine  
Northwell at NS/LIJ  
Great Neck, NY  
Medicine-Preliminary

Reading Hospital/  
Tower Health

West Reading, PA  
Physical Medicine &  
Rehabilitation

**Chandni Lotwala \* †**

Rutgers Robert Wood  
Johnson Medical School  
New Brunswick, NJ  
Family Medicine

**Kathleen Rose Loughran**

Emory University School  
of Medicine  
Atlanta, GA  
Psychiatry

**Tess Mary Lukowiak »**

Lankenau Medical Center  
Wynnewood, PA  
Medicine-Preliminary

Rutgers Robert Wood  
Johnson Medical School  
Somerset, NJ  
Dermatology

**Briana Mancenido**

Zucker School of Medicine  
Northwell at Cohen  
Children's Medical Center  
New Hyde Park, NY  
Pediatrics

**Nicholas Emilio Manini**

Thomas Jefferson University/  
Alfred I. duPont  
Hospital for Children  
Philadelphia, PA  
Pediatrics

**Diana Martirosyan**

Cooper Medical School of  
Rowan University/Cooper  
University Hospital  
Camden, NJ  
Internal Medicine

**Rhea Sarah Mathew \* †**

University of California Los  
Angeles Medical Center  
Los Angeles, CA  
Emergency Medicine

**Brendan Charles  
McCreath #**

Temple University Hospital  
Philadelphia, PA  
Internal Medicine

**John Wick McIlvain**

St. Luke's Warren Hospital  
Phillipsburg, NJ  
Family Medicine

**Shyle H. Mehta**

Zucker School of Medicine  
Northwell at NS/LIJ  
Lake Success, NY  
Neurological Surgery

**Erica Nicole Miller \***

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Pediatrics

**Roxana Mir \***

University of Connecticut  
School of Medicine  
Farmington, CT  
Obstetrics-Gynecology

**Cassandra Bonnie May  
Mitchell \***

Lehigh Valley Hospital  
Allentown, PA  
Obstetrics-Gynecology

**Ariya Mobaraki \* »**

Penn State Milton S.  
Hershey Medical Center  
Hershey, PA  
Obstetrics-Gynecology

**Anna Maria Moroz**

St. Luke's University Hospital  
Bethlehem, PA  
Emergency Medicine

**Ashni Shankar Nadgouda •**

Reading Hospital/  
Tower Health  
Reading, PA  
Obstetrics-Gynecology

**Zaw Htut Naing**

Zucker School of Medicine  
Northwell at NS/LIJ  
Manhasset, NY  
Emergency Medicine

**Lauren Riley Nelson**

Icahn School of Medicine at  
Mount Sinai Beth Israel  
New York, NY  
Medicine-Preliminary  
Neurology

**Sayedatun Nessa**

Stony Brook University  
Hospital  
Stony Brook, NY  
Neurology

**Tammy Hoi See Ng**

University of California  
Davis Medical Center  
Sacramento, CA  
Pediatrics

**Louise Ngo**

Temple University Hospital  
Philadelphia, PA  
Anesthesiology

**Cynthia Y. Niño**

Phoenix Children's Hospital  
Phoenix, AZ  
Child Neurology

**Andrew Chase Noah**

Crozer-Chester Medical Center  
Upland, PA  
Transitional

Temple University Hospital  
Philadelphia, PA

Radiology-Diagnostic

**Rachel Ann Nolan » §**

University of Washington  
Seattle, WA  
Emergency Medicine

**Nathan John O'Brien**

University at Buffalo  
School of Medicine  
Buffalo, NY  
Emergency Medicine

**Clarissa R. O'Connor \* ££**

West Suburban Medical Center  
Oak Park, IL  
Family Medicine

**Shelby Susan Olender**

Dartmouth-Hitchcock  
Medical Center  
Lebanon, NH  
Psychiatry

**Jeffrey David Olson \***

State University of New  
York Health Science  
Center at Brooklyn  
Brooklyn, NY  
Emergency Medicine

**Conor Michael O'Meara**

Crozer-Chester Medical Center  
Upland, PA  
Emergency Medicine

**Matthew Onimus**

University of Maryland  
Medical Center  
Baltimore, MD  
Medicine-Preliminary

Johns Hopkins Hospital  
Baltimore, MD  
Radiology-Diagnostic

**Pablo Jose Ordonez**

University of Maryland  
Medical Center  
Baltimore, MD  
Family Medicine

**Sammy Othman**

Zucker School of Medicine  
Northwell at NS/LLJ  
Great Neck, NY  
Plastic Surgery

**Michael James Palizzolo**

Thomas Jefferson University  
Philadelphia, PA  
Emergency Medicine

**Kaitlyn Nicole Palmer »**

Cleveland Clinic Foundation  
Cleveland, OH  
Neurology

**Cindy Park #**

Temple University Hospital  
Philadelphia, PA  
Internal Medicine

**Joseph Park**

Case Western Reserve  
University/University  
Hospitals Cleveland  
Medical Center  
Cleveland, OH  
Pediatrics

**Hinal Patel »**

Rutgers Robert Wood  
Johnson Medical School  
New Brunswick, NJ  
Family Medicine

**Reddy M. Pathakota ••**

University of California  
Los Angeles Medical  
Center - Olive View  
Sylmar, CA  
Internal Medicine

**Ricky Rajendra Patil**

New York University Grossman  
School of Medicine  
Brooklyn, NY  
General Surgery

**Lucy Anne Pualani Paul**

Santa Clara Valley  
Medical Center  
San Jose, CA  
Medicine-Preliminary

Rutgers Robert Wood  
Johnson Medical School  
New Brunswick, NJ  
Anesthesiology

**Jessica Mary Pawly \* » £**

University of Virginia  
Charlottesville, VA  
General Surgery

**Brandon Joseph Perumpail**

St. Christopher's Hospital for  
Children/Tower Health  
Philadelphia, PA  
Pediatrics

**Richard William Petrella II**

Washington University  
School of Medicine/  
Barnes-Jewish Hospital  
St. Louis, MO  
Internal Medicine

**Bryan Tri Pham •••**

Loma Linda University  
Loma Linda, CA  
Internal Medicine

**Matthew Malcolm Pier »**

Temple University Hospital  
Philadelphia, PA  
Surgery-Preliminary

**Aaron V. Pinninti**

Mercy Catholic Medical Center  
Darby, PA  
General Surgery

**Zahra K. Pirani**

Zucker School of Medicine  
Northwell at Cohen  
Children's Medical Center  
New Hyde Park, NY  
Pediatrics

**Jessica Pryor »**

Temple University Hospital  
Philadelphia, PA  
Urology

**Max Mathew Puthenpura**

Cleveland Clinic Foundation  
Cleveland, OH  
Internal Medicine

**Grace Wen-Hua Quinn \* »**

Children's National  
Medical Center  
Washington, DC  
Pediatrics

**Priya Ramachandrupa £**

Penn State Milton S.  
Hershey Medical Center  
Hershey, PA  
Internal Medicine

**Michael Anthony Sebastian Ramada ••**

Zucker School of Medicine  
Northwell at NS/LLJ  
Great Neck, NY  
Internal Medicine

**Prasanti Sai Ravipati**

Tufts Medical Center  
Boston, MA  
Internal Medicine

**Leslie Marvel Raybould**

St. Christopher's Hospital for  
Children/Tower Health  
Philadelphia, PA  
Pediatrics

**William Yang Raynor**

Crozer-Chester Medical Center  
Upland, PA  
Transitional

Rutgers Robert Wood  
Johnson Medical School  
New Brunswick, NJ  
Radiology-Diagnostic

**Sara Margaret Rogerson**

University of Massachusetts  
Medical School  
Worcester, MA  
Family Medicine

**Madhuwani Suguna Rojulpote**

Rush University  
Medical Center  
Chicago, IL  
Internal Medicine

**Ahmad Nasif Sadique**

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Anesthesiology

**Yasmina M. Samaha**

Newark Beth Israel Medical  
Center/Robert Wood  
Johnson Barnabas Health  
Newark, NJ  
Pediatrics

**Nimerta Kaur Sandhu \* £**

Information Withheld



**Emma Ann Schanzenbach \***

Lehigh Valley Hospital  
Allentown, PA  
Family Medicine

**Elizabeth Schell**

Temple University Hospital  
Philadelphia, PA  
Emergency Medicine

**Nicholas Bernard Schmidt**

Temple University Hospital  
Philadelphia, PA  
Psychiatry

**Emily M. Seltzer**

Allegheny General Hospital  
Pittsburgh, PA  
Emergency Medicine

**Caitlin Giselle Serшон »**

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Emergency Medicine

**Tristan Teague Seton £**

Geisinger Health System  
Wilkes-Barre, PA  
General Surgery

**Malak Shah**

Hackensack Meridian Health  
Palisades Medical Center  
North Bergen, NJ  
Transitional

University at Buffalo  
School of Medicine  
Buffalo, NY  
Radiology-Diagnostic

**Deepak K. Shan**

Allegheny General Hospital  
Pittsburgh, PA  
Vascular Surgery

**James Daniel Sharer**

Thomas Jefferson University/  
Alfred I. duPont  
Hospital for Children  
Philadelphia, PA  
Pediatrics

**Rishi Sharma**

Hackensack University  
Medical Center  
Hackensack, NJ  
General Surgery

**Nadeera Sidique**

WellSpan York Hospital  
York, PA  
Surgery-Preliminary

**Akruti Singh**

Baylor University  
Medical Center  
Dallas, TX  
Internal Medicine

**Lilien Socorro \***

University of Miami/  
Jackson Health System  
Miami, FL  
Emergency Medicine

**Sitara Soundararajan £**

Montefiore Medical  
Center/Albert Einstein  
College of Medicine  
Bronx, NY  
Psychiatry

**Ammarah Shehar Spall »**

Stony Brook School  
of Medicine  
Stony Brook, NY  
Medicine-Pediatrics

**Chelsea Lynn Spector**

Memorial Healthcare System  
Pembroke Pines, FL  
General Surgery

**Natalie Nichole Stump**

Dartmouth-Hitchcock  
Medical Center  
Lebanon, NH  
Emergency Medicine

**Adam Christian Sundholm »**

Baylor University  
Medical Center  
Dallas, TX  
Internal Medicine

**Abigail Rose Tami •**

Boston University  
Medical Center  
Boston, MA  
Internal Medicine

**Trevor George Lee Teich**

University of Toronto  
Toronto, Canada  
Anatomical Pathology

**Arman Vasken Terzian #**

Johns Hopkins Hospital  
Baltimore, MD  
Psychiatry

**Garret Paul Tesman »**

Lancaster General Hospital  
Lancaster, PA  
Family Medicine

**Aditya Thandoni**

Allegheny General Hospital  
Pittsburgh, PA  
Orthopaedic Surgery

**Colton Mason Tom \* »**

University of Southern  
California  
Los Angeles, CA  
Internal Medicine

**Jane Yi Tong**

University of Maryland  
Medical Center  
Baltimore, MD  
Otolaryngology

**Christopher Luis Torres**

Reading Hospital/  
Tower Health  
Reading, PA  
Family Medicine

**Joseph M. Tramontana**

Chestnut Hill Hospital/  
Tower Health  
Philadelphia, PA  
Family Medicine

**Thomas Santino Truglio**

Dartmouth-Hitchcock  
Medical Center  
Lebanon, NH  
Internal Medicine

**Brian Scott Van Dam**

WellSpan York Hospital  
York, PA  
Emergency Medicine

**Dylan G. Vance \* »**

The University of Texas Health  
Science Center at Houston  
Houston, TX  
Otolaryngology

**Darshak Manu Vekaria \* »**

Stony Brook School  
of Medicine  
Stony Brook, NY  
Emergency Medicine

**James Edward Verdone**

University of Maryland  
Medical Center  
Baltimore, MD  
Internal Medicine

**Rheanna Vimawala**

Temple University Hospital  
Philadelphia, PA  
Emergency Medicine

**Estelle Charlotte Vincent**

Saint Vincent Hospital  
Erie, PA  
Family Medicine

**Malia N. Voytik » •••**

Christiana Care Health System  
Newark, DE  
General Surgery

**Jennifer Wainwright**

University of Arizona  
College of Medicine  
Phoenix, AZ  
Family Medicine

**Charles Wang §**

Albert Einstein Medical Center  
Philadelphia, PA  
Medicine-Preliminary

University of California  
Davis Medical Center  
Sacramento, CA  
Radiation Oncology

**Joshua H. Weinberg**

Ohio State University  
Medical Center  
Columbus, OH  
Neurological Surgery

**Taylor M. Wernert**

Rhode Island Hospital/  
Brown University  
Providence, RI  
Internal Medicine

**Matilda Joan Whitney » #**

Icahn School of Medicine at  
Mount Sinai/Mount Sinai  
New York, NY  
Internal Medicine

**James Williams**

University of Virginia  
Charlottesville, VA  
Surgery-Preliminary  
Ophthalmology

**Ryan Williams**

Penn State Milton S.  
Hershey Medical Center  
Hershey, PA  
Internal Medicine

**Winston Wu**

University of Virginia  
Charlottesville, VA  
Emergency Medicine

**Yen-Ruh Andrew Wu**

Zucker School of Medicine  
Northwell at NS/LIJ  
Great Neck, NY  
Medicine-Preliminary

Zucker School of Medicine  
Northwell at NS/LIJ  
New Hyde Park, NY  
Radiation Oncology

**Rebecca Yao » †**

Mayo Clinic School of  
Graduate Medical Education  
Rochester, MN  
Internal Medicine

**Bettie A. Yeboah \***

University of Virginia  
Charlottesville, VA  
Pathology

**Emma V. Yellin**

Abington Hospital-  
Jefferson Health  
Abington, PA  
Medicine-Preliminary

**Rachel Yoo \***

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Houston, TX  
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New York, NY  
Internal Medicine

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Harbor-University of California  
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Internal Medicine

**DEGREE AWARDED  
POSTHUMOUSLY**

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**Deylan C. Moore****Vivek Subramani**

### *Graduate School of Biomedical Sciences and Professional Studies Awards*

#### THE AMEDEO BONDI, PHD ENDOWED GRADUATE AWARD

To a PhD graduating student for excellence in research performance during the training experience.

*Hemalatha Muralidharan  
Class of 2021*

### *Doctor of Medicine Awards*

#### THE 2021 UNITED STATES PUBLIC HEALTH SERVICE AWARD

From the Physicians Professional Advisory Committee of the U.S. Public Health Service in recognition of demonstrated commitment to public health and public health practice:

*Wesley Laurence  
Goodman-Levy*

#### THE DR. ELIAS ABRUTYN AWARD

For excellence in Infectious Diseases:

*Michael Murray Caplan*

#### THE PAULA BERNOCCHI MEMORIAL AWARD

For excellence in the field of Emergency Medicine:

*Katelyn Mary Latuska*

For excellence in the field of Psychiatry:

*Annie Chang*

#### THE IAIN F.S. BLACK AWARD

For excellence in Pediatrics, presented by the Department of Pediatrics and the Medical Staff of St. Christopher's Hospital for Children:

*Jillian Elizabeth Heckman*

#### THE LUTHER W. BRADY, MD AWARD

For excellence in Radiation Oncology and Clinical Oncology:

*Jenna Elyse Kocsis*

#### THE RONALD P. CAPUTO AWARD

For outstanding clinical skills and humanitarianism in the care of medical patients:

*Joyce Lu Zhang*

#### THE HARRIS R. CLEARFIELD AWARD

For excellence in Gastroenterology:

*Nicole Bernstein*

#### THE MAURICE C. CLIFFORD, MD LEADERSHIP AWARD

For a graduating senior who has excelled academically and whose accomplishments exhibit outstanding leadership, integrity, excellence and volunteer service in activities devoted to human welfare:

*Matthew Malcolm Pier*

#### THE SELMA AND OSCAR CORN, MD MEMORIAL IN ORTHOPAEDICS HU '43 AWARD

For excellence in Orthopaedic Surgery, proven scholarship and demonstrated leadership amongst peers:

*Grace Elizabeth Hernandez*

#### THE DREXEL UNIVERSITY COLLEGE OF MEDICINE ALUMNI ASSOCIATION AWARD

For dedication and contribution to the community and University:

*Richard Lee Graf*

#### THE DREXEL UNIVERSITY COLLEGE OF MEDICINE SGA AWARD

For outstanding dedication and loyalty to the school and the student body:

*Jenna Elyse Kocsis*

#### THE ALAN EDELSON MEMORIAL PRIZE

For outstanding leadership and service to the student body and the College of Medicine:

*Temilolaoluwa Olanrewaju  
Daramola*

#### THE DIANA J. EGAN AWARD

For excellence in clinical Obstetrics & Gynecology:

*Mariah Gabrielle Elly*

#### THE SOCIETY FOR ACADEMIC EMERGENCY MEDICINE AWARD

For excellence in Emergency Medicine:

*Katherine Frances Hawkins*

#### THE DEPARTMENT OF FAMILY, COMMUNITY, AND PREVENTIVE MEDICINE AWARD

For excellence in Family Medicine:

*Ashlyn Renee Brown*

For excellence in Community and Preventive Medicine:

*Pablo Jose Ordonez*

#### THE EVA FERNANDEZ FOX AWARD

For the graduating senior who best demonstrates personal integrity, stability, responsibility and loyalty to the College of Medicine:

*Julianna Marie Cervino*

#### THE WILLIAM GREGG AWARD

Graduation prize for Humanitarianism in Care of Pediatric Patients:

*Grace Wen-Hua Quinn*

#### THE LESTER J. GROVERMAN, MD MEMORIAL AWARD

For outstanding clinical and academic performance in Hematology and Oncology:

*Mohan Ashok Zopey*

#### THE DR. MARY ELLEN HARTMAN AWARD

For a student underrepresented in medicine who has demonstrated outstanding social consciousness and leadership with peers and the community:

*Cassandra Bonnie May  
Mitchell*

#### THE BEATRICE STERLING HOLLANDER, MD, WMC '41 MEMORIAL AWARD

To the student in the graduating class who shows promise of leadership, high character, and dedication to service:

*Jenna Elyse Kocsis*

#### THE RITA G. JACOBS AWARD

For excellence and compassion in Anesthesiology and pain management:

*Karyn Elizabeth Barrett*

#### THE ROBERT F. JOHNSTON MEMORIAL AWARD

For excellence in Pulmonary and Critical Care Medicine:

*Luke Linwood Lawrence*

#### THE EICHI K. KOIWAI, MD, HU'47 AWARD

For an outstanding performance during the Pathology Clerkship:

*Brenndan Lawrence Crumley*

#### THE JOSEPH A. LANGBORD MEMORIAL PRIZE

For a graduating senior who best exemplifies the qualities of humanitarianism in the practice of medicine:

*Ashlyn Renee Brown*

#### THE WILLIAM LIKOFF, MD MEMORIAL AWARD IN CARDIOLOGY

For the graduating senior with the most promise in the field of Cardiology:

*Sara Ann Barlow*

#### THE GEORGE D. LUMB, MD AWARD

For outstanding achievement in the Pathology course:

*Bettie A. Yeboah*

#### THE DANIEL MASON, MD HU'44 AWARD

For excellence in Cardiovascular clinical work:

*Adam Christian Sundholm*

**DR. NATHALIE MAY  
PHYLLIS MARCIANO  
JR. AWARD**

For outstanding leadership and service to the student body and College of Medicine:

*Temilolaoluwa Olanrewaju Daramola*

**THE MEDICAL  
HUMANITIES AWARD**

*Anisha L. Gopu*

**THE DEPARTMENT OF  
MEDICINE AWARD**

For excellence in Renal and Electrolyte studies:

*Prasanti Sai Ravipati*

**THE DEYLAN C. MOORE  
MEMORIAL AWARD**

For leadership, humanism, and service to the student body and the community:

*Samantha Lyn Innis*

**THE ALMA D. MORANI,  
MD WMC'31 AWARD  
IN GROSS ANATOMY**

For excellence in Anatomy during the senior year:

*Nicole Bernstein*

*Tristen Teague Seton*

*Colton Mason Tom*

*Jane Yi Tong*

**THE DEPARTMENT OF  
NEUROLOGY AWARD**

For excellence in Neurology:

*Lauren Riley Nelson*

*Kaitlyn Nicole Palmer*

**THE DEPARTMENT  
OF OBSTETRICS AND  
GYNECOLOGY AWARD**

For overall academic excellence in the Obstetrics and Gynecology:

*Ashni Shankar Nadgauda*

For academic excellence in the Obstetrics and Gynecology Clinical Clerkship:

*Jenna Elyse Kocsis*

For leadership in the field of Obstetrics and Gynecology:

*Cassandra Bonnie May Mitchell*

**THE OFFICE OF  
STUDENT AFFAIRS  
AWARD**

For service to the medical school and to the student body:

*Christopher Vieira Bastos*

*Richard Lee Graf*

*Jane Yi Tong*

**THE AXEL K. OLSEN,  
MD NEUROSURGERY  
AWARD**

For excellence in Neurosurgery:

*Shyle H. Mehta*

**THE ALEXANDER  
PEARCE, MD AWARD**

For excellence in Surgery:

*Kelly R. Donovan*

**THE RONALD S.  
PENNOCK, MD AWARD**

For excellence in Internal Medicine and Cardiology:

*Richard William Petrella II*

**THE PENNSYLVANIA  
ACADEMY OF  
FAMILY PHYSICIANS,  
PHILADELPHIA  
BRANCH AWARD**

For performance and leadership in Family Medicine:

*Joseph M. Tramontana*

**THE ELISE REID  
CARRINGTON AWARD**

For a graduating senior who has demonstrated a high level of accomplishment and who has demonstrated outstanding leadership and service to the student body:

*Joseph Salvatore Capalbo*

**THE RICHARD  
SHUMAN AWARD**

For excellence in Pathology and Laboratory Medicine:

*Trevor George Lee Teich*

**THE DR. LEE WINSTON  
SILVER AWARD**

For excellence in Pediatrics:

*Anisha L. Gopu*

**THE VIVEK SUBRAMANI  
MEMORIAL AWARD**

For leadership, compassion, service and a commitment to fostering community within the College of Medicine.

*Malak Shah*

**THE DEPARTMENT OF  
SURGERY AWARD FOR  
EXCELLENCE IN THE  
SURGERY CLERKSHIP**

Abington-Jefferson Health:

*Kelly R. Donovan*

Allegheny Health Network:

*Samuel McGuire Brimmer*

Crozer-Chester Medical Center:

*Ariya Mobaraki*

Easton Hospital:

*Jane Yi Tong*

Kaiser Sacramento Medical Center:

*James Williams*

Philadelphia Area:

*Karyn Elizabeth Barrett*

Reading Hospital/Tower Health

*Noe Cabello-Rivera*

UPMC Pinnacle:

*Michael A. DeMaio*

WellSpan York Hospital:

*Mariah Gebrielle Elly*

**THE DEPARTMENT  
OF SURGERY AWARD**

For excellence in the Surgery Pathway:

*Andre Elias Bshara*

**THE CHARLES  
SWARTZ AWARD**

For academic and clinical excellence in Medicine:

*Kristine Lauren Cueva*

**THE DANIEL M.  
TABAS AWARD**

For outstanding scholarly achievement by a student pursuing a career in Primary Care:

*Jessica P. Fenton*

**THE THOMAS J.  
VISCHER AWARD**

For clinical excellence in Medicine:

*Christopher Vieira Bastos*

*Kathryn T. Enriquez*

*Cindy Park*

**THE ARTHUR  
AND BERTHA  
WEISMAN AWARD**

For excellence in Child Psychiatry:

*Shelby Susan Olender*

**THE RANDALL  
WEISS AWARD**

For excellence in Psychiatry:

*Timothy Patrick Higgins*

*Nicholas Bernard Schmidt*

**THE WOMAN ONE  
SCHOLAR AWARD**

*Dominique Simone Jones*

*Jacqueline Nyarkoa Koomson*

**THE WOMEN'S HEALTH  
EDUCATION AWARD**

In recognition of outstanding leadership and community commitment in the field of Women's Health:

Academic Achievement:

*Sitara Soundararajan*

Leadership:

*Clarissa R. O'Connor*

Community Commitment:

*Estefania J. Alba-Rodriguez*

*Julianna Marie Cervino*

**THE WU FAMILY PRIZE**

For excellence in Physical Medicine and Rehabilitation:

*Kevin David Lopez*

**THE DR. MARY  
YANKOSKY AWARD**

For excellence in Endocrinology:

*Won-Joon M. Koh*

For excellence in Radiologic Sciences:

*Matthew Onimus*

## Faculty Awards *for* Distinguished Clinical Teaching

### DEAN'S SPECIAL AWARDS FOR EXCELLENCE IN CLINICAL TEACHING

Allegheny Health Network  
**Matthew Hartman, MD**  
**Radiology**

Reading Hospital-Tower Health  
**David A. Matson, DO**  
**Anesthesiology**

Bayhealth Medical Center  
**Bhavin Dave, MD**  
**Medicine**

St. Christopher's Hospital  
for Children  
**Emily Spengler, MD**  
**Pediatrics**

Cancer Treatment Centers  
of America - Philadelphia  
**Imran Shariff, MD**  
**Medicine**

St. Francis Medical Center  
**Donald Christmas, MD**  
**Medicine**

Crozer-Chester Medical Center  
**Douglas Lieberman, MD**  
**Medicine**

UPMC Pinnacle Hospital  
**Ravinder Dhatt, MD**  
**Medicine**

Friends Hospital  
**Jonathan G. Shack, MD**  
**Psychiatry**

Virtua Health  
**Bhavika Patel, MD**  
**Family Medicine**

Mercy Fitzgerald Hospital  
**Loice A. Swisher, MD**  
**Emergency Medicine**

WellSpan Chambersburg Hospital  
**Indranil Chakrabarti, MD**  
**Psychiatry**

Nazareth Hospital  
**Lee A. Celio, MD**  
**Medicine**

WellSpan York Hospital  
**J. Patrick Ryan, MD**  
**Surgery**

.....  
DEAN'S SPECIAL AWARD FOR EXCELLENCE  
IN CLINICAL TEACHING AT A FAMILY PRACTICE SITE

**Washington Health System**

A tradition that reaches back nearly a thousand years, Commencement symbolizes not so much the culmination of the years of effort on the part of both students and teachers, but rather the beginning—the commencement—of a productive social and professional life, and a life of continued learning.

The first university, the University of Bologna, was founded in Italy in 1162 and offered specialized education in the major professional fields of the medieval world: law, medicine, government and theology—areas that would dominate European and American higher education until the 20th century.

From Bologna, the concept of university education spread throughout Europe and later to the New World. The pageantry and symbolism of Commencement are typified by the cap and gown, which in their original forms were simply the everyday attire of the medieval scholar. The additions of the centuries have made them what they are today.

The academic costume has three basic parts: the cap, the gown and the hood. Three factors must be taken into consideration—the degree (bachelor, master, doctor); the branch of knowledge (nursing, medicine, etc.); and the university by which the degree is granted.

The bachelor's gown is black, has long sleeves, and is worn closed. The master's gown is black but has short sleeves and a crescent cut at the sleeve end. Some are open at the wrist; others have a slit in the upper part of the sleeve. The doctor's gown is often black, preferably silk, with full, round sleeves that are barred in either black velvet or velvet of the color used in the hood to designate the branch of learning. Many American universities, as well as British ones, now have gowns of characteristic color for doctoral graduates. For instance, a graduate of Harvard University may wear a crimson gown, a New York University graduate a violet gown, and a University of Pennsylvania graduate a gown of red and blue.

The shape and size of the American hood mark the degree of the wearer. The lining of the hood is indicative of the institution granting the degree and is usually the official color or colors of the school. If two colors are used, one is generally arranged as a chevron upon the other.

The bachelor's hood is three feet long, the master's three-and-a-half feet long, and the doctor's four feet long. Bachelor of Science and Master of Science candidates wear sun-gold hoods; Bachelor of Arts and Master of Arts candidates, white hoods. Doctor of Philosophy candidates wear blue hoods. Doctor of Medicine candidates wear green hoods. Candidates with annotated degrees may wear hoods of other colors, such as apricot (Bachelor and Master of Science in Nursing), teal (Master of Physical Therapy), and blue with white trim (Master of Arts, Creative Arts in Therapy), to name a few.

Caps are traditionally black with a long tassel fastened to the mid-point. A doctor's cap may have a tassel of gold thread. The tassel is worn on the right side until a degree has been conferred; it is then worn on the left.

Commencement begins and ends with the academic procession, led by the chief marshal carrying the mace. The mace traces its origins to the Roman fasces, a bundle of rods bound together around an ax with the blade projecting, which was carried before magistrates as an emblem of authority. The ceremony officially begins with the placing of the mace before the graduates and ends when the chief marshal retrieves it and leads the recession. The color guard follows the marshal, with the candidates for degrees marching behind in reverse order of seniority—certificate, associate, and bachelor's first, master's next and doctoral third. The faculty follows, also proceeding in reverse order from assistant to full professor. The final division of the procession is the platform party, composed of academic deans, administrative officers, trustees, honorary degree recipients and the president.

Throughout their long and proud history, universities have retained and cherished strong ties to their ceremonial roots. The faculties and graduates have gloried in the rich imagery and colorful panoply associated with Commencement, one of the oldest continuing rituals in the Western world.

## History and Traditions of the University Mace

The mace was a medieval weapon intended to prevail over an armored adversary. As long-range weapons evolved, the mace became a ceremonial symbol denoting authority and was carried before a nobleman for protection, if necessary, from personal attack. In academic processions, it has traditionally been carried by an academic officer of high standing. The selection of the officer to carry the mace may be governed by institutional tradition and may vary from ceremony to ceremony.

The Drexel University mace is carried in the Commencement procession to the stage, where it joins the maces of the College of Medicine's predecessor institutions. The Hahnemann mace was designed and carved by James Victor. The mace of the Medical College of Pennsylvania was designed by former dean Alton I. Sutnick, in conjunction with artist Richard Feldstein.

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*Lists complete as of May 2021*

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