

5-28-2015

## 2015 Commencement for Sidney Kimmel Medical College, Jefferson Graduate School of Biomedical Sciences, and Jefferson School of Population Health

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191<sup>ST</sup>

# COMMENCEMENT

Sidney Kimmel Medical College  
Jefferson Graduate School of Biomedical Sciences  
Jefferson School of Population Health

*of*

**THOMAS JEFFERSON UNIVERSITY**

PHILADELPHIA, PENNSYLVANIA

**1824-2015**

**Thursday, May Twenty-Eighth  
Two Thousand Fifteen  
Half Past Ten O'Clock**

KIMMEL CENTER for the PERFORMING ARTS  
260 SOUTH BROAD STREET  
VERIZON HALL

### The Oath of Hippocrates

I do solemnly swear by that which I hold most sacred:

That I will be loyal to the profession of medicine,  
just to its members, and generous to its institutions;

That I will lead my life and practice my art in  
uprightness and honor;

That I will give respect and gratitude to those who  
have taught me this art;

That into whatsoever house I shall enter, it shall be  
for the good of the sick to the utmost of my power,  
I hold myself aloof from wrong, from corruption,  
from the tempting of others to vice;

That I will exercise my art for the best care of my  
patients,  
and I will give no drug, perform no operation for  
a criminal purpose, even if solicited far less  
suggest it;

That whatsoever I shall see or hear of the lives of  
my patients which is not fitting to be spoken,  
I will keep inviolably secret.

These things I do promise upon my honor.

### Processional

*Trumpet Voluntary*  
JOHN STANLEY  
*The Jefferson Processional*  
BURLE MARX

### Opening Proclamation

RICHARD W. HEVNER  
Chairman, Board of Trustees, Thomas Jefferson  
University and Jefferson Health

### Presentation of Colors

U.S. Armed Forces Career Center, Philadelphia

### The National Anthem

### Convocation and Remarks

STEPHEN K. KLASKO, MD, MBA  
President and CEO, Thomas Jefferson  
University and Jefferson Health

### President's Award

PRESIDENT KLASKO  
M. FREDRIC RIEDERS, PhD '85

### Conferring of Honorary Degrees

PRESIDENT KLASKO  
ESTHER DYSON, Doctor of Science  
IGNAZIO R. MARINO, MD, Doctor of Science

### Conferring of Degrees in Course

PRESIDENT KLASKO

#### Jefferson Graduate School of Biomedical Sciences

Doctor of Philosophy  
Master of Science  
Presented by ..... GERALD B. GRUNWALD, PhD  
Dean, Jefferson Graduate School of Biomedical Sciences

#### Jefferson School of Population Health

Doctor of Philosophy  
Master of Public Health  
Master of Science  
Presented by ..... DAVID B. NASH, MD, MBA  
Dean, Jefferson School of Population Health

#### Sidney Kimmel Medical College

Doctor of Medicine  
Presented by ..... MARK L. TYKOCINSKI, MD  
Provost and Executive Vice President, Thomas  
Jefferson University  
Anthony F. and Gertrude M. DePalma Dean,  
Sidney Kimmel Medical College

### Oath of Hippocrates

JOSEPH F. MAJDAN, MD, FACP  
Assistant Professor of Medicine

### Recessional

*Pomp and Circumstance*, ELGAR  
THE REVEREND R. BRUCE TODD, Organist

#### Grand Marshal

CHRISTOPHER V. CHAMBERS, MD

#### Marshals

DAVID ABRAHAM, PhD  
RAELYNN COOTER, PhD  
STEVEN K. HERRINE, MD  
CHARLES A. POHL, MD

CAROL L. BECK, PhD  
ALBERT G. CRAWFORD, PhD  
LISA M. KOZLOWSKI, PhD  
SUSAN ROSENTHAL, MD

CLARA A. CALLAHAN, MD  
KRISTIN L. DESIMONE, MD  
KAREN D. NOVIELLI, MD  
KATHRYN P. TRAYES, MD

#### Student Marshals

ZACHARY SCHOEPFLIN

GRAHAM PEIGH

*The audience is requested to remain seated during the Academic Procession and Recession.*



## Candidates for the Degree of Doctor of Philosophy

- MICHAEL ALEXANDER AUGELLO (Molecular Pharmacology & Structural Biology) ..... Philadelphia, PA  
 B.S., The College of New Jersey  
 Thesis Title: "Defining the Role of Cyclin D 1b Induction in Tumor Progression"  
 Advisor: Karen Knudsen, Ph.D.
- DARRYL ANDREW BARKHOUSE (Immunology & Microbial Pathogenesis) ..... Phoenixville, PA  
 B.S., McGill University  
 Thesis Title: "Interferon Gamma Expression by Recombinant Rabies Virus Attenuates Pathogenicity and Enhances Safety and Efficacy of Post-exposure Treatment Vectors"  
 Advisor: D. Craig Hooper, Ph.D.
- BRIAN F. CORBETT (Neuroscience) ..... Philadelphia, PA  
 B.S., The College of New Jersey  
 Thesis Title: "Network Dysfunction and Cognitive Deficits in a Mouse Model of Alzheimer's Disease"  
 Advisor: Jeannie Chin, Ph.D.
- SANA SARA DASTGHEYB (Cell & Developmental Biology) ..... Vienna, VA  
 B.S., University of Virginia  
 Thesis Title: "Staphylococcus Aureus in the Synovials Environment: Supporting Long-Term Survival and Insensitivity to Antibiotics"  
 Advisor: Noreen Hickok, Ph.D.
- GREGORY JAMES EATON (Cell & Developmental Biology) ..... Washington Township, NJ  
 B.S., Rowan University  
 Thesis Title: "Apoptosis Signal-Regulating Kinase 1 Modulates Endochondral Bone Formation and Osteoarthritis Progression"  
 Advisor: Theresa Freeman, Ph.D.
- \* CHELAIN RAE GOODMAN (Molecular Pharmacology & Structural Biology) ..... Thousand Oaks, CA  
 B.A., Swarthmore College  
 Thesis Title: "Induction of a Therapy Resistant Cytokeratin 5-Positive Cell Population by 3-Ketosteroids in Luminal Breast Cancer"  
 Advisor: Hallgeir Rui, M.D., Ph.D.
- MICHELLE CARLL HELMS (Cell & Developmental Biology) ..... Stow Creek Township, NJ  
 B.S., The College of New Jersey  
 Thesis Title: "Mitotic-dependent Phosphorylation of Leukemia-Associated RhoGEF (LARG) by Cdk1"  
 Advisor: Philip Wedegaertner, Ph.D.
- AZADEH TEHRANI KIA (Neuroscience) ..... Rockville, MD  
 B.S., University of Maryland College Park  
 Thesis Title: "Characteristics of FUS-Mediated Toxicity in Amyotrophic Lateral Sclerosis"  
 Advisor: Piera Pasinelli, Ph.D.
- CURTIS HARRISON KUGEL (Genetics, Genomics, and Cancer Biology) ..... Linwood, NJ  
 B.S., University of Maryland College Park  
 Thesis Title: "Adaptive and Acquired Responses of Mutant BRAF Melanomas to RAF/MEK Inhibitors"  
 Advisor: Andrew Aplin, Ph.D.
- MICHAEL S. MAGEE (Immunology & Microbial Pathogenesis) ..... Downingtown, PA  
 B.S., University of Pittsburgh  
 Thesis Title: "Guanylyl Cyclase C-Targeted CAR-T Cell Therapy for the Treatment of Metastatic Colorectal Cancer"  
 Advisor: Scott Waldman, M.D., Ph.D.

\* Also receiving a Doctor of Medicine Degree from Sidney Kimmel Medical College

- RUTH ANNE PUMROY (Biochemistry & Molecular Biology) ..... Haddon Township, NJ  
 B.A., Wesleyan University  
 Thesis Title: "Regulation of the Classical Nuclear Import Pathway Through Variation in the Structure and Function of Importin Alpha Isoforms"  
 Advisor: Gino Cingolani, Ph.D.
- \* DAVID MICHAEL RITTER (Neuroscience) ..... Fremont, IN  
 B.S., Grace College  
 Thesis Title: "Kv3.4 Channel Function and Modulation in Nociceptors: Novel Insights Into the Pathophysiology of Neuropathic Pain"  
 Advisor: Manuel Covarrubias, M.D., Ph.D.
- ERIK MICHAEL RONZONE (Immunology & Microbial Pathogenesis) ..... Philadelphia, PA  
 B.A., University of Pennsylvania  
 Thesis Title: "Insight into the Mechanism of INCA, a Type III Secreted Effector Protein in Chlamydia Trachomatis"  
 Advisor: Fabienne Paumet, Ph.D.
- MARIA A. STEBLYANKO (Immunology & Microbial Pathogenesis) ..... Moscow, Russia  
 B.S., Lomonosov Moscow State University  
 Thesis Title: "Role of Integrin Receptors in Cytotoxic Lymphocyte Function"  
 Advisor: Yuri Sykulev, M.D., Ph.D.
- POOJA GIRISH TALATI (Molecular Pharmacology & Structural Biology) ..... Voorhees, NJ  
 B.S., Drexel University  
 Thesis Title: "Stat5a/b-Induced Mechanisms of Prostate Cancer Metastasis"  
 Advisor: Marja Nevalainen, M.D., Ph.D.
- JORDAN TYLER WESOLOWSKI (Immunology & Microbial Pathogenesis) ..... Smyrna, DE  
 B.A./B.S., University of Delaware  
 Thesis Title: "Bacteria Use Distinct Mechanisms to Inhibit SNARE-Mediated Membrane Fusion"  
 Advisor: Fabienne Paumet, Ph.D.
- ERIC B. WONG (Immunology & Microbial Pathogenesis) ..... Toms River, NJ  
 B.S., University of Richmond  
 Thesis Title: "The Role of SLAM Family Receptors in Germinal Center-Mediated Autoimmunity"  
 Advisor: Ziaur Rahman, M.D., Ph.D.
- LORI ZBORAY (Neuroscience) ..... Brackney, PA  
 B.S., Lafayette College  
 Thesis Title: "Using Cell and Animal Models to Understand Pathogenic Mechanisms in Spinal and Bulbar Muscular Atrophy"  
 Advisor: Diane Merry, Ph.D.

\* Also receiving a Doctor of Medicine Degree from Sidney Kimmel Medical College



## Candidates for the Degree of Doctor of Medicine

NADIA ABIDI ..... Macungie, PA <i>Cum Laude</i> AOA B.S., The Pennsylvania State University Medicine-Preliminary — Lankenau Medical Center, PA	TSUNG WAI AW ..... Kuala Lumpur, Malaysia International Medical University Psychiatry — Thomas Jefferson University, PA
^ ABDUL-RAZAQ ADENIYI ..... Macon, GA B.S., Mercer University Internal Medicine — York Hospital, PA	§ DIERDRE AXELL-HOUSE ..... Lewes, DE B.A., Franklin & Marshall College Internal Medicine — University of Virginia, VA
SUNIL ADIGE ..... Wilton, CT B.S., Haverford College Internal Medicine — University of Maryland Medical Center, MD	^ JANE BABIARZ ..... Chicago, IL <i>Cum Laude</i> AOA B.A., University of Chicago Internal Medicine — Oregon Health & Science University, OR
ANGUS AGNEW ..... Big Timber, MT B.A., Lewis and Clark College Emergency Medicine — Christiana Care, DE	§ JENNIFER BAKER ..... Boalsburg, PA B.A., Washington and Jefferson College Surgery — University of Cincinnati Medical Center, OH
^ PATRICIA AJAYI-FOX ..... Lagos, Nigeria B.S., Indiana University of Pennsylvania Internal Medicine /Global Health — University of Pittsburgh Medical Center Medical Education, PA	AUREEN BAKSH ..... Chesapeake, VA B.S., Temple University Pediatrics — University of Arizona Affiliated Hospitals, AZ
BRADLEY ALBERTSON ..... Wilmington, DE B.S., University of Rochester Pediatrics — Sidney Kimmel Medical College/duPont Children's Hospital, PA	MARK BALCENIUK ..... Doylestown, PA B.S., Duquesne University Surgery — University of Rochester/Strong Memorial Hospital, NY
^ ROMA AMIN ..... Pittsburgh, PA <i>Cum Laude</i> AOA B.S., The Pennsylvania State University Family Medicine — Grant Medical Center, OH	MOUNICA BANALA ..... Downingtown, PA B.S., The Pennsylvania State University Internal Medicine — Ocala Health System, FL
KARINE AMIRIKIAN ..... Eagan, MN B.A., University of Pennsylvania Pediatrics — University of Chicago Medical Center, IL	MICHAEL BARBATO ..... Forest Hill, MD B.S., Rochester Institute of Technology Pediatrics — Miami Children's Hospital, FL
MARK ASHAMALLA ..... Port Washington, NY B.A., New York University Medicine-Preliminary — Albany Medical Center, NY Radiation Oncology — New York Methodist Hospital, NY	NICHOLAS BARNA ..... Mountain Top, PA B.S., Lafayette College Pathology — New York University School of Medicine, NY
§ ANNIE ASHOK ..... Philadelphia, PA <i>Cum Laude</i> AOA B.A., University of Pennsylvania Orthopaedics — Drexel University COM/Hahnemann University Hospital, PA	GUSTAVO BARRAZUETA ..... Tampa, FL B.S., University of Florida Orthopaedics — Tufts Medical Center, MA
	CHRISTOPHER BARRETT ..... Saratoga, CA <i>Magna Cum Laude</i> AOA B.S., University of California-Davis Internal Medicine — Stanford University Programs, CA
	MOHAMMED BASITH ..... Williamsport, PA B.S., The Pennsylvania State University Psychiatry — Hershey Medical Center/Pennsylvania State University, PA

AOA – Alpha Omega Alpha Honor Medical Society

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† Also receiving a Master of Business Administration Degree from Widener University

^ Also completed College within the College Scholarly Concentration in Population Health

§ Also completed College within the College Scholarly Concentration in Clinical and Translational Research

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^ ELIZABETH BATES ..... Warrenton, VA B.A., College of William and Mary Family Medicine — Swedish Medical Center, WA	SAMANTHA BRACKETT ..... Westwood, MA B.A., Connecticut College Anesthesiology — George Washington University, DC
DANIEL BECCHI ..... Stamford, CT B.A., College of Holy Cross Emergency Medicine — University of New Mexico School of Medicine, NM	MARY BRADY ..... Danville, PA B.S., Bucknell University Transitional — Crozer-Chester Medical Center, PA Dermatology — Geisinger Health System, PA
REBECCA BEICHNER ..... New Castle, PA B.S., Allegheny College Family Medicine — Washington Hospital, PA	ARI BRANDSDORFER ..... Cortlandt Manor, NY <i>Magna Cum Laude</i> B.S., Muhlenberg College Medicine-Preliminary — University of Connecticut School of Medicine, CT
JULIANA BENNISON ..... Washington, DC B.A., Princeton University Family Medicine — Icahn School of Medicine-Beth Israel Hospital, NY	NOAH BUBOLTZ ..... Blue Springs, MO B.A., Southwest Missouri State University Pediatrics — St. Christopher's Hospital, PA
MARK BERGUSON ..... Mansfield, PA B.S., Juniata College Anesthesiology — Thomas Jefferson University, PA	LAUREN CAMPBELL ..... Chester Springs, PA B.S., University of Pittsburgh Obstetrics/Gynecology — Thomas Jefferson University, PA
JONATHAN BERI ..... Springfield, NJ B.S., University of Delaware Pediatrics — Sidney Kimmel Medical College/duPont Children's Hospital, PA	§ GREGORY CANNARSA ..... West Chester, PA <i>Summa Cum Laude</i> B.S., St. Josephs University Neurological Surgery — University of Maryland, MD
^ MEERA BHARDWAJ ..... Wesley Hills, NY B.A., Wesleyan University Internal Medicine — Icahn School of Medicine at Mount Sinai, NY	AMANDA CASAGRANDE ..... Derry, PA B.S., St. Vincent College Family Medicine — University of Pittsburgh Medical Center- St. Margaret Hospital, PA
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Radiology-Diagnostic — Icahn School of Medicine at Mt. Sinai, NY

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Pediatrics — University of Virginia, VA

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Internal Medicine — Cooper University Hospital, NJ

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Family Medicine — University of California-Davis Medical Center, CA

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Family Medicine — Eglin Hospital, FL

STEPHEN DISABATINO.....Wilmington, DE  
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Emergency Medicine — Icahn School of Medicine-St. Luke's-Roosevelt Hospital, NY

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Medicine-Preliminary — Einstein/Montefiore Medical Center, NY  
Neurology — New York University School of Medicine, NY

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Orthopaedics Research — Thomas Jefferson University, PA

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Family Medicine — Lancaster General Hospital, PA

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Ophthalmology — Nassau University, NY

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*Summa Cum Laude*  
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Otolaryngology — Thomas Jefferson University, PA

JUSTIN GAMEZ..... Phoenix, AZ  
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Radiology-Diagnostic — Thomas Jefferson University, PA

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Radiology-Diagnostic — Thomas Jefferson University, PA

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GUSTAVO GOMEZ ..... Tannersville, PA  
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 Family Medicine — Excelsa Health-Latrobe Hospital, PA

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 Radiation Oncology — Northwestern McGaw/NMH/VA, IL

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MAX GREENKY ..... Fayetteville, NY  
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ANNA GRIFFITH ..... Lewisburg, PA  
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 Internal Medicine — University of North Carolina Hospitals, NC

^ ELIJAH GRILLO ..... Dingmans Ferry, PA  
 AOA  
 B.S., West Chester University  
 Medicine-Primary Care — University of Colorado School of  
 Medicine-Denver, CO

SHANNON GRIMES ..... Lower Gwynedd, PA  
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 Obstetrics/Gynecology — Lankenau Medical Center, PA

RACHAEL GROSSO ..... Philadelphia, PA  
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§ JULIANA GUARENTE ..... Hurley, NY  
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 Obstetrics/Gynecology — Thomas Jefferson University, PA

SRIHARSHA GUMMADI ..... Austin, TX  
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^ NEIL HAIDORFER ..... Takoma Park, MD  
 B.S., University of Maryland-Baltimore County  
 Emergency Medicine — Einstein/Jacobi Medical Center, NY

ELIZABETH HANSON ..... Auburn, AL  
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 NY

FAHIM HASHMI ..... Vero Beach, FL  
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 Transitional — St. Mary Mercy Hospital, MI  
 Radiology-Diagnostic — North Shore-Long Island Jewish  
 Health System, NY

EZRA HAZAN ..... Brooklyn, NY  
*Cum Laude*  
 B.S., State University of New York-Binghamton  
 Medicine-Preliminary — Maimonides Medical Center, NY  
 Dermatology — Thomas Jefferson University, PA

BENJAMIN HENDY ..... Sandy, UT  
*Cum Laude*  
 AOA  
 B.S., University of Utah  
 Orthopaedics — Thomas Jefferson University, PA

ERIK HENKELMAN ..... Swarthmore, PA  
 B.S., Duke University  
 Orthopaedics — Boston University Medical Center, MA

§ KEVIN HENRICHSEN ..... Shamong, NJ  
 B.S., Drexel University  
 Orthopaedics — Allegheny General Hospital, PA

LIOR HIRSCH ..... North Miami Beach, FL  
*Cum Laude*  
 AOA  
 B.S., University of Florida  
 Surgery-Preliminary — Hospital of the University of Pennsylvania,  
 PA  
 Urology — Hospital of the University of Pennsylvania, PA

NORA HOMSI ..... Chicago, IL  
 B.A., University of Rochester  
 Internal Medicine — Lincoln Medical Center, NY

^ JOSEPH HONG ..... Castro Valley, CA  
 B.A., University of California-Davis  
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### Candidates for the Degree of Master of Science in Immunology and Microbial Pathogenesis

AMBER L. DUNKEL ..... Mattoon, IL  
B.S., University of Illinois-Urbana  
Thesis Title: "Development of a Bivalent Human Immunodeficiency Virus Type-1 and Rabies Vaccine"  
Advisor: James McGettigan, Ph.D.

JULIA KLYUS ..... Flemington, NJ  
B.S., Dickinson College  
Thesis Title: "Investigating the Role of Nascent Polypeptide-Associated Complex (NAC) in Antigen Processing and Presentation"  
Advisor: Laurence Eisenlohr, V.M.D., Ph.D.

### Candidate for the Degree of Master of Science in Neuroscience

STEPHANIE SCHLEIDT ..... Wilmington, DE  
B.S., Ursinus College  
Thesis Title: "Using Embryonic Stem Cells to Study and Treat Parkinsons Disease"  
Advisor: Lorraine Iacovitti, Ph.D.

### Candidates for the Degree of Master of Science in Biomedical Sciences

LAURA DERKRIKORIAN HUNSBERGER ..... Bryn Mawr, PA  
B.S., Franklin and Marshall College

LAN P. OAKMAN ..... Philadelphia, PA  
B.S., Neumann College

JUSTIN MICHAEL ROCK ..... Hereford, PA  
B.S., Clarion University

STEFANIE M. ROTHSTEIN ..... Holland, PA  
B.S., Temple University

SHAHILA SRISKANDA ..... Columbia, SC  
B.S., College of Charleston

DAVID KAROL WINTERS ..... Branchburg, NJ  
B.S., Rutgers University

### Candidates for the Degree of Master of Science in Cell and Developmental Biology

EBONEE BIZZELL ..... East Stroudsburg, PA  
B.S., Temple University

COLLEEN ELIZABETH LARMOUR ..... Philadelphia, PA  
B.S., Temple University

STEPHANIE M. LAUDISI ..... Prospect, CT  
B.S., University of Connecticut

ERICA MARY MCGOVERN ..... Warrington, PA  
B.S., Villanova University

JENNIFER YEUNG ..... Philadelphia, PA  
B.S., Drexel University

AOA – Alpha Omega Alpha Honor Medical Society

\* Also receiving a Doctor of Philosophy Degree from Jefferson Graduate School of Biomedical Sciences

† Also receiving a Master of Business Administration Degree from Widener University

^ Also completed College within the College Scholarly Concentration in Population Health

§ Also completed College within the College Scholarly Concentration in Clinical and Translational Research



### Candidates for the Degree of Master of Science in Microbiology

- MARIA JOSE CHACON-DORTA ..... Newark, DE  
B.S., University of Puerto Rico-Arecibo
- ELIZABETH A. CHRISTIAN ..... Philadelphia, PA  
B.S., University of Pittsburgh
- JEKIA COX ..... Baltimore, MD  
B.S., Towson University
- CHRISTINE THERESA CURCIONE ..... Somers Point, NJ  
B.S., Immaculata University
- BRITTANY DAIUTOLO ..... Magnolia, NJ  
B.S., Elizabethtown College
- DANIELLE MARIE GALLO ..... Yorktown Heights, NY  
B.S., State University of New York-Binghamton
- RACHEL ROSE GIATRAS ..... Mohnton, PA  
B.S., Temple University
- ERICA RAE HART ..... Philadelphia, PA  
B.S., Chestnut Hill College
- KANYEBA SANDRA ILUNGA ..... Philadelphia, PA  
B.A., Temple University
- ALEXIS JAE LANDAU ..... Lancaster, PA  
B.S., Shenandoah University
- DANIELLE M. O'CONNELL ..... Yardley, PA  
B.S., University of Scranton
- SUREN RAJAKARUNA ..... Philadelphia, PA  
B.S., Elizabethtown College
- ADELLE L. SCHADE ..... Wernersville, PA  
B.S., West Chester University of Pennsylvania
- NORA JANE SCHMIDT ..... Westampton, NJ  
B.S., Rowan University
- JESSICA L. SCHREITER ..... Zionsville, PA  
B.S., The Pennsylvania State University
- COLBY JAY STOTESBURY ..... Horsham, PA  
B.A., Arcadia University
- APRIL ROSE TORIGIAN ..... Pemberton, NJ  
B.S., Drexel University
- MICHAEL PHILIP YOUNG ..... Toms River, NJ  
B.S., The College of New Jersey
- ADAM ROBERT ZAKHEIM ..... Philadelphia, PA  
B.A., Haverford College

### Candidates for the Degree of Master of Science in Pharmacology

- SAMEH GABALLA ..... Cairo, Egypt  
B.S., Ain Shams University
- TOSHIMASA OKABE ..... Kanazawa, Japan  
Bachelor of Medicine, University of Tokyo
- NEIL DAVID PALMISIANO ..... Pittsburgh, PA  
B.S., The Pennsylvania State University
- RICARDO RESTREPO JARAMILLO ..... Morrisville, PA  
B.S., Universidad Prividad Boliviana
- ASHWIN R. SAMA ..... Mount Laurel, NJ  
M.B.B.S., Armed Forces Medical College

### Candidate for the Degree of Doctor of Philosophy in Population Health Sciences

- KRISTEN L. HOLLINGSWORTH ..... New Hope, PA  
M.P.H., University of Connecticut  
Thesis Title: "The Influence of the Risk Evaluation Mitigation Strategy on Erythropoiesis Stimulating Agent Use in Medicare Patients with Breast and Lung Cancers with Chemotherapy Induced Anemia"  
Thesis Advisor: John F. McAna, Ph.D., M.A.

### Candidates for the Degree of Master of Science in Healthcare Quality and Safety

- ZIAD W. GHAMRA ..... Sarasota, FL  
B.S., American University in Beirut
- BRIAN GLYNN ..... Sicklerville, NJ  
B.S., West Chester University of Pennsylvania
- IRVING HUBER ..... Ambler, PA  
B.A., City University of New York-Brooklyn College
- PAUL R. SIERZENSKI ..... Bear, DE  
B.S., Temple University

### Candidates for the Degree of Master of Public Health

- JONATHAN W. BALL ..... Smithsburg, MD  
B.S., Towson University
- ELAINE SEATON BANERJEE ..... Lansdale, PA  
B.A., Kenyon College
- EVAN DODGE BILHEIMER ..... Westfield, NJ  
B.A., University of Rochester
- CAITLIN ISOBEL BILLINGHAM ..... Auburn, CA  
B.S., Villanova University
- AMBER YVONNE BOWIE ..... Kinston, NC  
B.A., Duke University
- NANCY ELIZABETH BRISBON ..... Philadelphia, PA  
M.D., Temple University
- ELIZABETH ANN DE ARMAS ..... Miami, FL  
B.S., University of Miami
- RENEE DIXON ..... Rochester, NY  
B.A., Lincoln University



MANNAT DOGRA ..... Chandigarh, India  
Bachelor of Dental Surgery, Padmashree Dr. D.Y. Patil University

AQUIERA LENE HALSEY ..... Hempstead, NY  
B.S., Drexel University

AIMEE M. HERBERT ..... Conshohocken, PA  
B.S., Millersville University of Pennsylvania

PUNIT MAGANLAL HINSU ..... Philadelphia, PA  
M.B.A., La Salle University

EVAN E. HUSTED ..... Philadelphia, PA  
B.A., American University

KRISTEN ALISHA ISAAC ..... Bear, DE  
B.S., Howard University

LAUREL M. JONES ..... Wilmington, DE  
B.S., University of Delaware

AMAR JOSHI ..... Cherry Hill, NJ  
B.S., The College of New Jersey

AMANDA J. KAY ..... Wilmington, DE  
M.D., Loyola University of Chicago

TUONGVY LUONG ..... Philadelphia, PA  
B.S., University of the Sciences Philadelphia

ANGIRA MATHUR ..... Jodhpur, India  
BVSc., Rajasthan Agricultural University

NICOLE ELISHA MATTEUCCI ..... Philadelphia, PA  
B.A., Messiah College

PHYLICIA A. MCFADDIN ..... Dallas, TX  
B.S., Baylor University

JOSHUA M. MILBER ..... Philadelphia, PA  
B.A., University of Pennsylvania

ABIBA NAMEN NOUBISSIE ..... Fouban, Cameroon  
B.S., Temple University

ALISON JEAN O'DONNELL ..... Sewickley, PA  
B.A., Haverford College

THAO-LY TAM PHAN ..... Richmond, VA  
M.D., Brown University

DANIELLE RAUCHEISEN ..... Philadelphia, PA  
B.S., The Pennsylvania State University

NEIL ROHIT SHAH ..... Bensalem, PA  
B.S., University of Pittsburgh

YELENA SPECTOR ..... Southampton, PA  
B.S., Temple University

MARTHA STEFANIAK ..... Lancaster, PA  
B.A., Franklin and Marshall College

MELISSA LAURA VALENTINE ..... Baltimore, MD  
B.A., Loyola College

ARIANE VARLOTTA ..... Collegeville, PA  
B.S., Duquesne University

LINDSAY NICOLE WAQAR ..... Harrisburg, PA  
B.A., McDaniel College

PRIYANKA YADAV ..... Andaman Islands, India  
B.Med., Lady Hardinge Medical College

BRIAN THOMAS ZEPKA ..... West Chester, PA  
B.S., West Chester University of Pennsylvania

#### Candidates for the Degree of Master of Science in Healthcare Quality and Safety Management

MICHAEL ROBERT JORDAN ..... Rochester, NY  
M.D., Michigan State University

MARTIN E. KLEIN ..... Flemington, NJ  
M.D., University of Medicine and Dentistry of New Jersey

DEBRA GAY PETERSON ..... Litchfield, MN  
B.S., Luther College

MARK GERARD RISI ..... Hamilton, NJ  
B.S., Rutgers University-New Brunswick

#### Candidate for the Degree Master of Science in Applied Health Economics and Outcomes Research

CHRISTINE A. SEVALD ..... Ann Arbor, MI  
M.A., University of Illinois-Urbana

#### Candidates for the Degree of Master of Science in Health Policy

MICHAEL B. DURKIN ..... Washington Crossing, PA  
M.S., Columbia University

TRACY C. ELY ..... Ringoes, NJ  
M.B.A., University of North Carolina-Charlotte

JOSEPH HULIHAN ..... Newtown, PA  
B.S., Dickinson College

JILL MARIE HUTT ..... Wilmington, DE  
B.S., Bucknell University

ALEXANDER JAMES KEENAN ..... Hillsborough, NJ  
B.A., University of Delaware

JEREMY W. MANN ..... Crosswicks, NJ  
B.A., Arizona State University

STEPHEN J. SNIDER ..... Ringoes, NJ  
B.S., Florida International University

MARK THOMAS WOLFE ..... Parsippany, NJ  
B.S., Boston University



## President's Award — M. Fredric Rieders, Ph.D. '85

M. Fredric Rieders, Ph.D. is Vice Chairman of the Board, Corporate Treasurer, Assistant Lab Director and a Forensic Scientist at NMS Labs in Willow Grove, PA, an internationally accredited private, independent clinical toxicology and forensic science laboratory that performs DNA, serology, toxicology, drug chemistry, and expert testimony for the global criminal and civil justice system. NMS Labs is the leading provider of innovative, diagnostic toxicology and other specialty clinical lab services to the US National Reference Lab Network. Dr. Rieders is a CLIA licensed Laboratory Director in Pennsylvania and New York.



Dr. Rieders is a Fellow of The American Academy of Forensic Sciences, a member of the Society of Forensic Toxicologists, The International Association of Forensic Toxicologists, the World Association of Medical Law, the American Association of Clinical Chemistry, and an Affiliate Member of The National Association of Medical Examiners where he serves on their Foundation Board. He served on Pennsylvania's Commission on Wrongful Convictions where he worked with the Forensic Science Subcommittee on recommendations to improve the forensic science investigation system. Rieders served as the Chief Forensic Archeotoxicologist on the Confederate Submarine Hunley crew excavation and analysis team in Charleston, SC. Dr. Rieders has qualified as an Expert in Forensic Toxicology and testified in numerous criminal, civil and arbitration proceedings.

Dr. Rieders earned a B.A. in Chemistry from Arcadia University in 1980 and a PhD in Pharmacology/Toxicology from Thomas Jefferson University in 1985 where he was active as volunteer faculty and lectured in Toxicology for over a decade. He is past President of the Jefferson College of Graduate Studies Alumni Association where he was honored as Distinguished Alumnus. He is active in promoting Jefferson's academic mission through his families' financial support of the Hamilton Building, Graduate Student Lounge, Fredric Rieders Scholarship, Distinguished Graduate Award and Faculty Prize.

Rieders served as a Term Trustee on the Arcadia University Board, and as a volunteer faculty member serving as a course director and lecturer in Toxicology at Arcadia's Masters of Forensic Science Program since 2004. He serves on the Board of Directors for the National Forensic Science Technology Center (NFSTC) in Largo, Florida; the Advisory Board for the Cyril H. Wecht Institute of Forensic Science and Law at Duquesne University School of Law; Chairman of the Board of Advisors and Fellows at The Henry C. Lee Institute of Forensic Sciences at New Haven University in West Haven, Connecticut; and is Chairman of the Foundation Board of Trustees of the Fredric Rieders Family Renaissance Foundation and Chief Scientific Officer for the Forensics Mentors Institute in Willow Grove, PA. Fredric is a Board member of The Vidocq Society, the premier US cold murder case investigations organization which examines cases and assist law enforcement agencies in identifying leads that may help solve homicides. He was awarded the H E Filing, MD Medal for Lifetime Achievement by The Vidocq Society in 2013.

Dr. Rieders was an editor of the Pennsylvania Academy of Sciences publication *Science Technology and National Security*, wrote a chapter in *Forensic Aspects of Chemical Terrorism* and recently published an article on his work with NASA: "Management of a Potentially Toxic Accidental Trialkylamine Ingestion during Spaceflight" in *Aviation, Space and Environmental Medicine*.

Rieders is currently working as Executive Producer on a film about Salvador Dali and the use of DNA in art fraud investigations. He was featured as a Forensic Science Investigator in the BBC film "How Sherlock Holmes Changed the World of Forensic Science" and Smithsonian Channel's "Forensic Firsts: Proving Poison". He is a frequent guest speaker and presenter at numerous conferences and seminars.

Dr. Rieders was Knighted by the Royal House of Portugal and was awarded the Medal of Merit from the Military Order of St. Michael of the Wing; on May 1, 2015 he was honored by The Royal House of Portugal with the Vila Vicosa Medal of Merit and inducted into the Royal Honor Guard.

## Doctor of Science — Esther Dyson, Sc.D., F.A.S.H.P.

Esther Dyson, Sc.D. (hon.), F.A.S.H.P., is the founder of the Health Initiative Coordinating Council (HICcup), an established non-profit since 2013 that encourages a rethinking of how we produce health. HICcup, under the direction of Ms. Dyson, is undergoing The Way to Wellville Project – a national challenge among five communities over five years to make significant, visible and lasting improvement in five measures of health and economic vitality.



Ms. Dyson is the author of the best-selling book, *Release 2.0: A Design for Living in the Digital Age* (Broadway Books, 1996), a novel on how the Internet affects individuals' lives. She is an active member of a number of non-profit and advisory organizations including the Long Now Foundation, the Sunlight Foundation and the Personal Genome Project. In 2004, she served as the founding chairman of ICANN, the Internet Corporation for Assigned Names and Numbers.

Devoted to angel investing, Ms. Dyson sits on the boards and continues to invest in various health and technology start-ups such as Applied Proteomics, Genomera, HealthEngage, Health Loop, Organized Wisdom and PatientsLikeMe. She has spent the last two years furthering her education not just in nutrition and diabetes management, but also on school food procurement, "non-emergent transportation" and Jail-Acquired Insolvency – the justice system's response to health care's hospital-acquired infection.

Ms. Dyson received her Bachelor's Degree in Economics from Harvard University in 1974. Her passion for continuous learning evolved from her first job as a fact-checker for *Forbes Magazine*. She then spent the next five years on Wall Street as a Securities Analyst for various, renowned corporations such as Apple Computer and Federal Express. She composed and edited *Release 1.0*, a monthly analysis of the PC and Internet business, and ran the yearly PC Forum, the industry's leading executive conference as head of her own company, EDventure Holdings, until 2004.



## Doctor of Science — Ignazio R. Marino, M.D.

Ignazio Roberto Marino, M.D., Sc.D. (hon.), F.A.S.H.P., is the current mayor of Rome, Italy, a position he has held since 2013. Appointed by the Government of Italy, he is one of five board members of the first National Center for Transplantation of the Italian Republic. Dr. Marino was also appointed by Pope John Paul II as an international expert to advise the ethics committee, known as the Pontifical Academy for Life.

Formerly, Dr. Marino was the Director of the Division of Liver Transplantation and Hepatobiliary Surgery, as well as the Director of the Division of Transplantation at Thomas Jefferson University Hospitals. Dr. Marino also held multiple faculty and director positions throughout medical centers and universities across Pittsburgh, Pennsylvania and Palermo, Italy.

After graduating summa cum laude in Medicine and Surgery from the Catholic University of Rome, he became board certified in General and Vascular Surgery, spending four years training in the Transplantation Institute of the University of Cambridge and the Pittsburgh Transplant Institute.

Honorably, Dr. Marino was part of the team in Pittsburgh that developed the clinical use of FK506, now known as Tacrolimus. This revolutionary drug has practically replaced any other immunosuppressant used worldwide in liver transplantation. He also participated in the first stomach, liver, pancreas and intestine transplantation on a human being in the history of medicine.

As a surgical team member, Dr. Marino performed the only two baboon-to-human liver xenotransplants in medical history. He also led the analysis of the largest clinical series of liver transplants ever reported, identifying ten different variables associated with transplant outcomes.

Dr. Marino has authored eleven books and more than 700 publications in the most renowned scientific journals dedicated to surgery and transplantation. He serves on the editorial boards of over ten publications, is a member of 31 scientific societies, three of which he is a founding member, and has been awarded over 120 prizes and recognitions of his work.



## Sidney Kimmel

Sidney Kimmel was born and raised in Philadelphia, and the philanthropic footprint he has created here evidences an unparalleled devotion to his hometown. From his very humble roots, first in South then West Philadelphia, Mr. Kimmel went on to found the Jones Apparel Group, developing it into a New York Stock Exchange company and one of the world's leading designers and marketers of branded apparel, footwear and accessories. His first job in the garment industry was as an inventory clerk and later a traveling salesman for a women's-wear manufacturer. From there, he joined the iconic clothing company Villager, rising through the ranks to become its president and CEO. In 1970, Mr. Kimmel established his own clothing line, Jones New York, targeting young career women and, during the 70s and 80s, became one of the major players in the women's apparel industry. Jones went public in 1991, adding many notable brands to its line, including Anne Klein, Nine West, Gloria Vanderbilt and Stuart Weitzman, among others; Jones also owned Barneys New York. In April, 2014, The Jones Group was sold for \$2.2 billion.



As early as 2002, Business Week recognized that Mr. Kimmel had already given more than half of his fortune to philanthropic works and had committed to giving the balance of his estate to further those efforts, a distinction that put him among a very select group of the nation's wealthiest. In 2010, he readily signed the Giving Pledge, the Warren Buffett and Bill Gates initiative encouraging America's billionaires to contribute half of their wealth to charitable endeavors.

Of the \$850 million-plus that Mr. Kimmel has given away, more than \$550 million has gone to cancer research. He established the Kimmel Scholars Program, which funds young, innovative cancer scientists with their earliest grants to stimulate their research and advance their careers. With 262 award recipients to date, the Program has launched the next generation of the nation's leading cancer researchers. Major gifts also subsidized cancer research and care at the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, the Sidney Kimmel Center for Prostate and Urologic Cancers at Memorial Sloan Kettering, research programs championed by the Stand Up To Cancer effort, and much more.

Mr. Kimmel has also made substantial gifts to organizations promoting the arts, education, health sciences and Jewish continuity. In Philadelphia, his philanthropic leadership established the Kimmel Center for the Performing Arts, and he provided endowment gifts to the Jewish Federation of Greater Philadelphia and the Raymond and Ruth Perelman Jewish Day School. The Kimmel Theater in the National Constitution Center is named in his honor, and he is also lead donor to the National Museum of American Jewish History.

Mr. Kimmel has been an extremely generous benefactor to Jefferson, providing cornerstone funding to establish the Sidney Kimmel Cancer Center as well as transformational support for research into the prevention of cardiovascular disease. His most recent forward-thinking gift—the largest in Jefferson's history—to name the Sidney Kimmel Medical College demonstrates Mr. Kimmel's appreciation of Jefferson's 190-year tradition of medical excellence and his confidence in Jefferson's path-breaking leadership in the future of healthcare.

Recognizing the fundamental importance of medical education and the impact of additional philanthropy, a significant portion of this landmark gift was set aside to establish the Kimmel Matching Program. This unique opportunity will provide a match for donors who establish new endowed scholarships and professorships. The Kimmel Matching Program already has inspired other philanthropists to give generously in support of medical education. During this academic year, seven new endowed scholarships have been created with help from the program, which has provided \$1.2 million in match funding.

Mr. Kimmel and his wife, Caroline, reside in California and New York.



## Awards and Prizes

Awarded at Class Day Exercises on Wednesday, May 27, 2015

### Faculty Awards

*Dean's Award for Distinguished Teaching.*

KATHERINE LACKRITZ, M.D., *Clinical Instructor of Obstetrics and Gynecology, Director, Medical Student Education, Sidney Kimmel Medical College at Thomas Jefferson University*

*Blockley-Osler/Dean's Teaching Award for Excellence in Teaching.* Given to a faculty member of an Affiliated Hospital.

LANNY EDELSON, M.D., F.A.A.N., *Clinical Professor of Neurology, and Neurology Teaching Coordinator, Christiana Care Health System*

*The Leon A. Peris Memorial Award.* Given to a member of the volunteer faculty for excellence in clinical teaching and superior patient care.

GINA MARIE AMOROSO, D.O., *Clinical Professor of Pediatrics, Sidney Kimmel Medical College at Thomas Jefferson University*

*The Leonard Tow Humanism in Medicine Award presented by The Arnold P. Gold Foundation.* Given to an outstanding faculty member demonstrating exemplary compassion in doctor/patient relations.

STEVEN K. HERRINE, M.D., *Professor of Medicine, Division of Gastroenterology and Hepatology, Sidney Kimmel Medical College at Thomas Jefferson University*

*The James B. Erdmann Award for Excellence in Interprofessional Education is given to a Sidney Kimmel Medical College faculty member.* Thomas Jefferson University Interprofessional Education Award is given to a faculty member who demonstrates excellence in interprofessional education and whose efforts have impacted collaboration among all colleges to the benefit of students.

BROOK SALZMAN, M.D., *Associate Professor, Department of Family & Community Medicine, Thomas Jefferson University (honorable mention: ALAN FORSTATER, M.D., Assistant Professor, Department of Emergency Medicine, Sidney Kimmel Medical College at Thomas Jefferson University)*

*The James B. Erdmann Award for Excellence in Interprofessional Practice* is given to a faculty or staff member of Thomas Jefferson University or Thomas Jefferson University Hospital. Jefferson Interprofessional Practice Award is given to a practitioner/clinician who demonstrates excellence in interprofessional practice and whose leadership efforts have promoted interprofessional practice among colleagues, staff, students and patients.

DANIELLE SNYDERMAN, M.D., *Assistant Professor, Department of Family & Community Medicine, Sidney Kimmel Medical College at Thomas Jefferson University*

### Awards to Graduating Students

*The E. Harold Hinman Memorial Prize.* Awarded for extraordinary interest and accomplishment in family medicine. Sponsored by family and friends in memory of E. Harold Hinman, Ph.D., M.D., M.P.H., Professor Emeritus of Preventive Medicine.

MARIANA KUPERMAN (honorable mention: CHRISTINE CHANG)

*The Michael Grasso, M.D. Prize in Urology.* Given to a Sidney Kimmel Medical College student at Thomas Jefferson University who has been recognized by the staff of Urology for accomplishing in their four years of medical education clinical and/or basic science research which has added positively to our understanding and treatment of urologic disorders.

MAY JEAN COUNSILMAN

*The Carroll R. Mullen Memorial Prize in Ophthalmology.* Given to the senior who has displayed outstanding aptitude and excellence in ophthalmology.

PHOEBE MELLEN (honorable mention: SPENSER MORTON AND RYAN SMITH)

*The Sarah G. Miller Obstetrics and Gynecology Prize.* Given to a senior who has demonstrated excellence in obstetrics and gynecology during the entire curriculum. Sponsored by Mrs. Sarah George Miller in memory of John B. Montgomery, M.D., Professor Emeritus of Obstetrics.

KATHERINE FRITTON

*The Baldwin L. Keyes Prize in Psychiatry.* Given by Mr. Joseph H. Levit in memory of his wife Mae K. Levit, in honor of Baldwin L. Keyes, M.D., Sc.D., Professor Emeritus of Psychiatry.

SOPHIE FELLER

*The Harold L. Stewart, M.D. '26 Prize in Pathology.* Awarded to the academically excellent student who has completed a pathology research project.

DANIELLE HUTCHINGS

*The Leopold Z. Goldstein, M.D. Memorial Prize in Obstetrics and Gynecology.* Awarded to the student with the highest grade point average in obstetrics and gynecology. In memory of Leopold Z. Goldstein, M.D. sponsored by his daughters.

EMILY CHESTON (honorable mention: AUREN CAMPBELL)

*The Norman F. Sokoloff, M.D. Award, for excellence in clinical and diagnostic skills.* Sponsored by family and friends in memory of Norman F. Sokoloff, M.D., a proud graduate of the Class of 1969.

CAITLIN MINGEY and JOVAN PLAMENAC

*The Burton L. Wellenbach, M.D. – JMC Class of 1944 Award for Excellence in Obstetrics and Gynecology and Medical Ethics.* Awarded to the graduating senior who demonstrates excellence in obstetrics and gynecology and medical ethics as exemplified by Dr. Burton L. Wellenbach's 50 years of practice and dedication to the medical college at Thomas Jefferson University and medicine.

JULIANA GUARENTE

*The Philip J. Hodes Prize in Radiology.* To the fourth-year Sidney Kimmel Medical College student displaying outstanding aptitude and interest in radiology.

JUSTIN RODRIGUEZ

*The William C. Davis, Class of 1977 Prize in Emergency Medicine.* Given to a senior who will pursue a career in emergency medicine. Sponsored by Mrs. Charlotte Davis in memory of her son, William C. Davis, M.D., an alumnus of Jefferson Medical College, now named Sidney Kimmel Medical College.

MEGAN CLARY (honorable mention: JUSTIN STEINBERG)



*The Joseph F. Rodgers, M.D. Memorial Award.* Given to a fourth-year medical student who has exhibited excellence in the discipline of internal medicine, especially diagnostic skills and a devotion to their patients.

ANITA MODI (honorable mention: CHRISTOPHER BARRETT)

*The Arnold R. Weitz Memorial Prize in Hematology.* Awarded to a senior Sidney Kimmel Medical College student for outstanding aptitude and interest in hematology. Sponsored by family and friends in memory of Arnold R. Weitz, M.D.

EVAN SMITH (honorable mention: DANIELLE SEIDEN)

*The William F. Kellow Prize.* Awarded to the student who most closely exemplifies the attributes of the ideal physician. Sponsored by family and friends in memory of William F. Kellow, M.D., Dean and Vice President of Jefferson Medical College from 1967 to 1981.

KATHERINE FRITTON

*The Francis Torrens Stewart, M.D. Clinical Surgery Prize, for general excellence in clinical surgery.* In memory of Francis Torrens Stewart, M.D., Professor of Clinical Surgery, 1910-1920.

NAOMI SELL (honorable mention: ALEXANDER CHALPHIN)

*The Philip P. Ripepi, M.D. Prize in General Surgery.* Awarded to a senior medical student pursuing a career in general surgery, who is deemed most worthy by the Sidney Kimmel Medical College surgical faculty. It is named for Philip P. Ripepi, M.D., esteemed educator, surgical innovator, nationally recognized oncology surgeon, and former Chairman of the Department of Surgery at Mercy Hospital of Pittsburgh.

GEOFFREY KOZAK (honorable mention: JOYCE JHANG)

*The Edward J. Moore Memorial Prize in Pediatrics.* Given to the student demonstrating the greatest aptitude in pediatrics. In memory of Edward J. Moore, M.D.

ESTHER JEONG (honorable mention: BRADLEY ALBERTSON)

*The S. MacCuen Smith Memorial Prize in Otolaryngology.* Given to the most able senior in the field of otology. Sponsored by Mrs. Stuart Lodge Bullivant in memory of her father.

LAUREN GALINAT

*The Arthur Krieger Memorial Prize in Family Medicine for excellence in family medicine.* Sponsored by family and friends in memory of Arthur Krieger, M.D.

ROMA AMIN (honorable mention: JONATHAN YADLOSKY)

*The Arthur Krieger Memorial Prize in Neurology.* Awarded for excellence in neurology. Sponsored by family and friends in memory of Arthur Krieger, M.D.

SHAILEE SHAH (honorable mention: JON MARC FINAMORE)

*The Hubert Spencer Sear, M.D. Memorial Award.* Awarded to an outstanding fourth-year student in radiology. Sponsored by family and friends in memory of Hubert Spencer Sear, M.D., Class of 1950.

DANIELLE TOUSSIE (honorable mention: ANKIT GANDHI)

*The Alexander and Lottie Katzman Award in Gastroenterology.* Awarded to the most proficient student in gastroenterology as judged by the faculty. Sponsored by Joseph Medoff, M.D., and Mrs. Medoff in memory of Mrs. Medoff's parents.

DREW JOHNSON (honorable mention: JAYA MEHTA)

*The Philip and Bella Medoff Memorial Prize, for excellence in internal medicine and outstanding contributions to the Hobart Amory Hare Medical Honor Society.* Given to a senior who is a member of the Society and who is recommended by the Magee Professor of Medicine and the faculty advisor of the Society. Sponsored by Joseph Medoff, M.D., Mrs. Medoff, and children.

SHANA RAKOWSKY (honorable mention: DREW KOTLER)

*The William T. and Madeline Lemmon Memorial Prize in Anesthesiology for clinical work or writing in the field of anesthesiology.* Awarded from an endowment established by family members in memory of William T. Lemmon, Sr., M.D.

SAMANTHA BRACKETT

*The Annie Simpson General Medicine Prize.* Awarded to the medical student who received the best general average in general medicine.

JANE BABIARZ (honorable mention: ELIJAH GRILLO)

*The Annie Simpson Pulmonary Medicine Prize.* Awarded to the medical student who received the best general average in pulmonary medicine.

GREGORY SNYDER (honorable mention: DIEDRE AXELL-HOUSE)

*The William Potter Memorial Prize in Clinical Medicine.* Awarded to the graduating student with the best performance in clinical medicine, from a bequest of Mrs. Adaline Potter Wear.

PHOEBE MELLEN

*The Hyman Menduke Research Prize.* Awarded to the graduating senior who, as determined by the Committee on Research of the faculty, has demonstrated excellence in research while a student at Sidney Kimmel Medical College at Thomas Jefferson University. Sponsored by Michael LeWitt, M.D., Class of 1974.

PHOEBE MELLEN for the MD program

DAVID RITTER for the MD/PhD program

*The Jefferson Volunteer Faculty Association Prize.* Given by the Sidney Kimmel Medical College Volunteer Faculty Association to a fourth-year medical student for excellence in clinically oriented research.

HEATHER MCMAHON

*The Drs. Donald R. and Henry Pohl Prize for Professionalism.* Awarded to the senior Sidney Kimmel Medical College student who exemplifies the ideals of professionalism.

GREGORY SNYDER (honorable mention: PHOEBE MELLEN and PHILICIA MOONSAMY)

*The Dean's Student Service Award.* Awarded to the fourth-year student who has given generously of time and talents for the service of classmates and Sidney Kimmel Medical College as selected by the Dean.

ROMA AMIN

*The Alfred I. duPont Hospital for Children Prize.* Awarded to the student whose performance best demonstrates the qualities of academic and clinical excellence, human compassion, and a commitment to the welfare of others as was exemplified by the life and trust of Alfred I. duPont.

KANIKA GUPTA

*The Leonard Tow Humanism in Medicine Award presented by The Arnold P. Gold Foundation.* Given to an outstanding student demonstrating exemplary compassion in doctor/patient relations.

ROMA AMIN



*The Frans J. Vossenber, M.D., Memorial Prize in Internal Medicine.* Awarded to a graduating senior member of the Alpha Omega Alpha Honor Society who has chosen to pursue a career in the field of Internal Medicine and has demonstrated excellence in diagnostic skills and patient compassion as exemplified by the life of Frans J. Vossenber, M.D., Class of 1950.

DAVID REILLY

*The J. Woodrow Savacool, M.D., Prize in Medical Ethics.* Awarded to the senior medical student who embodies the ideal of the physician's caring commitment to moral and ethical values in medicine. Sponsored by a committee of friends and colleagues in memory of J. Woodrow Savacool, M.D., an alumnus and Honorary Clinical Associate Professor of Medicine, Sidney Kimmel Medical College.

NOAH BOBULTZ (honorable mention: MEGHAN SCHLITT)

*The Philip J. Wolfson, M.D., Memorial Prize for Leadership.* Awarded to the senior who has served as a role model for effective leadership and professional behavior through the four years of medical school. Sponsored by the family, colleagues, and friends of Philip J. Wolfson, M.D.

LEAH WINER (honorable mention: JENNIFER BAKER)

*The Irving J. Olshin, M.D., Memorial Prize in Pediatrics.* Awarded to the graduating senior who best combines scholarship, integrity, and an engagement in human character and ethics with their study of medicine, as exemplified by Dr. Irving J. Olshin's forty-five years of practice and dedication to the medical college and the Department of Pediatrics.

JOSHUA EISENBERG

*The Jennifer Reed Bakker, M.D., Class of 2001 Memorial Prize.* Awarded to the graduating senior who best displays compassion for the sick, a true sense of humanity, and meticulous regard for human dignity.

JOHN CHAVES

*The Catherine Liu, M.D. Memorial Prize in Obstetrics and Gynecology.* Awarded to a fourth-year medical student who plans to pursue a career in Ob/Gyn. This student should demonstrate academic excellence and a commitment to women's health

STEPHANIE RAND

*The Maria Werner-Wasik, MD Award for Excellence in Radiation Oncology.* Awarded to a fourth-year medical student who choose to participate in the third-year selective rotation and who demonstrated the necessary qualities to develop as a leader in academic radiation oncology.

MARK ASHAMALLA

*The Dr. Thomas D. Griffin and Patricia C. Griffin Award in Dermatology is in honor of Dr. Jouni Uitto, Chairman of the Department of Dermatology.* Given to a graduating senior showing outstanding motivation and interest in the care of the skin.

NICHOLAS ROSS

## The University Mace

Originally a medieval weapon, the mace evolved from a short staff weighted with metal (used for breaking armor) into a bejeweled and sculptural relic. In one of the earliest ceremonial uses of the mace, it was carried by the royal bodyguard before the French king in the 1200s. It fell into disuse by the 16th century as firearms made protective armor and some hand-to-hand combat weapons obsolete. Examples of the mace as a symbol of authority in modern government include its use in the British House of Commons where the ceremonial mace has a presence on the Treasury table, and in the U.S. House of Representatives, where it is placed on a pedestal to the right of the Speaker's podium when the House is convened. Universities also used the ceremonial mace, borne by the chief marshal, during academic processions.

The Thomas Jefferson University Mace, carried for the first time in the 1986 commencement ceremonies by Grand Marshal Robert Mandle, Ph.D., was designed and cast by Howard Serlick, member of the Guild of Mastercraftsmen, Winterthur Scholar and Chief Conservator (Gilding) of the Historical Society of Pennsylvania. It was crafted by silversmith Eugene Zweigle and woodturner Michael Copeland.

The four-foot-long, 14-pound mace is made of ebony highlighted with lapis lazuli to reflect Jefferson's colors (black and blue). It features a miniature of Henry Mitchell's sculpture, the "Winged Ox of Saint Luke," symbol of Saint Luke the Physician, the original of which stands on campus beside the Scott Building on Walnut Street. The miniature was cast in silver by Zweigle.

Mitchell's original statue of the "Winged Ox," adopted by the University in 1976 as its symbol of clinical excellence, is mounted on a column containing the names of 50 medical scientists who have most advanced the art of healing. It also reflects the historical evolution of Thomas Jefferson University from its beginnings as Jefferson Medical College in 1824 to its current status as an academic institution comprising the Sidney Kimmel Medical College, the Jefferson Graduate School of Biomedical Sciences, the Jefferson School of Health Professions, the Jefferson School of Nursing, the Jefferson School of Pharmacy and the Jefferson School of Population Health.

The mace, a grand emblem of the University's heritage, is carried at the head of all formal academic processions.

## Presidential Medallion of Thomas Jefferson University

The President's Medallion was created in 2009 during the tenure of Robert L. Barchi, M.D., Ph.D., the fourth President of Thomas Jefferson University. It replaced the previous, well-worn President's Medallion made in 1977, which had depicted four old corporate seals used in various eras of the institution's history.

The current medallion was designed and crafted by Tiffany & Company, New York. It consists of a sterling silver medallion suspended from a heavy, silver double-link chain. The medallion's obverse depicts the University seal, a bas-relief profile of Thomas Jefferson, and the surround reads, "THOMAS JEFFERSON UNIVERSITY - 1824," the year the institution was founded. The reverse is engraved with the names of the four University Presidents.

Silver is a metal long-associated with medicine and is recognized to have antibacterial properties. Hippocrates (ca. 300 BCE) acknowledged the healing powers of silver and the ancients used silver bottles to keep water or wine from spoiling. The expression "born with a silver spoon in your mouth" comes from the Middle Ages when the wealthy gave their children silver spoons to suck on to prevent disease.

Like many academic traditions, the display of a heavy "chain of office" comes down to us from medieval regalia and represents the weight of responsibility for the wearer. The chain itself connotes strength in unity, as well as strong communication.

The Presidential Medallion is worn by the President at all convocations of the University.



## The Jefferson Processional

The Jefferson Processional was commissioned by the Alumni Association of Jefferson Medical College, now named the Sidney Kimmel Medical College, and played for the first time on November 15, 1974, at the Sesquicentennial Celebration of the Sidney Kimmel Medical College at Thomas Jefferson University. This piece was presented to Thomas Jefferson University by the President of the Alumni Association, John J. Gartland, M.D. It was composed by Burle Marx.

### Academic Regalia

The attire worn at academic ceremonies evolved from the dress worn by clergy in the 12th and 13th centuries. In 1222, the Archbishop of Canterbury, Stephen Langston, decreed that a closed, flowing gown known as the cappa clausa be worn by all clerics within his jurisdiction. Because Oxford and Cambridge were within the provinces of Canterbury, the clerks at both institutions adopted this style of attire. Hoods seem to have served to cover the tonsured head until superseded for that purpose by the skull cap.

Throughout the years European universities have continued to show great diversity in their academic dress. American universities, on the other hand, when they decided to adopt academic dress in 1895, immediately established a code of regulations which today is followed by practically all American institutions. The establishment of this code has made it possible to distinguish the associate's, bachelor's, master's and doctoral degrees and, at the same time, recognize the university which has conferred the degree.

The associate in arts and bachelor's gowns have pointed sleeves and are worn closed. The master's gown has oblong sleeves, open at the wrist. The rear part of its oblong shape is square cut and the front part has an arc cut away, and is worn open or closed. The doctor's gown has bell-shaped sleeves. It is worn open or closed. The majority of gowns are black, but a number of institutions have adopted other colors to identify special programs or groups within that institution.

The hoods vary in length: 48 inches for the doctoral degree, 42 inches for the master's and 36 inches for the bachelor's and associate's. All hoods are lined in silk in the academic color or colors of the institution conferring the degree. If the institution has more than one color, the colors are shown in divisions using chevrons. The binding or edge of the doctoral, master's and bachelor's hoods is usually made of velvet in the color designating the subject in which the degree was granted. The associate's hood does not have a velvet border. The outside is black.

Black mortarboards are most commonly worn; four-sided and six-sided tams of various colors are also used.

Some of the colors in the bindings of the hoods are:

<i>White</i>	Arts and Letters	<i>Green</i>	Medicine
<i>Tan</i>	Business	<i>Apricot</i>	Nursing
<i>Lilac</i>	Dentistry	<i>Olive Drab</i>	Pharmacy
<i>Light Blue</i>	Education	<i>Dark Blue</i>	Philosophy
<i>Purple</i>	Law	<i>Salmon Pink</i>	Public Health
		<i>Golden Yellow</i>	Science



