May 26, 2017

Dear Graduates,

On this occasion of the Forty-sixth Commencement Exercises of The University of Toledo College of Medicine and Life Sciences, I am proud to honor you for your exceptional effort and achievements. Many of you I have come to know personally; in the classroom, in the hospital, on a Dean’s run or in a remote clinic in Honduras. In all of these experiences, I’ve come to appreciate and be proud of your talents and dedication. I also want to welcome your family, friends, and others who supported you throughout your education at The University of Toledo. I also want to take this opportunity to recognize the faculty and staff who, consistent with the mission of the university and the college, worked tirelessly with you to improve the health of our communities and region and have worked with you to help develop your talents and knowledge in research and clinical care.

I join with the Board of Trustees and the faculty and alumni of this great college and university in welcoming you into the alumni from The University of Toledo College of Medicine and Life Sciences. You will always be linked to this college and institution and we to you. I call upon each of you graduating today to remain involved in the growth and progress of our college. Including today’s graduating class of 200 students, over 8,000 alumni of The University of Toledo College of Medicine and Life Sciences have moved forward from their graduation day to meet the needs of society through their life’s work as physicians, scientists, physician assistants, and professionals in global health, human donation sciences, and other health care disciplines.

To the Class of 2017, I wish you the very best as you go out to conquer society’s challenges and become a part of the rich tradition that has set the pace for the future of The University of Toledo College of Medicine and Life Sciences.

Sincerely,

Christopher Cooper, M.D.
Executive Vice President for Clinical Affairs
Dean of the College of Medicine and Life Sciences
Professor, Department of Medicine
The Medical College of Ohio at Toledo (MCO) was established by action of the Ohio General Assembly on December 18, 1964; last year marked the 50th anniversary of the establishment. Originally called the Toledo State College of Medicine until it was re-named MCO in 1967, the new medical school was the culmination of several feasibility studies commissioned at the local, state, and national levels to address a growing physician workforce shortage. The institution's nine-member Board of Trustees, named by Governor James Rhodes, held its first meeting in January 1965. In April 1966, the Board named Glidden L. Brooks, M.D. associate vice president and director of the Institute of Health Sciences at Brown University, as the college's first president. Robert G. Page, M.D., was hired as the first dean of the School of Medicine, joining MCO in September 1968 from the University of Chicago.

When the first class of 32 medical students began studies on September 11, 1969, MCO was the fourth medical school in Ohio and the 100th in the nation. The campus was located on the corner of South Detroit and Arlington Avenues, along with the former Maumee Valley Hospital, the current site of the Area Office on Aging. The first class of medical students graduated on June 2, 1972.

The MCO master plan, developed by Minoru Yamasaki and Associates, the architect who designed the twin towers of the World Trade Center, called for college development on 346 acres of land between Arlington and Glendale Avenues acquired from the Ohio Department of Mental Hygiene and Corrections. Designed by Yamasaki, construction of the first building on the new campus, the Health Science Building, began in late 1970 and was completed in 1973. In 1995, the building was named after Paul Block Jr., one of MCO's founding fathers, who was the first chairman of the institution's Board of Trustees.

MCO's second president, Marion C. Anderson, M.D., served from 1972 to 1977. During Dr. Anderson's administration, the first three buildings on the new campus were completed - the Paul Block Jr. Health Science Building, the Raymon Mulford Library and the Health Education Building. John P. Kemph, M.D. was named the second dean of the College of Medicine and vice president for academic affairs in September 1974, serving until his retirement in August 1985. The Ohio Board of Regents approved the creation of the Graduate School in 1975. Liberato J. A. DiDio, M.D., Ph.D., D.Sc., the first faculty member hired at MCO and the first chairman of the Department of Anatomy, also served as the first dean of the Graduate School.

Richard D. Ruppert, M.D., MCO's third president, held office from 1977 until his retirement in 1993. Under Dr. Ruppert, MCO expanded clinical services and patient care, increased biomedical research activities, expanded academic offerings, and completed the campus master plan that was approved by the college's first board of trustees. This included completion of the MCO Hospital, the Lenore W. and Marvin S. Kobacker Center, and the Richard D. Ruppert Health Center. These clinical sites are now collectively known as The University of Toledo Medical Center. In addition, construction of the Ida Marie Dowling Hall, the Eleanor N. Dana Conference Center, the Toledo Hilton Hotel and the Dorothy and Ashel Bryan Academic Commons were completed. In 1986, Dr. Ruppert and the Board of Trustees appointed Frank Standaert, M.D., Ph.D., the third dean of the College of Medicine and vice president for academic affairs. Peter J. Goldblatt, M.D., was appointed the second dean of the Graduate School in 1986, and was succeeded by Keith K. Schlender, Ph.D., in 1990.

Richard F. Leighton, M.D., professor and chief of the Division of Cardiology in the Department of Medicine, was named the fourth dean of the College of Medicine and vice president for academic affairs in 1990. During his six-year tenure he helped forge agreements with area health care institutions to serve as clinical training sites for students and residents. He was also instrumental in negotiating the cooperative registration agreement that allowed the exchange of graduate students between MCO, the University of Toledo, and Bowling Green State University, including the Master of Public Health (MPH) program, the first graduate program in Ohio involving three state institutions, which was approved by the Ohio Board of Regents in 1997.

Roger C. Bone, M.D., the college’s fourth president, held office for three years, beginning in 1993. During his tenure, he set into motion a series of initiatives that were aimed at preparing the college and its hospitals for the major changes occurring in health education and health care.
MCO’s fifth president, Frank S. McCullough, M.D., and Amira F. Gohara, M.D., the College of Medicine’s fifth dean and executive vice president/provost, both took office in 1996. Under the leadership of Drs. McCullough and Gohara, a strategic vision for making MCO a nationally recognized leader in health education was adopted by the Board of Trustees. In the fall of 1996, the Collier Building opened, named for Howard L. Collier, who served as finance director for the state of Ohio under former Governor Rhodes and later as vice president of finance at MCO from 1972-1985. Major additions and renovations were also completed to the Mulford Library Building, Dowling Hall, and the Hospital; the $11 million Center for Creative Education opened in 2003 featuring the Center for Creative Instruction, the Academic Test Center, and the Ruth M. Hillebrand Clinical Skills Center. In 2002, Dr. Gohara took on the additional responsibilities of interim president when Dr. McCullough went on medical leave.

Lloyd A. Jacobs, M.D., was appointed the sixth president of MCO in November 2003. Prior to coming to Toledo, he was chief operating officer of the University of Michigan Health System and senior associate dean for clinical affairs at the University of Michigan Medical School. In June 2005, MCO was renamed the Medical University of Ohio (MUO) to reflect the institution’s growth. The following year, Ohio state legislators passed a historic bill that merged MUO with the University of Toledo (UT), which was acclaimed as perhaps the most significant event in higher education in Ohio in over 50 years. Dr. Jacobs was selected to lead the merged universities, becoming the sixteenth president of The University of Toledo on July 1, 2006. Under his leadership, Dr. Jacobs guided the University and its three campuses – the Main Campus, the Health Science Campus (former MUO) and the Scott Park Campus of Innovation and Energy – on a strategic path to become a thriving, student-centered, community-engaged, comprehensive research university known for its strong liberal arts core and multiple nationally ranked professional colleges, and distinguished by exceptional strength in science and technology.

In May 2005, Jeffrey P. Gold, M.D., became the sixth dean of the College of Medicine and executive vice president of the Medical College of Ohio. In 2010, he was named Chancellor and Executive Vice President for Biosciences and Health Affairs. During this time, numerous integrated centers on the Health Science Campus and the University of Toledo Medical Center opened including The George Isaac Minimally Invasive Surgery Center of Excellence, the Orthopaedic Center, the Heart & Vascular Center, The Joan and Julius H. Jacobson II Center for Clinical and Translational Research, the Lloyd A. Jacobs Interprofessional Immersive Simulation Center, the Frederic and Mary Wolfe Center, the Eleanor N. Dana Cancer Center, and the Medical Pavilion and Gardner-McMaster Parkinson Center.

Following Dr. Gold’s nine-year tenure as dean, Christopher J. Cooper, M.D., professor and chairman of the Department of Medicine, became the seventh dean of the University of Toledo College of Medicine and Life Sciences and executive vice president for clinical affairs in August 2014. The following spring, the college announced a partnership with Toledo-based health system ProMedica. The partnership establishes a 50-year affiliation between the college and the health system that enriches the quality of medical education and expands clinical training capacity in Toledo. In July 2016, the first class of students and residents began training under the Academic Affiliation, utilizing new learning space, and filling clinical learning opportunities at ProMedica Toledo Hospital. University learners in pediatrics, surgery, internal medicine sub-specialties and emergency medicine are on-site at ProMedica Toledo Hospital for clerkships and residencies. By fostering new partnerships for academic excellence and expanded opportunities for clinical training and residency placement, UT is on a long-term mission to recruit top-performing students, educate them to be the best doctors, advanced practitioners and research scientists, and retain them in northwest Ohio as they build their careers.

Including today’s graduating class, The University of Toledo College of Medicine and Life Sciences has conferred approximately 5,266 doctor of medicine degrees, 474 doctor of philosophy in biomedical sciences degrees, 2,015 master’s degrees in biomedical sciences, public health, occupational health, physician assistant studies, nursing, and health professions, and 301 graduate certificates in pathology, contemporary gerontological practice, global public health, and health and medical education have been awarded. Today, The University of Toledo College of Medicine and Life Sciences has more than 360 full- and part-time faculty members and more than 1,300 community-based faculty members.
<table>
<thead>
<tr>
<th>Year</th>
<th>Honorary Degree Recipients</th>
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| 1972 | John Rusten Hogness, M.D.  
Robert Bruce Merrifield, Ph.D.  
Robert M. Zollinger, M.D. |
| 1973 | Robert A. Good, M.D., Ph.D.  
Irvine H. Page, M.D.  
Rubin H. Flocks, M.D. |
| 1974 | Britton Chance, Ph.D.  
John A. D. Cooper, M.D.  
At the Dedication of the Health Science Building  
Robert M. Berne, M.D.  
Charles Huggins, M.D.  
George Palade, M.D.  
Elizabeth S. Russell, Ph.D. |
| 1975 | Norman Kretchmer, M.D., Ph.D.  
Keith R. Porter, Ph.D.  
W. R. Willard, M.D. |
| 1976 | Alene B. Duerk  
A. M. Harvey, M.D.  
William A. Sodeman, Sr., M.D. |
| 1977 | D. Carleton Gajudsek, M.D.  
Sir Robert Macintosh, D.M.  
Lawrence E. Young, M.D. |
| 1978 | John P. Hubbard, M.D.  
Walter H. Seegers, Ph.D.  
Eugene A. Stead, Jr., M.D. |
| 1979 | Paul B. Beeson, M.D.  
Paul R. Gross, Ph.D.  
Frank F. A. Rawling, M.D. |
| 1980 | Michael E. DeBakey, M.D.  
Henry L. Morse  
Charles Rammelkamp, Jr., M.D.  
Walter F. Riker, Jr., M.D. |
| 1981 | Michael J. Damas  
Richard M. Krause  
Bernard Lachner, M.B.A.  
James V. Neel, M.D., Ph.D.  
Thomas L. Stern, M.D. |
| 1982 | Edward Vaughn Evarts, M.D.  
Loretta C. Ford, Ed.D., R.N.  
James A. Rhodes |
| 1983 | Frank J. Dixon, M.D.  
Charlotte Friend, Ph.D.  
Frederick C. Robbins, M.D. |
| 1984 | Harold F. Falls, M.D.  
F. Story Musgrave, M.D.  
James B. Wyngaarden, M.D. |
| 1985 | Maclyn McCarty, M.D.  
Edmund D. Pellegrino, M.D.  
Jonathan Evans Rhoads, M.D. |
| 1986 | George Libman Engel, M.D.  
Ruth L. Kirschstein, M.D.  
James V. Warren, M.D. |
| 1987 | Delbert Latta  
Lloyd H. Smith, M.D.  
Robert G. Petersdorf, M.D.  
T. Franklin Williams, M.D. |
| 1988 | Bernard B. Brodie, Ph.D.  
Ada Sue Hinshaw, Ph.D., R.N.  
Victor A. McKusick, M.D. |
| 1989 | Ann Landers  
Hans Neurath, Ph.D.  
Louis W. Sullivan, M.D.  
Danny Thomas |
| 1990 | Robert C. Gallo, M.D.  
Lewis L. Judd, M.D.  
Antonia Coello Novello, M.D., M.P.H.  
Arnold S. Relman, M.D. |
| 1991 | Elwood V. Jensen, M.D.  
Harold A. McMaster  
George W. Thorn, M.D.  
Rosalyn S. Yalow, Ph.D. |
| 1992 | James P. Comer, M.D.  
Bernadine P. Healy, M.D.  
David P. Rail, M.D., Ph.D.  
Ora L. Strickland, Ph.D., R.N. |
| 1993 | Edmond H. Fischer, Ph.D.  
John Glenn  
Edwin G. Krebs, M.D. |
| 1994 | Mary McKinney Edmonds, Ph.D., P.T.  
Willis C. Maddrey, M.D.  
Lucien E. Morris, M.D.  
Wilbur H. Sawyer, M.D., Ph.D. |
College of Medicine and Life Sciences
Honorary Degree Recipients

Degrees were conferred at College of Medicine Commencement except as otherwise noted.

1995
Stephen Abrahamson, Ph.D.
William F. Ganong, M.D.
George D. Lundberg, M.D.
Angela McBride, Ph.D., M.S.N., B.S.N.

1996
Ashel G. Bryan
J. Warren Perry, Ph.D.
Donald W. Seldin, M.D.

1997
Geraldene Felton, Ed.D., R.N.
Robert Furchgott, Ph.D.
William B. Kannel, M.D.

1998
John M. Fredrickson, M.D.
Jerome P. Kassirer, M.D.
George O. Ojemann, M.D.
Richard D. Ruppert, M.D.

1999
Dorothy Brooten, Ph.D., R.N.
George Isaac
Holmes Morton, M.D.

2000
Elsa L. Brown, Ph.D., R.N.
Richard F. Leighton, M.D.
Robert G. Page, M.D.

2001
John M. Howard, M.D.
Bernard Lown, M.D.
Beverly L. Malone, Ph.D., R.N.
David Satcher, M.D., Ph.D.

2002
Leah Curtin, M.A., M.S., R.N.
Jamie Farr
Claude Lenfant, M.D.

2003
Marcy Kaptur
Ara Parseghian
Robert W. Schrier, M.D.

2004
Daniel K. Inouye
Claude H. Organ, Jr., M.D.

2005
Allan Block
John Robinson Block
Patrick J. Mulrow, M.D.

2006
Tim Porter-O’Grady,
Ed.D., A.P.R.N.
Raymond R. Sackler,
Hon KBE, M.D.
Walter B. Shelley, M.D., Ph.D.

2007
Darrell G. Kirch, M.D.

2008
David C. Leach, M.D.

2009
Bruce Edward Keogh,
K.B.E., M.D.

2010
Herbert Pardes, M.D.
Kevin B. Weiss, M.D., M.P.H.

At December 2010
UT Commencement
Glenn Geelhoed, M.D., M.A.,
DTMH, Ph.D., M.P.H, FACS

At December 18, 2010
UT Commencement
James C. Stanley, M.D.

2011
Risa Lavizzo-Mourey,
M.D., M.B.A.

At the Health Science Campus
Research Day
Ferid Murad, M.D., Ph.D.

2012
Jo Ivey Boufford, M.D.
James M. Petro, J.D.

2013
Thomas J. Nasca, M.D., MACP

2014
James Madara, M.D.
Rob Portman, J.D.

2015
Yvette Roubideaux, M.D., M.P.H.

2016
Susan Y. Desjardins, M.A.
Commencement is a ceremony that is steeped in ecclesiastically-based tradition that dates to medieval times. These roots are most evident in the traditional garments worn by the faculty and students, which have evolved from the robes, caps, and hoods worn by the monks who founded Oxford University in the eleventh century and Cambridge University in the twelfth century.

In the United States, the academic regalia were first adopted as ceremonial attire for college officials in 1754 at the institution now known as Columbia University. In 1885, students in many of the country’s colleges and universities launched a movement to permit graduating candidates to wear robes and caps during commencement exercises. Today, every detail of the academic regalia has significance, including every color, style of hat, and cut of the sleeve of the academic gown. These details were standardized at a meeting in 1895 in New York City hosted by Columbia University for university officials from across the country. The group, named the Intercollegiate Commission, established and adopted the country’s first code of color and design for the academic garb. Today’s academic regalia reflect the modifications to the code accepted in 1960 and adopted by nearly 95% of the nation’s postsecondary institutions.

The Intercollegiate Commission standardized the black Oxford or mortarboard style cap that is worn for all degrees. Only the doctoral degree cap may be round and can be made of velvet. Only doctoral degree holders or presidents of institutions may wear a gold tassel on the cap. The color of the tassel generally represents the color of one’s academic discipline.

In the United States, the academic robe is most often black; some institutions, however, sanction the use of specific colors. The length of the robe, the width of the sleeves, and the cut of the gown identify the degree level achieved by the gown’s wearer. The bachelor’s degree gown is knee length, has pointed sleeves, and is worn closed. The master’s degree gown is calf length, has oblong-cut sleeves slit at the wrist, and is worn open or closed. The doctoral degree gown is ankle length, has bell-shaped sleeves usually crossed with bands of velvet, and is worn open or closed. In addition, the doctoral degree gown usually has velvet panels down the front. The velvet panels often reflect the color of the academic discipline, e.g., green for recipients of the doctor of medicine degree and royal blue for the doctor of philosophy degree.

The hood is considered the most important and distinctive feature of academic regalia in the American system. The length of the hood distinguishes the degree it represents - the longer the hood drapes in the back, the higher the degree. The color of the velvet binding of the hood identifies the specialized field of study. These colors include green for medicine, royal blue for philosophy, golden yellow for science, salmon for public health and occupational health, and golden yellow for physician assistant studies. The colors in the satin lining of the hood represent the institution granting the degree regardless of the discipline. Therefore, all hoods awarded today at commencement are lined in blue and gold representing the academic colors of The University of Toledo.

The academic regalia adds dignity and style to graduation, emphasizing tradition and the importance of past wisdom in the process of learning.

The above information was adapted from materials provided by Temple University, Defiance College, and American Universities and Colleges, 13th Edition.
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Graduate Programs
Professor, Department of Biochemistry and Cancer Biology

Kristi Williams, M.D.
Associate Dean for Graduate Medical Education
Professor, Department of Psychiatry

May 26, 2017
College of Medicine and Life Sciences Commencement

Presiding:
Christopher Cooper, M.D.

Processional
“Pomp and Circumstance,” Edward Elgar (1857 - 1934)

Performed by: Glass City Brass

Thaddeus Archer—Trumpet  Bill Mathis—Trombone
Ric Wolkins—Trumpet  Rob Stierman—Tuba
Tony Cleeton—French Horn

The Academic Procession
Grand Marshal .......................................................... Khaled Shahrour, M.D.
Chair, College of Medicine Council

Candidates for the degree of Doctor of Philosophy in Biomedical Sciences
Candidates for the degree of Master of Science in Biomedical Sciences
Candidate for the dual degrees of Doctor of Medicine and Doctor of Philosophy in Biomedical Sciences
Candidate for the dual degree of Doctor of Medicine and Master of Business Administration
Candidate for the degree of Doctor of Medicine and the Graduate Certificate in Pathology
Candidates for the degree of Doctor of Medicine
Alumni
College Faculty
Representatives of Colleges, Universities, Learned Societies, and Professional Organizations
Candidate for the Honorary Degree of Doctor of Science
Members of the Administration
Board of Trustees

Presentation of Colors
United States Army Recruitment Center, Toledo, Ohio

The Star Spangled Banner
Performed by: Docapella and Vocal Remedy

Kaitlyn Boggs  Kaitlyn Garcia  Luke Mugge
Alex Calderone  Sarah Jane Grady  Rachel Parker
Nicholas Capaldo  Amelia Heston  Deanna Pennewitt
Sara Crowell  Andrew Jilwan  Scott Varga
Jennifer Drue  John Luckoski  Nathaniel Westphal
Kevin Frank  Claire Meikle

The University of Toledo College of Medicine and Life Sciences
Welcome and Recognition of Distinguished Guests ................................. Christopher Cooper, M.D.
Board of Trustees Greeting .......................................................... Sharon Speyer
Alumni Association Greeting ......................................................... Amy Levine, M.D.
Presentation of Mehran Anvari, M.B.B.S., Ph.D, F.R.C.S.C, F.A.C.S. for the Degree of Doctor of Science, honoris causa degree ......................... Christopher Cooper, M.D.
Conferring the Honorary Degree of Doctor of Science .......................... Sharon Speyer
Awarding the Honorary Degree of Doctor of Science ............................ Sharon Speyer and Christopher Cooper, M.D.
Commencement Address ............................................................... Mehran Anvari, M.B.B.S., Ph.D, F.R.C.S.C, F.A.C.S.
Presentation of the Degrees Candidates ........................................... Kandace Williams, Ph.D. and Ronald McGinnis, M.D.
Conferring the Degrees and Graduate Certificates .............................. Sharon Speyer
Awarding the Degrees of Doctor of Philosophy in Biomedical Sciences .... Christopher Cooper, M.D. and Amanda Bryant-Friedrich, Ph.D.
Awarding the Degrees of Master of Science in Biomedical Sciences ....... Christopher Cooper, M.D. and Amanda Bryant-Friedrich, Ph.D.
Graduate Student Commencement Speech ....................................... Xi Cheng, Ph.D.
Awarding the Degrees of Doctor of Medicine in Biomedical Sciences and Doctor of Philosophy ................................. Christopher Cooper, M.D. and Amanda Bryant-Friedrich, Ph.D.
Awarding the Degrees of Doctor of Medicine and Master in Business Administration ........................................ Christopher Cooper, M.D. and Amanda Bryant-Friedrich, Ph.D.
Awarding the Degree of Doctor of Medicine and Graduate Certificate in Pathology ........................................ Christopher Cooper, M.D. and Amanda Bryant-Friedrich, Ph.D.
Awarding the Degrees of Doctor of Medicine .................................... Christopher Cooper, M.D.
Recitation of the Physician’s Oath .................................................... Nathaniel David Westphal, M.D.
Oath of Office for Supercession Ceremony ....................................... Lieutenant Colonel Thomas Sodeman, M.D.
Medical Student Commencement Speech ....................................... Marcus Sinew, M.D.
Closing Remarks ............................................................................ Christopher Cooper, M.D.

Recessional
“Rondeau” Jean-Joseph Mouret (1682 - 1738)
Performed by Glass City Brass
Mehran Anvari, M.B.B.S., Ph.D., F.R.C.S.C., F.A.C.S.

A tenured professor of surgery and Chair of Minimally Invasive Surgery and Surgical Innovation at McMaster University in Hamilton, Ontario, Dr. Mehran Anvari was one of the first surgeons in Canada to use robotics in surgery. In 2003, he established the world's first telerobotic surgical service linking St. Joseph’s Healthcare Hamilton with North Bay General, a community hospital more than 250 miles away.

Dr. Anvari is a pioneer in his field. He is the founding director of both the McMaster Institute for Surgical Invention, Innovation and Education and the Centre for Minimal Access Surgery (CMAS), which Time Magazine described as “sculpting the next frontier of medicine.”

CMAS was first of its kind in Canada and trained more than 1,200 surgeons through 87 CME programs under Dr. Anvari’s direction. While there, he promoted the use of minimal access techniques in all surgical specialties and focused on improving patient outcomes, minimizing the physical, emotional and financial impact of surgical procedures on patients and reducing hospital admissions and the associated costs.

Dr. Anvari is also Scientific Director and CEO of the Centre for Surgical Invention and Innovation (CSii), affiliated with McMaster University and St. Joseph’s Healthcare Hamilton. Under his leadership as CEO of CSii, Dr. Anvari saw the organization become a leader in the development and commercialization of an innovative class of medical robotic platforms and minimally invasive tools. CSii has successfully developed and manufactured a clinical system designed for early detection and treatment of breast cancer in high-risk women.

Dr. Anvari is the Editor-in-Chief of the International Journal of Medical Robotics and Computer-Assisted Surgery, an Adjunct Scientist with the Institute for Clinical Evaluative Sciences (ICES) and the Clinical Lead and Chair of the Ontario Bariatric Network. He has authored more than 120 publications and has been an invited lecturer numerous times on the outcomes and evidence for the increasing use of laparoscopic esophagogastric and bowel surgery, as well as on the use of robotics in surgery.

He was the Chief Scientific Officer for the NASA Extreme Environment Mission Operations (NEEMO) 7 mission in 2004 and NEEMO 9 in 2006. Both were joint projects of McMaster University, the Canadian Space Agency and NASA that were tasked with testing the ability of new robotic and telesurgical technology to allow a non-physician to perform assisted surgery in a contained environment that simulates conditions in space.

Dr. Anvari is the recipient of the 2009-2010 ORION Award for Leadership, was awarded the Government of Ontario Diamond Award for Innovation in Technology, the Government of Canada Gold Medal of Distinction for Telerobotic Surgery, the McMaster Innovator of the Year Award in 2009, and the NASA-International Space Station (ISS) Research and Development Award for Biology and Medicine in 2015.
Doctor of Philosophy in Biomedical Sciences

**Prince T. Ampem**  
**Ph.D., Molecular Medicine**  
Advisor: Guillermo Vazquez, PhD  
Dissertation Title: The Transient Receptor Potential Canonical 3 (TRPC3) Channel: Novel Role in Endothelial Cell Apoptosis and its Impact on Atherosclerosis

**Simona S. Ghanem**  
**Ph.D., Molecular Medicine**  
Advisor: Sonia M. Najjar, PhD  
Dissertation Title: Evidence for non-coding RNAs as inherited factors influencing cardiovascular disease, renal disease and tumorigenesis

**Xi Cheng**  
**Ph.D., Molecular Medicine**  
Advisor: Bina Joe, PhD  
Dissertation Title: Evidence for non-coding RNAs as inherited factors influencing cardiovascular disease, renal disease and tumorigenesis

**Adaeze Izuogu**  
**Ph.D., Medical Microbiology and Immunology**  
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Dissertation Title: Restriction of Tick-borne flaviviruses in the white-footed mouse

**Xiaoyu Cui**  
**Ph.D., Molecular Medicine**  
Advisor: Zijian Xie, PhD and Andrew Beavis, PhD  
Dissertation Title: Regulation of Cellular Bioenergetics by Na/K-ATPase

**Nneka Mbah**  
**Ph.D., Biochemistry & Cancer Biology**  
Advisor:  
Dissertation Title: Defining the Mechanism of Methuosis, a Non-apoptotic Cell Death Pathway, Induced by Indolyl Chalcone Compounds in Glioblastoma Cells

**Kaitlyn M. Dvorak**  
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Dissertation Title: The tumor microenvironment drives tumor progression through a mDia2-mediated mechanism

**Sumeet A. Solanki**  
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*Medicine-Preliminary*  
University of Toledo  
Toledo, OH
<table>
<thead>
<tr>
<th>Name</th>
<th>Residency:</th>
<th>Institution</th>
<th>City, State</th>
</tr>
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<tbody>
<tr>
<td>Shifa Kanjwal</td>
<td>Internal Medicine</td>
<td>Yale-New Haven Hospital</td>
<td>New Haven, CT</td>
</tr>
<tr>
<td>Sura Khuder</td>
<td>Emergency Medicine</td>
<td>Central Michigan University</td>
<td>Saginaw, MI</td>
</tr>
<tr>
<td>Nandakishor Kapa</td>
<td>Internal Medicine</td>
<td>UC Davis Medical Center</td>
<td>Sacramento, CA</td>
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<tr>
<td>Thomas Klis</td>
<td>Dermatology</td>
<td>University of Illinois</td>
<td>Chicago, IL</td>
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<tr>
<td>Benjamin Kaumeyer</td>
<td>Pathology-Anatomic and Clinical</td>
<td>University of Chicago Medical Center</td>
<td>Chicago, IL</td>
</tr>
<tr>
<td>Amy Krzmarzick</td>
<td>Pediatrics</td>
<td>University of Connecticut School of Medicine</td>
<td>Hartford, CT</td>
</tr>
<tr>
<td>Sukhmit Kaur</td>
<td>Obstetrics and Gynecology</td>
<td>Marshall University</td>
<td>Huntington, WV</td>
</tr>
<tr>
<td>Jared Kusma</td>
<td>Pediatrics</td>
<td>Nationwide Childrens Hospital</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Amanuel Kebede</td>
<td>Emergency Medicine</td>
<td>Drexel University College of Medicine/</td>
<td>Philadelphia, PA</td>
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<tr>
<td></td>
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<td>Hahnemann University Hospital</td>
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</tr>
</tbody>
</table>
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*Transitional*  
St Vincent Mercy Medical Center  
Toledo, OH

Katrina Weimer  
**Residency:** Family Medicine  
University of Wisconsin School of Medicine and Public Health  
Madison, WI

Erik Wolf  
**Residency:** Radiology-Diagnostic  
Providence Park Hospital/MSUCHM  
Southfield, MI  
*Transitional*  
Providence Park Hosp/MSUCHM  
Southfield, MI

Nathaniel Westphal  
**Residency:** Emergency Medicine  
Wake Forest Baptist Medical Center  
Winston-Salem, NC

Larry Wu  
**Residency:** Family Medicine  
University of Toledo  
Toledo, OH
Doctor of Medicine

Danielle Yang  
**Residency:** Radiology-Diagnostic  
Northwestern McGaw/NMH/VA  
Chicago, IL  
**Transitional**  
St Vincent Mercy Medical Center  
Toledo, OH

Peter Zak  
**Residency:** Surgery-Preliminary  
University of Toledo  
Toledo, OH

Emily Yang  
**Residency:** Pediatrics  
University of Washington  
Affiliate Hospitals  
Seattle, WA

Amanda Zakeri  
**Residency:** Neurological Surgery  
Ohio State University Medical Center  
Columbus, OH

Jason Young  
**Residency:** Ophthalmology  
Indiana University  
Indianapolis, IN  
**Transitional**  
Riverside Methodist  
Columbus, OH

Amy Zhou  
**Residency:** Pediatrics  
UC Davis Medical Center  
Sacramento, Ca

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Enter to Learn

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Go Forth to Serve
Graduate Student Awards

Doctor of Medicine/Doctor of Philosophy in Biomedical Sciences Program
Outstanding Student
Jennifer Ann Ohtola

Doctor of Philosophy in Biomedical Sciences Program
Outstanding Student
Xi Cheng

Master of Science in Biomedical Sciences Medical Physics Program
Outstanding Student
Chenguang Liu

Master of Science in Biomedical Sciences in Human Donation Science Program Outstanding Student
Riley Messer

Master of Science in Biomedical Sciences in Physician Assistant Studies Program Outstanding Student
Caitlin Ceglarek

Master of Science in Occupational Health Program Outstanding Student
Oluwatomisin (Tomi) Atolagbe

Medical Student Awards

The Glidden L. Brooks Award

The Glidden L. Brooks Award, named in honor of the first president of the former Medical College of Ohio, is presented annually to that graduating medical student who is distinguishable by superiority in all phases of the curriculum.

Daniel Ritter

Dean’s Award

The Dean’s Award is awarded to that graduating medical student who, in the eyes of fellow students, shows the greatest promise as a practitioner of medicine.

Hiten Patel
Medical Student Awards

Anatomy and Neurobiology Award
Cory Schmidt
Rachel Sieke

Lucien E. Morris, M.D. Anesthesia Award
Elizabeth Reinhart

Award for Excellence in Biochemistry
Stephanie Chen

Society for Academic Emergency Medicine Excellence in Emergency Medicine Award
Nathan Marcinkowski

Jerri Nielsen FitzGerald Award
Bridget Onders

Harry E. Mayhew, M.D. Department of Family Medicine Award
Hiten Patel

Toledo/Lucas County Academy of Family Physicians Award
Katrina Weimer

George D. Ludwig Prize in Medicine
Nandakishor Kapa

Patrick J. Mulrow Prize in Medicine
Wenfei Wang

Earl H. Freimer, M.D., Award for Excellence in Microbiology and Immunology Award
Nicholas Moses

Mark Rayport, M.D., Ph.D. Award in Neurological Surgery
Amanda Zakeri

American Academy of Neurology Medical Student Prize for Excellence in Neurology
Amelia Heston

Outstanding Neurology Student Award
Jennifer Amsdell

Outstanding Student in Obstetrics and Gynecology Award
Timothy Glasser

Division of Ophthalmology Award for Excellence in Ophthalmology
Andrew Jilwan

Outstanding Orthopaedic Student of the Year
Megan Mooney

Pathology Award for Most Outstanding Student
Geoffrey Meyers

Marian M. Rejent, M.D. Award in Pediatrics
Kelsie Moeller

Edward J. Cafruny Award for Excellence in Pharmacology
Nicholas Moses
Nathaniel Westphal

Eleanore Coghlin Award for Excellence in Rehabilitation Medicine
Victoria Strickland
Medical Student Awards

Physiology Award
Scott Varga

Theordore P. and Evelyn H. Chengelis Memorial Award in Psychiatry
Rachel Sieke

Robert E. Walden, M.D. Endowed Award
Stephanie Cripps

Outstanding Students in Radiology
Danielle Yang

Dr. Sam Schaeffer Award
Natasha Raj Ahuja

Marion C. Anderson Award for Excellence in Surgery
Hayavadhan Thuppal

Toledo Surgical Society and Mercy St. Vincent Medical Center Student Recognition Award
Tyler Williams

The Leonard Tow Humanism in Medicine Award

The Leonard Tow Humanism in Medicine Awards presented by The Arnold P. Gold Foundation are bestowed on one graduating medical student and one faculty member who embody outstanding humanistic traits in the delivery of care to patients and their families and in their interactions with students, faculty, and staff. The recipients are selected by the graduating class.

Katrina Weimer, M.D.  Paul Schaefer, M.D., PhD
Medical Honor Societies

Alpha Omega Alpha Honor Medical Society

The Alpha Omega Alpha Honor Medical Society was founded in Chicago in 1902 by medical students to formulate higher ideals of scholastic achievement and to foster the scientific and philosophical features of the medical profession. The Delta of Ohio chapter at The University of Toledo College of Medicine and Life Sciences was installed in 1974. Election to membership is extended to junior and senior medical students whose academic excellence places them in the upper sixth of their class and who show promise of leadership in medicine. Induction in the junior year is extended to the top 8% of the class.

| Mark Abraham       | *Kathryn Michels     | Kaitlyn Shrake     |
| Colleen Bauk       | *Megan Mooney        | Kaitlyn Shrake     |
| *Kristin Barrett   | *Andrew Park         | *Marcus Sinew     |
| Stephanie Chen     | *Hiten Patel         | Kathryn Tobin     |
| Hallie Foster      | *Joe Perrault        | *Wenfei Wang      |
| Lori Hage          | *Daniel Ritter       | *Nathaniel Westphal|
| *Timothy Hake      | Amanda Rusk          | Danielle Yang     |
| Shifa Kanjwal      | *Cory Schmidt        | Emily Yang        |
| Michael Makowski   | *Michael Schopis     | *Amanda Zakeri    |
| Christopher Marino | Kristen Schwind      |                   |

*Inducted in Junior Year

Gold Humanism Honor Society

The Gold Humanism Honor Society is a national honor society initiated in 2001 by The Arnold P. Gold Foundation to recognize individuals who have demonstrated exemplary attitudes and behaviors characteristic of the most humanistic physicians, including integrity, excellence, compassion, altruism, respect, empathy, and service. The University of Toledo chapter of the Gold Humanism Honor Society was founded in 2005. The members are selected by peer nomination and endorsed by the College of Medicine and Life Sciences Senior Leadership Team.

| Nandini Abburi     | Sara Khuder          | Kristen Schwind    |
| Natasha Ahuja      | Christopher Marino   | Michael Siedow    |
| Erin Batdorff      | Michael McKernan    | Kathryn Tobin     |
| Karen Chahal       | Geoffrey Meyers      | Rohit Vyas        |
| Maria Grabnar      | Megan Mooney         | Katrina Weimer    |
| Hoda Hassan        | Andrew Park          | Emily Yang        |
|                    | Hiten Patel          |                   |
Teaching Awards

Robert T. Tidrick Golden Apple Awards

The Robert T. Tidrick Golden Apple Awards for teaching excellence are named in honor of Dr. Tidrick, a surgeon and outstanding educator on the faculty of the former Medical College of Ohio from 1969 until his death in June 1983, at the age of 73. Faculty, both basic scientists and clinicians, are selected for the honor each year by members of the graduating class of medical students.

Robert T. Tidrick Golden Apple Award for Teaching Excellence in Basic Sciences

Carlos A. C. Baptista, M.D., Ph.D.
Associate Professor
Department of Neurosciences

Carol A. Bennett-Clarke, Ph.D.
Professor
Department of Neurosciences
Associate Dean for Preclinical Medical Education

Amira F. Gohara, M.D.
Professor
Department of Pathology
Dean Emerita of the College of Medicine

Robert T. Tidrick Golden Apple Award for Teaching Excellence in Clinical Sciences

Jacob Bieszczad, M.D.
Assistant Professor
Department of Radiology

Burton S. Brodsky, M.D.
Assistant Professor
Department of Obstetrics and Gynecology

Amira F. Gohara, M.D.
Professor
Department of Pathology
Dean Emerita of the College of Medicine
Oath of Hippocrates

Upon this day of graduation,
as I seek admission to the medical profession:

I do solemnly affirm, as did the ancient Greeks, by all that I hold
most sacred that, according to my ability and judgment
I will keep this oath and its stipulations.

To hold my teachers in this art equal to my own parents
and extend to them the respect and gratitude which is their due.

I will by precept, lecture, and every other mode of instruction,
impart a knowledge of the art to my sons and daughters and those of my teachers,
and to disciples bound by covenant and oath
according to the law of medicine.

I will follow that system of treatment which according
to my ability and judgment,
I consider for the benefit of my patients and abstain from
whatever is deleterious and mischievous.

I will exercise my art, solely for the cure of my patients
and the prevention of disease and will give no drugs and perform
no operations for a criminal purpose nor far less suggest such thing.

With honor and dignity I will practice my profession not permitting
consideration of religion, nationality, race or social standing
to intervene between duty and my patient.

Into whatsoever houses I enter, I will go for the benefit of the sick
and will hold myself aloof from every voluntary act
of wrongdoing or corruption.

Whatever I may see or hear in the lives of men which ought not
be spoken abroad, I will not divulge,
reckoning that such should be kept secret.

While I continue to keep this oath unviolated, may it be granted to me
to enjoy life and the practice of the art, respected by all men in all times.
But should I trespass and violate this oath, may the reverse be my lot.