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## Dean's Research Newsletter, July 2022

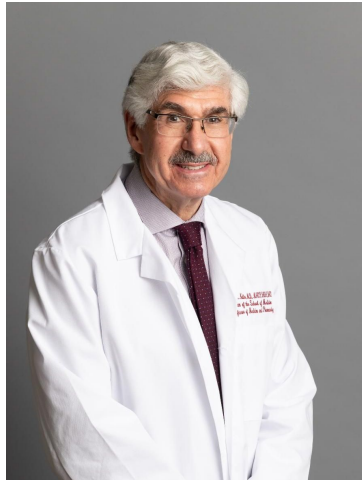
Jerry L. Nadler

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Dear Members of the New York Medical College (NYMC) Community,

I am happy to share with you the July issue of the School of Medicine (SOM) research newsletter highlighting important research advances being conducted by faculty and students in a wide variety of areas, including diabetes, food allergies, gum disease and kidney donation, as well as medical education research related to students with disabilities and anti-bias training.

We are pleased to be able to support this research through programs such as the Touro University Bridge and Seed Grant Funding Program, which is highlighted in this newsletter, and I applaud our faculty for the numerous grants they receive to support their research.

I am also especially pleased to see a record number of medical students engaged in summer research projects. This may be credited in large part to the dedication of Mary Petzke, Ph.D., assistant dean for medical student research, and the many faculty mentors who provide support and encouragement to our students.

As we prepare to welcome the Class of 2026, I hope you will have the opportunity this summer to take some time away to relax with family and friends. I look forward to sharing more exciting SOM research news soon.

Sincerely,

**Jerry L. Nadler, M.D., MACP, FAHA, FACE**  
Dean of the School of Medicine  
Professor of Medicine and of Pharmacology

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## NYMC Researchers Find Probiotics Can be Used to Treat Severe Gum Disease

NYMC researchers have found that serious gum disease can be counteracted through the administration of probiotics. The study, published in the *Journal of Clinical Periodontology*, was conducted by a team of members of the faculty at NYMC, the University of Strasbourg in France and the French National Institute of Health and Medical

Research (INSERM), and found that oral administration of live, pasteurized *Akkermansia muciniphila* (*A. muciniphila*), a mucus-degrading bacterium with inflammatory properties commonly found in the human gut, significantly decreased *Porphyromonas gingivalis* (*P. gingivalis*)-induced damage to the gums.

The NYMC-based research was led by **Salomon Amar, D.D.S., Ph.D.**, vice president for research and professor of pharmacology and of pathology, microbiology and immunology, NYMC, senior vice president for research affairs, Touro University (TU), and professor of dental medicine, Touro College of Dental Medicine at NYMC, along with Hannah Mulhall, Ph.D. '21, graduate research associate in the Department of Pathology, Microbiology and Immunology, and Jeanne M. DiChiara, Ph.D., research fellow in the Department of Pharmacology. [Read the full story about research on the use of probiotics to treat severe gum disease.](#)



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## Study Finds USMLE's Denial of Accommodations Requests by Students with Disabilities Negatively Impacts Medical Schools



A new study has shown more than half of medical students with disabilities from a sample of U.S. medical programs were denied accommodations by the organization that administers the United States Medical Licensing Exam (USMLE) Step 1. The international team of researchers, which included lead author of the study **Kristina H. Petersen, Ph.D.**, assistant dean of academic support programs and assistant professor of biochemistry and molecular biology, found these rejections detrimentally impacted both students and the medical schools they attend. The paper, "[Impact of USMLE step-1 accommodation denial on US medical schools: a national survey](#)," was recently published in *PLOS One*.

The USMLE Step 1 exam, typically administered after a student completes two years of medical school, assesses whether that student can apply key concepts of basic science underpinning the practice of medicine, with emphasis on principles of health, disease and therapy. It includes a one-day examination, divided into seven, 60-minute blocks and administered in one eight-hour testing session. [Read the full story about the study on the impact of USMLE's denial of accommodations .](#)

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## Focus on Beta Cells Instead of Immune System Could be Key to Preventing Type 1 Diabetes

Research into the causes of type 1 diabetes often focuses on the autoimmune response, where the immune system destroys pancreatic islet beta cells that produce insulin. A new study by a national team of researchers, which included **Jerry L. Nadler, M.D., MACP, FAHA, FACE**, left, dean of the SOM and professor of medicine and pharmacology, and Raghavendra Mirmira, M.D., Ph.D., professor of medicine and director of the Diabetes Translational Research Center at the University of Chicago (UChicago), instead examined the role of the beta cells themselves in triggering autoimmunity. The research also raises the possibility that new medications could block the immune system from destroying beta cells and prevent type 1 diabetes from developing in at-risk or early onset patients.

The study, [published in \*Cell Reports\*](#), describes how the researchers used genetic tools to knock out or delete a gene called *Alox15* in mice that are genetically predisposed to developing type 1 diabetes. This gene produces an enzyme called 12/15-Lipoxygenase, which is known to be involved in processes that produce inflammation in beta cells. Deleting *Alox15* in these mice preserved their amount of beta cells, reduced the number of immune T-cells infiltrating the islet environment and prevented type 1 diabetes from developing in both males and females. These mice also showed increased expression of the gene encoding a protein called PD-L1 that suppresses autoimmunity.



“The immune system doesn’t just decide one day that it’s going to attack your beta cells. Our thinking was that the beta cell itself has somehow fundamentally altered itself to invite that immunity,” said Dr. Mirmira. “When we got rid of this gene, the beta cells no longer signaled to the immune system and the immune onslaught was completely suppressed, even though we didn’t touch the immune system,” he said. “That tells us that there is a complex dialogue between beta cells and immune cells, and if you intervene in that dialogue, you can prevent diabetes.”

Dr. Nadler is credited with the discovery in his own lab of the role of the 12/15-Lipoxygenase enzyme. “This is an important finding in the field of type 1 diabetes research and represents a clear example of the benefits of team science and collaboration,” said Dr. Nadler. “It continues to be a great joy to have the long-term opportunity to collaborate with Dr. Mirmira and his team.” [Read the full story on the study on preventing type 1 diabetes.](#)

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## Plant Compound Shows Promise for Alleviating Food Allergies



With nearly 10 percent of the world population affected by food allergies — which are sometimes life-threatening — new treatments are critically needed. Researchers in the lab of **Xiu-Min Li, M.D, M.S.**, (right in photo) professor of pathology, microbiology and immunology and otolaryngology, have found that the plant compound formononetin has great potential to treat food allergies. Found in plants and herbs such as red clover and green beans, formononetin is a phytoestrogen, which can bind to the body’s estrogen receptors, and has been shown to have anticancer properties.

“Our findings show that formononetin is a particularly good therapeutic candidate for treating food allergies,” said **Ibrahim Musa, M.S.**, (left in photo) a doctoral candidate in

Dr. Li’s lab. “Our research also revealed new mechanisms and targets that can be utilized to design future drugs for treating food allergies and other allergic disorders or to prevent severe anaphylaxis seen in allergic diseases.” Mr. Musa presented the research at the American Society for Biochemistry and Molecular Biology annual meeting in April and the manuscript was recently accepted for publication in the *FASEB Journal*. [Read the full story on research on formononetin .](#)

**Cara Grimes, M.D., Recognized for Most Impactful Research Article of 2020 by International Urogynecological Association**



**Cara Grimes, M.D.**, (third from left) associate professor of obstetrics and gynecology and of urology, was recognized for the most impactful research article of 2020 by the International Urogynecological Association (IUGA) on June 17, 2022, during the IUGA's annual business meeting in Austin, TX. Dr. Grimes and her fellow researchers from across the country received the Oscar Contreras Ortiz Award for their article "A Guide for Urogynecologic Patient Care Utilizing Telemedicine During the COVID-19 Pandemic: Review of Existing Evidence," which was published in the *International Urogynecology Journal* in June 2020. The Oscar Contreras Ortiz Award was first bestowed in 2018 to honor the memory and legacy of Oscar Contreras Ortiz, co-founder of the International Urogynecology Journal and IUGA President from 1996-1998.

"This award is one that I will treasure greatly," said Dr. Grimes. "This research paper grew out of collaboration during the early days of the COVID-19 pandemic. During this time when outpatient offices/clinics were closed, I, as a physician, felt ungrounded and unguided with no clear direction on how best to treat my patients. I turned to a group of my colleagues around the country and we came together to do a rapid systematic review and meta-analysis of existing literature in an effort to guide us. It is gratifying to have our work recognized and know that it has been read and cited by many of my colleagues around the world, and hopefully that it supported them to provide quality care to patients during the pandemic."

## **NYMC Researchers Validate Effectiveness of Tool to Determine Patient Recovery After Kidney Donation**

With kidney transplantation the best treatment option for patients with end-stage renal disease, living-donor kidney transplantation has increasingly been looked to as a solution for donor shortage. Yet donor nephrectomy does not come without risks. In a new study, [published in \*Transplant Proceedings\*](#), a team of NYMC researchers validated the effectiveness of a tool to calculate how well patients who donated a kidney will recover.

"Donating a kidney is an incredibly honorable act, and it is very important that we do our best as medical professionals to make sure that the donors as well as the recipients of the kidneys, have positive outcomes," said **Holly Grace**, SOM Class of 2023, who was second author on the study.

For the study, the NYMC researchers examined characteristics of the donors, including age, race, BMI and kidney function before transplant and then applied the compensation prediction score (CPS) formula to calculate how well the donor's remaining kidney would function after the transplant. "By validating this calculation, we showed that the tool can also be used among the United States population to predict remnant kidney function after donation," said Ms. Grace.



The use of CPS as a validation tool was first reported in a 2019 [study](#) conducted in Japan that was lead authored by Kenji Okumura, M.D., now a research fellow at Westchester Medical Center, NYMC's primary clinical affiliate. In addition to Dr. Okumura and Ms. Grace, other authors on the study included: Hiroshi Sogawa, M.D., associate professor of surgery; Gregory Veillette, M.D., assistant professor of surgery; Devon John, M.D., assistant professor of surgery; Nandita Singh, M.D., clinical assistant professor of medicine; Daniel Glicklich, M.D., professor of medicine; Seigo Nishida, M.D., Ph.D., clinical professor of surgery; and Thomas Diflo, M.D., professor of surgery.

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## SOM Students Develop Implicit Bias Training Program with Positive Results

As leaders in health care teams, physicians can play an integral role in identifying, addressing and teaching others how to mitigate the impact of implicit bias on patient interactions and health outcomes. However, limited research has focused on curricular design to recognize and address implicit bias early in medical training, especially for medical students in pre-clinical training. To address this disparity, a group of SOM students collaborated to design and implement an implicit bias training program for first- and second- year medical students. The program has not only received very positive feedback from SOM students but has also been presented at several conferences, including the University of Michigan Annual Diversity in Medicine Conference, the American Medical Student Association National Conference, the Annual Medical Society of the State of New York Conference and the University of North Carolina Annual Minority Health Conference.

“As medical students ourselves, we wanted to create a program that addressed this educational gap in a way that would resonate with our fellow students. For this reason, we developed a virtual curriculum that included not only didactic learning but also real-life scenarios of implicit bias, including racism, sexism and ableism. We hoped that tailoring the training to scenarios future students might find themselves in would make the concepts taught more memorable and the strategies we discussed more applicable. Based on student testimonials provided in the post-session survey, it seems we succeeded,” said Forouhideh Peyvandi, SOM Class of 2023, who worked with fellow members of the Class of 2023 Ebtisam Zeynu, Madison Kasoff, Joshua Buckley and Mariah Fontanez-Lutsky under the mentorship of Dr. Mill Etienne, M.D.'02, M.P.H., vice chancellor for diversity and inclusion and associate dean for student affairs, to develop the program.

To date, more than 400 students have participated in the program, and student feedback has demonstrated an overwhelmingly positive response with students expressing a much higher comfort level in discussing implicit bias and a strong interest in continued curricular experiences. The training has been expanded to include physical therapy students at NYMC, and possibly in the future will include longitudinal training that extends to third- and fourth-year SOM students.

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## Touro University Bridge and Seed Funding Grant Program Recipients Announced

Several NYMC faculty are the recipients of the Spring 2022 Bridge and Seed Funding Grants from TU.

### Bridge Funding Grant Program:

**Sachin A. Gupte, M.D., Ph.D.**, professor of pharmacology

*“Regulation of Vascular Smooth Muscle Tissue Cell Phenotype by a Novel Isoform of Glucose-6 Phosphate Dehydrogenase”*

**Michal Laniado Schwartzman, Ph.D.**, professor and chair of Department of Pharmacology

*“GPR75 in Obesity-driven Cardiovascular and Metabolic Complications”*

### Seed Funding Grant Program:

**Victor Garcia, Ph.D.**, assistant professor of pharmacology

**Tetyana Cheairs, M.D., M.P.H.**, assistant professor of pathology, microbiology and immunology

**Michael Shakarjian, Ph.D.**, assistant professor of public health

*“Characterization of a 20-HET Receptor (GPR75) Blocker for the Prevention of Obesity and Liver Disease (NALFD)”*

**Marcello Rota, Ph.D.**, research assistant professor of physiology

**Sudhir Jain, Ph.D.**, associate professor of pathology, microbiology and immunology  
**Hong Duck Kim, Ph.D.**, associate professor of public health  
*"Events Triggering the Manifestation of Cardiometabolic Syndrome"*

**Patric Stanton, Ph.D.**, professor of cell biology and anatomy and of neurology  
**John A. Sullivan, M.D., Ph.D.**, assistant professor of Physician's Assistant Program  
*"The Role of the Pro-Diabetes Inflammatory Transcription Factor STAT4 in Alzheimer's Disease"*

According to Salomon Amar, D.D.S., Ph.D., vice president for research at NYMC and senior vice president for research affairs at TU, "The Bridge and Seed Funding Grant programs are one of several initiatives, both system-centric and campus-centric, by which we seek to recognize both great promise of our junior faculty and ongoing excellence of senior faculty, all in support of research as a fundamental component of Touro's mission. On behalf of our entire research community, please join me in congratulating all of our faculty awardees and wishing them every success."

## Grants Corner

**Katherine Amodeo, M.D.**, assistant professor of neurology, received a \$150,000 grant from Aptinyx for "A study to evaluate NYX-458 in Subjects with Mild Cognitive Impairment or Mild Dementia Associated with Parkinson's disease or Prodromal or Manifest Lewy Body Dementia."

**Matthew Bronstein, M.D.**, clinical assistant professor of surgery, received a \$163,995 grant from Duke University/RTI/Labcorp for "COVID-19 Post-hospital Thrombosis Prevention Study: A multicenter, adaptive, prospective, randomized, placebo-controlled platform trial evaluating the efficacy and safety of antithrombotic strategies in patients with COVID-19 following hospital discharge."

**Doris Bucher, Ph.D.**, associate professor of pathology, microbiology and immunology and of pediatrics, received a \$956,604 grant from the International Federation of Pharmaceutical Manufacturers and Associations for "High Yield Reassortant Viruses for Influenza Vaccine."

**Mitchell Cairo, M.D.**, professor of pediatrics, cell biology and anatomy, medicine and of pathology, microbiology and immunology, received a \$1,097,468 grant from Merck/PRA for "A Phase 2 Open-label Clinical Study to Evaluate the Efficacy and Safety of Zilovertamab Vedotin (MK-2140) in Participants With Relapsed or Refractory Diffuse Large B-Cell Lymphoma" and a \$125,554 grant from Merck for "A Phase 2/3 Multicenter, Open-label, Randomized, Active-Control Study of Zilovertamab Vedotin (MK-2140) in Combination With Standard of Care in Participants With Relapsed or Refractory Diffuse Large B-Cell Lymphoma."

**Daniel Cho, M.D.**, professor of medicine, received a \$50,000 grant from Pyramid for "A Phase 1/2 Study of PBI-200 in Subjects with NTRK-Fusion-Positive Advanced or Metastatic Solid Tumors."

**Thomas Diflo, M.D.**, professor of surgery, received a \$27,425 grant from the NIH for "APOL1 Long-term Kidney Transplantation Outcomes Network (APOLLO)."

**Chirag Gandhi, M.D.**, professor and chair of Department of Neurosurgery, professor of neurology and of radiology, received a \$130,524 grant from Stryker Neurovascular for "SELECT2: A Randomized Controlled Trial to Optimize Patient's Selection for Endovascular Treatment in Acute Ischemic Stroke."

**Simon Hanft, M.D.**, associate professor of neurosurgery, received a \$112,675 grant from GT Medical Technologies for "A Multicenter Observational Study of GammaTile™ Surgically Targeted Radiation Therapy (STaRT) in Intracranial Brain Neoplasms."

**Supriya Jain, M.D.**, clinical associate professor of pediatrics and assistant professor of radiology, received a \$207,527 grant from Acumen for "COVID-19 Vaccination-Associated Myocarditis in Adolescents: Follow Up Study."

**Jerry Nadler, M.D.**, dean of the SOM and professor of pharmacology and of medicine, received a \$47,801 grant from Veralox Therapeutics for "Development of New Inhibitors to Treat

Inflammatory Damage of COVID-19."

**John Phillips, M.D.**, professor of urology, received a \$66,500 grant from ColImmune for "A Phase 2b Randomized Trial of Autologous Dendritic Cell Immunotherapy (CMN-001) Plus Standard Treatment of Advanced Renal Cell Carcinoma."

**Justin Santarelli, M.D.**, assistant professor of neurosurgery, received a \$680,766 grant from Micro Therapeutics/Medtronic for "Embolization of the Middle Meningeal Artery with ONYX™ Liquid Embolic System In the Treatment of Subacute and Chronic Subdural Hematoma (EMBOLISE)."

**Patric Stanton, Ph.D.**, professor of cell biology and anatomy and of neurology, received a \$156,000 grant from Gate Neuroscience for "NMDA Receptor Modulators as Neurotherapeutics."

**Francis Winski, Jr., M.D.**, clinical assistant professor of surgery and of otolaryngology, received a \$34,289 grant from the American Burn Association for "The Acute Burn Resuscitation Multicenter Prospective Trial – 2."

**Steven Wolf, M.D.**, clinical professor of pediatrics, received a \$97,618 grant from Neurelis for "An Open-Label, Single-Dose, Pharmacokinetics Study of VALTOCO® with Open-Label Safety Period in Pediatric Subjects with Epilepsy (DIAZ.001.08), a \$94,568 grant from Neuropace for "Responsive Stimulation for Adolescents with Epilepsy (RESPONSE) Study" and a \$67,581 grant from PRA Health Sciences for Open-Label, Single-Arm, Multicenter Study to Evaluate Long-Term Safety and Tolerability of Brivaracetam Used as Adjunctive Treatment in Pediatric Study Participants with Epilepsy."

**Gary Wormser, M.D.**, professor of medicine, pharmacology and of pathology, microbiology and immunology, received a \$100,000 grant from New York State for "New York Medical College – Lyme Disease Diagnostic Center."

## NYMC Students and Faculty Shine at Touro University Research Day

As part of Touro University's (TU) 50th Anniversary series of celebratory events, the first Research Day for the entire TU community took place on May 3. The event recognized the best faculty research publications in 2019 and the best student posters presented at Research Day 2022. Ph.D. candidates in microbiology and immunology **Michelle Carnazza** (left in photo) and **Tara Jarboe** (right in photo) and M.D./Ph.D. candidate **Sina Dadafarin** won for best student posters, while faculty members **Julio Panza, M.D.**, professor of medicine and chief of the Division of Cardiology, and **Sangmi Chung, Ph.D.**, associate professor of cell biology and anatomy, were recognized for their publications.



Posters were selected for presentation by a multi-step process to highlight the best research projects throughout TU. After rigorous local judging, a final group of posters was chosen for presentation in four categories with first and second place prizes. Students in the Department of Pathology, Microbiology and Immunology swept the basic sciences and natural sciences category. [Read the article on the winning projects.](#)

## Clinical Affiliates and Academic Departments Host Research Days

In recent months, both NYMC clinical affiliates and academic departments have hosted research events, highlighting the important projects underway by faculty, students and residents.



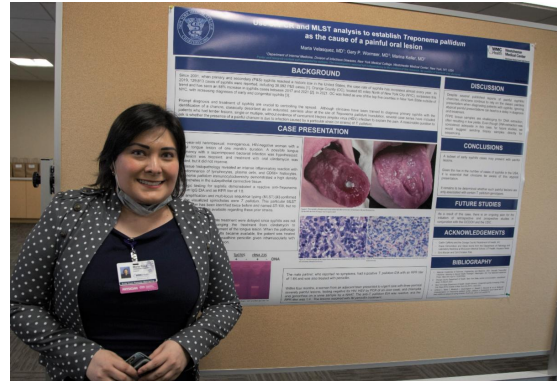


The **Department of Surgery** hosted the **19<sup>th</sup> Annual Louis R.M. DelGuercio Distinguished Visiting Professorship and Research Day** on May 6, with keynote speaker Rifat Latifi, M.D., former chair of the Department of Surgery and now Minister of Health for the Republic of Kosova. During his address, Dr. Latifi shared his perspective on mitigating health disparity and transforming healthcare in Kosova through Centers of Excellence.

Sponsored annually since 2002, the Louis R.M. DelGuercio Research Day is named for the late

Louis R.M. Del Guercio, M.D., professor emeritus of surgery, who served as chair of the Department for 24 years before retiring in 2000. The event provides students, residents and fellows, with both an opportunity to showcase their research and an occasion to network, learn from one another and potentially combine efforts to promote the advancement of surgical research. [Read the full list of award winners.](#)

On May 20, the **Department of Medicine** highlighted recent research by residents and fellows at an event at Maria Fareri Children's Hospital. More than 20 residents and fellows were chosen to present their projects at the event with several winners chosen, which included: **Best Resident Case Report** - Liana Michaud, D.O., for "Kratom Toxicity: A Rare Case of Severe Pancreatitis, Rhabdomyolysis, Cardiomyopathy, and ATN" (Liana Michaud, D.O., Abhinaya Sridhar, M.B.B.S., Matthew Seplowe, D.O., Ester Sherman, M.D., Sally Ziatabar, D.O., Lisa Paul, M.D., assistant professor of medicine); **Best Resident Research/QI Project** - Areen Pitaktong, M.D., for "Does COVID-19 Party on the Weekend?" (Areen Pitaktong, M.D., Neil Schluger, M.D., professor and chair of Department of Medicine); **Best Fellow Case Report** - **Maria Velasquez, M.D.**, for "Use of PCR and MLST analysis to establish *Treponema pallidum* as the cause of a painful oral lesion" (Maria Velasquez, M.D., Gary P. Wormser, M.D., professor of medicine, pharmacology and of pathology, microbiology and immunology, Marina Keller, M.D., assistant professor of medicine); and **Best Fellow Research/QI Project** - Aaqib Malik, M.D., M.P.H., clinical assistant professor of medicine, for "30-day readmission rate of same-day discharge protocol following Transcatheter aortic valve implantation: A propensity score-matched analysis from National Readmission Database" (Aaqib H Malik, M.D., M.P.H., Akshay Goel, M.D., Dhruvajyoti Bandyopadhyay, M.D., Sandipan Chakraborty, M.D., Rahul Gupta, M.D., J. Dawn Abbott, M.D., Hasan Ahmad, M.D., clinical associate professor of medicine).



The **Department of Neurology** held their inaugural Neuroscience Research Symposium on May 25, which celebrated ongoing achievements and cutting-edge neuroscience research by NYMC faculty, resident and students. At the symposium, Walter Koroshetz, M.D., director of the National Institute on Neurological Disorders and Stroke, delivered the keynote address.

Award winners at the symposium included: **Best Neurosurgical Abstract Award** – Jared Cooper, M.D. '16, instructor of neurosurgery, for "Endovascular thrombectomy for treatment of pediatric stroke: safety and outcome data from a national inpatient sample"; and Steve Shapiro, M.D., for "Characteristics and outcomes of acute stroke patients with cancer in the modern thrombectomy era"; **Neurosurgical Research Resident Award** -- Jose Dominguez, M.D. for "Cerebral Venous Thrombosis in COVID-19: A New York Metropolitan Cohort Study"; **Clinical Neurosciences Research Fellow Award** -- Eric Feldstein, M.D. '21 for "Ruptured Arteriovenous Malformation Mortality: Incidence, Risk Factors, and Inpatient

Outcome Score”; Best Medical Student Neurological Abstract Award -- Maya Pandit, M.P.H., SOM Class of 2023, for “Racial Disparities Among Migraine Clinical Trials between 1995-2021”; and Aiden Lui, SOM Class of 2024, for “Outcomes of Heparin Induced Thrombocytopenia Type II in Aneurysmal Subarachnoid Hemorrhage Patients: A National Inpatient Sample Analysis: A Cross-Sectional Analysis”; Young Investigator Award -- Alis J. Dicpinigaitis, SOM Class of 2023, for “Increased Incidence of Ruptured Cerebral Arteriovenous Malformations and Mortality in the United States: Unintended Consequences of the ARUBA Trial?”

The **NYMC-sponsored Internal Medicine Residency Program at St. Michael’s Medical Center** hosted its first research symposium on May 19, where residents and fellows were invited to participate in poster and oral presentations on a wide array of topics. Poster presentation winners included: **Modupeoluwa Temitope Owolabi, M.D.**, pictured below left, (First Place) for “A Rare Case of Pyrethroid Poisoning Presenting as Auditory Hallucination” and **Raed Atiyat, M.D.**, pictured at right, (Second Place) for “A Rare Case of Propofol Infusion Syndrome in a Male with Diabetic Ketoacidosis.” Chosen for best oral presentation were **Iyad Farouji, M.D.**, pictured below right, (First Place) for “Cerebral Air Embolism after Gastrointestinal Procedure: A Case Report and Literature Review” and Sindhusha Veeraballi, M.D. (Second Place) for “The Role of Bisphosphonates in Solid Tumors.” Winners are pictured with program director Ted DeCosta, M.D.



## Faculty and Student Publications and Accolades

**Maha Alqahtani**, GSBMS student; and **Chandra Bakshi, D.V.M., Ph.D.**, associate professor of pathology, microbiology and immunology, published “ThioredoxinA1 Controls the Oxidative Stress Response of Francisella tularensis Live Vaccine Strain (LVS)” in the *Journal of Bacteriology*.

**Chun Peng Chao, M.D.**, assistant professor of pediatrics; **Erin Rescoe, M.D.**, clinical assistant professor of pediatrics; and **Sonia Solomon, D.O.**, assistant professor of pediatrics; published “The use of ECMO in pediatric granulomatosis with polyangiitis” in *Pediatric Rheumatology*.

**Joshua Goldberg, M.D.**, assistant professor of surgery; **Suguru Ohira, M.D., Ph.D.**, clinical assistant professor of surgery; **David Spielvogel, M.D.**, professor of surgery; and **Masashi Kai, M.D.**, clinical associate professor of surgery, published “Successful Heart Transplantation Recovered From a Brain-Dead Donor on Veno-Arterial Extracorporeal Membrane Oxygenation Support” in *Asaio Journal*.

**Jessica Hochberg, M.D.**, associate professor of pediatrics; **Liana Klejmont, Pharm.D.**, instructor of medicine; **Chitti Moorthy, M.D.**, professor of clinical radiation medicine; **Humayun Islam, M.D., Ph.D.**, clinical professor and chair of Department of Pathology, Microbiology and Immunology; **Perry Gerard, M.D.**, professor of radiology and of medicine; and **Mitchell Cairo, M.D.**, professor of pediatrics, medicine, cell biology and anatomy and of pathology, microbiology and immunology; published “Risk-adapted chemoimmunotherapy using brentuximab vedotin and

rituximab in children, adolescents, and young adults with newly diagnosed Hodgkin's lymphoma: a phase II, nonrandomized controlled trial" in the *Journal for Immunotherapy of Cancer*.

**Sudhir Jain, Ph.D.**, associate professor of pathology, microbiology and immunology; **Jason Jacobson, M.D.**, associate professor of medicine; and **Marcello Rota, Ph.D.**, research assistant professor of physiology; published "Heart Rate Variability Reveals Altered Autonomic Regulation in Response to Myocardial Infarction in Experimental Animals" in *Frontiers in Cardiovascular Medicine*.

**Humayun Islam, M.D., Ph.D.**, clinical professor and chair of Department of Pathology, Microbiology and Immunology; **Rugved Pattarkine, M.D.**, instructor of pathology, microbiology and immunology; **Angelica Mares-Miceli, M.D.**, assistant professor of pathology, microbiology and immunology; and **Patrick Lento, M.D.**, professor of pathology, microbiology and immunology and of medicine; published "Measuring the Efficacy of Pathology Career Recruitment Strategies in US Medical Students" in the *Archives of Pathology & Laboratory Medicine*.

**Edward Lebovics, M.D.**, professor of medicine, published "Part 1: Disease of the Heart and Liver A Relationship That Cuts Both Ways" in *Cardiology in Review*.

**Danielle Maraia**, SOM Class of 2024; **Steven Hemmerdinger, M.D.**, assistant professor of otolaryngology; **Hasit Mehta, M.D.**, clinical associate professor of radiology, neurology and of neurosurgery; **Sana Ali, M.D.**, clinical assistant professor of radiology; **Javin Schefflein, M.D.**, clinical assistant professor of radiology; and **Maynard High, Ph.D.**, associate professor of radiology; published "Dual-layer spectral CT virtual-non-contrast images aid in parathyroid adenoma analysis and radiation dose reduction: confirmation of findings from dual CT" in *Clinical Imaging*.

**Jerry Nadler, M.D.**, SOM dean and professor of pharmacology and of medicine, published "Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation" in *Nature Genetics*.

**Srihari Naidu, M.D.**, professor of medicine, published "Outcomes of rotational atherectomy followed by cutting balloon versus plain balloon before drug-eluting stent implantation for calcified coronary lesions: A meta-analysis" in *Catheterization and Cardiovascular Interventions*.

**John Pinto, Ph.D.**, professor of biochemistry and molecular biology and of medicine; and **Arthur Cooper, Ph.D., D.Sc.**, published "The metabolic importance of the glutaminase II pathway in normal and cancerous cells" in *Analytical Biochemistry*.

**Xiao Lei Zhang, M.D., Ph.D.**, research assistant professor of cell biology and anatomy; and **Patric Stanton, Ph.D.**, professor of cell biology and anatomy and of neurology; published "Extracellular application of the N-methyl-D-aspartate receptor allosteric modulator rapastinel acts remotely to regulate Ca<sup>2+</sup> inactivation at an intracellular locus" in *NeuroReport*.

**Allison Zhong, M.D. '22**; **Anaz Uddin**, SOM Class of 2025; **Eric Feldstein, M.D. '21**; **Joon Yong Chung**, SOM Class of 2024; **Maziyah Ogarro**, SOM Class of 2024; **Rebecca Friedman**, SOM Class of 2024; **Josh Simmons**, SOM Class of 2024; **Gillian Graifman**, SOM Class of 2024; **Christeena Kurian, M.D.**, clinical assistant professor of neurology; **Gurmeen Kaur, M.B.B.S.**, assistant professor of neurology and of neurosurgery; **Stephan Mayer, M.D.**, professor of neurology and of neurosurgery; **Chirag Gandhi, M.D.**, professor and chair of Department of Neurosurgery; professor of neurology and of radiology; and **Fawaz Al-Mufti, M.D.**, assistant dean for graduate medical education research and associate professor of neurology, neurosurgery and of radiology; published "Transcarotid Access for Mechanical Thrombectomy in Acute Ischemic Stroke: A Meta-Analysis and Systematic Review" in the *Journal of Stroke & Cerebrovascular Diseases*.



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