

CUMC CELEBRATES

ACADEMIC YEAR 2017-18 | ISSUE 2

CUMC CELEBRATES acknowledges faculty, staff, and students at Columbia University Medical Center who receive major research grants, who earn prestigious honors, who are elected to honorary societies, or who take leadership positions in professional organizations. Celebrates also gratefully acknowledges the gifts made by donors and friends of the Medical Center and highlights faculty who have appeared in the news recently. If you have an award or honor that you would like to have listed in Celebrates, please fill out this [online form](#). Please note: All federal grants are automatically included based on institutional data provided by Sponsored Projects Administration. For more information, send an [e-mail](#) to the Celebrates editor.

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SPECIAL CONGRATULATIONS

Joachim Frank, PhD, Biochemistry & Molecular Biophysics, was one of three researchers to receive the [2017 Nobel Prize in Chemistry](#) for developing cryo-electron microscopy. Dr. Frank devised methods that turn thousands of fuzzy two-dimensional electron microscopy images into a finely detailed three-dimensional representation.

RESEARCH GRANTS

\$250,000 and above

COLLEGE OF PHYSICIANS & SURGEONS

Larry Abbott, PhD, **Liam Paninski**, PhD, **Kenneth Miller**, PhD, and **Stefano Fusi**, PhD, Neuroscience, will receive \$3,040,000 over two years from the National Science Foundation for "[NeuroNex Theory Team: Columbia University Theoretical Neuroscience Center](#)."



Domenico Accili, MD, Medicine, will receive \$2,004,400 over four years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[Mechanisms of Beta Cell Failure](#)” in a competitive renewal.

Swarnali Acharyya, PhD, Institute for Cancer Genetics, will receive \$450,000 over three years from the Susan G. Komen Breast Cancer Foundation for “Immune Regulation of Triple-Negative Breast Cancer Metastasis” and \$400,000 over two years from the U.S. Army for “Targeting Immune Microenvironment Interactions in Lung Cancer Metastasis.”

Dritan Agalliu, PhD, and **Tyler Cutforth**, PhD, Neurology, will receive \$2,101,697 over four years from the National Institute of Mental Health for “[Cellular and Humoral Immune Mechanisms Underlying Neurovascular Dysfunction in Autoimmune Encephalitis](#).”

Danielle Ahn, MD, Pediatrics, will receive \$664,848 over four years from the National Heart, Lung, and Blood Institute for “[Host-Pathogen Interactions That Promote Carbapenem-Resistant *Klebsiella pneumoniae* Pulmonary Infection](#).”

Brett R. Anderson, MD, Pediatrics, will receive \$571,633 over three years from the National Heart, Lung, and Blood Institute for “[The Congenital Heart Technical Skill Study: Improving Outcomes for Infants and Children with Congenital Heart Disease](#).”

Mark Ansorge, PhD, Psychiatry, will receive \$2,285,591 over five years from the National Institute of Mental Health for “[Serotonergic Modulation of Hippocampal Function](#)” and \$870,678 over three years from the U.S. Army for “Defining the Role of the 5-HT4 Receptor in the Brain, Behavior, and Gut Abnormalities Resulting From *In Utero* SSRI Exposure.”

Estela Area Gomez, PhD, Neurology, will receive \$1,760,000 over five years from the National Institute on Aging for “[Role of C99 in the Regulation of Lipid Metabolism—Relevance to Alzheimer’s Disease](#).”

Richard Axel, MD, Neuroscience, will receive \$1,000,000 over five years from the Simons Foundation for “[The Representation of Internal State in the Fly Brain](#)” and \$375,288 over three years from the Simons Foundation for “Simons Society of Fellows.”

Luke Berchowitz, PhD, Genetics & Development, will receive \$1,990,125 over five years from the National Institute of General Medical Sciences for “[Elucidation of Regulation and Function of Amyloid-Like Assemblies](#).”

Jahar Bhattacharya, MD, DPhil, Medicine, will receive \$2,550,096 over four years from the National Heart, Lung, and Blood Institute for “[Novel Mechanisms of Alveolar Inflammation](#)” in a competitive renewal.

Adam Bisaga, MD, Psychiatry, will receive \$423,225 over two years from the National Institute on Drug Abuse for “[A Strategy to Improve Success of Treatment Discontinuation in Buprenorphine Responders](#).”



Alan S. Brown, MD, Psychiatry, will receive \$452,252 over one year from the U.S. Department of Defense for “Developmental Pathways and Autism Spectrum Disorders.”

Patrick Brown, PhD, and **Bret Rutherford**, MD, Psychiatry, will receive \$1,716,628 over five years from the National Institute of Mental Health for “[2/5 Neurocognitive and Neuroimaging Biomarkers: Predicting Progression Towards Dementia in Patients With Treatment-Resistant Late-Life Depression.](#)”

Nigel Bunnett, PhD, Surgery, will receive \$1,750,000 over five years from the National Institute of Neurological Disorders and Stroke for “[Endosomal Platforms for Neuropeptide Receptor Signaling.](#)”

Andrea Califano, PhD, Systems Biology, will receive \$5,268,898 over five years from the National Cancer Institute for “[Systematic Identification and Pharmacological Targeting of Tumor Dependencies for Precision Cancer Medicine.](#)”

Aimee Campbell, PhD, Psychiatry, will receive \$686,647 over three years from the National Institute on Drug Abuse for “[Web-Based Addiction Treatment: Cultural Adaptation with American Indians.](#)”

Peter Canoll, MD, PhD, **Peter Sims**, PhD, and **Jeffrey Bruce**, MD, Pathology & Cell Biology, will receive \$1,741,890 over five years from the National Institute of Neurological Disorders and Stroke for “[Single-Cell Analysis of the Infiltrative Margins of Glioblastoma and Post-treatment Recurrence.](#)”

Angela Christiano, PhD, Dermatology, will receive \$638,445 over two years from the National Center for Advancing Translational Sciences for “[Preclinical Evaluation of Vorinostat in Alopecia Areata.](#)”

Adi Cohen, MD, Medicine, will receive \$1,933,106 over five years from the Food & Drug Administration for “[Pregnancy- and Lactation-Associated Osteoporosis: Bone Microstructure and Metabolism, Genotypic Characteristics, Natural History, and Biomarkers of Disease Severity.](#)”

Stephanie Cosentino, PhD, Sergievsky Center, will receive \$1,988,000 over five years from the National Institute on Aging for “[Task-Specific and Person-Specific Factors Related to Subjective Cognitive Decline.](#)”

Vivette D. D’Agati, MD, Pathology & Cell Biology, will receive \$830,625 over five years from the Baylor College of Medicine–Houston for “Long-Term Consequences of HIV in the Kidney.”

Zhenpeng Dai, PhD, Dermatology, will receive \$630,045 over five years from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for “[Functional Studies of the IL-7/IL-7R Pathway in Alopecia Areata.](#)”



Elias Dakwar, MD, Psychiatry, will receive \$2,485,938 over four years from the National Institute on Drug Abuse for “[Glutamatergic Modulation to Facilitate Naltrexone Initiation: A Randomized, Controlled Trial.](#)”

Karina Davidson, PhD, Medicine, will receive \$6,698,218 over five years from the National Library of Medicine for “[Re-engineering Precision Therapeutics Through N-of-1 Trials.](#)”

Philip De Jager, MD, PhD, Neurology, will receive \$293,250 over two years from the Foundation for the National Institutes of Health for “Monocyte Transcriptomic RNAseq Data and Serum Metabolomic Analyses in ROSMAP.”

Davangere Devanand, MBBS, MD, Psychiatry, will receive \$3,719,003 over five years from the National Institute on Aging for “[Cognitive Training and Neuroplasticity in Mild Cognitive Impairment.](#)”

Cristiane Duarte, PhD, Psychiatry, will receive \$387,431 over five years from the National Institute of Mental Health for “[PRIDE SSA – Partnerships in Research to Implement and Disseminate Sustainable and Scalable Evidence-Based Practices in Sub-Saharan Africa.](#)”

Karen Duff, PhD, and **Natura Myeku**, PhD, Taub Institute, will receive \$300,000 over three years from the BrightFocus Foundation for “[Tau Propagation and Proteasome-Mediated Clearance.](#)”

Suzette Evans, PhD, and **Richard Foltin**, PhD, Psychiatry, will receive \$3,092,925 over five years from the National Institute on Drug Abuse for “[Antecedents and Consequences of Cocaine Taking: Impact of Oxytocin.](#)”

Donna Farber, PhD, Medicine, will receive \$480,916 over two years from Bristol-Myers Squibb Research and Development for “Tissue Immune Responses in the Human Pancreas.”

Adolfo Ferrando, MD, PhD, Institute for Cancer Genetics, will receive \$6,609,333 over seven years from the National Cancer Institute for “[Molecular Pathways and Targeted Therapies in Human Leukemia](#)”; \$1,913,316 over five years from the National Cancer Institute for “[Molecular Characterization and Targeting of NT5C2 Mutations in Acute Lymphoblastic Leukemia](#)”; and \$250,000 over two years from Alex’s Lemonade Stand Foundation for “[Targeting Metabolic Vulnerabilities in ETP-ALL.](#)”

Hongjun Fu, PhD, Taub Institute, will receive \$630,045 over five years from the National Institute on Aging for “[Investigating the Vulnerability of WFS1-Expressing Excitatory Neurons to Tau Pathology in Early Alzheimer’s Disease.](#)”



Joseph Gogos, MD, PhD, Physiology & Cellular Biophysics, will receive \$3,389,995 over five years from the National Institute of Mental Health for “[MicroRNA Dysregulation in Psychiatric Disorders and Cognitive Dysfunction](#)” in a competitive renewal; \$2,752,838 over five years from the National Institute of Mental Health for “[Deciphering the Role of Histone Methyltransferase SETD1A in Schizophrenia Susceptibility](#)”; and \$2,000,000 over five years from the National Institute of Mental Health for “[Identifying Treatment Targets: Exploring and Exploiting Neural Mechanisms of Cognitive Deficits in the 22q11.2 Microdeletion](#)” in a competitive renewal.

Ragy Girgis, MD, Psychiatry, will receive \$3,039,608 over five years from the National Institute of Mental Health for “[The Neurobiology of Violence in a Psychosis-Risk Cohort.](#)”

Nancy Green, MD, Pediatrics, will receive \$266,206 over one year from the National Heart, Lung, and Blood Institute for “[The Pro-Inflammatory Effects of Acute Exercise in Children with Sickle Cell Anemia.](#)”

Kara Gross Margolis, MD, Pediatrics, will receive \$1,242,869 over three years from the U.S. Army for “Defining the Role of the 5-HT4 Receptor in the Brain, Behavior, and Gut Abnormalities Resulting From *In Utero* SSRI Exposure.”

George Hripcsak, MD, Biomedical Informatics, will receive \$3,366,311 over five years from the National Library of Medicine for “[Training in Biomedical Informatics at Columbia University](#)” in a competitive renewal and \$500,000 over two years from Johnson & Johnson for “Development and Maintenance of the OMOP Common Data Model and Vocabulary Standards.”

Sanja Jelic, MD, Medicine, will receive \$1,814,896 over three years from the National Heart, Lung, and Blood Institute for “[Vascular Endothelial Activation in Sleep Apnea.](#)”

Thomas Jessell, PhD, Biochemistry & Molecular Biophysics, will receive \$300,000 over five years from the Simons Foundation for “[Leveraging Dynamical Smoothness to Predict Motor Cortex Population Activity.](#)”

Minoree Kohwi, PhD, Neuroscience, will receive \$1,693,163 over five years from the National Institute of Child Health and Human Development for “[Regulation of Neural Progenitor Competence.](#)”

Judith Korner, MD, PhD, Medicine, will receive \$2,877,066 over five years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[Metabolic and Endocrine Effects of Bariatric Surgery](#)” in a competitive renewal.

Rita Kukafka, DrPH, Biomedical Informatics, will receive \$1,042,500 over three years from the American Cancer Society for “Decision Support for BRCA Testing in Ethnically Diverse Women.”



Laura Landweber, PhD, Biochemistry & Molecular Biophysics, will receive \$3,635,726 over five years from the National Institute of General Medical Sciences for “[Understanding Complex Gene Editing Systems and RNA Biology in *Oxytricha*](#).”

Tuuli Lappalainen, PhD, Systems Biology, will receive \$437,133 over five years from the National Institute of General Medical Sciences for “[Regulatory Modifiers of Coding Variant Penetrance via Haplotype Epistasis in Human Populations and Diseases](#).”

Victoria Leavitt, PhD, Sergievsky Center, will receive \$389,210 over five years from the National Multiple Sclerosis Society for “[Cognitive Rehabilitation in MS: From Neuroscience to Clinical Practice](#).”

Teresa Lee, MD, Pediatrics, will receive \$738,048 over four years from the National Heart, Lung, and Blood Institute for “[Identification and Functional Analysis of Novel Infantile Cardiomyopathy Genes](#).”

Amir Levine, MD, Psychiatry, will receive \$264,642 over one year from the National Institute on Drug Abuse for “[Consequences of Nicotine Exposure on Dopamine D2 Binding in Adolescence and Adulthood. An *in vivo* Positron Emission Tomography \(PET\) Study in Rats](#).”

Ronald K. Liem, PhD, Pathology & Cell Biology, will receive \$260,427 over two years from the Charcot-Marie-Tooth Association for “Reversal of Neurofilamentous Accumulations for Treatment of CMT2E.”

Jose Luchsinger, MD, Medicine, will receive \$7,351,833 over five years from the National Institute on Aging for “[Are There Ethnic Differences in Brain Amyloid and Tau in the Seventh Decade of Life?](#)”

Tom Maniatis, PhD, and **Lawrence Shapiro**, PhD, Biochemistry & Molecular Biophysics, will receive \$2,400,470 over five years from the National Institute of Mental Health for “[The Structural Basis of *Cis* and *Trans* Protocadherin Interactions](#)” in a competitive renewal.

Joanne Mantell, PhD, Psychiatry, will receive \$376,756 over two years from the National Institute of Mental Health for “[ARV-Based Prevention and Treatment in High-Risk Women in Durban, South Africa](#).”

Steven Marx, MD, Medicine, will receive \$526,567 over one year from the National Heart, Lung, and Blood Institute for “[Calmodulin Regulation of Na⁺ Channels in Neurons and Cardiomyocytes](#).”

Richard P. Mayeux, MD, Sergievsky Center, will receive \$8,624,437 over five years from the National Institute on Aging for “[The National Institute on Aging \(NIA\) Late Onset of Alzheimer’s Disease \(LOAD\) Family-Based Study \(FBS\)](#).”



Cathy Lee Mendelsohn, PhD, Urology, will receive \$2,454,373 over five years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[Retinoic Acid Signaling Controls Urothelial Development and Regeneration](#)” in a competitive renewal.

Sumit Mohan, MD, Medicine, will receive \$1,200,000 over five years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[Increasing Minority Population Awareness Through Community Teaching for Improved Organ Donation \(IMPACT for Improved Organ Donation\)](#).”

Catherine Monk, PhD, Psychiatry, will receive \$3,143,709 over five years from the National Institute of Child Health and Human Development for “[Preventing Postpartum Depression: A Dyadic Approach Adjunctive to Obstetric Care](#).”

Prabhjot Mundi, MD, Systems Biology, will receive \$415,047 over four years from the CureSearch National Childhood Cancer Foundation for “[Integrative Analysis to Identify New Therapies for Pediatric Sarcoma](#).”

Natura Myeku, PhD, Taub Institute, will receive \$622,555 over five years from the National Institute on Aging for “[Receptor-Mediated Clearance of Synaptic Tau as a Novel Therapy for Alzheimer’s Disease](#).”

Owen O’Connor, MD, PhD, Medicine, will receive \$309,076 over one year from Spectrum Pharmaceuticals for “A Study to Identify Biomarkers Associated With the Activity of Pralatrexate in Hematological Malignancy.”

Edward Owusu-Ansah, PhD, Physiology & Cellular Biophysics, will receive \$2,000,000 over five years from the National Institute of General Medical Sciences for “[Identifying Remote Regulators of Complex I Biogenesis in *Drosophila*](#).”

Arthur Palmer III, PhD, Biochemistry & Molecular Biophysics, will receive \$925,000 over one year from the Office of the NIH Director for “[475-MHz NMR Spectrometer](#).”

Dane Parker, PhD, Pediatrics, will receive \$1,600,000 over four years from the National Heart, Lung, and Blood Institute for “[Role of Type III Interferons in *Staphylococcus aureus* Respiratory Tract Infection](#).”

F. Xavier Pi-Sunyer, MD, Medicine, will receive \$1,141,256 over five years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[Obesity Research Center Training Grant](#)” in a competitive renewal.

Muredach Reilly, MBBCh, Medicine, will receive \$2,772,354 over four years from the National Heart, Lung, and Blood Institute for “[Human lincRNAs in Macrophage Biology and Related Cardiometabolic Diseases](#).”



Bret Rutherford, MD, Psychiatry, will receive \$4,684,917 over five years from the National Institute of Mental Health for “[Cognitive and Neural Mechanisms of the Accelerated Aging Phenotype in PTSD.](#)”

C. Daniel Salzman, MD, PhD, Neuroscience, will receive \$1,250,000 over five years from the Simons Foundation for “[Neural Mechanisms of Context-Dependent Cognitive Behavior.](#)”

Eric Schon, PhD, Neurology, will receive \$254,610 over one year from IP University Holdings I for “Approaches to Diagnosis and Treatment of Alzheimer Disease.”

Yufeng Shen, PhD, Systems Biology, will receive \$1,664,168 over five years from the National Institute of General Medical Sciences for “[Integrate Cancer Genomics Data in Genetic Studies and Diagnosis of Developmental Disorders](#)” and \$320,000 over two years from the National Heart, Lung, and Blood Institute for “[Genetic Analysis of Structural Birth Defects by Integration of Multiple Diseases with Epigenomic Data and Cancer Mutations.](#)”

H. Blair Simpson, MD, PhD, and Melanie Wall, PhD, Psychiatry, will receive \$3,423,601 over five years from the National Institute of Mental Health for “[Identifying Reproducible Brain Signatures of Obsessive-Compulsive Profiles.](#)”

Scott Small, MD, Taub Institute, will receive \$1,359,897 over two years from the National Institute of Mental Health for “[Glutamate-Reducing Interventions in Schizophrenia.](#)”

Hans-Willem Snoeck, MD, PhD, Medicine, will receive \$1,958,615 over five years from the National Institute on Aging for “[Mitochondrial Maintenance Mechanisms of Stem Cells and Aging.](#)”

Yaakov Stern, PhD, Taub Institute, will receive \$5,337,936 over five years from the National Institute on Aging for “[Predictors of Severity in Alzheimer’s Disease](#)” in a competitive renewal.

Megan Sykes, MD, and **David Sachs**, MD, Medicine, will receive \$12,531,684 over four years from the National Institute of Allergy and Infectious Diseases for “[A Tolerance Approach to Xenotransplantation](#)” in a competitive renewal. Dr. Sykes also will receive \$10,327,026 over five years from the National Institute of Allergy and Infectious Diseases for “[Regulatory T Cells to Promote Mixed Chimerism for Tolerance to Islets and Kidneys From Deceased and Living Donors.](#)”

Alan Tall, MD, Medicine, will receive \$2,039,944 over four years from the National Heart, Lung, and Blood Institute for “[Mechanisms Linking LNK Genetic Variation to Atherothrombosis.](#)”

Nicholas Tatonetti, PhD, Biomedical Informatics, will receive \$323,000 over one year from Amgen for “Assessing Genetic Susceptibility to Drug-Induced Liver Injury Through Mining of Electronic Health Records.”



Susan Tross, PhD, Psychiatry, will receive \$377,394 over two years from the National Institute of Mental Health for “[Leveraging Ancillary Service Staff to Support HIV Care and Treatment Adherence.](#)”

Harris Wang, PhD, Systems Biology, will receive \$500,000 over five years from the Burroughs Wellcome Fund for “Mapping Host-Microbe and Inter-microbial Networks at Ultra-High Spatial Resolution.”

Timothy C. Wang, MD, Medicine, will receive \$1,440,000 over four years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[The Function and Regulation of Histidine Decarboxylase in Gut Inflammation](#)” in a competitive renewal. Dr. Wang and **Paul Oberstein**, MD, Medicine, will receive \$300,000 over two years from the Pancreatic Cancer Action Network for “[Targeting Cholinergic Receptors to Suppress Pancreatic Cancer.](#)”

Sharon Wardlaw, MD, Medicine, will receive \$1,634,118 over three years from the National Institute of Diabetes and Digestive and Kidney Diseases for “[CSF Neuropeptide, Hormonal, and Metabolomic Analysis in Human Energy.](#)”

Gail Wasserman, PhD, Psychiatry, will receive \$3,219,503 over five years from the National Institute of Mental Health for “[e-Connect: A Service System Intervention for Justice Youth at Risk for Suicide.](#)”

Priya Wickramaratne, PhD, Psychiatry, will receive \$789,693 over four years from the National Institute of Mental Health for “[Three Generations at High and Low Risk for Depression Followed Longitudinally.](#)”

Arthur Williams, MD, Psychiatry, will receive \$980,896 over five years from the National Institute on Drug Abuse for “[Improving the Treatment Cascade of MAT Initiation and Retention for Opioid Use Disorder.](#)”

S. Zev Williams, MD, PhD, Obstetrics & Gynecology, will receive \$640,138 over one year from the National Cancer Institute for “[Definition of Serum Ribonucleoprotein Composition and its Regulation and Function.](#)”

Kelley Yan, MD, PhD, Medicine, will receive \$510,000 over three years from the Burroughs Wellcome Fund for “Career Awards for Medical Scientists.”

Zhiguo Zhang, PhD, Institute for Cancer Genetics, will receive \$1,841,744 over five years from the National Cancer Institute for “[The Epigenetic Mechanisms of High-Grade Pediatric Glioblastoma.](#)”

Emmanuel Zorn, PhD, Medicine, will receive \$2,350,000 over five years from the National Institute of Allergy and Infectious Diseases for “[Development and Significance of the Plasma Cell Niche in the Human Infant Thymus.](#)”



MAILMAN SCHOOL OF PUBLIC HEALTH

Wafaa M. El-Sadr, MD, ICAP, will receive \$398,066 over one year from the National Institute of Allergy and Infectious Diseases for “[HIV Prevention Trials Network \(HPTN\) 084: A Phase 3 Double-Blind Safety and Efficacy Study of Long-Acting Injectable Cabotegravir Compared to Daily Oral TDF/FTC for Pre-exposure Prophylaxis in HIV-Uninfected Women.](#)”

Deborah Hasin, PhD, Epidemiology, will receive \$2,194,942 over five years from the National Institute on Drug Abuse for “[Substance Abuse Epidemiology Training Program \(SAETP\) at Columbia University](#)” in a competitive renewal.

Mady Hornig, MD, Center for Infection & Immunity, will receive \$2,111,268 over five years from the National Institute of Child Health and Human Development for “[Infection, Fever, and Immunity and Offspring ADHD in a Population-Based Pregnancy/Birth Cohort.](#)”

Darby Jack, PhD, Environmental Health Sciences, will receive \$2,643,087 over five years from the National Institute of Environmental Health Sciences for “[Child Lung Development Following a Cookstove Intervention: Evidence From GRAPHS.](#)”

Katherine Keyes, PhD, Epidemiology, will receive \$272,846 over five years from the National Institute on Drug Abuse for “[Monitoring the Future: Drug Use and Lifestyles of American Youth](#)” in a competitive renewal.

Terry McGovern, JD, **Lynn Freedman**, JD, and **Latanya Mapp Frett**, JD, Population & Family Health, will receive \$1,000,001 over two years from the William & Flora Hewlett Foundation for “Assessing the Impact of the Expanded Global Gag Rule.”

Alfred Neugut, MD, PhD, and **Mary Beth Terry**, PhD, Epidemiology, will receive \$1,198,437 over five years from the National Cancer Institute for “[Training Program in Cancer-Related Population Sciences](#)” in a competitive renewal.

Miriam Rabkin, MD, and **Paul Thurman**, ICAP, will receive \$700,000 over two years from the U.S. Agency for International Development for “USAID/MSPH/ISCISA Management Education Partnership.”

Andrew Rundle, DrPH, Epidemiology, will receive \$322,479 over two years from the National Institute of Child Health and Human Development for “[Data Integration and Advanced Statistical Modeling to Describe and Control Pediatric Pedestrian Injuries in the United States.](#)”

Yuanjia Wang, PhD, Biostatistics, will receive \$1,387,715 over four years from the National Institute of Neurological Disorders and Stroke for “[Statistical Methods for Early Disease Prediction and Treatment Strategy Estimation Using Biomarker Signatures.](#)”

COLLEGE OF DENTAL MEDICINE



Joseph McManus Jr., DMD, Population Oral Health, will receive \$250,000 over five years from the New York State Department of Health for “Preventive Dental Services.”

Angela Yoon, DDS, Hospital Dentistry, will receive \$1,368,000 over four years from the National Institute of Dental and Craniofacial Research for “[MicroRNA-Based Prognostic Model for Early-Stage Oral Cancer Patients.](#)”

SCHOOL OF NURSING

Jean-Marie Bruzzese, PhD, Scholarship & Research, will receive \$3,620,591 over five years from the National Heart, Lung, and Blood Institute for “[Translating an Evidence-Based Urban Asthma Program for Rural Adolescents: Testing Effectiveness and Cost-Effectiveness and Understanding Factors Associated With Implementation.](#)”

Lusine Poghosyan, PhD, Scholarship & Research, will receive \$2,558,012 over four years from the National Institute on Minority Health and Health Disparities for “[Racial and Ethnic Disparities in Chronic Disease Outcomes and Nurse Practitioner Practice.](#)”



AWARDS & HONORS

CUMC

Provost Leadership Fellows Program

The Provost Leadership Fellows Program is designed for faculty members at Columbia who seek to complement their research and scholarly activities with administrative and leadership responsibilities. Six CUMC faculty members were selected for the [2017-19 cohort](#).

- **Henry Colecraft**, PhD, Physiology & Cellular Biophysics
- **Roseanna Graham**, DDS, PhD, Operative Dentistry
- **Ana Navas-Acien**, MD, PhD, Environmental Health Sciences
- **Arlene Smaldone**, PhD, Nursing Scholarship & Research
- **Melissa Stockwell**, MD, Pediatrics
- **Gina Wingood**, ScD, Sociomedical Sciences

COLLEGE OF PHYSICIANS & SURGEONS

Stephen Balter, PhD, Radiology, received the [Marvin M.D. Williams Professional Achievement Award](#) from the American Association of Physicians in Medicine in recognition of significant contributions to the field of medical physics.

Fred Bomback, MD, Pediatrics, received the Babies Hospital Distinguished Alumnus Award.

Sandhya Brachio, MD, Pediatrics, was named an [AAP-VON Scholar](#) by the American Academy of Pediatrics and Vermont Oxford Network. The award recognizes leaders and emerging leaders in the care of high-risk infants.

Julie Canman, PhD, Pathology & Cell Biology, received the [2017 Women in Cell Biology Junior Award for Excellence in Research](#) from the American Society for Cell Biology. The award recognizes early-career women for contributions to cell biology research, research program development, and scientific and leadership potential.

D. Jackson Coleman, MD, Ophthalmology, delivered the Kressig Lecture, “Macular Degeneration and Treatment of the Ischemia of the Choroid,” at the annual EuRetina conference in September.

Micaela dos Santos Cunha, PhD, Center for Radiological Research, is one of four early-career scientists to be awarded a [2017 fellowship](#) by the Translational Research Institute for Space Health for the project “A Mechanistic Framework to Assess the Efficacy of Aspirin and Other Radioprotectors to Reduce Carcinogenesis by Space Radiations.”

Silvia Cunto-Amesty, MD, Medicine, received a [Fulbright Flex Award](#) from the Fulbright



Foundation to study the prevalence of sexually transmitted infections in key populations in the Dominican Republic.

Amanda Doran, MD, PhD, Medicine, received the [2017-18 Glorney-Raisbeck Fellowship Award in Cardiovascular Diseases](#) from the New York Academy of Medicine for the project “CaMKII γ in Advanced Atherosclerosis and Insulin Resistance.” Dr. Doran also received a 2017 Fellow-to-Faculty Transition Award from the American Heart Association for “A Novel Multifunctional Role for CaMKII γ in Advanced Atherosclerosis.”

Jeffrey A. Geller, MD, Orthopedic Surgery, was elected a [member](#) of the Knee Society, one of the highest honors for orthopedic surgeons specializing in knee replacement and reconstruction.

Madelyn Gould, PhD, Psychiatry, was elected co-chair of the National Representatives of the International Association of Suicide Prevention.

Deepak Gupta, MD, **Devin Hall**, MD, **Lan Luo**, MD, and **Sarah O’Shea**, MD, Neurology, were awarded [2017 clinical training fellowships](#) by the Parkinson’s Disease Foundation.

Tom K. Hei, PhD, Radiation Oncology, received the [Distinguished Alumni Award for Professional Achievement](#) from the University of Wisconsin–Whitewater.

Yong Hu, MD, PhD, Neurology, was awarded a [Parkinson’s Foundation-APDA summer student fellowship](#) for the project “Modulating SNr Neuronal Activity in PD and LID.”

Ian Kronish, MD, Medicine, was elected a fellow of the Academy of Behavioral Medicine Research in recognition of his contributions to the field of behavioral medicine.

Bianca Jones Marlin, PhD, Neuroscience, was named a [2017 STAT Wunderkind](#).

Philip Meyers, MD, Neurological Surgery, was inducted into the [inaugural class of fellows](#) of the Society of NeuroInterventional Surgery.

Siddhartha Mukherjee, MD, DPhil, Medicine, delivered a featured lecture, “Dialogues Between Neuroscience and Society,” at the 2017 Society for Neuroscience annual meeting in November.

Catherine Nicholas’20 received a [2017 David E. Rogers Student Fellowship Award](#) from the New York Academy of Medicine for the project “Assessment of Risk Factors for Sexually Transmitted Infections in High-Risk Communities in Santo Domingo and La Romana, Dominican Republic; The EPIC Study.”

K. Daniel Riew, MD, Orthopedics, received the [2017 Leon Wiltse Award](#) from the North American Spine Society in recognition of excellence in leadership and clinical research in spine care.

Reginaldo Ross, Institute of Comparative Medicine, received the Laboratory Animal Technician



Award from the Metropolitan NY Branch of the American Association for Laboratory Animal Science.

Jeremy Veenstra-VanderWeele, MD, Psychiatry, was one of 12 new members appointed to the [Brain & Behavior Research Foundation's Scientific Council](#).

Christopher Kevin Wong, PhD, Rehabilitation & Regenerative Medicine, received the American Physical Therapy Association's [2017 NEXT Research Abstract Special Recognition Award](#) in the orthopedics category for the project "Left-Right Limb Recognition Ability in People with Limb Loss: A Clinical Measure for Phantom Limb Pain."

MAILMAN SCHOOL OF PUBLIC HEALTH

Ana Abraido-Lanza, PhD, Sociomedical Sciences, received the 2017 [Student Assembly Public Health Mentoring Award](#) from the American Public Health Association for inspiring students through academic programs during their school years and beyond.

Mushtaque Raza Chowdhury, PhD, Population & Family Health, will receive the 2017 Medical Award of Excellence from Ronald McDonald House Charities for his contribution to improving the health and well-being of children.

Joseph Graziano, PhD, Environmental Health Sciences, was appointed by New York Governor Andrew Cuomo to the [Drinking Water Quality Council](#), which will guide New York's actions to ensure all communities in the state have access to clean drinking water.

Cassie Landers, EdD, Population & Family Health, is a senior partner at Maestral International, one of four finalists to receive a \$100 million grant from the MacArthur Foundation's [100&Change competition](#). Maestral is a global leader in supporting the development and strengthening of child protection and social welfare systems for children in adversity.

A prize in honor of **W. Ian Lipkin**, MD, Epidemiology, has been established at Sarah Lawrence College, Dr. Lipkin's alma mater, to encourage the development of creative science projects at the liberal arts college.

Rachel Shelton, ScD, Sociomedical Sciences, is co-editor of a special issue of the journal Health Education & Behavior titled "Advancing the Science of Qualitative Research to Promote Health Equity."

COLLEGE OF DENTAL MEDICINE

Joseph Finkelstein, MD, PhD, Center for Bioinformatics and Data Analytics in Oral Health, delivered a keynote address at the eighth annual IEEE Ubiquitous Computing, Electronics & Mobile Communication Conference in October.



Harvey Nisselson, DDS, Oral, Diagnostic, & Rehabilitation Sciences, was re-elected editor of the New Jersey Dental Association for a 28th annual term at the group's annual session in May.

Fatemeh Momen-Heravi, DDS, PhD, Oral, Diagnostic, & Rehabilitation Sciences, won the American Academy of Periodontology's [Urban competition](#) in the clinical science category.

SCHOOL OF NURSING

Elaine Larson, PhD, Scholarship & Research, was one of five nurse leaders to receive the [designation of "Living Legend,"](#) the American Academy of Nursing's highest honor.

Marie Garcon, DNP, Academics, received the [NP of the Year Award](#) from the Nurse Practitioner Association New York State in recognition of her commitment to providing compassionate care.

Nancy Reame, PhD, Scholarship & Research, received the [Ann Voda Lifetime Achievement Award](#) from the Society for Menstrual Cycle Research.

Cindy Veldhuis, PhD, Scholarship & Research, received the Junior Investigator Award from the Research Society on Alcoholism. Dr. Veldhuis also received the Early Career Psychologist Travel Award, Division 35, Section IV, from the American Psychological Association.



PHILANTHROPIC GIFTS

COLLEGE OF PHYSICIANS & SURGEONS

A donor made a \$2,500,000 contribution to establish a professorship in the Department of Neurology.

A family made a \$1,500,000 pledge to establish a junior professorship in the Department of Orthopedic Surgery and provide operating support to the Weinberg Family Cerebral Palsy Center.

An organization made a \$1,100,000 commitment to advance research and clinical care in non-verbal learning disabilities in the Division of Child & Adolescent Psychiatry.

A family made a \$1,000,000 pledge to the P&S 250th Anniversary Scholarship Campaign to establish a scholarship fund at the College of Physicians & Surgeons.

A donor made a contribution of \$750,000 to the P&S 250th Anniversary Scholarship Campaign to provide scholarship support to the College of Physicians & Surgeons.

A donor made a bequest of \$678,000 to the P&S 250th Anniversary Scholarship Campaign to provide scholarship support to the College of Physicians & Surgeons.

A donor made a \$500,000 commitment to the Division of Cardiology to advance research and medical education related to cardiac precision medicine.

A donor made a \$500,000 commitment to the Department of Medicine to advance pancreatic disease research in the Division of Digestive & Liver Diseases.

A donor made a \$350,000 pledge to the P&S 250th Anniversary Scholarship Campaign to establish a scholarship fund at the College of Physicians & Surgeons.

An organization made a \$337,500 gift to the Department of Ophthalmology to advance low-vision care, medical education, and research data sharing.

A donor made a \$250,000 gift to the Department of Ophthalmology to advance research in age-related macular degeneration.

A donor made a \$250,000 pledge to the P&S 250th Anniversary Scholarship Campaign to establish a scholarship fund at the College of Physicians & Surgeons.

A donor made a \$200,000 contribution to the Department of Medicine to advance research, education, and clinical care in the Division of Cardiology.



A donor made a \$150,000 commitment to support the Chairman's Frontier Fund in the Department of Psychiatry.

A donor made a \$131,360 gift to the P&S 250th Anniversary Scholarship Campaign to provide scholarship support to the College of Physicians & Surgeons.

A bequest of \$123,980 was realized to advance research at the Taub Institute for Research on Alzheimer's Disease and the Aging Brain.

A corporate foundation made a \$100,000 pledge to advance research in the Division of Pediatric Cardiology.

A family made a \$100,000 pledge to the Center for Lymphoid Malignancies to advance research and care for lymphoma and other hematological cancers.

A donor made a \$100,000 pledge to the Pancreas Center to advance research in pancreatic cancer.

A donor made a \$100,000 gift to the Department of Medicine to advance research, education, and clinical care in the Division of Cardiology.

A donor made a gift of \$100,000 to the P&S 250th Anniversary Scholarship Campaign to establish a scholarship fund at the College of Physicians & Surgeons.

A corporate foundation made a contribution of \$100,000 to support scholarships at the College of Physicians & Surgeons.

A donor made a \$100,000 contribution to the IFAP Global Health Program at Columbia University Medical Center.

A donor made a gift of \$100,000 to the Department of Surgery to advance pancreatic cancer research.

A donor made a \$100,000 contribution to advance clinical research and care in the Department of Obstetrics & Gynecology.

A donor made a \$100,000 contribution to advance neurodegenerative disease research at the Taub Institute for Research on Alzheimer's Disease and the Aging Brain.

SCHOOL OF NURSING

An alumnus of the School of Nursing documented her bequest intention of \$1,000,000 to support the new Columbia Nursing building.



CUMC IN THE NEWS

[Scalpel, Sponge, Show Tunes: When Doctors Moonlight as Actors](#)

The New York Times | Oct. 18, 2017

Mid-chest would have been just as suitable a descriptor, but dropping anatomical references in design discussions is standard practice for the Bard Hall Players, as every member in the troupe is studying to join the medical profession. The student-run theater company at Columbia University's College of Physicians and Surgeons was preparing for its production of "Into the Woods," the Stephen Sondheim/James Lapine riff on classic children's fairy tales.

[Most Consumers Unaware of Dangers in Mixing Alcohol and Common Drugs](#)

Healthline | Oct. 16, 2017

"Alcohol, a central nervous system depressant, has the potential to negatively interact with virtually all classes and types of medications, from OTC supplements or herbs to prescriptions," said Dr. Stephen Ferrara, RN, a family nurse practitioner and an associate dean of clinical affairs and assistant professor at the Columbia University School of Nursing.

[Nobel Prize in Chemistry Awarded for 3D Views of Life's Biological Machinery](#)

The New York Times | Oct. 4, 2017

*The winners are Jacques Dubochet, a retired biophysicist at the University of Lausanne in Switzerland; **Joachim Frank**, a professor at Columbia University in New York; and Richard Henderson, a scientist at the British Medical Research Council's Laboratory of Molecular Biology in Cambridge, England.*

[Report Finds Gaps in Access to Opioid Addiction Help on Staten Island](#)

The New York Times | Sept. 25, 2017

The report, which was distributed last week, was a model for multidisciplinary needs-assessment projects on opioid addiction and recovery, said Dr. Silvia Martins, an associate professor of epidemiology at Columbia's Mailman School of Public Health.

[Here's What You Should Know About Those Mail-In Braces Programs](#)

Refinery29 | Aug. 11, 2017

Invisible aligners aren't always as effective as standard braces, though they generally produce positive results to patients using them under medical supervision, says Sunil Wadhwa, DDS, PhD, associate professor of dental medicine and director in the division of orthodontics at the Columbia University Medical Center.



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