

### **Speaker Biographies\***



**Howard Bauchner, MD** was appointed the 16<sup>th</sup> Editor in Chief of JAMA and The JAMA Network in 2011. Prior to coming to JAMA, Howard was a Professor of Pediatrics and Public Health at Boston University School of Medicine and Editor in Chief of Archives of Disease in Childhood (2003-2011). At BUSM he was Vice-Chair of Research for the Department of Pediatrics and Chief, Division of General Pediatrics. He is a member of the National Academy of Medicine (formerly the Institute of Medicine) and an honorary fellow of the Royal College of Paediatrics and Child Health, United Kingdom.

At JAMA Howard has focused on improving and expanding clinical content, using electronic/digital approaches to enhance communication, and ensuring a commitment to innovation. Since his arrival in 2011 followers on social media (twitter and Facebook) have increased from 13,000 to approximately 700,000 and the electronic table of contents is now distributed to close to 750,000 individuals each week. In print, via eTOC, and social media JAMA now reaches over 1.5M physicians each week worldwide. Views (PDF and HTML) have increased from 10M in 2011 to 32M in 2017 (50% from outside the U.S.) and podcast downloads have increased from 300,000 in 2014 to 2.2M in 2017. The print journal was redesigned for the first time in over 20 years and website has been updated twice. All 9 of the specialty journals were renamed (Archives of Pediatrics became JAMA Pediatrics), and 3 new journals have been launched – JAMA Oncology (2015), JAMA Cardiology (2016), and JAMA Network Open (2018).



**Melissa Begg, ScD** received her BS in Mathematics from Fairfield University and her ScD in Biostatistics from Harvard University. She is now Vice Provost for Academic Programs at Columbia University, where she is also a professor of biostatistics in public health. Her areas of focus include: advancing interdisciplinary science; graduate health professional education; and statistical methods in mental and oral health research.

She is a past Co-Director of Columbia's Irving Institute for Clinical and Translational Research, and has led several training and career development programs that promote diversity in biomedical research. She is a Fellow of the American Statistical Association, and has received Columbia's Presidential Award for Outstanding Teaching, the Mailman School Teaching Award, and the Lagakos Distinguished Alumni Award in Biostatistics from the Harvard School of Public Health.

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\* Speaker biographies are subject to change as program continues to evolve prior to March 29, 2019.



**Arturo Casadevall, MD, PhD** is a Bloomberg Distinguished Professor and Chair of the W. Harry Feinstone Department of Molecular Microbiology and Immunology at the Johns Hopkins Bloomberg School of Public Health. He obtained his B.A. in Chemistry at Queens College of the City University of New York. Previously, he served as Director of the Division of Infectious Diseases at Montefiore Medical Center, the University Hospital and Academic Medical Center for Einstein, from 2000-2006 and as Chair of the Department of Microbiology and Immunology from 2006-2014.

Dr. Casadevall received both his M.D. and Ph.D. (biochemistry) degrees from New York University. Subsequently, he completed his internship and residency in internal medicine at Bellevue Hospital in New York. He then completed subspecialty training in infectious diseases at Montefiore and Einstein. The author of over 700 scientific papers, numerous books and book chapters, Dr. Casadevall's major research interests are in fungal pathogenesis and the mechanisms of antibody action. In the area of biodefense, he has an active research program to understand the mechanisms of antibody-mediated neutralization of *Bacillus anthracis* toxins.

In recent years, Dr. Casadevall has become interested in problems with the scientific enterprise and with his collaborators shown that misconduct accounts for the majority of retracted publications. He has suggested a variety of reforms to the way science is done. Dr. Casadevall is the editor-in-chief of *mBio*, the first open access general journal of the American Society of Microbiology, and is on the editorial board of several journals including the *Journal of Infectious Diseases* and the *Cell Surface*.

He has also served in numerous NIH committees including those that drafted the NIAID Strategic Plan and the Blue Ribbon Panel on Biodefense Research. He served on the National Academy of Sciences panel that reviewed the science on the FBI investigation of the anthrax terror attacks of 2001 and has served on the NAS Committee of Federal Regulations and Reporting requirements. He has also served as a member of the National Science Advisory Board for Biosecurity from 2005-2014. In 2008, he was recognized by the American Society of Microbiology with the William Hinton Award for mentoring scientists from underrepresented groups. In 2015, Dr. Casadevall was appointed a Commissioner to the National Commission on Forensic Science, the United States Department of Justice. He has served as President of the Medical Mycology Society of America, Chair of American Society for Microbiology Division F, Chair of the American Society for Microbiology Career Development Committee, Co-Chair of the National Institute of Allergy and Infectious Diseases Board of Scientific Counselors, and currently serves on the Scientific Council/Advisory Board for the Pasteur Institut and VIB Research Institute in Belgium. He is a member of the American Society for Clinical Investigation, American College of Physicians and the Association of American Physicians, and was elected Fellow of the American Association for the Advancement of Science and the American Academy of Microbiology. In 2014, he became an elected member of the National Academy of Medicine and in 2017, he was elected to the American Academy of Arts and Sciences.



**Sandra Soo-Jin Lee, PhD** is Chief of the Division of Ethics and faculty in the Department of Medical Humanities and Ethics at Columbia University. Trained as a medical anthropologist, Dr. Lee has extensive experience leading empirical bioethics research on the sociocultural and ethical dimensions of emerging genomic technologies. Before coming to Columbia, Dr. Lee conducted research for nearly two decades at the Stanford Center for Biomedical Ethics and taught in the Program in Science, Technology and Society (STS) at Stanford University. Her work focuses on approaches to the governance and use of biospecimens and patient data in research and the inclusion and categorization of population diversity in studies of human genetic variation. Dr. Lee has led several NIH funded studies, including *The Ethics of Inclusion: Diversity in Precision Medicine Research*, *Beyond Consent: Patient Preferences for Governance of Use of Clinical Samples and Data* and *Social Networking and Personal Genomics: Implications for Health Research*. Dr. Lee is a Hastings Center Fellow and has served as Chairperson of the Institutional Review Board at the Cancer Prevention Institute of California and on the NIH/NHGRI Coriell Consultation and Oversight Committee of the International Haplotype Map. Dr. Lee currently serves on the Scientific and Bioethics Advisory Boards of the Kaiser Permanente National Research Biobank, the NIH/NHGRI Genomics and Society Working Group and on the editorial board of *Narrative Inquiry in Bioethics*.



**Nicholas Lemann** directs Columbia World Projects, a new initiative to use academic work to generate projects outside the academy that address significant challenges for the benefit of humanity. He also directs Columbia Global Reports, a book publishing venture that commissions reporting around the globe on a wide range of political, financial, scientific, and cultural topics.

Mr. Lemann is Dean Emeritus and Pulitzer-Moore Professor of Journalism at Columbia. During his deanship, the Journalism School completed its first capital fundraising campaign, started its first new professional degree program since the 1930s, and launched significant initiatives in investigative reporting, digital journalism, and executive leadership for news organizations. His board memberships include Columbia's Knight First Amendment Institute, the Authors Guild, and the Russell Sage Foundation. Lemann is a member of the New York Institute for the Humanities and the American Academy of Arts and Sciences, and a staff writer for *The New Yorker*.



**Dr. Meredith Le Masurier** completed her PhD in biochemistry at Brandeis University under the supervision of Dr. Chris Miller where she used electrophysiology to characterize KcsA potassium channels. She then went on to a post-doc with Dr. Peter Gillespie at the Oregon Hearing Research Center and Vollum Institute, where she focused on sensory transduction in the ear. In 2007, she began her editorial career as a scientific editor at *Neuron*, a Cell Press journal, ultimately becoming Deputy Editor. In 2014, she moved to Springer Nature to be the Chief Editor of Nature Neuroscience, moving to an Executive Editor position in 2016 where she has overseen the life sciences Research Journal portfolio. She is currently an Editorial Director, where she is passionate about author service, reproducibility and supporting early-career researchers.



**Véronique Kiermer, PhD** is the Executive Editor at the Public Library of Science (PLOS), where she works closely with the editorial teams of the seven PLOS journals to continually improve the communication of research and promote open science. Before joining PLOS in 2015, she was Executive Editor and Director of Author and Reviewer Services for Nature Publishing Group. In that capacity she oversaw editorial and research integrity policies across the Nature journals. She started her career in publishing in 2004 as the founding Chief Editor of Nature Methods. Véronique has a PhD in molecular biology from the Université Libre de Bruxelles, Belgium. Before moving into publishing, she did postdoctoral work on HIV transcription in the laboratory of Dr Eric Verdin at the Gladstone Institute, University of California, San Francisco, and worked on gene therapy projects in the biotechnology industry in the Bay Area. She currently serves as chair of the ORCID Board of Directors.



**David B. Madigan, PhD**, is Professor of Statistics at Columbia University and Dean Emeritus of Arts and Sciences. He received a bachelor's degree in Mathematical Sciences and a Ph.D. in Statistics, both from Trinity College Dublin. He has previously worked for AT&T Inc., Soliloquy Inc., the University of Washington, Rutgers University, and SkillSoft, Inc. He has over 180 publications in such areas as Bayesian statistics, text mining, Monte Carlo methods, pharmacovigilance and probabilistic graphical models. He is an elected Fellow of the American Statistical Association, the Institute of Mathematical Statistics, and the American Association for the Advancement of Science. He has served terms as Editor-in-Chief of Statistical Science and of Statistical Analysis and Data Mining – the ASA Data Science Journal.

(photo credit: <https://datascience.columbia.edu/david-madigan-0>)





**Marcia McNutt, PhD** (B.A. in physics, Colorado College; Ph.D. in Earth sciences, Scripps Institution of Oceanography) is a geophysicist and the 22nd president of the National Academy of Sciences.

From 2013 to 2016, she was editor-in-chief of *Science* journals. McNutt was director of the U.S. Geological Survey from 2009 to 2013, during which time USGS responded to a number of major disasters, including the Deepwater Horizon oil spill. For her work to help contain that spill, McNutt was awarded the U.S. Coast Guard's Meritorious Service Medal. She is a fellow of the American Geophysical Union (AGU), Geological Society of America, the American Association for the Advancement of Science, and the International Association of Geodesy.

McNutt is a member of the American Philosophical Society and the American Academy of Arts and Sciences, and a Foreign Member of the Royal Society, UK, and the Russian Academy of Sciences. In 1998, McNutt was awarded the AGU's Macelwane Medal for research accomplishments by a young scientist, and she received the Maurice Ewing Medal in 2007 for her contributions to deep-sea exploration.



**Brian Nosek, PhD** is co-Founder and Executive Director of the Center for Open Science (<http://cos.io/>) that operates the Open Science Framework (<http://osf.io/>). COS is enabling open and reproducible research practices worldwide.

Brian is also a Professor in the Department of Psychology at the University of Virginia. He received his Ph.D. from Yale University in 2002. He co-founded Project Implicit (<http://projectimplicit.net/>), an multi-university collaboration for research and education investigating implicit cognition--thoughts and feelings that occur outside of awareness or control.

Brian investigates the gap between values and practices, such as when behavior is influenced by factors other than one's intentions and goals. Research applications of this interest include implicit bias, decision-making, attitudes, ideology, morality, innovation, and barriers to change. Nosek applies this interest to improve the alignment between personal and organizational values and practices. In 2015, he was named one of Nature's 10 and to the Chronicle for Higher Education Influence list.



**Ericka Peterson, PhD** is the Director of the Office of Postdoctoral Affairs, Columbia University. As the Director of the Office of Postdoctoral Affairs at Columbia University in the City of New York, Dr. Peterson is dedicated to the postdoctoral community, providing leadership in comprehensive initiatives, policies, and activities in support of University goals.

Dr. Peterson received a BS in Neuroscience from Westminster College, a Master of Liberal Arts in Interdisciplinary Science from the University of Pennsylvania and a PhD in Medicine from Aarhus University. She was a Postdoctoral Fellow in Neuroscience and Pharmacology at the University of Copenhagen. Following her fellowship, she worked as a Scientific Communications Associate at Precept Medical, a healthcare education and communications company and as a Director of Scientific Communications at

Medicus International, a division of Publicis Healthcare Communications Group.

As a trained neuroscientist and communication specialist, Dr. Peterson has a combination of academic and professional experience at home and abroad to propel the goals and mission of the Office of Postdoctoral Affairs.



**Geraldine L. Richmond, PhD** is the Presidential Chair in Science and Professor of Chemistry at the University of Oregon. Her research using laser spectroscopy and computational methods focusses on understanding environmentally and technologically important processes that occur at liquid surfaces.

Richmond is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. She has served in leadership roles on many international, national and state governing and advisory boards. She is currently serving as a member of the National Science Board, as the

U.S. Science Envoy to the Lower Mekong River Countries and as Secretary of the American Academy of Arts and Sciences. She is recent past president of the American Association for the Advancement of Science and is the incoming president of the Sigma Xi Scientific Honor Society. Richmond is the founding director of COACH a grass-roots organization formed in 1998 that has helped over 20,000 women scientists and engineers in career advancement in the U.S. and developing countries in Asia, Africa and Latin America.

Awards for her scientific accomplishments include the 2018 Priestley Medal from the American Chemical Society (ACS), the National Medal of Science (2013), the American Physical Society Davisson-Germer Prize (2013), the ACS Joel H. Hildebrand Award in the Theoretical and Experimental Studies of Liquids (2011) the Speirs Medal from the Royal Society of Chemistry (2004) and the ACS Olin-Garvan Medal (1996). Awards for her education, outreach and science capacity building efforts include the ACS Charles L. Parsons Award for Outstanding Public Service (2013), the ACS Award for Encouraging Women in the Chemical Sciences (2005), and the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (1997).

Website: <http://richmondscience.uoregon.edu>



**Shai Silberberg, PhD** is the Director for Research Quality at the NIH National Institute of Neurological Disorders and Stroke (NINDS) leading the Institute efforts to increase the excellence of science and the completeness of research reporting. In addition, Dr. Silberberg is a Program Director at NINDS with a focus on the molecular structure, function and regulation of ion channels and transporters. Dr. Silberberg obtained a Ph.D. in Neurophysiology from the Hebrew University in Jerusalem. Prior to joining NINDS, Dr. Silberberg was an Associate Professor at Ben-Gurion University of the Negev in Israel, investigating the biophysical functions and physiological roles of various ion channels.



**Pamela H. Smith, PhD**, Seth Low Professor of History, Columbia University. Dr. Smith specializes in early modern European history and the history of science. Her current research focuses on attitudes to nature in early modern Europe and the Scientific Revolution, with particular attention to craft knowledge and historical techniques. She is founding director of [The Making and Knowing Project](#), founding director of [The Center for Science and Society](#), and chair of [Presidential Scholars in Society and Neuroscience](#). Dr. Smith received a bachelor's degree from the University of Wollongong, New South Wales, Australia, in 1979 (First Class Honors), and a PhD from Johns Hopkins University, in 1991. Dr. Smith was the Margaret and

Edwin F. Hahn Professor in the Social Sciences, and professor of history at Pomona College from 1990-2005 and the director of European Studies at Claremont Graduate University from 1996-2003.



**Anne Taylor, MD**, received her medical degree from the University of Chicago's Pritzker School of Medicine and completed her clinical and research training at the University of Chicago, John Hopkins Hospital and the University of Iowa. She has held faculty positions at the University of Texas, Southwestern Medical Center in Dallas, at Case Western Reserve University where she was Chief of Cardiology at the Cleveland Veterans Affairs Medical Center, the University of Minnesota Medical School where she was Associate Dean for Faculty Affairs and co-directed the Deborah E.

Powell National Center of Excellence in Women's Health.

Dr. Taylor's clinical research has focused on cardiovascular disease in underrepresented minorities and in women, including assessment of "knowledge gaps" of CV risk in diverse communities. She was Chair of the Steering Committee for the African-American Heart Failure Trial, a trial of nitric oxide enhancing therapy in congestive heart failure and is a member of the steering committee for the Genomic Analysis of Enhanced Response to Heart Failure Therapy in African Americans trial.

As Senior Vice President for Faculty Affairs and Career Development for CUIMC, Dr. Taylor supports faculty recruitment, appointment and promotion processes, professional development and conflict of interest programs for faculty and trainees at the four health sciences schools at the Columbia University Irving Medical Center. Dr. Taylor's key initiatives include the reorganization of faculty academic tracks, the creation of the Virginia Kneeland Frantz Society for Women Faculty at the Vagelos College of Physicians & Surgeons, management of Conflict of Interest, appointment/promotion processes and implementation of mentoring programs across the university.



**Maria Zuber, PhD** is the E. A. Griswold Professor of Geophysics and Vice President for Research at MIT, where she is responsible for research administration and policy.

She oversees MIT Lincoln Laboratory and more than a dozen interdisciplinary research laboratories and centers, including the Computer Science and Artificial Intelligence Laboratory, Koch Institute for Integrative Cancer Research, the MIT Energy and Environmental Solutions Initiatives, the Plasma Science and Fusion Center, the Research Laboratory of Electronics, the Institute for Soldier Nanotechnologies, and Haystack

Observatory. Vice President Zuber is also responsible for intellectual property and research integrity and compliance, as well as research relationships with the federal government.

Zuber's research bridges planetary geophysics and the technology of space-based laser and radio systems. Since 1990, she has held leadership roles associated with scientific experiments or instrumentation on ten NASA missions, most notably serving as Principal Investigator of the Gravity Recovery and Interior Laboratory (GRAIL) mission.

Zuber holds a B.A. from the University of Pennsylvania and an Sc.M. and Ph.D. from Brown. She has won numerous awards including the MIT James R. Killian Jr. Faculty Achievement Award, the highest honor the MIT faculty bestows to one of its own. She is a member of the National Academy of Sciences and the American Philosophical Society, and is a fellow for the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Geological Society and the American Geophysical Union.

Vice President Zuber is the first woman to lead a science department at MIT and the first to lead a NASA planetary mission. In 2004, she served on the Presidential Commission on the Implementation of United States Space Exploration Policy. In 2002 *Discover* magazine named her one of the 50 most important women in science and, in 2008, she was named to the *USNews*/Harvard Kennedy School List of America's Best Leaders. In 2013, President Obama appointed her to the National Science Board, and in 2016 she was elected Board Chair, a position she held until 2018.