Eagleton Institute OF Politics

CRISPR Governance:
Regulating the Power of Gene Editing

Eagleton Science and Politics Workshop

A discussion on the role of government and politics in regulating gene editing technology

Friday, February 21, 2020
9AM - 1PM, lunch to follow

Jonathan Moreno, Ph.D.

David and Lyn Silfen University Professor of Ethics, University of Pennsylvania

Panelists

T. Patrick Hill, Ph.D.

Associate Professor, Edward J. Bloustein School of Planning and Public Policy, Rutgers University

Wise Young, MD, Ph.D.

Richard H. Shindell Chair of Neuroscience, W. M. Keck Center for Collaborative Neuroscience, Rutgers University

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EAGLETON SCIENCE AND POLITICS WORKSHOP
CRISPR Governance: Regulating the Power of Gene Editing
February 21st, 2020

AGENDA

8.30am	Arrivals and Coffee	
9:00am	Welcome	**Anna Dulencin, Ph.D.** Sr. Program Coordinator, Science and Politics Initiative Eagleton Institute of Politics
9:05am	Keynote	**Jonathan Moreno, Ph.D.** David and Lyn Silfen University Professor of Ethics University of Pennsylvania
10:15am	Respondents	Introductions **John Weingart** Associate Director Eagleton Institute of Politics **T. Patrick Hill, Ph.D.** Associate Professor Edward J. Bloustein School of Planning and Public Policy Rutgers University **Wise Young, M.D., Ph.D.** Richard H. Shindell Chair of Neuroscience W. M. Keck Center for Collaborative Neuroscience Rutgers University
11:15am	Q&A	
11:45pm	Break	
12:00pm	Interactive Exercise	*Gene Drive* technology
1:00pm	Lunch	

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ABOUT THE EAGLETON INSTITUTE OF POLITICS

The Eagleton Institute of Politics at Rutgers University—New Brunswick studies how American politics and government work and change, analyzes how the democracy might improve, and promotes political participation and civic engagement. The Institute explores state and national politics through research, education, and public service, linking the study of politics with its day-to-day practice.

Areas of interest include: campaigns, elections and political parties; civic education and political engagement; ethics; governors and state politics; minority and immigrant political behavior; New Jersey politics; public opinion polling and survey research; public safety and community resilience; science and politics; women's political participation; youth political participation and young elected leaders.

Eagleton offers education programs including an undergraduate certificate, graduate fellowships, research assistantships and internships, and opportunities to interact with political practitioners.

PROGRAM SUPPORT

EAGLETON SCIENCE AND POLITICS WORKSHOP
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John Weingart
Associate Director, Eagleton Institute of Politics
Director, Eagleton Center on the American Governor

SPEAKERS

Jonathan Moreno, Ph.D.
David and Lyn Silfen University Professor of Ethics, University of Pennsylvania

Called "the quietly most interesting bioethicist of our time" by the American Journal of Bioethics, Jonathan is the David and Lyn Silfen University Professor at the University of Pennsylvania where he is a Penn Integrates Knowledge (PIK) professor. At Penn he is also Professor of Medical Ethics and Health Policy, of History and Sociology of Science, and of Philosophy.

In 2008-09 he served as a member of President Barack Obama's transition team. His work has been cited by Al Gore and was used in the development of the screenplay for *The Bourne Legacy*. His online neuroethics course drew more than 36,000 registrants in fall 2013.

Jonathan's writings have been translated into Chinese, German, Japanese, Portuguese and Romanian. His latest book, *Everybody Wants to Go to Heaven but Nobody Wants to Die: Bioethics and the Transformation of Healthcare in America*, is co-authored with Penn president Amy Gutmann. In 2020 Columbia University Press will publish *The Brain in Context: A Pragmatic Guide to Neuroscience*, written with neuroscientist Jay Schulkin.

Among his previous books are *Impromptu Man: J.L. Moreno and the Origins of Psychodrama, Encounter Culture, and the Social Network* (2014), which Amazon called a "#1 hot new release." His other books include *The Body Politic*, which was named a Best Book of 2011 by Kirkus Reviews; *Mind Wars* (2012); and *Undue Risk* (2000). He has published hundreds of papers, articles, reviews and op-eds.

Jonathan frequently contributes to such publications as *The New York Times*, *The Wall Street Journal*, *Science*, *Nature*, *Slate*, *Foreign Affairs*, *Axios.com*, *The Huffington Post*, and *Psychology Today*. He often appears on broadcast and online media and was a columnist for ABCNews.com.

He is an elected member of the National Academy of Medicine where he chairs the Interest Group on Human Rights, Professionalism and the Values of Medicine. He served two term as the U.S. member of the UNESCO International Bioethics Committee. From 2005 to 2012 Jonathan was a senior fellow at the Center for American Progress. He has advised many governmental and non-governmental organizations, including three presidential commissions, the Departments of Defense, Homeland Security, and Health and Human Services; Centers for Disease Control, Federal Bureau of Investigation, Howard Hughes Medical Institute, and the Bill and Melinda Gates Foundation.

Jonathan received his Ph.D. in philosophy from Washington University in St. Louis, was an Andrew W. Mellon post-doctoral fellow, holds an honorary doctorate from Hofstra University, and is a recipient of the College of William and Mary Law School Benjamin Rush Medal, the Dr. Jean Mayer Award for Global Citizenship from Tufts University, and the Penn Alumni Faculty Award of Merit. He holds the honorary Visiting Professorship in History at the University of Kent in Canterbury, England. In 2018 the American Society for Bioethics and Humanities presented him with its Lifetime Achievement Award.

T. Patrick Hill, Ph.D.
Associate Professor
Edward J. Bloustein School of Planning and Public Policy, Rutgers University

T. Patrick Hill was born in Ireland, grew up in England, and came to the US in 1969. He is a graduate of the Pontifical Lateran University, Rome, Cambridge University, England, the University of California, Los Angeles, and the University of Chicago, where he earned his doctorate. An associate professor at the Edward J. Bloustein School of Planning and Public Policy, Rutgers, Dr. Hill teaches courses in ethics and law, as well as his favorite course in thinking. Prior to teaching at Rutgers, he served as principal ethicist for his own consulting company, whose clients included The Cancer Institute of New Jersey, The Neonatology Unit, RWJ University Medical Center, and The New Jersey Department of Health and Senior Services, among others. He currently serves as ethics consultant to the NJ New Born Screening Advisory Committee. Dr. Hill is widely published, the co-author of the book, *A Good Death: Taking More Control at the End of Your Life*. At present he is under contract to write his book, *No Place for Ethics? Judicial Review, Legal Positivism and the US Supreme Court*. An accomplishment of which he is most proud is his completion of Wagner's *The Ring Cycle*. His favorite quotation is from G.K. Chesterton: *"There is a thought that stops thought. That is the only thought that ought to be stopped."*

Wise Young, M.D., Ph.D.
Distinguished Professor
Founding Director, W.M. Keck Center for Collaborative Neuroscience
Richard H. Shindell Chair in Neuroscience, Rutgers, The State University of New Jersey
Distinguished Visiting Professor, The University of Hong Kong

Dr. Wise Young, founding director of the W.M. Keck Center for Collaborative Neuroscience and a distinguished professor, is recognized as one of the world's outstanding neuroscientists.

Dr. Young is committed to bringing treatments to people with spinal cord injuries. He built and trained a twenty-five center clinical trial network in China, Taiwan, and Hong Kong where human clinical trials using umbilical cord blood mononuclear cells and lithium are underway. In the initial results from the Phase II trial in Kunming, China, 75% of the participants (15 out of 20) recovered walking with minimal assistance, and 60% recovered bowel and bladder function. He has established clinical trial networks in the United States, Taiwan, Norway, and India and received FDA approval to start Phase IIB Trials in the United States in 2019.

Dr. Young led the team that discovered and established high-dose methylprednisolone (MP) as the first effective therapy for spinal cord injuries. This 1990 work upended concepts that spinal cord injuries were permanent, refocused research, and opened new vistas of hope. He also developed the first standardized rat spinal cord injury model used worldwide for testing therapies, formed the first consortium funded by the National Institutes of Health (NIH) to test promising therapies, and helped establish several widely accepted clinical outcome measures in spinal cord injury research.

Dr. Young founded and served as editor-in-chief of the Journal of Neurotrauma. He organized the International and National Neurotrauma Societies as forums for scientists to collaborate on spinal cord injury and brain research. He served on advisory committees for the NIH, National Academy of Sciences, and NICHD, and on many spinal cord injury advisory boards.

He was awarded a Bachelor of Arts degree from Reed College, a Doctorate from the University of Iowa and a medical degree from Stanford University. After a surgery internship at New York University and Bellevue Medical Center, he joined the neurosurgery department at NYU, and he became director of neurosurgery research. In 1997, he was recruited to establish a world-class neuroscience research center at Rutgers, The State University of New Jersey.

Dr. Young is invited to speak speaker at scientific conferences throughout the world and when media are in need of expert knowledge. He has appeared on '20/20' with Barbara Walters and Christopher Reeve, 'Today', with Katie Couric, '48 Hours,' 'Eye-to-Eye,' Fox News, and CNN with Jeff Greenfield. His work was featured in a Life magazine special edition, USA Today, and innumerable national and international news and print publications. In an issue devoted to cutting edge work in science and medicine, TIME Magazine named Dr. Young as 'America's Best' in spinal cord injury research.

Some of his many honors include: NIH Jacob Javits Neuroscience Award, Wakeman Award. Tall Texan Award, "Cure" Award, Trustees Award for Excellence in Research, Asian American Achievement Award, Douglass Medal for work with the advancement of young women in the sciences, and Elizabeth M. Boggs Award for service to the disability community. He was the first researcher elected to the Spinal Cord Injury Hall of Fame. Dr. Young received The Hope Award – A Salute to Research Innovation, the New Jersey Educator of the Year Award, the Caring Heart Award and the Motolinsky Foundation Distinguished Citizen Award. He was selected as the McGowen Distinguished Lecturer. Recently BioNJ recognized Dr. Young's unique contributions by presenting him with their Patient Advocacy Award. In 2006, the Richard H. Shindell Chair in Neuroscience was established at Rutgers University and Dr. Young was named as the first person to hold that chair.

John Weingart
Associate Director, Eagleton Institute of Politics

John Weingart has been Associate Director of the Eagleton Institute of Politics since 2000. Prior to that, he held several posts designing and implementing state policy on environmental protection and land use including serving as Assistant Commissioner of the NJ DEP. He is the author of *Waste Is A Terrible Thing To Mind: Risk, Radiation and Distrust of Government*.

Anna Dulencin, PhD
Sr. Program Coordinator, Science and Politics Initiative, Eagleton Institute of Politics

Anna Dulencin develops the Institute's Science and Politics Initiative which includes the Eagleton Science and Politics Workshop and the Institute's latest project, the Eagleton Science and Politics Fellowship for Ph.D.-level scientists in New Jersey government. A scientist herself, Dulencin served as a biomedical research consultant at the New Jersey Autism Center of Excellence Coordinating Center prior to joining Eagleton.