

CURRICULUM VITAE

KIRSTIN R.W. MATTHEWS

FELLOW IN SCIENCE AND TECHNOLOGY POLICY

BAKER INSTITUTE FOR PUBLIC POLICY

RICE UNIVERSITY

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EDUCATION

May 2003	Ph.D. in Molecular Biology The University of Texas Health Science Center at Houston “The Characterization of Mouse Carboxypeptidase N Small Subunit Gene Structure and the Expression of Complement C3 and Carboxypeptidase N in Mouse Development” Supervising Professor Dr. Rick A. Wetsel
May 1996	B.A. in Biochemistry The University of Texas at Austin

PROFESSIONAL APPOINTMENTS

2008-present	Fellow in Science and Technology Policy, Baker Institute for Public Policy, Rice University
2018-present	Lecturer, Department of BioSciences, Rice University
2014-2018	Joint Faculty, Department of BioSciences, Rice University
2010-2018	Lecturer, Wiess School of Natural Sciences, Rice University
2010-2017	Adjunct Lecturer, Department of Sociology, Rice University
2006-2008	Science and Technology Policy Program Manager, Baker Institute for Public Policy, Rice University
2004-2006	Postdoctoral Research Associate, Baker Institute for Public Policy Rice University
2004-2006	Project Director, Task Force “Access to Health Care in Texas: The Challenges of the Uninsured and the Underinsured,” The University of Texas System
2003-2004	Postdoctoral Research Associate, Department of Physics and Astronomy, Rice University
2003-2004	Research Assistant, Baker Institute for Public Policy, Rice University

PROFESSIONAL SOCIETIES AND OTHER ACTIVITIES

2023-present	Member, Steering Committee, Rice University’s Medical Humanities Research Institute
2021-present	Associate Editor, Accountability in Research
2021-present	Member, Career Development Task Force, American Society for Bioethics and Humanities (ASBH)
2019-2022	Lawrence Goldstein Policy Fellowship, International Society for Stem Cell Research (ISSCR)
2019-2022	Ex-Officio member, ISSCR Public Policy Committee
2019-present	Review Editor, Frontiers in Research Policy and Strategic Management

2019-2021	Member, International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB)
2019-2023	Member, International Society for Cell & Gene Therapy (ISCT)
2018-present	Member of Stem Cell Research Oversight Committee (SCRO), Rice University [Chair, 2020-2021]
2018-2020	Leader, Health and Science Policy Affinity Group, ASBH
2018-2020	Member, Association for Practical and Professional Ethics (APPE)
2018	co-Leader, Public Health Affinity Group, ASBH
2015-present	Member of SCRO, The University of Texas Health Science Center at Houston
2015	Drafting Delegate for 2015 BEINGS – Biotechnology and Ethical Imagination Global Summit in Atlanta, Georgia
2014, 2015, 2023	Visiting Scholar, Wake Forest University Center for Ethics and Society
2015-present	Director, Baker Institute's Biomedical Research policy program (Center for Health and Biosciences)
2014-present	Member, ASBH
2011-present	Track Advisor, Professional Science Master's Program Track in Bioscience and Health Policy, Rice University's Wiess School of Natural Science
2007-2009	Community Advisory Board Member, Center for Clinical and Translation Sciences at the University of Texas Health Science Center at Houston
2007-present	Member, ISSCR
2003-present	Member, American Association for the Advancement of Science (AAAS)

Referee for Journals: BMC Medical Ethics, British Medical Bulletin, Communications Biology, Cytotherapy, Developing World Bioethics, Development, Frontiers in Research Metrics and Analysis, Journal of Bioethical Inquiry, Journal of Medical Ethics, Journal of Molecular Medicine, Lancet, National Academies of Science, Engineering and Medicine (US), Nature, Nature Cell Biology, Nature Methods, Nature Reviews Genetics, PLoS ONE (Public Library of Science ONE), Regenerative Medicine, Science, Science and Engineering Ethics, Science and Public Policy, Science Translational Medicine, Stem Cell Reports, Stem Cell Reviews and Reports, Stem Cell Research & Therapy

Referee for grants: Australian Government National Health and Medical Research Council, Canada Stem Cell Network, Dutch Organization for Health Research and Development (ZonMw), US National Science Foundation (NSF)

BOOK CHAPTER & BOOK

Matthews, Kirstin R.W. 2023. "Unproven Stem Cell-Based Interventions: Addressing Patients Unmet Needs or Causing Patient Harm?" *Medical Research Ethics: Challenges in the 21st Century* edited by Tomas Zima and David N. Weisstub, page 89-113. Cham, Switzerland: Springer Nature, 2023.

Ecklund, Elaine Howard, David R. Johnson, Brandon Vaidyanathan, Kirstin R.W. Matthews, Steven W. Lewis, Robert A. Thomson, Jr., and Di Di. 2019. *Secularity and Science: What Scientists Around the World Really Think About Religion*. Oxford University Press: NYC, NY. (Reviews in [Public Understanding of Science](#) and [Review of Religious Research](#))

PUBLICATION LISTS

NIH Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/kirstin.matthews.1/bibliography/public/>
Google Scholar Profile https://scholar.google.com/citations?user=z3MQ_w0AAAAJ&hl=en
Baker Institute Publications: <https://www.bakerinstitute.org/research-library?f%5B0%5D=expert%3A60992>

POLICY PUBLICATIONS

- Itlis Ana S., Grace Koster, Emily Reeves, and Kirstin R.W. Matthews. 2023. "Ethical, Legal, Regulatory, and Policy Issues Concerning Embryoids: A systematic review of the literature." *Stem Cell Res Ther*, 14(1):209, <https://doi.org/10.1186/s13287-023-03448-8>
- Matthews, Kirstin R. W., and Daniel Morali. 2022. "Can we do that here? An analysis of US federal and state policies guiding human embryo and embryoid research." *J Law Biosci*, 9(1) Isac014, <https://doi.org/10.1093/jlb/lsac014>
- Flora Naylor and Kirstin R.W. Matthews. 2022. "[Unproven Stem Cell-based Interventions and Harms to Existing and Future Patients](#)." *Cell & Gene Therapy Insights*. 8(3): 397-401.
- Kirstin R.W. Matthews, Omar Kawam, Keri Sprung, Emerson C. Perin and Zubin Master. 2022. "[Role of Physicians in Guiding Patients Away from Unproven Stem Cell Interventions](#)." *Texas Heart Institute Journal*. 49(2): e217768.
- Kirstin R.W. Matthews, Samantha Lowe and Ana S. Itlis. 2021. "[Emerging Human Embryo Research Technologies, the 14-day Rule, and the Special Status of the Embryo](#)." *International Journal of Chinese & Comparative Philosophy of Medicine*. 19(2): 11-45.
- Itlis Ana S., Sarah Hoover, and Kirstin R.W. Matthews. 2021 "[Public and Stakeholder Engagement in Developing Human Genome Editing Policies: What does it mean and what should it mean?](#)" *Frontiers in Political Science*. 3:730669.
DOI:10.3389/fpos.2021.730869.
- Master, Zubin, Kirstin R.W. Matthews, and Mohamed Abou-el-Enein. 2021. "[Unproven Stem Cell Interventions: A global public health problem requiring global deliberation](#)." *Stem Cell Reports* 16(6): 1435-1445. DOI:10.1016/j.stemcr.2021.05.004
- Matthews, Kirstin R. W., Daniel S. Wagner, and Aryeh Warmflash. 2021. "[Stem Cell-Based Models of Embryos: The Need for Improved Naming Conventions](#)." *Stem Cell Reports* 16(5):1014-1020. DOI:10.1016/j.stemcr.2021.02.018
- Matthews, Kirstin R. W., Ana S. Itlis, et al. 2021 "[Rethinking Human Embryo Research Policies](#)" *Hastings Center Report*. 51(1):47-51.
- Matthews, Kirstin R. W., and Daniel Morali. 2020. "[National human embryo and embryoid research policies: A survey of 22 top research-intensive countries](#)." *Regenerative Medicine*. 15(7): 1905-1917.
- Matthews, Kirstin R. W., Erin Yang, Steve W. Lewis, Brandon Vaidyanathan & Monica Gorman. 2020. "[International scientific collaborative activities and barriers to them in eight societies](#)." *Accountability in Research* 27(8): 477-495.
- Matthews, Kirstin R. W., and Ana S. Itlis. 2019. "[Are we ready to genetically modify a human embryo? Or is it too late to ask?](#)" *Accountability in Research* 26(4): 265-270.
- Matthews, Kirstin R.W., Bhavana Kunisetty, and Keri Sprung. 2018. "[Texas H.B. 810: Increased Access to Stem Cell Interventions or an Increase in Unproven Treatments?](#)" *Stem Cells and Development* 27(21):1463-5.
- Matsumoto, Monica M, Rana Dajani, and Kirstin R.W. Matthews. 2018. "[Public-private divide: cultural and social factors in women's attitudes toward cord blood banking in Jordan](#)." *Transfusion* 58(8):1958-63.
- Hurlbut, J. Benjamin, Insoo Hyun, Kirstin R.W. Matthews, et al. 2017. "[Revisiting the Warnock Rule](#)" *Nature Biotechnology* 35:1029-42.
- Matthews, Kirstin R.W. and Ana S. Itlis. 2017. "[Unproven Stem-Cell-Based Interventions: Advancing Policy through Stakeholder Collaboration](#)." *THI Journal* 44(3):171-3.

- Iltis, Ana S. and Kirstin R.W. Matthews. 2017. "[NTD policy priorities: Science, values, and agenda setting](#)." *PLoS Negl Trop Dis* 11(5): e0005431.
- Matthews, Kirstin R.W., Kenneth M. Evans, Neal F. Lane. 2017. "[Science advice in the Trump White House](#)." *Science* 355(6325):574-6.
- Matthews, Kirstin R.W. 2016. "[Not Optional But Required: Vaccinating for the health and safety of my kids and the public](#)." *Narrative Inquiry in Bioethics* 6(3):172-3.
- Ecklund, Elaine Howard, David R. Johnson, Christopher P. Scheitle, Matthews, Kirstin R.W. and Steven W. Lewis. 2016. "Religion among Scientists in International Context: A New Study of Scientists in Eight Regions." *Socius* 2:1–9. [doi:10.1177/2378023116664353](#).
- Johnson, David R., Elaine Howard Ecklund, Di Di, and Kirstin R.W. Matthews. 2016. "[Responding to Richard: Celebrity and \(mis\)representation of science](#)." *Public Understanding of Science*.
- Matsumoto, Monica M, Rana Dajani, Yousef Khader, and Kirstin R.W. Matthews. 2016. "[Assessing women's knowledge and attitudes toward cord blood banking: policy and ethical implications for Jordan](#)." *Transfusion* 56(8):2052-61.
- Matsumoto, Monica M, Kirstin R.W. Matthews. 2015 "[A Need for Renewed and Cohesive US Policy on Cord Blood Banking](#)" *Stem Cells Reviews and Reports* 11(6):789-97.
- Matthews, Kirstin R.W. and Ana S. Iltis. 2015. "[Unproven stem cell-based interventions and achieving a compromise policy among the multiple stakeholders](#)." *BMC Medical Ethics*. 16:75.
- Matsumoto, Monica M, Rana Dajani, Kirstin R.W. Matthews. 2015. "[Cord Blood Banking in the Arab World: Current Status and Future Developments](#)." *Biology of Blood and Marrow Transplantation* 21(7):1188-1194.
- Cuchiara, Maude L., Jackie K. Olive, and Kirstin R.W. Matthews. 2015. "[Regulating the therapeutic translation of regenerative medicine](#)." *Expert Opinion on Biological Therapy* 15(10):1387-90.
- Howard Ecklund, Elaine, David R. Johnson and Kirstin R.W. Matthew. 2015. "[Study highlights ethical ambiguity in physics](#)." *Physics Today* June:p 8-9.
- Matthew, Kirstin R.W. and Maude L. Cuchiara. 2014. "[U.S. National Football League Athletes Seeking Unproven Stem Cell Treatments](#)." *Stem Cells and Development* 23,S1:60-64.
- Matthew, Kirstin R.W. and Maude L. Cuchiara. 2014. "[Professional Athletes & Unproven Stem Cell Treatments](#)." *Texas CEO Magazine* November 29, 2014.
- Cuchiara, Maude Rowland and Kirstin R.W. Matthews. 2014. "[Gene Patents, Patenting Life, and the Impact of US Stem Cell Patents and Research](#)." *Regenerative Medicine* 9(2):191-200.
- Cuchiara, Maude Rowland, James Lawford Davies and Kirstin R.W. Matthews. 2013. "[Defining 'Research' in the US and EU: Contrast of *Sherley v. Sebelius* and *Brüstle v. Greenpeace Rulings*](#)" *Stem Cell Reviews and Reports* 9(6): 743-751.
- Luo, Jingyuan and Kirstin R.W. Matthews. 2013. "[Globalization of Stem Cell Science: An Examination of Current and Past Collaborative Research Networks](#)" *PLoS ONE* 8(9): e73598.
- Romar, George and Kirstin R.W. Matthews. 2013. "[Considerations on US Government Involvement in Education and Early Childhood Interventions](#)." *Journal of Science Policy and Governance* 3(1):1-7.
- Moloney, Pdraig and Kirstin R.W. Matthews. 2013. "[Thinking big about the future](#)" *Physics World*, February.
- Matthews, Kirstin R.W. and Maude Rowland. 2012. "[Global Update: USA](#)." *Regenerative Medicine* 7(6 Supplement):126-129.
- Matthews, Kirstin R.W. 2011. "[Global Update: USA](#)." *Regenerative Medicine* 6(6 Supplement):136-139.
- Luo, Jingyuan, Jesse M. Flynn, Rachel E. Solnick, Elaine Howard Ecklund, and Kirstin R.W. Matthews. 2011. "[International Stem Cell Collaborations: How Disparate Policies](#)

- [between the United States and the United Kingdom Impact Research.](#)” *PLoS ONE* 6(3), e17684.
- Matthews, Kirstin R.W., Neal F. Lane, and Kenneth M. Evans. 2011. “[U.S. Scientific Research and Development: A Critical Look at the U.S. Federal Research and Development Funding System.](#)” *Science Progress*, July 21.
- Matthews, Kirstin R.W. and Maude Rowland. 2011. “[Stem cell policy in the Obama age: U.K. and U.S. perspectives.](#)” *Regenerative Medicine* 6(1): 125-132.
- Matthews, Kirstin R.W. Kara M. Calhoun, Nathan Lo and Vivian Ho. 2011. “[The Aging of Biomedical Research in the United States](#)” *PLoS ONE*. 6(12), e29738.
- Flynn, Jesse M., and Kirstin R. W. Matthews. 2010. “[Stem Cell Research in the Greater Middle East: The Importance of Establishing Policy and Ethics Interoperability to Foster International Collaborations.](#)” *Stem Cell Reviews and Reports* 6(2): 143-150.
- Lane, Neal, and Kirstin Matthews. 2009. “[The President’s Scientist.](#)” *Cell* 139 (5): 847-850.
- Matthews, Kirstin, and Vivian Ho. 2008. “[The Grand Impact of the Gates Foundation.](#)” *EMBO Reports* 9(5): 409-412.
- Task Force on “[Access to Health Care in Texas: The Challenges of the Uninsured and Underinsured.](#)” *Code Red: The Health of Texas*. 2006 (project officer, contributing editor, and author).

BAKER INSTITUTE POLICY PUBLICATIONS

- Rekha Lakshmanan and Kirstin R.W. Matthews. “[The Future of National Vaccine Policy Runs Through Texas.](#)” September 26, 2022. Baker Institute Policy Brief.
- Matthews, Kirstin R.W. and Rekha Lakshmanan. “[Vaccine Hesitancy and Resistance in Texas: An Analysis of Testimony from the 2021 Texas State Legislative Session.](#)” September 19, 2022. Baker Institute Policy Brief.
- Akshaya Venkatesh and Kirstin R.W. Matthews. “[Are Stem Cells Really a Cure-all?](#)” September 19, 2022. Baker Institute Commentary
- Akshaya Venkatesh and Kirstin R.W. Matthews. “[Making Stem Cell Interventions and Advertisements Safer and More Effective in Texas](#)” September 6, 2022. Baker Institute Policy Brief
- Robert A.S. Laroche, Roxanna J. Llinas, Adam M. Navara, Melody T. Tan, Rekha Lakshmanan and Kirstin R. W. Matthews. “[Failures in COVID-19 Vaccine Administration Data Collection Complicated Efforts to Ensure Vaccine Equity in Texas.](#)” March 4, 2022. Baker Institute Policy Brief.
- Evans, Kenneth M., Gabriella Hazan, Spoorthi Kamepalli, and Kirstin R. W. Matthews. “[U.S. Federal Scientific Research and Development: Budget Overview and Outlook.](#)” July 2021. Baker Institute Report
- Matthews, Kirstin R.W. and Rekha Lakshmanan. “[Vaccine Legislation in Texas and the Rise of the State Anti-Vaccine Movement: A survey of vaccine-related bills filed and passed in the Texas State Legislature from 2009-2019.](#)” Nov. 2020. Baker Institute Research Paper
- Matthews, Kirstin R.W. and Rekha Lakshmanan. “[Operation Warp Speed: Developing the COVID-19 Vaccine.](#)” Nov. 2020. Baker Institute Brief (updated March 2021)
- Matthews, Kirstin R.W., Ana S. Iltis, Inmaculada de Melo-Martin, Jason Scott Robert, and Daniel S. Wagner. “[Moving the Line? Findings and Recommendations for Human Embryo Research.](#)” April 2019. Baker Institute Research Paper
- Wagner Daniel S. and Kirstin R.W. Matthews. “[Human Embryo Research: What do we know and how do we know it?](#)” Feb. 2019. Baker Institute Research Paper
- Matthews, Kirstin R.W., Jason Scott Robert, Ana S. Iltis, Inmaculada de Melo-Martin, and Daniel S. Wagner. “[Cell-Culture Models of Early Human Development: Science, Ethics and Policy.](#)” Feb. 2019. Baker Institute Research Paper

Matthews, Kirstin R.W. and Nuria Gallego Marquez. "[The Warnock Report and International Human Embryo Research Policies](#)." Jan. 2019. Baker Institute Research Paper

Matthews, Kirstin R.W. and Erin Yang. "[A Survey of Policies Guiding Human Embryo Research in the United States](#)." Jan. 2019. Baker Institute Research Paper

Tan, Melody T. and Kirstin R.W. Matthews. "[Misconceptions and Limited Awareness of Chagas Disease in Texas Among Surveyed Houston Physicians](#)" Baker Institute White Paper (December 2018).

Tan, Melody T. and Kirstin R.W. Matthews. "[Scientific Misconceptions and Myths Perpetuated in the 2017 Texas Legislative Session](#)." Baker Institute Issue Brief (October 23, 2018).

Matthews, Kirstin R.W., and Melody T. Tan. "[Medical Freedom, Privacy, and Fear of Discrimination: The 2017 Texas Legislative Session Anti-vaccine Arguments](#)." Baker Institute Issue Brief (October 22, 2018).

Evans, Kenneth M., and Kirstin R.W. Matthews. "[Science Advice to the President and the Role of the President's Council of Advisors on Science and Technology](#)." Baker Institute Research Paper (August 9, 2018).

Olive, Jackie, K. and Kirstin R.W. Matthews. "[How too much freedom of choice endangers public health: The effects of nonmedical exemptions from school-entry vaccinations in Texas](#)." Baker Institute Policy Brief (October 13, 2016).

Lane, Neal F., Kenneth M. Evans, and Kirstin R.W. Matthews. 2016. "[The vital role of the White House Office of Science and Technology Policy in the new administration](#)." Baker Institute Policy Report.

Michelle Rubin and Kirstin R.W. Matthews. 2016. "[The Impact of Right to Try Laws on Medical Access in the United States](#)." Baker Institute Policy Report #66 (May).

Herricks, Jennifer R. and Kirstin R.W. Matthews. 2016. "[Mosquito-Transmitted Epidemics: Zika Virus in the United States and Mexico](#)." Baker Institute Policy Brief (March 4, 2016).

Herricks, Jennifer R. Kirstin R.W. Matthews Peter J. Hotez. 2016. "[The United States and Mexico: Addressing a Shared Legacy of Neglected Tropical Diseases and Poverty](#)." Baker Institute Policy Report #65 (February).

Ittis, A.S. and Kirstin R.W. Matthews. 2016. "[Ethical Considerations for the Creation of National Neglected Tropical Disease Policy](#)." Baker Institute Baker Institute Policy Report #64 (February).

Matthews, Kirstin R.W. and Jennifer R. Herricks. 2015. "[Mosquito-Transmitted Epidemics: Dengue, Chikungunya, and West Nile in the United States and Mexico](#)." Baker Institute Policy Brief (December 16, 2015).

Matthews, Kirstin R.W. and Jennifer R Herricks. 2015. "[Chagas Disease: Sharing the Burden and the Solutions in the United States and Mexico](#)." Baker Institute Policy Brief (October 30, 2015).

Matsumoto, Monica M. and Kirstin R.W. Matthews. 2014. "[Cord Blood Banking in the United States: A Public Need for Policy Commitments](#)." Baker Institute Policy Report #62 (October).

Matsumoto, Monica M. and Kirstin R.W. Matthews. 2014. "[Human Papillomavirus Vaccine: A Public Policy Opportunity for Texas](#)." Baker Institute Policy Brief (October 6, 2014)

Matthews, Kirstin R. W., Jon Flynn, and Monica M. Matsumoto. 2014. "[Middle East Respiratory Syndrome](#)" Baker Institute Policy Brief (July 25, 2014)

Neal Lane and Kirstin R.W. Matthews. 2013. "[Science and Technology: Ensuring America's Science Future](#)" in the *Baker Institute 2013 Policy Recommendations for the Obama Administration* (March).

Matthews, Kirstin R.W., Maude Rowland Cuchiara, Jingyuan Luo, Abdelali Haoudi and Ayman Bassil. 2013. "[International Stem Cell Science and Policy](#)." Baker Institute Policy Report #56 (February).

Matthews, Kirstin R.W., Brent Carey, Kenneth M. Evans, and Pdraig Moloney. 2012. "[NASA's Relationship with Nanotechnology: Past, Present and Future Challenges](#)." Baker Institute Policy Report #54 (October).

- Matthews, Kirstin R.W., Maude Rowland, Jingyuan Luo, and Monica Matsumoto. 2012. [Stem Cell Research in the Courts: Sherley vs. Sebelius](#). Baker Institute Policy Report #50 (January).
- Matthews, Kirstin R.W. and Maude Rowland. 2011. [Stem Cells Policy and Biomedical Research in Texas](#). Baker Institute Research Report (January).
- Lo, Nathan, Kara Calhoun, Kenneth Evans, Kirstin R.W. Matthews, and Neal Lane. 2010. [C60—A Model for the Future](#). Baker Institute, Civic Scientist Précis (October).
- Matthews, Kirstin R.W., and Maude Rowland. 2010. [Stem Cell Policy in the Obama Age: Texas, U.S. and U.K. Perspectives](#). Baker Institute Conference Report (March).
- Tambra, Sarah, and Kirstin R.W. Matthews. 2010. [U.K. Stem Cell Policy—A Civic Scientist's Journey through Regulation](#). Baker Institute, Civic Scientist Précis (March).
- Matthews, Kirstin, Neal Lane, and Abdelali Haoudi. 2009. [Stem Cells: Saving Lives or Crossing Lines—Qatar Stem Cell Workshop](#). Baker Institute Policy Report #44 (August).
- Matthews, Kirstin, and Neal Lane. 2009. [Science Collaborations Across Borders](#). Baker Institute Policy Report #42 (August).
- Kirstin Matthews, Smulcer, Lauren, Amy Myers Jaffe, and Neal Lane. 2009. [Sustainable U.S. Policy Options to Address Climate Change: Highlights of the Debate](#). Baker Institute Policy Report #41 (June).
- Matthews, Kirstin, and Neal Lane. 2008. [Human Embryonic Stem Cell Research: Recommendations for the Next Administration](#). Baker Institute Transition Paper (December).
- Lane, Neal, and Kirstin Matthews. 2008. [Science and Technology: Recommendations for the Next Administration](#). Baker Institute Transition Paper (December).
- Matthews, Kirstin, Lauren Smulcer, Amy Myers Jaffe and Neal Lane. 2008. [Beyond Science: The Economics and Politics of Responding to Climate Change](#). Baker Institute Conference Report.
- Matthews, Kirstin, and Neal Lane. 2007. [Hot Topic: Stem Cell Controversy—Are Human Skin Cells Really the Breakthrough?](#) Baker Institute What We're Thinking (December).
- Lane, Neal, and Kirstin Matthews. 2007. [Hot Topic: Innovation and Economic Competitiveness through Science and Technology](#). Baker Institute What We're Thinking (October).
- Matthews, Kirstin, and Neal Lane. 2007. [U.S. Stem Cell Policy—Unintended Consequences](#). Baker Institute What We're Thinking (October).
- Matthews, Kirstin. [Avenues for Advancement](#). 2007. Baker Institute Conference Summary (August).
- Matthews, Kirstin. 2006. [Lessons Learned: U.S. Embryonic Stem Cell Policies](#). Baker Institute Policy Report #33 (October).
- Matthews, Kirstin, and Amy Myers Jaffe, eds. 2006. [Bridging the Gap Between Science and Society: The Relationship Between Policy and Research in National Laboratories, Universities, Government and Industry](#). Conference proceedings (September).
- Neal Lane, Matthews, Kirstin, Amy Myers Jaffe and Rosina Bierbaum. 2005. ["Bridging the Gap Between Science and Society"](#) Baker Institute Study #32 (November).
- Matthews, Kirstin, and Neal Lane. 2005. [Stem Cells: Saving Lives or Crossing Lines](#). Baker Institute Study #31 (September).
- Matthews, Kirstin. 2004, 2005, 2006, 2007, 2008, 2009. [Stem Cell Science and Policy Overview](#).

BIOMEDICAL RESEARCH PUBLICATIONS

- Matthews, Kirstin W., Scott M. Drouin, Chengyu Liu, James F. Martin, Randall A. Skidgel, and Rick A. Wetsel. 2004. ["Expression of the Third Complement Component \(C3\) and Carboxypeptidase N Small Subunit \(CPN1\) during Mouse Embryonic Development."](#) *Developmental and Comparative Immunology* 28(6): 647-655.
- Matthews, Kirstin W., Stacey L. Mueller-Ortiz and Rick A. Wetsel. 2004. ["Carboxypeptidase N: a pleiotropic regulator of inflammation."](#) *Molecular Immunology* 40(11): 785-793.

- Matthews, Kirstin W., and Rick A. Wetsel. 2001. "[Characterization of Mouse Carboxypeptidase N Small Active Subunit Gene Structure.](#)" *Journal of Immunology* 166: 6196-6202.
- Kildsgaard, Jens, Travis J. Hollmann, Kirstin W. Matthews, Ka Bian, Ferid Murad, and Rick A. Wetsel. 2000. "[Cutting Edge: Targeted disruption of the C3a Receptor Gene Demonstrates a Novel Protective Anti-Inflammatory Role for C3a in Endotoxin-Shock.](#)" *Journal of Immunology* 165: 5406-5409.
- Hollmann, Travis J., David L. Haviland, Jens Kildsgaard, Kirstin Watts, and Rick A. Wetsel. 1998. "[Cloning, Expression, Sequence Determination and Chromosome Localization of Mouse Complement C3a Anaphylatoxin Receptor Gene.](#)" *Molecular Immunology* 35(3): 137-148.

OPINION ARTICLES-TRADITIONAL MEDIA

- Matthews, Kirstin R.W. and Akshaya Venkatesh. "[How to prevent misleading advertisements by stem cell clinics in Texas](#)" The Dallas Morning News. (November 19, 2022).
- Howard Ecklund, Elaine, David R. Johnson, and Kirstin R.W. Matthews. "[Turkey's scientists under pressure.](#)" *The Scientist*. (September 14, 2016)
- Michelle Rubin and Kirstin R.W. Matthews. "[With experimental drugs, "right to try" can go wrong.](#)" Texas Tribune July 29, 2016.
- Matthews, Kirstin R.W. and Ana S. Iltis. "[Finding a new approach to stem cell regulation.](#)" *Houston Chronicle* December 15, 2015.
- Matthews, Kirstin R. W. and Hagop Kantarjian. "[HPV Vaccine Should be Texas Requirement.](#)" *Houston Chronicle* October 3, 2014.
- Evans, Kenneth M., Padraig Moloney, and Kirstin R.W. Matthews. "[Time to Reinvest in Houston's Greatest Legacy.](#)" *Houston Chronicle*, October 28, 2012.
- Djerejian, Edward P., Neal F. Lane, and Kirstin R.W. Matthews. "[Science, Diplomacy, and International Collaboration.](#)" *Houston Chronicle*, March 20, 2011.
- Matthews, Kirstin R.W. and Maxie Hollingsworth. "[Making the Case for Civic Engagement in Schools.](#)" *Houston Chronicle*, April 8, 2010.
- Flynn, Jesse M., and Kirstin R.W. Matthews. "[Stimulus funds creating jobs for Houston scientists.](#)" *Houston Chronicle*, February 24, 2010.
- Matthews, Kirstin. "[Wanted: Federal Stem Cell Research Oversight.](#)" *Houston Chronicle*, February 15, 2009.

PRESENTATIONS

- | | |
|---------------|---|
| May 2023 | ISCT Annual Meeting, "Using Public and Science Diplomacy to Address the Unproven Stem Cell Intervention Marketplace", poster |
| April 2023 | Rice Synthetic Biology, graduate student seminar "Science Policy and the Role of Scientists in the Public Realm" |
| March 2023 | Wake Forest University, guest lecture "Irresponsible Conduct in Research" |
| November 2022 | NSF Research Traineeship in Bioelectronics, "What do you do?" graduate student lecture |
| October 2022 | ASBH Annual Meeting "CPRIT – the Cancer Prevention and Research Institute of Texas" |
| October 2022 | ASBH Annual Meeting "The Ethical, Legal and Social Implications of Human Stem Cell-Based Models of Early Embryo Development" |
| July 2022 | International Academy of Law and Mental Health, XXXVII Congress "Unproven Stem-Cell Based Interventions: Addressing Patients' Unmet Needs or Causing Patient Harms? " |
| July 2022 | International Academy of Law and Mental Health, XXXVII Congress "Genetic and Genomic Testing for Mental Health Disorders" |

June 2022	ISSCR Annual Meeting, "U.S. Medical Freedom Laws and Their Impact on Unproven Stem Cell Interventions," poster
June 2022	ELSI Con 2022 "Embryoids: What are they, should we be concerned, should they be regulated, and if so, how?"
November 2021	NSF Research Traineeship in Bioelectronics, "What do you do?" graduate student lecture
September 2021	University of Rochester & Columbia University "What do you do?" graduate student event
June 2021	ISSCR Annual Meeting, "Can You Do That Here? A survey of national and US state policies for human embryo and embryoid research," poster
May 2021	ISSCR Webinar, "Embryoids: The Need for Improved Naming Conventions"
March 2021	"Vaccine Hesitancy and Anti-vaccine Rhetoric", Rice University's Scientia Lecture series
December 2020	The Immunization Partnership (TIP) Advocacy Workshop "Vaccine Policies in Texas"
October 2020	ASBH Annual Meeting "Human Embryoids"
October 2020	ASBH Annual Meeting "Misinformation in a Health Information Pluralist Post Truth World" with Zubin Master and Jon Tilburt
September 2020	San Jose Clinic, Q&A with von Echanbauch, former FDA Commissioner
June 2020	ISSCR Annual Meeting, Ethics Pre-conference, "Embryoids, Synthetic Embryos, and Human Cell-culture Models of Early Development"
June 2020	ISSCR Annual Meeting, Science Policy Pre-conference, "Science Communication and Advocacy"
February 2020	AAAS Annual Meeting, Panel, "Germline Editing Human Embryos and the Policy Landscape"
October 2019	ASBH Annual Meeting "Human Embryo Research: What should we do, when should we do it and when should be refrain?" with Inmaculada de Melo-Martin.
October 2019	Science and Innovation Conference Atlanta 2019, "Science Advice to the President and the Role and Impact of the PCAST"
September 2019	International Society for Cell & Gene Therapy, Regional Meeting "Right to Try and Expanding Access to Experimental Stem Cell Interventions"
July 2019	ISHPSB Meeting, "The Failure of Research Guidelines and CRISPR Babies"
June 2019	ISSCR Annual Meeting, Ethics Pre-conference, "Stakeholders: Views from Scientists and the Public"
April 2019	American Physical Society (APS) Quarks and Cosmos Annual Meeting, "Trump in Context: History of Science Advice in the White House"
March 2019	Association for Practical and Professional Ethics (APPE) Annual Conference, "Drawing the Line: Scientific, Political and Ethical Perspectives on Human Embryo Research" with Ana S. Iltis
October 2018	ASBH Health and Science Policy Affinity group presentation, "Human Embryo Research" with Inmaculada de Melo-Martin.
October 2018	Baylor College of Medicine TBMM 2018 Annual Retreat, "Careers in Science" Panel participant
July 2018	EuroScience Open Forum biennial meeting, panel discussion "Stem Cells: The exploitative marketing techniques of under-regulated clinics" with Ana S. Iltis and Timothy Caulfield
June 2018	ISSCR Annual Meeting, "Reconsidering the 14-day Rule"
May 2018	Baker Event "Drawing the Line", oral presentation "US Human Embryo Politics & Policies"

January 2018	National Academy of Science, Engineering and Medicine (NASEM), Government Decision-making to Allocate Scientific Resources, presented "Science Advice to the President and the Role of PCAST"
October 2017	ASBH annual meeting, "Research Conduct and Responsibilities of Biologists and Physicists in Different National Contexts"
October 2017	Texas A&M Institute of Biosciences & Technology seminar "Science Policy and Advice in the Trump Administration"
October 2017	Baker-THI event "Charlie's Law: Increase Access to Stem Cell Interventions in Texas"
June 2017	ISSCR Annual Meeting, "Assessing and analyzing the 14-day guideline on human embryo research from ethical and political and scientific perspectives"
April 2017	Undergrad and graduate students from The University of Texas at San Antonio and The University of Texas Rio Grande Valley in a panel discussion, "Science Policy and the Role of Scientists in the Public Realm"
February 2017	AAAS, Annual Meeting, panel organizer, "Unfinished Business: Science Policy Agenda for the White House in the New Administration"
October 2016	ASBH, annual meeting, "Insider and Outsider Views on Responsible Conduct in Research" and "NTD and health disparities"
September 2016	Qatar Leadership Center Houston Meeting, presented "Stem Cells and Regenerative Medicine Therapies"
September 2016	Baker-THI event "Stem Cell Tourism Near and Far: Achieving a Compromise for the Patient"
June 2016	International Association for Bioethics (iAB) conference, "Different Understandings and Interpretations of Research Ethics and Integrity among Biologists and Physicists around the World"
June 2016	ISSCR Annual Meeting, poster, "Unproven Stem Cell Interventions and Encouraging Collaboration Between Regulators and Desperate Patients within the Clinical Trial Process"
October 2015	ASBH annual meeting, "Ethics and Research: An International Perspective"
June 2015	ISSCR Annual Meeting, poster "Unproven Stem Cell Treatments and Re-evaluating the Role of the US FDA: Bringing the Lost and Desperate Back Home," "Narratives of Research Integrity Among Biologists and Physicists in the UK and India" and "Umbilical Cord Blood Banking: Public Opinion and Awareness in Jordan".
April 2015	The 8 th International Conference on Ethics in Biology, Engineering and Medicine, presented "Narratives of Research Integrity: Biologists and Physicists in The UK and India"
March 2015	Baker Institute Roundtable Coffee Talk, presented "Regenerative Medicine Therapies: Promises and Pitfalls"
February 2015	Texas Medical Center 4 th Annual Presidential Career Symposium, "Science Policy" Panel Respondent
February 2015	The University of Texas at Austin, Graduate Professional Development Seminar Series, "Science Policy and the Role of Scientists in the Public Realm: From biologist to science policy scholar"
December 2014	World Stem Cell Summit, Panel Discussant "Public Policy and Ethics-Challenges and Solutions"
November 2014	"Driving Regenerative Medicine to the Clinic", respondent "Unproven Stem Cell Treatments and Re-evaluating the US FDA Policies"
June 2014	ISSCR Annual Meeting, poster "How Should the National Football League Tackle Unproven Stem Cell Treatments?"

February 2014	Texas Medical Center 3 rd Annual Presidential Career Symposium, “Science Policy” Panel Respondent
June 2013	ISSCR Annual Meeting, poster “AMP v. Myriad Genetics: Genes Patents, Patenting Life and the Impact on US Stem Cell Research” and “More than Oil and Uprisings: Current Developments in Cord Blood Banking in the Arab World”.
June 2012	ISSCR Annual Meeting, in pre-conference Ethics & Public Policy workshop “Can We Share Please: Transferring and Sharing Materials”.
June 2012	ISSCR Annual Meeting, poster “Highlights and Themes from the Qatar International Conference in Stem Cell Science and Policy” and “Defining ‘Research’ in the U.S. and EU: Contrast of Sherley and Greenpeace Rulings”.
February 2012	Baker Institute-Qatar Foundation “2012 Qatar Stem Cell Research and Policy Issues Conference” in Doha, Qatar, presented “International Stem Cell Policies.”
November 2011	“Cultural Heritage 2.0: Participatory Stewardship” discussion, presented similarities between ownership rights in arts and genomics
July 2011	“Challenges and Solutions in Medicine in the 21st Century” conference, presented “Stem Cell Research and Regenerative Medicine: Current Hope and Future Benefits”
June 2011	ISSCR Annual Meeting, poster “International Stem Cell Collaborations: How Disparate Policies between the United States and the United Kingdom Impact Research” in poster session.
July 2010, 2009	National Youth Leadership Forum on Medicine, presented “Stem Cell Research”
June 2010	ISSCR Annual Meeting, poster “Stem Cell Research in the Greater Middle East: the Importance of Establishing Policy and Ethics Interoperability to Foster International Collaborations” in poster session.
March 2010	The University of Texas LBJ School of Public Affairs, presented “Embryonic Stem Cell Research: Politics and Policy”
March 2010	Rice University, “Perspectives on Stem Cells,” spoke to class on stem cell policy
February 2010	Rice University, “Science at Risk,” spoke to class on public science and outreach
September 2009	Rice University, Professional Science Master’s Program Seminar Series, presented Baker Institute Science and Technology Policy Program overview
July 2009	ISSCR Annual Meeting, poster “Stem Cell Research in the Middle East” in poster session.
July 2009	Rice University, Department of Bioengineering Graduate Seminar Series, presented careers in policy
October 2008	AAAS, Science Diplomacy and International Collaboration presented on Baker Institute and Rice University science diplomacy efforts
November 2007	The University of Texas Health Science Center at Houston, Career Development Seminar
July 2006	HEADS-UP Advance Genetics Teacher Summer Science Institute, presented U.S. stem cell policy
May 2006	Leadership Houston, presented finding and recommendations from <i>Code Red: The Health of Texas</i>
March 2004	Baylor College of Medicine, Career Day Symposium

CONFERENCES ORGANIZED

Stem Cell Policy: [Stem Cells: Saving Lives or Crossing Lines](#) (November 2004, March 2006, October 2006, March 2009, September 2009, February 2012)

Health and Biosciences Policy: [The Global Health Design Challenge Symposium: Integrated Technology Solutions to Advance Global Health](#) (April 2007) with Rice University's Beyond Traditional Borders; [Charting a Path in the NTD World: A Student Workshop](#) (September 2015); [The U.S. and Mexico—Addressing a Shared Legacy of Neglected Tropical Diseases and Poverty](#) (September 2015); [Global Health in a Globalized Texas](#) (April 2016); [Drawing the Line: Ethical, Policy and Scientific Perspectives on U.S. Embryo Research](#) (May 2018) ; [Drawing the Line: Assessing and Analyzing the International Guidelines on Human Embryo Research](#) (December 2018); [2022 Texas Vaccine Policy Symposium](#) (October 2022)

General S&T Topics: [Bridging the Gap Between Science and Society](#) (November 2003); [Improving Science and Math Education: Texas Confronts the Gathering Storm](#) (October 2007); [Norman Hackerman Memorial Symposium: The Corroding of America's Infrastructure](#) (February 2008) [International Scientific Collaboration: American and Chinese Cultures](#) (April 2009); [Exploring the Implications of Religion Among Scientists in the U.K. and India](#) (September 2014); [Developing the Next Generation of Civic Scientists](#) (April 2022); DeLange Conference, Brave New Worlds (February 2024)

Public Diplomacy and Global Policymaking in the 21st Century: [The 2012 Qatar Colloquium](#) (March 2012); [The 2013 Houston Colloquium](#) (March 2013); [The 2014 Doha Conference](#) (March 2014)

Environment and Climate Change: [Beyond Science: The Economics and Politics of Climate Change](#) (February 2008); [Emerging U.S. Climate Policy: Trans-Atlantic Approaches and Market Harmonization](#) (December 2008); [Texas Coral Reefs: Today, Yesterday and Tomorrow](#) (August 2012)

EVENTS ORGANIZED

Civic Scientists: Arden Bement "[When the Jobs in the Nation Change, So Does the Job of the Scientist](#)" (November 2006); Shirley Ann Jackson "[From Uncertainty to Opportunity: Creating a Comprehensive Energy Roadmap and the Human Capital to Make It Happen](#)" (November 2007); Bruce Alberts "[Redefining Science Education and the Role that Scientists Play in Society](#)" (February 2009); Robert Curl and Harry Kroto, (October 2010); Jane Lubchenco "[Restoring Science to Its Rightful Place: Its Role in America's Future](#)" (December 2011); David Baltimore and Alice Huang (April 2012); Subra Suresh (November 2012); Sylvia Earle "[The Gulf of Mexico: Exploring and Caring for the Ocean that Unites Three Countries](#)" (February 2013); Rita Colwell "[Oceans, Climate and Health: Cholera as a Model of Infectious Diseases in a Changing Environment](#)" (March 2013) ; Neal Lane, John Mendelsohn and David Eagleman "[Panel Session on Advancing Civic Science in America](#)" (April 2014); Peter Hotez and Robert Bazell "[Influenza, SARS, Ebola and the Next Pandemic: Perceptions in the Media and Public](#)" (February 2015); Steven Chu and Norman Augustine "[Restoring the Foundation](#)"; David Laude "[Creating a Campus Culture where Every STEM Student Graduates](#)" (November 2015); Marcia McNutt "[Science Advice for Policy Decisions: Is Anyone Listening?](#)" (October 2016); Sylvester James Gates, Jr. and Jeanette Wing "[Science, Technology and Innovation Policy in the New Administration](#)" (February 2017); William Press "[Science in Action: Advice on Convincing a Skeptical Public](#)" (April 2017); France Cordova "[Creating the Future of Water Treatment](#)" and "[Ten Big Ideas: Realizing NSF's Vision for Future Research and Discovery](#)" (April 2017); Vint Cerf "[The Future of the Internet](#)" (September 2018); Kelvin Droegemeier "[A Bold New Era of American Science and Technology](#)" (November 2019); [Diversity in Science and Engineering](#) with Shirley Malcom and Richard Tapia (September 2020); Antonio Neri, "[Innovation and the Workforce of the](#)

[Future](#)” (October 2021) Sethuraman Panchanathan “[Innovation, Science Education, and the Enhancement of Americans’ Quality of Live](#)” (October 2022)

Medicine, Research and Society Policy Issues Series (2008-2019): [Elias Zerhouni breakfast lecture, former director of the National Institute of Health](#) (December 2008); [The Impact of Comparative Effectiveness Research on the U.S. Health Care System](#) (February 2010); [Personalized Genomic Medicine: Genetics in Health Care](#) (December 2010); [Science and the Media](#) (April 2012); “[The Use of Technology to Deliver Healthcare](#)” (May 2014); “[HPV Vaccination: A Public Health Opportunity, A Public Responsibility](#)” (December 2014); Joe Biden “[The White House Cancer Moonshot: Collaborating to End Cancer](#)” (September 2016); [HPV-related Cancers: Opportunities for Cancer Prevention](#) (December 2016); [Dr. John Mendelsohn’s Legacy and the Future of Cancer Research](#) (September 2019)

Stem Cell Policy: Stephen Minger “[The New Consensus: How Scientists and Government Created New Embryo Legislation in the United Kingdom.](#)” (February 2009); [Charles Reed, Patenting Science: The Implications of the Embryonic Stem Cell Patent Battle](#) (February 2008); [Stem Cell Policy in the Obama Age](#) (September 2009); [The Fate of Embryonic Stem Cell Research: Examining the Legal Battle Behind the Science](#) (September 2010); Melinda Fagan “[Knowledge in Flesh and Blood: Philosophy of Stem Cell Biology](#)” (September 2011); Sean Morrison “[Creating Stem Cell Policy at the Interface of Science and Politics](#)” (September 2012); Deepak Srivastava “[Stem Cells, Regenerative Medicine and Policy Impediments to the New Future](#)” (October 2014);

Regenerative Medicine Series with Texas Heart Institute: [Stem Cell Tourism Near and Far: Achieving a compromise for the patient](#) (September 2016); [Charlie’s Law: Increased Access to Stem Cell Interventions in Texas](#) (October 2017); [Texas’ Stem Cell Future](#) (January 2019); [Stem Cell Therapies 2020: Are We There Yet?](#) (March 2020); [Regenerative Medicine: Proven Treatments, Unproven Treatments, and the Policies that Promote them Both](#) (May 2021); [Regenerative Medicine: Highlight and Correcting Misinformation](#) (September 2022)

Health Policy: Mark McClellan breakfast lecture, “[The Future of U.S. Health Care](#)” (October 2007); Peter Hotez “[Innovation in the Control of the Neglected Tropical Diseases](#)” (October 2011); Timothy Caulfield “[When Celebrity Culture and Science Clash: The Twisting of Research and Health Policy](#)” (March 2015); Peter Hotez “[The Novel Coronavirus and its Impact on Global Security](#)” (March 2020 – virtual); Peter Hotez and Rekha Lakshmanan “[COVID-19: Update on Vaccine Development](#)” (May 2020 – virtual); Peter Hotez and Capo “[Schools and COVID-19: When to Return to Normal?](#)” (August 2020 – virtual); Peter Hotez and Peter Marks “[COVID-19 Vaccines: Clinical Trials, Approval and Addressing Public Hesitancy](#)” (December 2020); [Preventing the Next Pandemic: Vaccine Diplomacy in the Time of Anti-science](#) (May 2021)

Environmental and Climate Change: [The Challenges of Communicating Climate Change](#) (March 2010); [Japan: The Aftermath](#) (April 2011); Julia Sling “[Society’s Growing Vulnerability to Natural Hazards and Implications for Weather and Climate Research](#)” (February 2012); Andrew Dessler “[The Alternative Reality of Climate Skepticism](#)” (October 2014); [Ice and the Sky](#) (April 2016)

General S&T Topics: [Scientific Integrity in the Bush Administration: A Conversation with Smalley and Lane](#) (April 2004); [Mock Congressional Hearing: Nanotechnology in Medicine](#) (February 2005); John Podesta “[U.S. Technology Policy: Striking a Balance Between Knowledge and Security](#)” (April 2005); Sally Ride “[Reaching for the Stars: Increasing the Role of Women in Science and Engineering](#)” (November 2005); [Evolution and Intelligent Design: To Teach or Not to Teach?](#) (March 2006); Chris Mooney “[Unscientific America: How Scientific Illiteracy Threatens Our Future](#)” (February 2010); Elaine Howard Ecklund “[Science vs. Religion: What Scientists Really Think](#)” (April 2010); Science, Diplomacy and International Cooperation (March 2011); Ann Morning “[The Nature of Race: How Scientists Think and Teach About Human Difference](#)” (September

2011); Cathy N. Davidson “[Now you see it: How the brain science of attention will transform the way we live, work and learn](#)” (February 2012); [The Vital Role of the White House Office of Science and Technology Policy in the New Administration](#) (September 2016); [Secularity and Science: What Scientists Around the World Really Think About Religion](#) (September 2019); [US Policies on Scientific Cooperation with China: Furthering National Security, Diplomacy, Competitiveness or Discrimination?](#) (June 2020); [Lessons from COVID-19: Efficiency vs Resilience](#) (August 2020); [Infrastructures for Innovation](#) (November 2020); [Trust in Science: Public Engagement is Crucial](#) (January 2021); [Covid-19, Climate Change, and Reaching Across the Aisle](#) (January 2021); [Evolution, COVID-19 and Communicating Controversial Science to the Public](#) (March 2021); [America at a Tipping point: Science and Technology Opportunities for the Biden Administration](#) (March 2021); [Hydrogen, Nanotechnology and Advanced Carbon Materials: Future Sight to Sustainable Net-Zero](#) (April 2021); [America's Unprecedented Challenges in the Key Technologies that Underpin the Nation's Competitiveness and Security](#) (April 2021); [International Scientific Collaboration: Critical Tasks for the Biden Administration](#) (May 2021); [Science for the Public Good: Who is Benefiting?](#) (September 2021); [Scientists Developing Policy: Views from the White House Office of Science and Technology Policy](#) (November 2021); [The President's Scientists: The Evolving Role of Science Advice to the White House](#) (November 2022); [Accelerating Research into Innovation: What Universities and the US Patent Office Can Do to Pick Up the Pace](#) (April 2023)

TEACHING AND RESEARCH EXPERIENCE

2020	Organized and taught “Developing Civic Scientist Leadership” a science and engineering graduate student course on science policy and public policy engagement
2013-present	Co-organized and taught BIO 547/447 (with Daniel Wagner) “Experimental Biology and the Future of Medicine”
2011-present	Organized and taught NSCI 511 “Science Policy and Ethics”
2012-2014	Organized and taught UNIV 312 “Public Diplomacy and Global Policymaking in the 21st Century: Student Colloquium in Qatar”
2010	Co-taught (with Elaine Howard Ecklund) SOCI 311 “Science at Risk: Out of the Lab and Into the Public Sphere”
2004	Co-organized (with Neal Lane and Kristen Kulinowski) course NSCI 511 “Science and Technology Policy”
2000	Teaching assistant, graduate course “Advanced Topics in Biochemistry and Molecular Biology”
1996-2003	Graduate research assistant
1999-2001	Mentored undergraduate student (University of Houston)
1995	Dow Chemical (Lake Jackson) chemistry summer intern
1994-1995	Undergraduate research assistant, Dr. Jonathan Sessler, The University of Texas at Austin

CURRENT AND PAST STUDENTS

Katherine Wheat	Summer 2004-2005, Spring 2006
Inna Hussein	Fall 2004
Jason Lee	Spring 2005
Noorain Khan	Fall 2005-Spring 2006
Bhavika Kaul	Fall 2006-Spring 2007
Bohang “Arthur” Zhang	Fall 2006-Spring 2007
Ezgi Alhun	Summer 2006 (Graduate Intern)
Jenny Kingsley	Summer 2007-Spring 2008

Sarah Tambra	Summer 2007-Fall 2007
Alexandria Meyer	Summer 2007 (High School Intern)
Jessica Carter	Spring 2008
Jennifer Luo	Summer 2008
Jesse M. Flynn	Summer 2008-Summer 2010 (Graduate Intern)
Chris Choi	Fall 2008 – Spring 2009
Alec Walker	Fall 2008
Kara Calhoun	Fall 2008-Spring 2011
Mishal Thadani	Summer 2009
Nathan Lo	Summer 2009-Spring 2011
David Liou	Fall 2009 – Spring 2010
Rachel Solnick	Fall 2009 - Summer 2010
Maude Rowland	Fall 2009 – Fall 2011 (Graduate Intern)
Kenneth Evans	Fall 2009 – Spring 2015 (Graduate Intern)
Rachel Chiu	Spring 2011
Brent Carey	Fall 2010 - Summer 2011 (Graduate Intern)
Padraig Moloney	Fall 2010-Summer 2011 (Graduate Intern)
Monica Matsumoto	Summer 2011-Fall 2014
Devon Rule	Summer 2011 – Spring 2013
David Kaplan	Summer 2011 (High School Intern)
Robin Soares	Spring 2012
Meredith Jackson	Summer 2012-Spring 2013
George Romar	Summer 2012-Spring 2013
Rohini Sigireddi	Summer 2013 – Spring 2014
Rishi Suresh	Summer 2012 (High School Intern)
Justin Chen	Fall 2012 – Spring 2013
Andrew Treleaven	Fall 2012 – Spring 2013 (Graduate Intern)
James “Hunter” Lockhart	Spring 2013 (Graduate Intern)
Megan Weintraut	Spring 2013 (Graduate Intern)
Melissa Lopez	Summer 2013 – Fall 2013 (Graduate Intern)
Walter “Hust” Williamson	Fall 2013 – Spring 2014
Kelli Baalman	Fall 2013 – Spring 2014 (Graduate Intern)
Jackie Olive	Fall 2013 – Spring 2017
Nikhil Shamapant	Summer 2014 – Spring 2015
Jon Flynn	Summer 2014 – Fall 2016 (Graduate Intern)
Sarah Dew	Spring 2015
Erin Yang	Spring 2015 - Spring 2017
Anita Alem	Summer 2015 - Spring 2017
Amanda Goodman	Summer 2015 - Spring 2016 (Graduate Intern)
Michelle Rubin	Summer 2015 -Fall 2016 (Graduate Intern)
Ranjini Nagaraj	Summer 2016 – Spring 2017
Tejus Satish	Summer 2016
Sam Paulsen	Summer 2016 – Fall 2016 (Graduate Intern)
Anjali Bhatla	Fall 2016-Spring 2017
Brittany Lai	Fall 2016 – Fall 2019
Melody Tan	Fall 2016 – Summer 2021 (Graduate Intern)
Anusha Gandhi	Summer 2017
Nuria Gallego Marquez	Summer 2017 – Spring 2019
Richard Bui	Summer 2017 – Spring 2020
Katherine Bartos	Spring 2018 – present
Bhavana Kunisetty	Spring 2018 – Spring 2019
Sophia Huang	Summer 2018 – Spring 2019
Alice Liu	Summer 2018 – Fall 2018

Divya Choudhury	Summer 2018 – Fall 2018
Kathryn Kundrod	Summer 2019 – Spring 2020 (Graduate Intern)
Sarah Lacaster	Summer 2019 – Spring 2020
Varsha Varghese	Summer 2019
Spoorthi Kamepali	Summer 2019 – Fall 2020
Gabriella Hazan	Spring 2020 – Spring 2021
Jordin Metz	Summer 2020 – Spring 2022 (Graduate Intern)
Stanley Tsou	Summer 2020 – Summer 2021
Faiad Alem	Summer 2020 – Spring 2021
Bridgette Ramirez	Summer 2021
Samantha Lowe	Summer 2021 – Spring 2022
Skye Fredericks	Summer 2021
Yuv Sachedeva	Fall 2021 – Spring 2022
Soumya Somani	Fall 2021 - present
Hallie Trial	Fall 2021 – Spring 2022
Akshaya Venkatesh	Summer 2022 – Summer 2023 (Graduate Intern)
Tietchan Dang	Summer 2022
Yufei Qi	Summer 2022 – present
Neha Tallapragada	Summer 2022 – Spring 2023
Neha Kalakuntla	Summer 2022 – Fall 2022
Manna Trevino	Spring 2023 – present
Nelly Akhmadikina	Summer 2023 – present (Graduate Intern)
Dilmi Ranpatabendi	Summer 2023 – present (Graduate Intern)
Caroline Snider	Summer 2023 – present
Ishani Kaul	Summer 2023 – present
Victoria Lopez	Summer 2023
Devin Von Arx	Summer 2023 – present

CURRENT COLLABORATIONS AND PROJECTS

National Science Foundation [2023-2026], coPI, “EFRI ELiS: Living Microbial Sensors for Real-Time Monitoring of Pathogens in Wastewater” \$1,999,271 [Grant No. K51LECU1G8N3]
Rita Allen Foundation [2023-2025], PI, “Baker Institute Civic Scientist Fellow” \$150,000
Greenwall Foundation [2022-2023], PI, “Disseminating Vaccine Information and Increasing Equity During the 2023 Texas State Legislative Session” \$49,974
Hamman Foundation [2015-2023] PI “International Stem Cell Policy Issues Series” with Texas Heart Institute \$10,000/year

PREVIOUS FUNDING AND GRANTS [2018-2023]

National Science Foundation [2019-2022], PI, “The President’s Scientists: Understanding the Role and Impact of the President’s Council of Advisors on Science and Technology (PCAST)” \$321,927 [Grant No. SBE 1854005]
Humanities Texas [2022-2023], coPI “White House Science Advisor Digital Archive” \$5,450
Lounsbery Foundation [2021-2022], coPI “Science Advice in the White House: The OSTP & PCAST Digital Archive” \$50,023
National Science Foundation [2020-2021], PI, “Conference Proposal: Promoting Scientific Research and Development in the United States and Engaging Invested Stakeholders, Policymakers, and Students” \$48,732 [Grant No. OIA 2042854]
Kavli Foundation grant [2020-2021], PI, “Promoting Basic Research in the United States: A Dissemination Program to Engage Invested Stakeholders, Policymakers and Students in Science and Engineering” \$78, 807
Rice University’s Doerr Institute [2019-2021] PI, “Developing Civic Scientist Leadership”, \$28,500

The Immunization Partnership [2019-2021] PI, “Texas Vaccination Policy” \$20,000

Brocher Foundation [2017-2019] “Drawing the line: Assessing and analyzing the international rule on embryo research from ethical, political and scientific perspectives”—with coPIs Dan Wagner (Rice University), Ana Iltis (Wake Forest University), Ali Brivanlou (Rockefeller University), \$6,000

The University of Texas MD Anderson Cancer Center [2008-2019], PI, “Medicine, Research and Society Policy Issues Series” \$25,000/year

Greenwall Foundation [2017-2018], PI “Drawing the line: Assessing and Analyzing the US rule on embryo research from ethical, political and scientific perspectives”—coPIs Dan Wagner (Rice University), Ana Iltis (Wake Forest University), Ali Brivanlou (Rockefeller University), Inma de Melos-Martin (Weill-Cornell Medical College) and Jason Robert (Arizona State University), \$159,937

National Science Foundation grant [2017-2018], PI, “Science Policy Research Report: Advising the President on Science Policy and the Role of the President's Council of Advisors on Science and Technology (PCAST)” \$50,000