Stanford



Christopher Thomas Scott, PhD, MLA

Sr Research Scholar, Pediatrics - Center for Biomedical Ethics

Curriculum Vitae available Online

Bio

BIO

Christopher Thomas Scott, MLA, PhD, was the Dalton Tomlin Professor of Clinical Ethics and Research Policy at Baylor College of Medicine. From 2016-2024 he was the founding director of the Health Policy Program and the Science and Research Policy Teaching Track for medical students. He is the author of over 120 publications, books and chapters on the ethical, legal, and social implications (ELSI) of emerging biotechnologies. His NIH RO1 grants were the first ELSI awards on human genome editing, and has recieved funding from the NSF, NCI and varous foundations. He is research emeritus at Stanford and was Director of the Stanford Program on Stem Cells in Society, faculty and senior research scholar at the Center for Biomedical Ethics, and member of the Institute for Stem Cell Biology and Regenerative Medicine. Dr Scott is an associate faculty at University of British Columbia's National Core on Neuroethics. Scott is widely published in high impact journals such as Cell, Cell Stem Cell, Nature Methods, Nature Biotechnology, and the American Journal of Bioethics. His introductory text on stem cell biology, Stem Cell Now (Penguin/Plume) has been translated into four languages. He has taught stem cell biology to undergraduates and directed three Stanford courses on the ethics, policy and law of stem cell research. He was a contributing editor at Nature Biotechnology and served on the editorial boards of several journals. A former cell biologist, Scott was the Assistant Vice Chancellor at the University of California, San Francisco (UCSF), and co-founded Acumen Sciences, a research and consulting company based in San Francisco. He was past President and CEO of The Stem Cell Advisors, a non-profit company providing stem cell research oversight for biotechnology companies. He is one of only a handful of senior officials awarded for their contributions to Stanford's research enterprise. He is regularly featured in national and local coverage of ethics and policy, including ABC, BBC, NBC, PBS, The New York Times, The Boston Globe, Time, U.S. News and World Report, Boston Globe, The Atlantic Monthly, Nightline, UPI, Fox, and NPR's Fresh Air with Terry Gross, Talk of the Nation, and TechNation.

ACADEMIC APPOINTMENTS

- Sr Research Scholar, Pediatrics - Center for Biomedical Ethics

ADMINISTRATIVE APPOINTMENTS

- Associate Director, Beckman Center for Molecular Medicine, Stanford University School of Medicine, (1992-1998)
- Director, Corporate Development, Stanford University School of Medicine, (1994-1996)
- Associate Director, Program on Molecular and Genetic Medicine, Stanford University School of Medicine, (1994-1999)
- Executive Director, ACCESS Clinical Trials, Stanford Medical Center, (1996-1997)
- Director, Research Development, Stanford University Medical Center, (1998-2000)
- Institutional Review Board (non voting), Stanford University, (1998-2000)
- Assistant Vice Chancellor, University of California, San Francisco, (2000-2002)
- Founder, UCSF Center for Bioentrepreneurship, University of California, San Francisco, (2000-2002)

- Course Director, Stem Cell Biology, Program in Human Biology, (2006-2008)
- Director, Program on Stem Cells in Society, Stanford Center for Biomedical Ethics, (2006- present)
- Stem Cell Research Advisory Panel, Stanford University, (2007-2009)
- Director, Health Policy Program, Baylor College of Medicine, (2016-2019)
- Director, Health Policy Teaching Track, Baylor College of Medicine, (2016-2022)
- Associate Director, Center for Medical Ethics and Health Policy, Baylor College of Medicine, (2016-2024)
- Dalton Tomlin Chair in Medical Ethics and Research Policy, Baylor College of Medicine, (2017-2024)

HONORS AND AWARDS

- Research Fellow, University of Sheffield (2008)
- Research Fellow, King's College London (2007)
- Knight Fellows Favorite Professor Award, Knight Fellows Program, Stanford (2006,2008)
- Marsh O'Neill Award (Contributions to Stanford's research enterprise), Stanford University (1999)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Ethics and Policy Committee, International Society for Stem Cell Reseach (2006 - 2011)
- Contributing Editor, Nature Biotechnology (2007 - 2022)
- Editorial Board, Cell Stem Cell (2008 - 2023)
- Editorial Board, Stem Cell Reviews and Reports (2008 - 2024)
- Fellow, Stanford Center for Integration of Research on Genetics and Ethics (2009 - 2017)
- Member, Stanford Institute for Stem Cell Biology and Regenerative Medicine (2010 - 2017)
- Member, Stanford University Center for Human Embryonic Stem Cell Research and Education (2010 - 2017)
- Advisory Committee on Human Subjects Research, PLOS1 (2014 - 2017)
- Associate Faculty, National Core for Neuroethics, University of British Columbia (2014 - 2024)
- Member, Dan Duncan Cancer Center, Baylor College of Medicine (2019 - 2024)

PROFESSIONAL EDUCATION

- PhD, The University of British Columbia , Policy, Bioethics (2013)
- MA, Stanford University , Policy, Bioethics (2005)
- BA, Colorado University , Biological Sciences (1978)

COMMUNITY AND INTERNATIONAL WORK

- International Society of Stem Cell Research, Boston, MA
- The Stem Cell Advisors, Palo Alto, California

LINKS

- My Twitter Feed: https://twitter.com/TheStemCell
- My LinkedIn: http://linkd.in/1gMljPf
- My Facebook page: https://www.facebook.com/christopher.thomas.s

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Program on Stem Cells in Society: Areas of Scholarly Concentration

1) Study the political, legal, ethical, technological and economic impacts of stem cell research.

2) Educate undergraduate and graduate students and provide outreach to secondary schools and the general public about stem cell research.

3) Serve as a resource for academicians, public officials and the public on the scientific, legal and ethical impacts of stem cell research.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Stem Cell Biology and Regenerative Medicine (PhD Program)

Publications

PUBLICATIONS

- **Backward by Design: Building ELSI into a Stem Cell Science Curriculum** *HASTINGS CENTER REPORT*
  Scott, C. T.
  2015; 45 (3): 26-32
- **The Case for Stem Cell Counselors** *STEM CELL REPORTS*
  Scott, C. T.
  2015; 4 (1): 1-6
- **Money and morals : ending clinical trials for financial reasons.** *Current topics in behavioral neurosciences*
  Eaton, M. L., Kwon, B. K., Scott, C. T.
  2015; 19: 297-315
- **The time is ripe for an ethics of entrepreneurship.** *Nature biotechnology*
  Scott, C. T., Borgelt, E. L., Lee, S. S.
  2014; 32 (4): 316-318
- **Great expectations: autism spectrum disorder and induced pluripotent stem cell technologies.** *Stem cell reviews*
  Liu, E. Y., Scott, C. T.
  2014; 10 (2): 145-150
- **Wrongful Termination: Lessons from the Geron clinical trial** *Stem Cells Translational Medicine*
  Scott, C. T., Magnus, D. C.
  2014; in press
- **Backwards by Design: Integrating ELSI into a stem cell science curriculum** *Hastings Center Reports*
  Scott, C. T.
  2014; in press
- **Europe's Landmark Decisions on Stem Cell Patents. Hope or mere illusion?** *American Intellectual Property Law Association Quarterly Journal*
  Senatore, V., Scott, C. T.
  2014; in press
- **Dear student: stem cell scientists' advice to the next generation.** *Cell stem cell*
  Borgelt, E. L., Dharamsi, S., Scott, C. T.
  2013; 12 (6): 652-655
- **Position statement on the provision and procurement of human eggs for stem cell research.** *Cell stem cell*

Haimes, E., Skene, L., Ballantyne, A. J., Caulfield, T., Goldstein, L. S., Hyun, I., Kimmelman, J., Robert, J. S., Roxland, B. E., Scott, C. T., Solbakk, J. H., Sugarman, J., Taylor, et al
2013; 12 (3): 285-291

- **Fit to Print: Media Accounts of Unproven Medical Treatments Across Time** *American Journal of Bioethics Primary Research*
  Chang WC, Bank TC, Scott CT
  2013: DOI:10.1080/21507716
- **The Race Is On: Human Embryonic Stem Cell Research Goes Global** *STEM CELL REVIEWS AND REPORTS*
  DeRouen, M. C., McCormick, J. B., Owen-Smith, J., Scott, C. T.
  2012; 8 (4): 1043-1047
- **Personal medicine-the new banking crisis** *NATURE BIOTECHNOLOGY*
  Scott, C. T., Caulfield, T., Borgelt, E., Illes, J.
  2012; 30 (2): 141-147
- **Expand and Regularize Federal Funding for Human Pluripotent Stem Cell Research** *Journal of Policy Analysis and Management*
  Owen-Smith J, Scott, CT, McCormick, JB. 1 FEB 2012 DOI: 10.1002/pam.21607
  2012
- **Democracy Derived? New Trajectories in Pluripotent Stem Cell Research** *CELL*
  Scott, C. T., McCormick, J. B., DeRouen, M. C., Owen-Smith, J.
  2011; 145 (6): 820-826
- **The European Court of Justice Ruling in Brüstle v. Greenpeace: The Impacts on Patenting of Human Induced Pluripotent Stem Cells in Europe** *Cell Stem Cell*
  Kathryn Triller Vrtovec, Christopher Thomas Scott
  2011; 9 (6): 502-503
- **Donation of Embryos for Development and Emryonic Stem Cell Research** *Cell Stem Cell*
  Kalista K, Freeman AH, Behr, B, Rejio-Pera, R, Scott, CT
  2011; 8: 362-364
- **Federal policy and the use of pluripotent stem cells** *NATURE METHODS*
  Scott, C. T., McCormick, J. B., DeRouen, M. C., Owen-Smith, J.
  2010; 7 (11): 866-867
- **Pluripotent patents make prime time: an analysis of the emerging landscape** *NATURE BIOTECHNOLOGY*
  Simon, B. M., Murdoch, C. E., Scott, C. T.
  2010; 28 (6): 557-559
- **Hochschullehrerprivileg-A Modern Incarnation of the Professor's Privilege to Promote University to Industry Technology Transfer** *SCIENCE TECHNOLOGY AND SOCIETY*
  Greenbaum, D., Scott, C.
  2010; 15 (1): 55-76
- **The Language of Hope: Therapeutic Intent in Stem Cell Clinical Trials** *American Journal of Bioethics Primary Research*
  Scott CT, DeRouen MC, Crawley LC
  2010; 1 (3): 4-11
- **Stem Cell Tourism and the Power of Hope** *AMERICAN JOURNAL OF BIOETHICS*
  Murdoch, C. E., Scott, C. T.
  2010; 10 (5): 16-23
- **Stem cell research policy and iPS cells** *NATURE METHODS*
  Caulfield, T., Scott, C., Hyun, I., Lovell-Badge, R., Kato, K., Zarzeczny, A.
  2010; 7 (1): 28-33
- **iPS Cells: Mapping the Policy Issues** *CELL*
  Zarzeczny, A., Scott, C., Hyun, I., Bennett, J., Chandler, J., Charge, S., Heine, H., Isasi, R., Kato, K., Lovell-Badge, R., McNagny, K., Pei, D., Rossant, et al

2009; 139 (6): 1032-1037

- **And then there were two: use of hESC lines** *NATURE BIOTECHNOLOGY*
  Scott, C. T., McCormick, J. B., Owen-Smith, J.
  2009; 27 (8): 696-697
- **Ethics report on interspecies somatic cell nuclear transfer research.** *Cell stem cell*
  Skene, L., Testa, G., Hyun, I., Jung, K. W., McNab, A., Robertson, J., Scott, C. T., Solbakk, J. H., Taylor, P., Zoloth, L.
  2009; 5 (1): 27-30
- **We must reverse the Bush legacy of stem-cell problems** *NATURE*
  Scott, C. T., Owen-Smith, J., McCormick, J.
  2009; 460 (7251): 33-33
- **Patenting pluripotence: the next battle for stem cell intellectual property** *NATURE BIOTECHNOLOGY*
  Vrtovec, K. T., Scott, C. T.
  2008; 26 (4): 393-395
- **Stem Cell Now: A brief introduction to the coming medical revolution** *Penguin/Plume, New York: ISBN: 0-13-173798-8*
  Christopher Thomas Scott
  2006
- **How collaboration between bioethicists and neuroscientists can advance research.** *Nature neuroscience*
  Hyun, I., Scharf-Deering, J. C., Sullivan, S., Aach, J. D., Arlotta, P., Baum, M. L., Church, G. M., Goldenberg, A., Greely, H. T., Khoshakhlagh, P., Kohman, R. E., Lopes, M., Lowenthal, et al
  2022
- **Engineering Eden: Does Earthly Pursuit of Eternal Life Threaten the Future of Religion?** *THEOLOGY AND SCIENCE*
  Kostick, K., Fowler, L., Scott, C.
  2019; 17 (2): 209–22
- **Patenting parthenotes in the US and Europe.** *Nature biotechnology*
  Senatore, V., Scott, C. T., Sebastiano, V.
  2015; 33 (12): 1232-1234
- **Treading the Line Between Sensational and Groundbreaking Science** *AMERICAN JOURNAL OF BIOETHICS*
  Scott, C.
  2015; 15 (12): 1-2
- **The ethics of publishing human germline research.** *Nature biotechnology*
  Sharma, A., Scott, C. T.
  2015; 33 (6): 590-592
- **Stem cell patents after the america invents act.** *Cell stem cell*
  Sherkow, J. S., Scott, C. T.
  2015; 16 (5): 461-464
- **Lift NIH restrictions on chimera research.** *Science (New York, N.Y.)*
  Sharma, A. n., Sebastiano, V. n., Scott, C. T., Magnus, D. n., Koyano-Nakagawa, N. n., Garry, D. J., Witte, O. N., Nakauchi, H. n., Wu, J. C., Weissman, I. L., Wu, S. M.
  2015; 350 (6261): 640
- **Wrongful Termination: Lessons From the Geron Clinical Trial** *STEM CELLS TRANSLATIONAL MEDICINE*
  Scott, C. T., Magnus, D.
  2014; 3 (12): 1398-1401
- **CASE STUDY Liquid refreshment** *NATURE BIOTECHNOLOGY*
  Scott, C.
  2013; 31 (2): 115-115

- **Advantage, Access, and Anticipation: The impact of ethics, policy, law, and economics on stem cell research** *(Doctoral Dissertation) University of British Columbia*
  Scott, C.
  2013; 2429/44700
- **DEMOCRACY IS WORKING** *JOURNAL OF POLICY ANALYSIS AND MANAGEMENT*
  Owen-Smith, J., Scott, C. T., McCormick, J. B.
  2012; 31 (3): 726-728
- **EXPAND AND REGULARIZE FEDERAL FUNDING FOR HUMAN PLURIPOTENT STEM CELL RESEARCH** *JOURNAL OF POLICY ANALYSIS AND MANAGEMENT*
  Owen-Smith, J., Scott, C. T., McCormick, J. B.
  2012; 31 (3): 714-722
- **Geron's Quixotic Fate** *Nature Biotechnology*
  Christopher Thomas Scott, Brady Hugett
  2012; 30 (6): 2012
- **Democracy Works** *Journal of Policy Analysis and Management*
  Jason Owen-Smith, Christopher Thomas Scott, Jennifer B McCormick. 1 FEB 2012 DOI: 10.1002/pam.21607
  2012
- **Candidates Silence on Science is Troubling** *DesMoines Register*
  Christopher Thomas Scott
  2012; October (editorial): 9A
- **The European Court of Justice Ruling in Brustle v. Greenpeace: The Impacts on Patenting of Human Induced Pluripotent Stem Cells in Europe** *CELL STEM CELL*
  Vrtovec, K. T., Scott, C. T.
  2011; 9 (6): 502-503
- **Donation of Embryos for Human Development and Stem Cell Research** *CELL STEM CELL*
  Kalista, T., Freeman, H. A., Behr, B., Pera, R. R., Scott, C. T.
  2011; 8 (4): 360-362
- **Unsettled expectations: how recent patent decisions affect biotech** *NATURE BIOTECHNOLOGY*
  Simon, B. M., Scott, C. T.
  2011; 29 (3): 229-231
- **Response to open peer commentaries on "Stem cell tourism and the power of hope".** *American journal of bioethics*
  Murdoch, C. E., Scott, C. T.
  2010; 10 (5): W1-3
- **Never again** *NATURE BIOTECHNOLOGY*
  Scott, C.
  2010; 28 (2): 131-131
- **The Practical Consequences of a National Human Embryonic Stem Cell Registry** *STEM CELL REVIEWS AND REPORTS*
  Taymor, K., Scott, C. T.
  2009; 5 (4): 315-318
- **Gilead's deal of a lifetime** *NATURE BIOTECHNOLOGY*
  Huggett, B., Scott, C.
  2009; 27 (5): 423-423
- **Distribution of Human Embryonic Stem Cell Lines: Who, When, and Where** *CELL STEM CELL*
  McCormick, J. B., Owen-Smith, J., Scott, C. T.
  2009; 4 (2): 107-110
- **The stem-cell century a new epoch and fresh challenges.** *Perspectives in biology and medicine*

McCormick, J. B., Scott, C. T.
2009; 52 (1): 126-133

- **Stem cell transplants: the power of peer-to-peer** *NATURE BIOTECHNOLOGY*
  Creasy, G., Scott, C. T.
  2009; 27 (1): 21-22
- **The road to pluripotence: the research response to the embryonic stem cell debate** *HUMAN MOLECULAR GENETICS*
  Scott, C. T., Pera, R. A.
  2008; 17: R3-R9
- **Stem cells: new frontiers of ethics, law, and policy** *NEUROSURGICAL FOCUS*
  Scott, C. T.
  2008; 24 (3-4)
- **Cloning** *?From Assisted Reproduction to Stem Cells: The Hastings Center Bioethics Briefing Book*
  Scott, C., Weissman, IR
  2008: 24-29
- **What Stem Cell Therapy Can Learn From Gene Therapy.** *Nature Reports Stem Cells (DOI: 10.1038/stemcells.2008.123)*
  Scott, C.
  2008
- **Weighing Risks and Rewards en route to the Clinic** *Nature Reports Stem Cells (DOI: 10.1038/stemcells.2008.158)*
  Scott, C.
  2008
- **Challenges to human embryonic stem cell patents** *CELL STEM CELL*
  Plomer, A., Taymor, K. S., Scott, C. T.
  2008; 2 (1): 13-17
- **Mice with a human touch** *NATURE BIOTECHNOLOGY*
  Scott, C. T.
  2007; 25 (10): 1075-1077
- **Overhauling clinical trials** *NATURE BIOTECHNOLOGY*
  Scott, C. T., Baker, M.
  2007; 25 (3): 287-292
- **Splitting the Difference** *Science and Spirit*
  Christopher Thomas Scott
  2007; 18 (2): 38-41
- **Private Stem Cell Bank is a Poor Investment** *San Francisco Chronicle*
  Scott, C., Chiao, E
  2007; August 31 (op/ed)
- **State Stem Cell Program Facing Tough Times Ahead** *Sacramento Bee*
  Scott, C.
  2007; August 31 (op/ed)
- **Chimeras in the crosshairs** *NATURE BIOTECHNOLOGY*
  Scott, C. T.
  2006; 24 (5): 487-490
- **The paths around stem cell intellectual property** *NATURE BIOTECHNOLOGY*
  Taymor, K. S., Scott, C. T., Greely, H. T.
  2006; 24 (4): 411-414
- **Falling Behind on Stem Cell Research** *Boston Globe*
  Christopher Thomas Scott, Jennifer McCormick

2006; op/ed (April 28)

- **It is Better to Give** *The New Scientist*
  Christopher Thomas Scott
  2006; 25 (2531): 25
- **Patient advocacy encourages stem-cell research** *San Jose Mercury News*
  Christopher Thomas Scott
  2006; August 8
- **The Future of Medicine** *Old Trout*
  Christopher Thomas Scott
  2006; 1 (3): 21
- **The problem with potency** *NATURE BIOTECHNOLOGY*
  Scott, C. T.
  2005; 23 (9): 1037-1039
- **The zinc finger nuclease monopoly** *NATURE BIOTECHNOLOGY*
  Scott, C. T.
  2005; 23 (8): 915-918
- **Chasing a cellular fountain of youth** *NATURE BIOTECHNOLOGY*
  Wilan, K. H., Scott, C. T., HERRERA, S.
  2005; 23 (7): 807-815
- **Stand by Science** *Edutopia*
  Christopher Thomas Scott
  2005; 1 (4): 52-54
- **Stem Cell Hub to Link Three Continents** *Nat Biotechnol*
  Christopher Thomas Scott
  2005; 23 (1129): 1129
- **Trials of the Heart: Hematopoeitic Stem Cells Enter the Clinic** *The Scientist*
  Christopher Thomas Scott
  2005; July 4: 20-21