

Harvard Medical School Annual Bioethics Conference

# THE ETHICS OF “MAKING BABIES”

APRIL 6-7 2017



CENTER FOR  
BIOETHICS  
HARVARD MEDICAL SCHOOL

“ Harvard Medical School launched the Center for Bioethics out of the conviction that we have a particular responsibility to ensure that values and ethics are always part of medical training, laboratory and clinical research, and ongoing professional education. ”

**2017 Conference Planning Committee**

Louise King  
*Chair*  
Lisa Bastille  
I. Glenn Cohen  
Josephine Johnston  
Blair Kahn  
Holly Lynch  
Christine Mitchell  
Elizabeth Reis  
Shirley Shalev

**Harvard Medical School Center for Bioethics Administration**

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|---|--|
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| Christine Mitchell<br><i>Executive Director</i>                       | Brooke Tempesta<br><i>Master's Program Coordinator</i> |
| Edward Hundert<br><i>Associate Director</i>                           | Blair Kahn<br><i>Center and Program Coordinator</i>    |
| Mildred Solomon<br><i>Director of the Fellowship in Bioethics</i>     | Paula Atkeson<br><i>Administrative Assistant</i>       |
| Rebecca Brendel<br><i>Director of the Master of Bioethics Program</i> | Rachel Sylvia<br><i>Communications Intern</i>          |
| Lisa Bastille<br><i>Program and Finance Administrator</i>             |  |

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## Conference Materials & Digital Connections

Select abstracts, presentations and handouts will be available online after the conference at [bioethics.hms.harvard.edu](http://bioethics.hms.harvard.edu)

**SOCIAL MEDIA**

Join the conversation and share your experiences.

 **Twitter**  
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#HarvardBioethics  
#HMSABC

**WiFi**

WiFi is available across the Harvard Medical School campus.

**To access:** Open a web browser from your device to be automatically directed to the HMS terms of conditions webpage. Once you accept the agreement you will be connected to the HMS Public wireless network.

# The Ethics of “Making Babies”

## A Message from the 2017 Conference Planning Committee Chair



The planning committee members share an interest in the ethics of reproductive medicine, including assisted reproduction. The question that motivated us in developing this year’s conference: How do we, and how should we, conceive of autonomy in reproductive medicine? Are there limits, and if so, what are they?

Reproductive technologies affect the lives of hundreds of thousands of people each year worldwide, including clinicians, researchers, policy makers, patients and families. The reach and capacities of these technologies continue to grow, raising new and recurring questions for ethics, practice, and policy. A primary goal of this conference is to gather all those interested to discuss the issues.

In planning discussions, our backgrounds strongly informed each of our individual perspectives and approaches to the issues. This motivated us to take up a variety of topics and ethical perspectives, emphasizing time for discussion in each session. We hope that you will continue to discuss and explore these issues after the conference ends. In support of that vision, the committee is creating a submission to the *Hastings Center Report*. We aim to publish the supplement later this year.

We are grateful for the expertise of the staff at Harvard Medical School’s Center for Bioethics in managing and coordinating the conference. We sincerely hope you enjoy it, we welcome your feedback, and please, remember to save **April 12 -13, 2018** in your calendar for next year’s conference.

### Louise King, MD, JD

Director of Reproductive Ethics  
Harvard Medical School Center for Bioethics

April 12-13, 2018

## Henry Beecher, Brain Death, and the Future of Organ Transplantation: A celebration of the 50th anniversary of the Harvard Report

The 2018 Annual Bioethics Conference will explore the legacy of the 1968 Beecher report from the Harvard Medical School committee that proposed the concept of “brain death” as a new criterion for determining human death, making possible the procurement of “living” organs from bodies deemed to be “dead.” The conference will explore how this report facilitated the development of organ transplantation, assess current practices, and examine persistent controversies and challenges to the scientific and philosophical foundations of this concept. We will consider future strategies for facilitating the ethical procurement of organs for transplantation, and the impact of new technologies — such as gene editing and 3-D printing — that could radically alter the relevance of brain death as a concept necessary for organ procurement.



Dr. Henry Beecher, the late Henry Isaiah Dorr Professor of Anaesthesia at Harvard Medical School.

## The Conference Mission

The Harvard Medical School Annual Bioethics Conference (ABC) convenes leaders in the field to explore ethical questions and concerns in health care. Held each April, this two day, single-track conference facilitates conversations among experts and supports members of ethics committees, health care professionals, bioethicists, administrators, attorneys and others who are interested in addressing ethical issues.

## 2107 Poster Session and Abstract Selection Content

Poster sessions offer participants the opportunity to learn from the research findings and field work of bioethics students, researchers, and clinicians. This year’s call for abstracts went out to the community in December 2016. The Conference Planning Committee chose a select number of posters for presentation.

“How do we, and how should we, conceive of autonomy in reproductive medicine? Are there limits, and if so, what are they?”

—Louise King



# About Us

## The Harvard Medical School Center for Bioethics

The Harvard Medical School Center for Bioethics is founded on the principle that we have a responsibility to ensure values and ethics are always part of medical training, clinical practice, laboratory and clinical research, and ongoing professional education.

The Center hosts weekly consortia, a current authors and speakers series and other topical talks and events for health professionals, faculty and administrators to collaborate on the most pressing bioethical challenges of the day in the hope of making health systems, professional organizations, and individuals more responsive to the communities served.

Through the master of bioethics degree, fellowship in bioethics, postdoctoral research scholars program, and conferences, the Center prepares professionals to address the profound moral questions raised by advances in the life sciences.

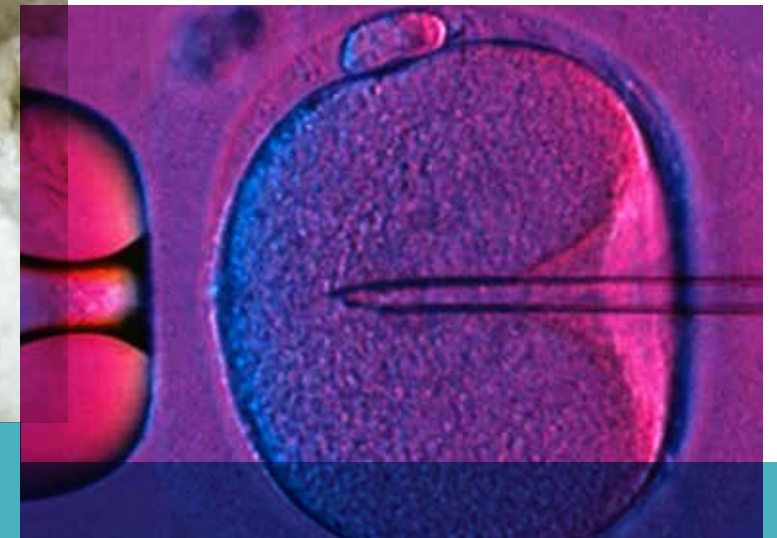
For more information, see [bioethics.hms.harvard.edu](http://bioethics.hms.harvard.edu)

## The Petrie-Flom Center

The Petrie-Flom Center for Health Law Policy, Biotechnology, and Bioethics at Harvard Law School is a leading research program dedicated to the unbiased legal and ethical analysis of pressing questions facing health policymakers, medical professionals, patients, families, and others who influence and are influenced by the health care system.

The Petrie-Flom Center hosts public events and conferences, publishes the *Bill of Health* blog, co-edits the *Journal of Law and Biosciences*, runs various fellowship programs, conducts sponsored research, hosts collaborations on law and neuroscience, advanced care planning, and food law policy, and produces independent scholarship on a range of topics under the umbrellas of health law policy, biotechnology, and bioethics.

For more information, see [petrieflom.law.harvard.edu](http://petrieflom.law.harvard.edu)



The Center for Bioethics prepares professionals to address the profound moral questions raised by advances in the life sciences.

# SCHEDULE OF EVENTS

# THURS



Thursday, April 6, 2017\*

**8-8:45 am** | Modell Atrium, Armenise Building  
Registration and Breakfast

**8:45 – 8:55 am** | Armenise Amphitheater  
Welcome and Introduction  
Louise King

**8:55 – 9:10 am**  
Introduction to Morning Sessions  
John Petrozza

**9:10 – 9:40 am**  
Criminalization of Reproductive Choice  
Michele Goodwin

**9:40 – 10:00 am**  
Questions & Discussion  
Michele Goodwin

**10:00-10:15 am** Coffee Break

**10:15 – 10:45 am**  
Creating Equal Access to Assisted Reproduction  
Kimberly Mutcherson

**10:45 – 11:05 am**  
Questions and Discussion  
Kimberly Mutcherson

\*ALL THURSDAY sessions will be held in the Armenise Amphitheater, Armenise Medical Research Building, 210 Longwood Avenue, unless otherwise indicated.

# Thursday, April 6, 2017\*

**11:05 – 11:25 pm**

**Uterine Transplantation and Reproductive Autonomy:**  
A Clinical Ethicist’s Perspective

**Cristie Cole Horsburgh**

**11:25 – 11:45 am**

**The Tale of Two Consults:** Starting Uterine Transplants at Brigham and Women’s Hospital

**Nicholas Sadovnikoff**

**11:45 – 12:05 pm**

**Questions and Discussion**

**Cristie Cole Horsburgh and Nicholas Sadovnikoff**

**12:05 – 1:15 pm** | Tosteson Medical Education Center (TMEC) , 260 Longwood Avenue

**Lunch:** Pick-up lunch in Armenise Amphitheater then proceed to TMEC.

**Poster Presentations:** See page 29 for abstracts, presenters, and TMEC room numbers.

**1:15 – 1:30 pm**

**Introduction to Afternoon Sessions**

**David Ryley**

**1:30 – 2 pm**

**Getting to ‘Right’:** A Blueprint for Emerging Reproductive Technologies

**Eli Adashi**

**2 – 2:30 pm**

**Questions and Discussion**

**Eli Adashi**

**2:30 – 2:45 pm** Coffee Break

**2:45 – 3:15 pm**

**Freezing Eggs and Creating Patients:** Reproductive Autonomy Revisited

**Elizabeth Reis**

**3:15 – 3:45 pm**

**Gamete Management and Genetic Ties:** Recent Challenges in the Policy and Practice of Posthumous Reproduction

**Shirley Shalev**

**3:45 – 4:15 pm**

**Questions and Discussion**

**Shirley Shalev and Elizabeth Reis**

**4:15 – 4:45 pm**

**Money Changes Everything (in Fertility Treatments)**

**Debora Spar**

**4:45 – 5:15 pm**

**Questions and discussion**

**Debora Spar**

**5:30 – 6:30 pm** | Elements Cafe, Joseph Martin Conference Center, 77 Ave. Louis Pasteur  
**Reception**

\*ALL THURSDAY sessions will be held in the Armenise Amphitheater, Armenise Medical Research Building, 210 Longwood Avenue, unless otherwise indicated.

# SCHEDULE OF EVENTS

# FRIDAY



Friday, April 7, 2017\*

**8 – 8:30 am** | Joseph Martin Conference Center, Atrium  
Registration and Breakfast

**8:30 – 8:45 am** | Joseph Martin Conference Center, Amphitheater  
Introduction to Morning Sessions  
Sigal Klipstein

**8:45 – 9:15 am**  
The Future of Reproductive Autonomy  
Josephine Johnston

**9:15 – 9:45 am**  
The End of Sex and the Future of Human Reproduction  
Hank Greely

**9:45 – 10:15 am**  
Questions and Discussion  
Josephine Johnston and Hank Greely

**10:15-10:30 am** Coffee Break

**10:30 – 11 am**  
The Role of Provider Autonomy in ART: Honoring and Declining Patient Requests in Fertility Care  
Judy Daar

\*ALL FRIDAY sessions will be held in the Joseph Martin Conference Center Amphitheater, 77 Ave. Louis Pasteur, unless otherwise noted.

# Friday, April 7, 2017\*

**11–11:30 am**

Cross Border Reproductive Care: Legal and Ethical Issues

Glenn Cohen

**11:30 – noon**

Questions and Discussion

Judy Daar and Glenn Cohen

**Noon – 1:30 pm** | Joseph Martin Conference Center

Lunch: Pick up lunch in Martin Center second floor lounge.

Poster Presentation: See page 29 for abstracts, presenters, and room numbers.

**1:30 –2:15 pm**

Case for Regulation: The Experience of UK Human Fertilization and Embryology Authority

Baroness Ruth Deech

**2:15 –2:45 pm**

Questions and discussion

Baroness Ruth Deech

**2:45 –3:15 pm**

Prenatal Testing and Public Health: The Fig Leaf of Reproductive Autonomy

Vardit Ravitsky

**3:15 –3:35 pm**

Questions and Discussion

Vardit Ravitsky

**3:35 –4 pm** Coffee Break

**4 –4:20 pm**

Where Have All the Designer Children Gone?

Sigal Klipstein

**4:20 –4:40 pm**

Genetic Modification of Gametes and Embryos for Human Reproduction: Crossing the Germline Barrier

Sheldon Krinsky

**4:40 –5 pm**

Questions and Discussion

Sigal Klipstein and Sheldon Krinsky

**5 pm**

Closing Comments

\*ALL FRIDAY sessions will be held in the Joseph Martin Conference Center Amphitheater, 77 Ave. Louis Pasteur, unless otherwise noted.



# Conference Presenters

## Featured Speaker

### Baroness Ruth Deech, DBE

Parliamentary House of Lords, United Kingdom  
Dame Commander of the Order of the British Empire  
Honorary Queen's Counsel



Baroness Ruth Deech is a crossbench peer in the British House of Lords and sits in the House of Lords as a non-party legislator. She chaired the UK Bar Standards Board, which regulates barristers and their professional practice, from 2009 to 2014.

Baroness Deech received her bachelor's and master's degrees from St. Anne's College, Oxford, before going on to further legal studies in the United States and the Netherlands. Three years after being called to the Bar (Inner Temple), she returned to St. Anne's College, Oxford, where she took up the position of tutorial fellow in law, a position she held until she became the principal of the college in 1991. During this period, Baroness Deech held a number of highly prestigious international positions within academia, the legal profession and beyond. These include pro vice-chancellor of the University of Oxford, from 2001 to 2004, and BBC Governor from 2002 to 2006.

Professor Deech's specialization is in reproductive law, medicine and ethics. From 1992 to 2002, she was chair of Britain's Human Fertilization and Embryology Authority (HFEA)—a national committee charged with regulating assisted reproductive treatments, embryo research, and which oversaw the legalization of stem cell research. In 2002, she was made a Dame Commander of the Order of the British Empire (DBE), in recognition of her work at the HFEA.

In 2009 she completed a report for the Department of Health, "Women Doctors – Making a Difference." She chaired a select committee on disability which reported in 2016. She served as a non-executive director of the Oxfordshire Health Authority and an ex officio member of the Human Genetics Commission.

She was called to the Bar and is an honorary Bencher of the Inner Temple. Appointed Honorary Queen's Counsel in 2013.

## Featured Speaker

### Hank Greely, JD

Director, Center for Law and the Biosciences  
Professor (by courtesy) of Genetics, Stanford School of Medicine  
Chair, Steering Committee of the Center for Biomedical Ethics  
Director, Stanford Program in Neuroscience and Society,  
Stanford University



Hank Greely is the Deane F. and Kate Edelman Johnson Professor of Law and professor, by courtesy, of genetics at Stanford University. Greely directs the Stanford Center for Law and the Biosciences and the Stanford Program on Neuroscience in Society. He specializes in ethical, legal, and social issues arising from advances in the biosciences, particularly from genetics, neuroscience, and human stem cell research.

Prof. Greely earned his juris doctor from Yale Law School. He served as a law clerk for Judge John Minor Wisdom on the United States Court of Appeals for the Fifth Circuit and for Justice Potter Stewart of the United States Supreme Court. After working during the Carter Administration in the Departments of Defense and Energy, he entered private law practice in Los Angeles. He joined the Stanford faculty in 1985.

In 2007, he was elected a fellow of the American Association for the Advancement of Science, and he was a member of the Advisory Council of the National Institute for General Medical Sciences of the National Institutes of Health from 2013 to 2016.

Prof. Greely is chair the California Advisory Committee on Human Stem Cell Research. He serves on the Neuroscience Forum of the Institute of Medicine, and on the Committee on Science, Technology, and Law of the National Academy of Sciences. He is co-chair of the National Institutes of Health Multi-Council Working Group on the BRAIN Initiative. He is president-elect of the International Neuroethics Society and will take office in November 2017.

His book, *The End of Sex and the Future of Human Reproduction*, was published in May 2016.

## Eli Y. Adashi, MD, MS, CPE, FACOG

Professor of Medical Science, Warren Alpert School of Medicine  
Brown University



Eli Adashi, former dean of medicine and biological sciences at Brown University, is professor of medical science and obstetrics and gynecology, and is a faculty member of the Brown Center for Prisoner Health and Human Rights.

Dr. Adashi earned his medical degree at the Sackler School of Medicine and completed residency training in obstetrics and gynecology at Tufts University. He trained as a fellow in reproductive endocrinology at Johns Hopkins University, with post-doctoral training in reproductive biology at the University of California at San Diego. His education also includes a master of science in health care management from Harvard University.

Dr. Adashi is a member of the Association of American Physicians, and the American Association for the Advancement of Science, and was elected to the Institute of Medicine (now the National Academy of Medicine) in 1999, where he served on multiple committees specializing in reproductive health and technology, and contributed to numerous IOM reports.

Dr. Adashi is the chair of the medical executive committee and the medical advisory council of the Jones Foundation for Reproductive Medicine, a member of the advisory council of The Hastings Center, and a member of the board of governors of Tel Aviv University. He is a former member of the board of directors of Physicians for Human Rights, former adviser to the World Health Organization, the World Bank, the Rockefeller Foundation and the Bill and Melinda Gates Foundation. Dr. Adashi is a recent Franklin Fellow and was senior advisor on global women's health to the Secretary of State Office of Global Women's Issues.

He is the author or co-author of over 350 peer-reviewed publications, over 120 book chapters/reviews, and has co-edited or edited fifteen books in the area of reproductive medicine with special emphasis on ovarian biology. He is the former editor-in-chief of *Seminars in Reproductive Medicine* and served as associated editor of multiple academic journals in reproductive medicine. Dr. Adashi's work has also been included numerous articles in the popular press.

## I. Glenn Cohen, JD

Professor of Law

Faculty Director, Petrie-Flom Center for Health Law Policy,  
Biotechnology, and Bioethics  
Harvard Law School



I. Glenn Cohen is a leading expert on the intersection of medical ethics and the law, as well as health law. His current projects relate to big data, health information technologies, mobile health, reproduction/reproductive technology, research ethics, organ transplantation, rationing in law and medicine, health policy, FDA law, translational medicine, and to medical tourism.

Prof. Cohen earned his juris doctor from Harvard Law School. He served as a law clerk to Judge Michael Boudin of the U.S. Court of Appeals for the First Circuit and as a lawyer for U.S. Department of Justice, Civil Division, Appellate Staff, where he handled litigation in the Courts of Appeals and in the U.S. Supreme Court. He joined the faculty at Harvard Law School in 2008 and received tenure as a full professor in 2013.

Prof. Cohen is a co-investigator on the Football Players Health Study at Harvard. He leads the Ethics and Law initiative as part of the NIH-funded clinical and translational science program, Harvard Catalyst. He teaches civil procedure Harvard Law School and still litigates, having authored an amicus brief in the U.S. Supreme Court for leading gene scientist Eric Lander in *Association of Molecular Pathology v. Myriad*, concerning whether human genes are patent-eligible subject matter.

He is one of three editors-in-chief of the *Journal of Law and the Biosciences*, and serves on the editorial board for the *American Journal of Bioethics*. He serves on the Steering Committee for Ethics for the Canadian Institutes of Health Research, and is a Hastings Center fellow. Cohen was a Radcliffe Institute Fellow for the 2012-2013 year and received the Greenwall Foundation's Faculty Scholar Award in Bioethics.

Cohen is the author of more than 80 articles and chapters and his work has appeared in leading academic journals. He is the editor or co-editor of several books including *The Globalization of Health Care: Legal and Ethical Issues*, and is the author of *Patients with Passports: Medical Tourism, Law, and Ethics*, with two other books in progress.

Prof. Cohen has spoken at industry conferences around the world and his work has appeared in or been covered by the popular press.

## Cristie Cole Horsburgh, JD

Staff, Department of Bioethics, Cleveland Clinic



Cristie Cole Horsburgh directs ethics programming and manages the ethics consultation services at four community hospitals. Her work focuses on clinical ethics consultation, training in ethics consultation, education of clinical providers, and institutional policy development.

She specializes in reproductive ethics and currently serves as the co-chair of the Reproductive Ethics Affinity Group of the American Society of Bioethics and Humanities.

Ms. Cole is an alumna of the Cleveland Fellowship in Advanced Bioethics. She received her bachelor's degree in biology and society with a concentration in law and society from Cornell University, and her juris doctor from the University of Arizona James E. Rogers College of Law. She joined the professional staff in the Department of Bioethics at the Cleveland Clinic in 2014.

## Judy Daar, JD

Interim Dean, Whittier Law School

Clinical Professor, School of Medicine, University of California, Irvine



Judith Daar is the interim dean and professor of law at Whittier Law School, where she has served on the faculty since 1990. She is also a clinical professor at the School of Medicine, University of California, Irvine. Dean Daar's law school teaching includes courses in property, wills and trusts, bioethics and reproductive technologies and the law.

Since 2002, Daar has been a member of Medical Ethics Committee at UCI Medical Center. Daar has served as a member of the Ethics Committee of the American Society for Reproductive Medicine since 2008, and was appointed chair in 2014. She was president of the American Society of Law, Medicine & Ethics from 2009 to 2011, where she also sat on the board of directors from 2006 to 2012. She is currently the co-chair of the American Bar Association Section on Real Property, Trust and Estate Law, Bioethics Committee. In 2012, Daar was elected to the American Law Institute.

In 2006, she published the first and, to date, only casebook in the field of assisted reproductive technologies, *Reproductive Technologies and the Law*; a second edition was published in 2013. Her latest book,

*The New Eugenics: Selective Breeding in an Era of Reproductive Technologies*, was published earlier this year.

Dean Daar has spoken extensively on legal, medical, and ethical issues in reproductive medicine, including giving testimony to the National Academies of Science and the California legislature.

Her scholarly work includes over 100 book chapters, articles, white papers and editorials on a range of topics including prenatal genetic testing, human reproductive cloning, regulation of reproductive technologies and malfeasance in the provision of assisted conception services. She is the recipient of three outstanding teaching awards, and in 2013 was awarded the Suheil J. Muasher, M.D. Distinguished Service Award by the American Society for Reproductive Medicine.

## Michele Goodwin, JD

Chancellor's Professor of Law, School of Law

Director, Center for Biotechnology and Global Health Policy  
University of California, Irvine



Michele Goodwin holds the Chancellor's Professorship at the University of California, Irvine, with appointments at the School of Law, School of Public Health, and in the Department of Gender and Sexuality Studies. She is the founder and director of the UC Irvine Center for Biotechnology and Global Health Policy and its Reproductive Justice Initiative.

Prof. Goodwin's research and writing analyzes legal concerns with regard to the human body. She is an acclaimed bioethicist and prolific author. She has published numerous articles in the popular press and is the author of several highly acclaimed books. Her forthcoming book, *Policing The Womb*, chronicles how women's reproduction has become the political scapegoat in Congress and legislatures across the U.S., resulting in the rise of personhood measures — practices that force women to undergo Cesarean births under threat of court order, abuse of prosecutorial discretion that results in the criminalization and punishment of pregnant women for falling down steps, refusing bed rest or attempting suicide — and other policies that dramatically erode reproductive liberty.

Prof. Goodwin lectures worldwide on issues involving human rights, reproductive justice, bioethics, and health law. She served as a visiting professor at the University of Chicago and as a visiting scholar at the University of California, Berkeley, and Columbia University Law School.

## Josephine Johnston, LLB, MBHL

Director of Research and Research Scholar  
*The Hastings Center*



Josephine Johnston is director of research and a research scholar at the Hastings Center, an independent bioethics research institution in Garrison, New York. Her research focuses on the ethical, legal, and policy implications of biomedical technologies, particularly as used in human reproduction, psychiatry, genetics, and neuroscience.

Ms. Johnston is a New Zealand-trained lawyer with a master's degree in bioethics and health law from the University of Otago. She joined the staff of The Hastings Center as a research scholar in 2003 and became director of research in 2012. Prior to the Hastings Center, Ms. Johnston worked as a bioethics researcher at Dalhousie University and the University of Minnesota. She has also worked as a lawyer in both New Zealand and Germany.

Johnston's current projects address the ethical implications of new kinds of prenatal genetic tests, the relationship between gene editing technologies and understandings of human flourishing and, with colleagues at University of California, San Francisco, the potential use of genetic sequencing technology in newborns.

She is a member of Columbia University Medical Center's Center for Excellence in Ethical, Legal and Social Implications looking at psychiatric, neurologic and behavioral genetics. In addition, Johnston has, with colleagues at Kent Place School, developed a Hastings Center-style research program for high school students.

In addition to numerous scholarly publications, her commentaries have appeared in many popular media outlets.

## Louise King, JD, MD

Assistant Professor of Obstetrics, Gynecology and Reproductive Biology, *Harvard Medical School*  
Director of Reproductive Ethics, *Harvard Medical School Center for Bioethics*



Louise King is assistant professor of obstetrics, gynecology and reproductive biology at Harvard Medical School and a surgeon within the Division of Minimally Invasive Gynecologic Surgery at Beth Israel Deaconess Medical Center. A member of the faculty at HMS Center for Bioethics, Dr. King teaches a course on reproductive ethics. She is chair of the 2017 planning committee for Harvard Medical School's

Annual Bioethics Conference.

Dr. King completed her juris doctorate at Tulane Law School before attending medical school at the University of Texas Southwestern Medical Center. She completed her residency in obstetrics and gynecology at Parkland Hospital in Dallas Texas and her fellowship in Minimally Invasive Surgery with Dr. Camran Nezhat at Stanford University. Her areas of interest in medical ethics focus on questions of informed decision-making and assisted reproduction.

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## Sigal Klipstein, MD, FACOG

Reproductive Endocrinologist, *InVia Fertility Specialists*



Sigal Klipstein is a graduate of the University of Chicago Pritzker School of Medicine. She is board certified in obstetrics and gynecology, as well as reproductive endocrinology and infertility. She holds fellowships in both infertility and medical ethics.

After completing a year at Northwestern Memorial Hospital, she continued her studies with a residency in obstetrics and gynecology at Beth Israel Deaconess Medical Center and Harvard Medical School. She completed a fellowship in reproductive endocrinology and infertility at Boston IVF and Harvard as well as the fellowship in bioethics at Harvard Medical School.

Dr. Klipstein's research interests include preimplantation genetic diagnosis, pregnancy in women over forty years of age, egg donation, surrogacy, and reproductive ethics.

## Conference Presenters

She has written numerous articles in both medical and ethics journals, has authored several book chapters, and presented and lectured on the ethics of infertility, stem cell research, cloning and preimplantation genetic diagnosis.

Dr. Klipstein is the current chair of the American College of Obstetrics and Gynecology Committee on Ethics, and a liaison to the American Academy of Pediatrics Committee on Bioethics. She is a member of the American Society for Reproductive Medicine Ethics Committee.

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### Sheldon Krinsky, PhD

**Lenore Stern Professor of Humanities and Social Sciences**

*School of Arts and Sciences*

**Adjunct Professor, Public Health and Community Medicine**

*School of Medicine*

*Tufts University*



Sheldon Krinsky is the Lenore Stern Professor of Humanities and Social Sciences and an adjunct professor at Tufts University. Prof. Krinsky's research focuses on the linkages between science and technology, ethics and values, and public policy.

Prof. Krinsky received his master's degree in physics from Purdue University. He received a master's and doctorate in philosophy at Boston University.

Prof. Krinsky served on the NIH's Recombinant DNA Advisory Committee from 1978 to 1981. He chaired the Committee on Scientific Freedom and Responsibility for the American Association for the Advancement of Science from 1988 to 1992. He held the Carol Zicklin Chair in Philosophy at the Honor's Academy at Brooklyn College from 2012 to 2014. He was a consultant to the Presidential Commission for the Study of Ethical Problems in Medicine and Biomedical and Behavioral Research, and to the Congressional Office of Technology Assessment.

He is the author of fourteen books which critically examine emerging issues in science and technology. Prof. Krinsky has published over 200 essays and reviews that have appeared in many books and journals.

Prof. Krinsky is a fellow of the American Association for the Advancement of Science elected for "seminal scholarship exploring the normative dimensions and moral implications of science in its social context." Currently he serves on the board of directors for the Council for Responsible Genetics and as a fellow of the Hastings Center.

### Kimberly Mutcherson, JD

**Vice Dean and Professor of Law**

*Rutgers Law School*



Kimberly Mutcherson is vice dean and professor of law at Rutgers Law School where she teaches courses on bioethics and law, family law and health law policy. Her scholarly work encompasses family and health law, and uses health law topics to study the relationship between families and the state. She writes on issues related to reproductive justice, with a particular focus on assisted reproduction and its relationship to how the law understands family.

Prof. Mutcherson has served as a senior fellow/sabbatical visitor at the Center for Gender and Sexuality Law at Columbia Law School, a visiting scholar at the Center for Bioethics at the University of Pennsylvania, and as a fellow at the Institute for Research on Women at Rutgers University.

Her work has appeared in numerous academic publications. She speaks nationally and internationally on topics related to reproductive technologies, reproductive justice, bioethics, abortion, and health law.

She is the recipient of the 2013 Center for Reproductive Rights Innovation in Scholarship Award, and the Women's Law Caucus Faculty Appreciation Award in 2011 and 2014.

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### John Christopher Petrozza, MD

**Chief, Division of Reproductive Medicine and IVF**

**Director, Fertility Center**

**Co-Director, MGH Integrated Fibroid Program**

*Massachusetts General Hospital*



John Petrozza is chief of the Division of Reproductive Medicine and IVF at Massachusetts General Hospital, where he is director of the Mass General Fertility Clinic and co-director of the MGH Integrated Fibroid Program.

Dr. Petrozza completed undergraduate training at the University of Texas at El Paso, he received his medical degree from the University of Texas Medical Branch School of Medicine. He completed his internship and residency in obstetrics and gynecology at Lyndon B. Johnson Hospital and the University of Texas

## Conference Presenters

Health Sciences Center in Houston. Dr. Petrozza completed a fellowship in reproductive endocrinology and infertility at New England Medical Center/Tufts Medical School, where he practiced for six years.

Dr. Petrozza's work has focused on the surgical aspect of infertility and reproduction, including endometriosis, fibroids, surgical repair of uterine anomalies and scar tissue, and repair of damaged fallopian tubes. His clinical and research interests are in fertility treatment outcomes, reproductive surgery outcomes, environmental factors and reproduction, and diversity in reproductive health care treatments.

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### Vardit Ravitsky, PhD

**Associate Professor in Bioethics Programs**

*School of Public Health*

**Director, Ethics and Health Branch, Center for Research in Ethics**  
*University of Montreal*



Vardit Ravitsky is associate professor in the Department of Social and Preventive Medicine at the University of Montreal School of Public Health. She is director of the Ethics and Health Branch of the CRE (Centre de recherche en éthique), an interuniversity research center in ethics.

She earned her bachelor's in philosophy from the Sorbonne University in Paris, and master's in philosophy, with a specialization in bioethics, from the University of New Mexico. She received her doctorate in philosophy, with a specialization in bioethics, from Bar-Ilan University in Israel. She was a post-doctoral fellow in the Department of Bioethics at the National Institutes of Health and at the National Human Genome Research Institute.

Prof. Ravitsky's research focuses on reproductive ethics and the ethics of genetic and genomics research. Her research interests in bioethics also include research ethics, health policy and cultural perspectives. She is particularly interested in the various ways in which cultural frameworks shape public debate and public policy in the area of bioethics.

Prof. Ravitsky is an elected board member and treasurer of the International Association of Bioethics. She is a member of the Canadian Institutes of Health Research (CIHR) Standing Committee on Ethics and of the CIHR's Institute Advisory Board on Research Excellence, Policy and Ethics. She is member of the University of Montreal's Public Health Research Institute,

of the Quebec Reproduction Network, and of the Canadian Fertility and Andrology Society.

Previously, she was faculty in the Department of Medical Ethics at the University of Pennsylvania School of Medicine. She was also a senior policy advisor at CIHR's Ethics Office and a GE3LS consultant to Genome Canada.

She has published over ninety articles, book chapters and commentaries on bioethical issues; she is lead editor of *The Penn Center Guide to Bioethics*.

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### Elizabeth Reis, PhD

**Professor, Macaulay Honors College at CUNY**



Elizabeth Reis is a professor at Macaulay Honors College at CUNY where she teaches courses on transgender issues, reproductive technologies, women's health, and medical ethics. She is interested in both the history and contemporary analysis of medical ethics, gender, sexuality, and religion.

She graduated from Smith College and received her doctorate in history at the University of California, Berkeley.

Prof. Reis is the author of *Bodies in Doubt: An American History of Intersex; Damned Women: Sinners and Witches in Puritan New England*; and the editor of *American Sexual Histories*. She has published essays in numerous academic journals, as well as in the popular press. Reis is a member of the ethics committee at New York Presbyterian Weill Cornell Hospital, and an editor of *Nursing Clio*, a collaborative blog project that focuses on the intersection of gender, history, and medicine.

Prior to joining the faculty at CUNY, she served as professor and head of the Department of Women's and Gender Studies at the University of Oregon.



## Conference Presenters

role in the Harvard Group on Reproductive Health and Rights, Steering Committee of the Women, Gender and Health Concentration, Planning Committee of the Harvard Annual Bioethics Conference, as well as numerous ethics committees at Harvard-affiliated hospitals.

She is the recipient of numerous honors and international excellence awards, and she has presented her work at academic, clinical, and professional programs.

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### Debora L. Spar, PhD

President, Lincoln Center for the Performing Arts



Debora Spar is president and CEO of the Lincoln Center for the Performing Arts. Lincoln Center's New York City campus is home to eleven world-class arts organizations and considered the world's leading performing arts organization. Spar, the first woman to hold the esteemed position, assumed the leadership role in March 2017.

Ms. Spar came to Lincoln Center from Barnard College, where she served as president from 2008 to 2017. During her tenure there, she was widely recognized for stimulating substantial academic and financial growth on campus, and for establishing a renewed commitment to the arts.

Prior to her time at Barnard, Ms. Spar was a professor at Harvard Business School for seventeen years. A prolific writer, she has authored seven books, including, *Wonder Women: Sex, Power, and the Quest for Perfection* and *Ruling the Waves: From the Compass to the Internet*.

Ms. Spar received her bachelor's degree from Georgetown University's School of Foreign Service and her master's and doctorate in government from Harvard University.

# POSTER PRESENTATIONS

# 2017





# Poster Presentations At-a-Glance

## Thursday, April 6 Tosteson Medical Education Center (TMEC), 260 Longwood Ave.

| Title   | Room No.   |
|---|------------|
| Mitochondrial Replacement Therapy: Islamic Perspective  | TMEC L-007 |
| The “ART” of Making Babies Using In Vitro Fertilization Assisted Reproduction Technologies in the United Arab Emirates                              | TMEC L-007 |
| Human Gametes and Uteruses as Agricultural Surplus?   | TMEC L-008 |
| Deciphering Case Law on Human Embryo Disposal Disputes: Defining the Embryo, Weighing Interest, and the Appearance of Linguistic Turns              | TMEC L-008 |
| The Impact of Reproductive Technologies on the Deaf and Hard-of-Hearing Community   | TMEC 106   |
| Reproductive Autonomy and Decision-making Regarding Non-invasive Prenatal Testing: Pregnant Women and Couples’ Perspectives from Lebanon and Quebec | TMEC 106   |
| Involuntary Embryo Change: Who Are the Parents? An Italian Case   | TMEC 128   |
| An Ethical Analysis of Ovascience — A Publically Traded Fertility Company and Its Lead Product Augment  | TMEC 128   |
| Fertility Preservation for Young Girls or Preservation of Social Inequalities? A Multicentric Study: Canada, France, and Morocco                    | TMEC 306   |
| Assisted Reproductive Technologies: A Look from Biolaw through the Cinema   | TMEC 306   |

## Friday, April 7 Martin Conference Center, 77 Ave. Louis Pasteur.

|   |           |
|---|-----------|
| Shared Decision Making and Ethical Challenges in Fertility Preservation in Youth at Risk for Infertility                            | Bray Room |
| Attitudes of Pediatric Patients Regarding Fertility Preservation Options  | Bray Room |
| The Role of Egg Donation Agencies in Defining the Moral Status of Eggs  | 214       |
| Savior Siblings: Ethical Conundrums and Regulatory Void   | 214       |
| Women’s Reproductive Autonomy and the Ethics of Baby Making: The Nigerian Case Study  | 217       |
| Biological Ties and Right to Parenthood in Medically Assisted Reproduction: Ethical and Juridical Implication Among Lesbian Couples | 217       |

# Poster Abstracts | Thursday, April 6

### **Presenter: Abdullah Aljoudi, MD**

*Consultant of Family and Community Medicine  
Imam Abdulrahman Bin Faisal University, Dammam, Saudia Arabia  
Fellow, Harvard Medical School Center for Bioethics*

### **TITLE Mitochondrial Replacement Therapy: Islamic Perspective**

**Description:** The poster contains an introduction about the importance of the topic of mitochondrial replacement therapy (MRT) with an aim to present the possible Islamic ethico-legal implications. A brief description of the two MRT methods; namely pronuclear transfer (PNT) and maternal spindle transfer (MST) is included. Ethical concerns such as safety and efficacy, genetic connection of the child, germline changes, genetic counselling and informed consent, and justice are summarized. The current legal status of the MRT is mentioned. A general overview of the Islamic ethico-legal sources, purposes, and principles is given. The current views of some leading Muslim bioethicists are discussed.

**Room: TMEC L-007**

### **Presenter: Shirin Karsan, MBE**

*Community Reviewer, Institutional Review Board  
The Children’s Hospital of Philadelphia*

### **TITLE The “ART” of Making Babies Using In Vitro Fertilization Assisted Reproduction Technologies (ARTs) in the United Arab Emirates**

**Description:** What are Islam’s views on the practices of assisted reproductive technologies? The United Arab Emirates (UAE) is a region with a confluence of various Muslim schools of thought, ranging from contemporary to traditional desert cultures. The principle of autonomy is exercised primarily in the western culture. How do religion and culture influence decisions among Sunni Muslims? How are Sharia and Jurisprudence applied? Lack of regulation of the infertility treatment process in the UAE, combined with high demand, religious permissibility, and sociocultural stigma, raises ethical concerns about the overuse of IVF treatment in the UAE.

**Room: TMEC L-007**

**Presenter: Hana Konečná, PhD**  
*Assistant Professor, University of South Bohemia (Czech Republic)*

**TITLE** Human Gametes and Uteruses as Agricultural Surplus?

**Description:** The Czech Republic is currently a great power in the field of assisted reproduction (ART), in particular for egg-donation cycles. More than 85 percent are done for foreign patients, usually of advanced age. The donors are exclusively young Czech women. The long-term goal of our work is the analysis of the ethical aspects of the situation. We are afraid of multiplying of the number of foreign patients, if the state assumes responsibility also for ART for single and homosexual persons and for surrogate motherhood. The poster shortly outlines our arguments and the arguments of opponents.

**Room: TMEC L-008**

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**Presenter: Nathanael Stanley, BS, MA**  
*Department of Global Health, University of South Florida  
H. Lee. Moffitt Cancer Center and Research Institute*

**TITLE** Deciphering Case Law on Human Embryo Disposal Disputes: Defining the Embryo, Weighing Interest, and the Appearance of Linguistic Turns

**Description:** The purpose of this research is to linguistically analyze embryo disposal dispute case law. Through critical discourse analysis (CDA) of all published case law on human embryo disputes, this research shows that the U.S. courts use variable outlets of informational power and a high degree of intertextuality to make final rulings. Based on the interpretation of CDA as a method of observing place and agency in a changing social environment, CDA is an appropriate analytical tool for understanding how U.S. court systems make a verdict that borders a violation of the constitutional right to privacy in the 14th Amendment.

**Room: TMEC L-008**

**Co-presenters: Abirami Kirubarajan, BHSc (candidate)**  
*Co-Investigator, McMaster University*

**Shannon Leung, BHSc (candidate)**  
*Co-Investigator, McMaster University*

**TITLE** The Impact of Reproductive Technologies on the Deaf and Hard-of-Hearing Community

**Description:** The ethics regarding reproductive technology have historically been controversial within the deaf and hard-of-hearing (D/HH) population. Genetic screening for deafness has recently been criticized, as several countries' in-vitro policies do not allow implantation of viable deaf embryos. For patients who consider deafness and American Sign Language to be significant parts of their culture, this is considered to erase deaf identity, violate parental consent, as well as contribute to the marginalization of those living with a disability. This research project will elucidate the impact of reproductive technologies on D/HH persons, as well as establish evidence-informed guidelines for healthcare professionals.

**Room: TMEC 106**

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**Presenter: Hazar Haidar, MSc, PhD (candidate)**  
*Bioethics Programs, University of Montreal (Canada)*

**TITLE** Reproductive Autonomy and Decision-making Regarding Non-Invasive Prenatal Testing: Pregnant Women and Couples' Perspectives from Lebanon and Quebec

**Description:** This poster illustrates findings from a qualitative research, based on semi-structured interviews with pregnant women and couples, aiming at identifying diverse factors that shape their reproductive autonomy to accept or refuse Non-Invasive Prenatal Testing in two cultural contexts Quebec, Canada and Beirut, Lebanon. We identified several significant differences and some important similarities with respect to the ethical considerations related to reproductive autonomy that should guide the implementation of the test in each context. An understanding of the different elements influencing NIPT decision-making is crucial to preserve women's and couples' contextual choice and to guide any clinical or policy implementation decisions.

**Room: TMEC 106**

Poster Abstracts | Thursday, April 6

**Presenter: Maria Chiara Errigo, PhD**

*Student in Constitutional Law and Biolaw, University of Parma (Italy)*

**Co-author: Antonio D'Aloia**

*Full Professor of Constitutional Law and Biolaw*

*Director of University Center for Bioethics, University of Parma (Italy)*

**TITLE** Involuntary Embryo Change: Who Are the Parents?  
An Italian case

**Description:** The poster shows the Italian case of involuntary embryo change, that occurred during 2014 in Rome. The exceptional event caused the problem of identifying the applicable law. The facts call into question the distinctiveness of the parental couple, and it depicts the family relations as a particular chaos. Through the examination of the Court's decisions, the ethical and social aspects of the case, the study explains the problems and regulation of the error's hypothesis in the execution of medically assisted procreation procedures, (in the awareness, the mistake is a possible variable of procreation in the time of artificial reproductive methods).

**Room: TMEC 1285**



**Presenter: Katarina Lee, JD, MA**

*Clinical Ethics Fellow, Center for Medical Ethics and Health Policy*

*Baylor College of Medicine*

**TITLE** An Ethical Analysis of Ovascience: A Publicly Traded Fertility Company and Its Lead Product Augment

**Description:** There are five parts to this paper. Part I will outline what OvaScience is and the four proposed technologies they seek to develop; Part II will examine the history of mitochondrial manipulation; Part III will examine the laws in the countries that currently permit the practice and why the FDA has prohibited OvaScience from using AUGMENT in the United States; Part IV will examine the ethical concerns of these technologies; and Part V will discuss the ethical issues surrounding OvaScience as a publicly traded company.

**Room: TMEC 128**

Poster Abstracts | Thursday, April 6

**Presenter: Aliya O. Affdal, PhD**

*University of Montreal (Canada)*

**Coauthors:**

**Michael Grynberg, MD, PhD**

*Assistance publique-Hôpitaux de Paris (France)*

**Laila Hessissen, MD, PhD**

*Oncology Center Rabat (Morocco)*

**Vardit Ravitsky, PhD**

*University of Montreal (Canada)*

**TITLE** Fertility Preservation for Young Girls or Preservation of Social Inequalities? A Multicentric Study: Canada, France and Morocco

**Description:** Cancer treatments have increased cancer patients' life expectancy but they may cause irreversible loss of fertility. To preserve the future fertility of prepubescent girls, the only technique currently available is an experimental cryopreservation of ovarian tissue. To explore current knowledge, practice, and attitudes regarding fertility preservation, an online survey was sent to all pediatric oncologists in Canada, France and Morocco. The results of this study show significant social inequalities in the provision of fertility preservation across countries. The fact that this technology is not offered to some families, at a time of great vulnerability, raises ethical issues related to justice and equity of access, as well as to informed consent.

**Room: TMEC 306**

Poster Abstracts | Thursday, April 6

**Presenter: Diana Rocío Bernal-Camargo, PhD**

*Bioethics and Biolaw, Professor and Researcher in the Human Rights Group  
Jurisprudence Faculty, Universidad del Rosario (Colombia)*

**TITLE** Assisted Reproductive Technologies: A Look at Biolaw Through Cinema

**Description:** The poster shows the results of the project about “bioethics and cinema”, in particular the subject of assisted procreation techniques. As a methodological strategy, the discourse analysis was used from the approach in cinematographic films, taking as a guide film, *The Kids Are All Right*, and as a complement, the films *My Sister's Keeper*, *Gattaca*, *The Switch*, *And Then Came Love* and *The Surrogacy Trap*. Two students from medicine and law school participated through a hotbed of research. The next stage will be to make a contrast between the cases of the films and judicial cases in Colombia.

**Room: TMEC 306**

Poster Abstracts | Friday, April 7

**Co-presenters:**

**Gwendolyn Quinn, PhD**

*Senior Member and Professor Moffitt Cancer Center  
University of South Florida*

**Leena Nahata, MD**

*Assistant Professor of Clinical Pediatrics, The Ohio State University  
Division of Endocrinology and Center for Biobehavioral Health  
The Research Institute at Nationwide Children's Hospital*

**TITLE** Shared Decision Making and Ethical Challenges in Fertility Preservation in Youth at Risk for Infertility

**Description:** This poster will examine four cases of children and youth at risk for infertility due to genetic conditions or gonadotoxic treatment and will examine if shared decision making occurred through the lens of the bioethical decision making model.

**Room: Bray (Martin Center)**

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**Presenter: Divya Yerramilli, MD, MBE**

*Resident, Harvard Radiation Oncology*

**TITLE** Attitudes of Pediatric Cancer Patients Regarding Fertility Preservation Options

**Description:** This poster will describe how women of reproductive age undergoing cancer-directed therapies may be at risk for infertility, and that many barriers to fertility preservation exist. Based on prospectively collected survey-based data, we showed that pediatric patients face a greater burden of barriers, including limited knowledge of any fertility preservation options, and specifically of various types of fertility preservation methods.

**Room: Bray (Martin Center)**

**Presenter: Alexandra Charrow, MD, MBE**  
*Resident, Harvard Dermatology*

**TITLE** The Role of Egg Donation Agencies in Defining the Moral Status of Eggs

**Description:** Egg donation agencies use both market-based approaches and language of altruism to justify compensation practices for egg donors. This ambiguity may potentiate widening discrepancies regarding the moral status of an egg, as biological tissue, potential life, or as an economic good. This study attempts to analyze media provided by egg donation agencies to better understand how transactions for eggs are regarded.

**Room: 214 (Martin Center)**

.....  
**Presenter: Zachary E. Shapiro, JD, MSc**  
*Presidential Scholar of Law, The Hastings Center*

**TITLE** Savior Siblings: Ethical Conundrums and Regulatory Void

**Description:** This project examines the regulatory and ethical framework behind the use of savior siblings, in both the United States and the United Kingdom. These two countries were selected, because they provide an interesting contrast in regulatory approaches, and because the US has much to learn from the example of the UK. This project considers ethical arguments about the use and creation of savior siblings, examining both the potential harms, and benefits, of the procedure. It ends with recommendations to advance the position of savior siblings in the United States, so that the procedure can be done as ethically as possible.

**Room: 218 (Martin Center)**

**Presenter: Chitu W. Princewill, BSc, MSc, PhD**  
*Postdoc of Biomedical Ethics, Institute for Biomedical Ethics  
University of Basel (Switzerland)*

**TITLE** Women's Reproductive Autonomy and the Ethics of Baby Making: The Nigerian Case Study

**Description:** This study originates from a larger study carried out on the autonomy and reproductive rights of married Ikwerre women of Rivers State, Nigeria. It discusses the use of women by couples who are unable to produce children naturally for the sole purposes of baby making. The study implored a purposive qualitative research method. Data collection was from December 2014 to March 2015. 34 In-depth interviews and six focused group discussions were conducted with married Ikwerre women between the ages of 22-60 years with various educational status, and in either monogamous or polygynous marriages.

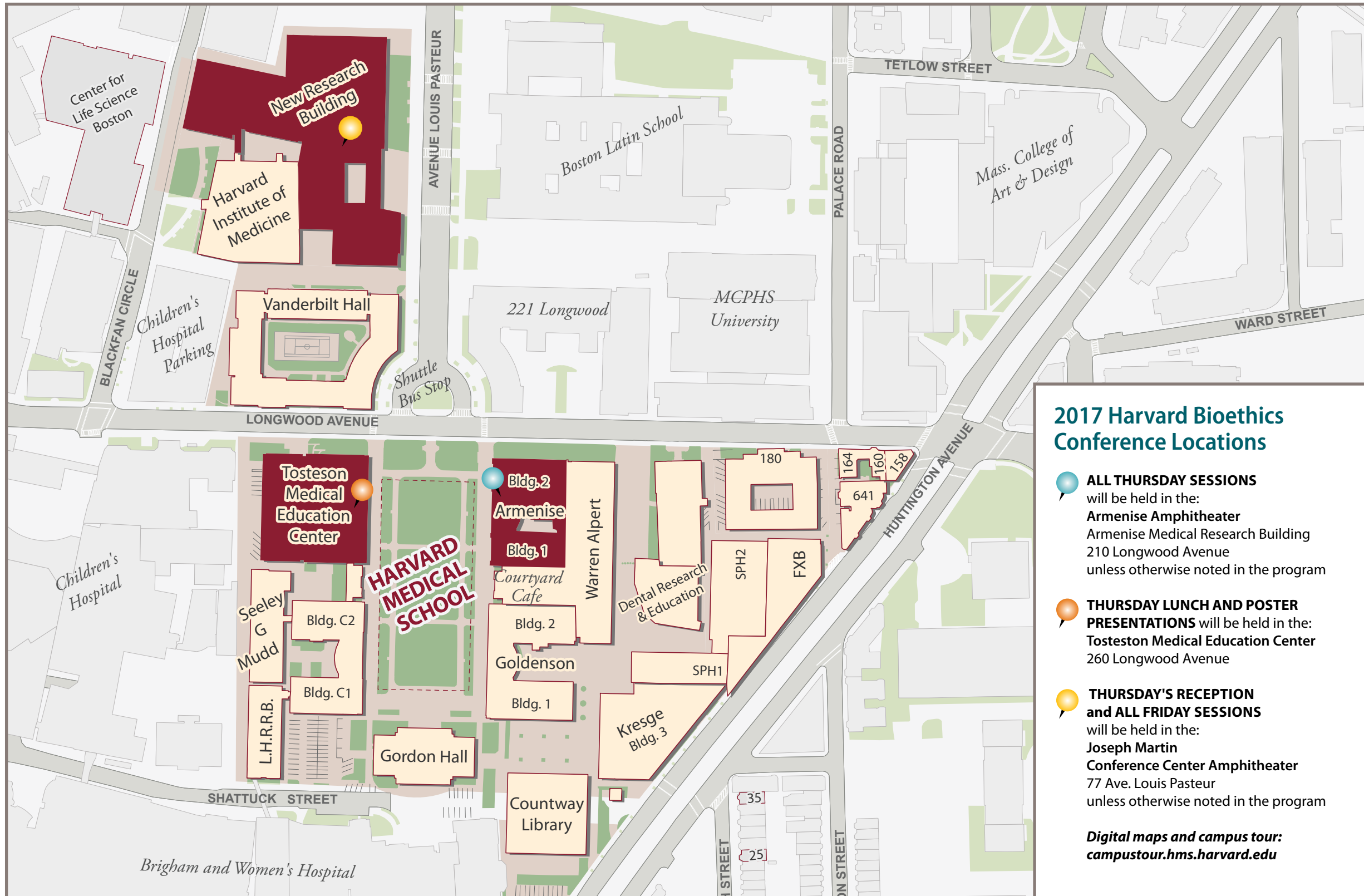
**Room: 217 (Martin Center)**

.....  
**Presenter: Matteo Gulino, PhD**  
*Post Doctoral Researcher, Department of Medico-surgical Sciences  
and Biotechnologies, Sapienza University of Rome (Italy)*

**TITLE** Biological Ties and Right to Parenthood in the Medically Assisted Reproduction: Ethical and Juridical Implications among Lesbian Couples

**Description:** The aim of this presentation is to provide, by a practical approach, an international overview of the ethical and juridical problems that may derive from the transnational application of assisted reproduction technologies among lesbians couples, taking into account the Italian and international context. By reporting a recent Italian/Spanish case of shared motherhood, an example of how the traditional model of family (biological mother, father and children) may impact in the assessing of the child best interest is given. The value of the biological bonds along with the correlation between the international public order and the child's best interest are discussed.

**Room: 217 (Martin Center)**



## 2017 Harvard Bioethics Conference Locations

- **ALL THURSDAY SESSIONS** will be held in the: **Armenise Amphitheater**  
 Armenise Medical Research Building  
 210 Longwood Avenue  
 unless otherwise noted in the program
- **THURSDAY LUNCH AND POSTER PRESENTATIONS** will be held in the: **Tosteson Medical Education Center**  
 260 Longwood Avenue
- **THURSDAY'S RECEPTION and ALL FRIDAY SESSIONS** will be held in the: **Joseph Martin Conference Center Amphitheater**  
 77 Ave. Louis Pasteur  
 unless otherwise noted in the program

**Digital maps and campus tour:**  
[campustour.hms.harvard.edu](http://campustour.hms.harvard.edu)



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