THE SIXTH INTERNATIONAL CONFERENCE ON ETHICAL ISSUES IN BIOMEDICAL ENGINEERING

APRIL 1-3, 2011
## Attendee Information

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**Please complete this form and mail, email or Fax to:**

Subrata Saha, Ph.D., Conference Chair  
Department of Orthopaedic Surgery & Rehabilitation Medicine  
SUNY Downstate Medical Center  
450 Clarkson Ave., Box 30  
Brooklyn, New York 11203  
**Office:** 718-613-8652  
**Fax:** 1 516-349-9704  
**Email:** nyasmembership@aip.org  

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### Registration Fees

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<th>Before March 1st, 2011</th>
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<tr>
<td>Registration Fee</td>
<td>$150.00</td>
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<td>*One-day registration</td>
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<td>*Student registration</td>
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<td>Guest Banquet Ticket</td>
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*(does not include banquet)*

**Total Amount Enclosed:**

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**Payment**

- [ ] Check payable to: The New York Academy of Sciences

- [ ] Credit Card
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**Signature :**
Welcome from the Conference Chair

I am pleased to welcome you to the Sixth International Conference on Ethical Issues in Biomedical Engineering. Our goal is to bring together biomedical engineers, clinicians, research scientists, philosophers, lawyers, students and representatives from industry to discuss the ethical issues that face us as we develop new implants, devices, drugs and to improve the treatments and the quality of life of our patients. The papers to be presented represent a broad spectrum of topics reflecting the exciting, but sometimes controversial nature of many of the new developments in biomedical engineering and medicine.

We are fortunate that the SUNY Downstate Medical Center, NY Academy of Sciences and Polytechnic Institute of New York University have agreed to sponsor this conference. We are grateful for the financial support from other co-sponsoring institutions, the American Institute for Medical and Biological Engineering, National Science Foundation, the Orthopaedic Research Society and several other companies.

Many people contributed to the success of this conference. I would like to thank the keynote speakers, the authors, session moderators, panel members, and the staff. The abstracts from this conference and selected papers will be published in a special issue of the International Journal of Medical Implants and Devices that will be distributed at the conference. The authors are also encouraged to submit their papers for publication in Ethics in Biology, Engineering and Medicine: An International Journal.

I am sure that you shall find this conference intellectually stimulating and a highly enjoyable experience.

Welcome to Brooklyn, New York.

Subrata Saha

Subrata Saha, Ph.D., Conference Chair
Department of Orthopaedic Surgery & Rehabilitation Medicine
SUNY Downstate Medical Center
Brooklyn, New York 11203

Special Needs
In accordance with the Americans with Disabilities Act (ADA), SUNY Downstate Medical Center seeks to make this conference accessible to all. If you have a disability which might require special accommodations, please contact Dr. Subrata Saha, Phone: (718)-613-8652, Subrata.Saha@downstate.edu.

Needs Statement
The field of biomedical research leads to new treatment modalities and the leadership at SUNY Downstate Medical Center and Polytechnic Institute of New York University saw the need for a workshop to update the medical and scientific community in Brooklyn and the tri-state area of the ethical guidelines that need to be followed.

Educational Objectives
At the conclusion of this workshop, participants will:
- be aware of ethical guidelines for the development of new medical devices and new potential treatment modalities
- be aware of ethical issues involved in clinical trials and animal experiments
- be aware of conflict of interest and regulatory issues for new devices

Target Audience
All practicing physicians, research scientists, physical therapists, professors, and students

Website
Online registration and latest program are available from www.nyas.org/biomed

ALL PRESENTERS ARE EXPECTED TO DECLARE ANY CONFLICT OF INTEREST AT THE BEGINNING OF THEIR TALKS.
Reception will be held at:

A The New York Marriott at the Brooklyn Bridge, 333 Adams Street, Brooklyn, NY 11201

Technical Programs will be held at:

B Pfizer Auditorium, Polytechnic Institute of New York University, 5 Metro Tech Center, Brooklyn, NY 11201

Site Map

Hotel Information
Located within Renaissance Plaza and across the street from Polytechnic Institute of New York University – located in Metro Tech, the New York Marriott at the Brooklyn Bridge is 5 minutes from Manhattan and the Financial District, with 9 major subway lines all within one block. The New York Marriott at the Brooklyn Bridge is the only full service hotel in Brooklyn. A block of rooms at the Marriott New York at the Brooklyn Bridge have been reserved at a special reduced rate of $189 (plus tax) per day for conference attendees during the conference. To receive this special rate, please mention “SUNY Downstate” while booking the room. Please note that this special rate is valid until March 2011.

Call for Reservations:
Toll Free: (888) 436-3759
Phone: (718) 246-7000
Fax: (718) 222-6520
Website: http://brooklynmarriott.com

Friday, April 1, 2011
Marriott in Brooklyn Bridge,
333 Adams Street, Brooklyn, NY 11201

5:00 - 8:00pm Registration
The New York Marriott at the Brooklyn Bridge

6:00 - 8:00pm Reception
The New York Marriott at the Brooklyn Bridge

Saturday, April 2, 2011
Pfizer Auditorium, Polytechnic Institute of New York University,
5 MetroTech Center, Brooklyn, NY 11201

7:30am - 4:00pm Registration

8:30 – 8:45am Welcome & Introductions
John C. LaRosa, M.D.
President, SUNY Downstate Medical Center
Brooklyn, NY 11203
Ellis Rubinstein, Ph.D.
President, New York Academy of Sciences
New York, NY 10007-2157
TBA
Polytechnic Institute of NYU
Brooklyn, NY

8:45 – 9:30am Keynote Address I
Management of Progressive Kidney Failure: Ethical Challenges
Eli A. Friedman, M.D., M.A.C.P., F.A.C.P.
SUNY Downstate Medical Center
Brooklyn, NY 11203

8:45 – 9:30am Keynote Address I
Management of Progressive Kidney Failure: Ethical Challenges
Eli A. Friedman, M.D., M.A.C.P., F.A.C.P.
SUNY Downstate Medical Center
Brooklyn, NY 11203

9:30 – 9:35am Announcements
Subrata Saha, Ph.D.
Conference Chair
Research Professor & Director of Musculoskeletal Research
SUNY Downstate Medical Center, Brooklyn, NY

9:35 – 10:00am Coffee Break
## Advances in Biomedical Technology: Ethical Concerns I

### Co-Chairs
- Herbert Voigt, Ph.D.
- Boston University, Boston, MA 02215
- Daniel Vallero, Ph.D.
- Duke University, Pratt School of Engineering, Durham, NC

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<td>10:00am</td>
<td><strong>The Ethics of Synthetic Cells</strong></td>
<td>Alan Warner BA¹, Kenny Bowman, PhD²</td>
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<td>Institute for Science and Human Values, Tampa, FL</td>
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<td><strong>An Integrated Approach to Combating PTSD: The Need for Enhanced Education &amp; Awareness Programs for the Military and First Responders on National, Community &amp; Familial Levels</strong></td>
<td>Andrea K. Scott Esq.¹, Warren S. Grundfest, M.D. FACS², Vinay Bhupathy³</td>
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<td>Centre for Clinical Ethics; Joint Centre for Bioethics; University of Toronto; McMaster University, Toronto, Ontario</td>
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<td>11:00am – 11:45am</td>
<td><strong>Keynote Address II</strong></td>
<td><strong>All Hands on Deck: Regulating the Risk of Emerging Biotechnologies</strong></td>
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<td>Janice E. Graham, PhD</td>
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<td>Canada Research Chair in Bioethics</td>
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<td>Dalhousie University, Halifax, Canada</td>
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### Medical Practice and Ethics

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<td>1:00pm</td>
<td><strong>The Association for Medical Ethics and the Physician Payment Sunshine Act</strong></td>
<td>Charles Rosen, MD University of California, Irvine, CA</td>
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<td>1:15pm</td>
<td><strong>Error-provocative designs in medical practice</strong></td>
<td>Wade L. Robison, PhD Rochester Institute of Technology, Rochester, NY</td>
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<td>1:30pm</td>
<td><strong>Surgical Placebos in Clinical Research: Ethical Consideration</strong></td>
<td>Vanid Entezari MD¹, Ara. Nazarian PhD¹, Stephen Fern MD¹, Brian D. Snyder MD PhD¹², Mark C. Gebhardt MD¹</td>
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<td>¹ Department of Orthopedic Surgery, BIDMC, Boston, MA</td>
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<td>² Department of Orthopedic Surgery, Children's Hospital, Boston, MA</td>
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<td>1:45pm</td>
<td><strong>Ethics of End-of-Life Care: Reducing Communication Gaps Between Physicians, Patients and Families</strong></td>
<td>Dustin Passigli, MA, Rishi Sarkar, MD, Subrata Saha, PhD SUNY Downstate Medical Center, Brooklyn, NY</td>
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<td>2:00pm</td>
<td><strong>Is There Truly Informed Consent in the Clinical uses of Ionizing Radiation?</strong></td>
<td>Joseph A. Spadaro, PhD, Kent M. Ogden, PhD SUNY Upstate Medical University, Syracuse, NY</td>
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<td>2:15pm</td>
<td><strong>Complex Tissue Transplantation: An Urgent Need for National Guidelines</strong></td>
<td>Andrea K. Scott, Esq.¹, Warren S. Grundfest, MD, FACS², Vinay Bhupathy³</td>
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<td>³ Columbia University School of Law, New York, NY</td>
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**Advances in Biomedical Technology: Ethical Concerns I**

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### Keynote Address II

**All Hands on Deck: Regulating the Risk of Emerging Biotechnologies**

Janice E. Graham, PhD

Canada Research Chair in Bioethics

Dalhousie University, Halifax, Canada

12:00 – 1:00pm **Lunch and Announcements**
2:30pm  Ethical Issues in Health Care Delivery to Indigenous Population in Canada
Preeti Nayak, Markad V.Kamath, PhD,
Adrian R.Upton, MD
McMaster University, Hamilton, Ontario, Canada

2:45pm  Trigeminal Neural Gia: An Elusive Diagnosis
Daniel Soeffing, JD, MBE
University of Pennsylvania Center for Bioethics,
Philadelphia, PA

3:00 – 3:30pm  Coffee Break

3:30 – 4:45pm  Regenerative Medicine, Nanotechnology and Ethics
Co-Moderators  Victor Goldburg, MD
Case Western Reserve University, Cleveland, OH
TBA

3:30pm  Ethics as Meta-Engineering: A Novel Research Design for Anticipatory Governance in Tissue Biofabrication
George Khushf, PhD
University of South Carolina, Columbia, SC

3:50pm  Legal and Ethical Issues in Regenerative Nanomedicine
Linda MacDonald Glenn, JD, LLM1,
Jeanann S. Boyce, EDD2
1 Aiden March Bioethics Institute,
Albany Med. Ctr., Albany, NY
2 Montgomery College, Takoma Park, Maryland, DC

4:05pm  Understanding Ethics and Technical Knowledge in Regenerative Medicine: A Case Based Approach
Rosa L. Pinkus, PhD1, Bryan N. Brown, PhD2
1 University of Pittsburgh, Pittsburgh, PA
2 Cornell University, Ithaca, NY

4:30pm  Ethical Challenges in Global Organ Trade
Sharmila Chatterjee, MBBS1, Amit Chatterjee, PhD2
1 George Washington University, Washington, DC
2 ARCAB, Gaithersburg, MD

4:45 – 5:45pm  Tutorial
Neuroscience as Advanced Sciences’ Convergence: The Need For Pragmatism and Preparedness in Addressing Neuroethical Issues and Problems
James Giordano, PhD 1,2, Ashok Vaseashta, PhD3
1 Potomac Institute for Policy Studies, Arlington, VA
2 University of Oxford, Oxford, UK.
3 Institute for Advanced Sciences Convergence and International Clean Water Institute, NUARI, Herndon, VA

6:30pm  Banquet
Polytechnic Institute of New York University,
Brooklyn, NY 11201

Sunday, April 3, 2011
Pfizer Auditorium, Polytechnic Institute of New York University,
Brooklyn, NY 11201

8:00am-4:00pm  Registration

8:00 – 10:00am  Symposium: Ethical Issues in Dentistry
Co-Moderators  TBA

8:00 – 8:45am Keynote Address: III
Why Our Ethics Curricula Don’t Work
Charles N. Bertolami, DDS, DMedSc
Herman Robert Fox Dean
College of Dentistry at New York University,
New York, NY

8:45am  Ethics of the "Lack of Evidence" in an Evidence Based Practice Era – The Case of Oral Cancer Screening
Amit Chatterjee, PhD
National Institute of Dental and Craniofacial Research,
NIH, Bethesda, MD
9:00am  Dental Registry and DNA Repository: Ethical Concepts Imposed on Reasons for Nonparticipation
David A. Anderson, DDS, MDS, Alexandre R. Vieira, DMD, PhD, Jacqueline Noel, BA
University of Pittsburgh School of Dental Medicine, Pittsburgh, PA

9:15am  Ethical Guidelines for the Quality Assessment of Oral Healthcare
Amit Chattopadhyay, PhD1, Khushdeep Malhotra, BDS, MPH2, Sharmila Chatterjee, MBB2
1 National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD
2 George Washington University, Washington, DC

9:30am  Radiation exposure in dentistry: Is there a need for concern?
Ajay Kashi, DDS, PhD1, Chitvan Sharma, DDS1, Subrata Saha, PhD2
1 University of Rochester Eastman Institute for Oral Health, Rochester, NY
2 SUNY Downstate Medical Center, Box 30, Brooklyn, NY

9:45am  Need for Ethical Framework for Testing for Systemic Diseases in Dental Offices
Marushka Silveria, BDS, MPH1, Amit Chattopadhyay, PhD2
1 University of Massachusetts, Amherst, MA
2 National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD

10:00am  Issues that Affect Recruitment of African American Applications to Dental School: A Qualitative Evaluation
Christine Wankiiri-Hale, DMD, K Campbell, E Jeffrey, W Ackah, R Bell, AR Vieira
University of Pittsburgh School of Dental Medicine, Pittsburgh, PA

10:15am  Property and Privacy Paradigms of “Marketable Spit”: An Ethical and Legal Counterpart to Blood?
Anthony Vernillo, DDS, PhD, MBE1, Paul Root Wolpe, PhD2
1 New York University College of Dentistry, New York, NY
2 Emory University Center for Ethics, Atlanta, GA

10:30 – 11:00am  Coffee Break

11:00 – 12:30pm  Advances in Biomedical Technology and Ethical Concerns

Co-Chairs
Mark Stewart, MD, PhD
SUNY Downstate Medical Center, Brooklyn, NY
Adrian R. Upton, MD
McMaster University, Hamilton, Ontario, Canada

11:00am  Brain Imaging in the “Real World” – What Limits Should be Placed on it?
Kenneth R. Foster, PhD, PE
Daniel D. Langleben, MD
University of Pennsylvania, Philadelphia, PA

11:20am  Neurotechnologies, Invasiveness and the Extended Mind
Tom Buller, PhD
University of Alaska Anchorage, Anchorage, AK

11:35am  Ethical Issues in Bioinformatics: Privacy and More
Bonnie Kaplan, PhD, FACMI
Yale University, New Haven, CT

11:50am  Organ Transplantation: Ethical issues
Ana Lita, PhD
Appignani Bioethics Center, New York, NY

12:05pm  New Technologies for Homeland Security: What are Their Ethical Implications?
Kenneth R. Foster, PhD, PE
University of Pennsylvania, Philadelphia, PA

12:20 pm  Attitudes Towards Ethical Issues in Biomedical Research in Iran as a Developing Country
Hossein Dabiri, PhD1, Maryam Rezadehsbhi, MSc2, Mehdi Goudarzi, MSc3, Hossein Goudarzi, PhD3
1 School of Medicine, Shaheed Beheshti University, MC, Tehran, Iran
2 University of British Columbia, BC, Canada

12:35 – 1:30pm  Lunch and Announcements
1:30 – 3:30pm  Ethical Issues in Biomedical Research

Co-Chairs
Rena Bizios, Ph.D.
UT at San Antonio, San Antonio, TX
TBA

1:30pm  The NIH Human Embryonic Stem Cell Eligibility Working Group: The First Year
Dena S. Davis, JD, PhD
Cleveland State University, Cleveland, OH

1:45pm  Presumed Consent in Research on Biological Material from Deceased Persons
Goran Mijaljica1,2
1 University of Split School of Medicine, Split, Croatia
2 Union Graduate College, Advanced Certificate Program in Research Ethics in Central and Eastern Europe, Schenectady, NY

2:00pm  Confronting Ethical Issues in Biomedical Research: A Problem-Based Learning Approach and Consulting Model
Roberta M. Berry, JD, PhD, Jason Borenstein, PhD, Robert J. Butera, PhD
Georgia Institute of Technology, Atlanta, GA

2:15pm  Regulatory Approval of New Vaccinomics Tests: Anticipating The Valley of Death
Joly Y., PhD, Koutrikas G., BSc., Ozdemir V., MD, PhD, Knoppers B.M. PhD
McGill University, Montreal, QC, Canada

2:30pm  Does Financial Conflicts of Interest Bias Research?: An Inquiry into the “Funding Effect” Hypothesis
Sheldon Krimsky, PhD
Tufts University, Medford, MA

2:45pm  Can Patents Shape The ‘WHO’, ‘HOW’, and ‘WHAT’ of Academic Science? Evidence from Cancer Epigenetics
Matthew Herder, JSM
Dalhousie University, Halifax, Nova Scotia, Canada

3:00pm  “Genethics” and Commercial Society
Regi M Cherian
Eberhard Karls University, Tuebingen, Germany

3:15pm  The Ethics of Executive Compensation of Companies Marketing Medical Devices
Richard W. Treharne, PhD
University of Memphis, Memphis, TN

3:30 – 4:00pm  Coffee Break

4:00 – 5:45pm  Ethical Issues in Biomedical Engineering

Co-Moderators
Ben Avi, Ph.D.
Cooper Union, New York, NY
Subrata Saha, PhD
SUNY Downstate Medical Center, Brooklyn, NY

4:00pm  *Reintegrating the Ethics of Engineering and Medicine
Daniel A. Vallero, PhD
Duke University, Durham, NC

4:20pm  The Ethical Code for Medical and Biological Engineers Should Preclude Their Role in Judicial Execution
Herbert F. Voigt1, David M. Ehrmann2
1 Boston University, Boston, MA
2 Ehrmann Associates, Milton, MA

4:35pm  Interrelation of Biomedical Engineering, Surgery and Ethics in Ancient India
A. Deb, PhD 1, D.C. Sundaresh, MBBS 2
1 Indian Institute of Science, Bangalore, India
2 M.S. Ramaiah Medical College, Bangalore, India

4:50pm  Innovation in Audiology; Ethical Considerations
Kerry Bowman, PhD1, Alan Warner BA2
1 Mount Sinai Hospital, University of Toronto, Toronto, Ontario
2 Mount Sinai Hospital, Toronto, Ontario

5:05pm  Beyond the Metaphor of Gift: Genetic Enhancement and its Impact on Human Autonomy
Michael Steinmann, PhD
Stevens Institute of Technology, Hoboken, NJ

5:20pm  A Standard of Competency for Evaluating the Engineering Efficacy of Medical Devices
Anton E. Bowden, PhD, PE
Brigham Young University, UT

5:35pm  Is Human Enhancement also a Personal Matter?
Vincent Menuz, PhD, Thierry Hurlimann, LL.M., Béatrice Godard, PhD
University of Montreal, Montréal (QC), Canada

Note: * Denote invited speakers
**Poster Session:**

**Biologics in orthopaedics: The Ethical Challenges**

Nakul Karkare, M.D., M.S.¹, Thomas DiPasquale, M.D.¹, Mark Richardson, M.D.¹,
John Ingari, M.D.¹, Paul Muccinno, M.D.¹, Subrata Saha, Ph.D.²

¹Department of Orthopaedic Trauma, Wellspan Hospital, York, PA
²Department of Orthopaedic Surgery & Rehabilitation Medicine, SUNY Downstate Medical Center, Brooklyn, NY

**Ethical Aspects of Clinical Trials of Anti-Tubercular Medicines in New Delivery Systems in Pediatrics**

K.B. Murzagulova, PhD, R.C. Kuzdenbaeva, PhD, M.E. Kim, PhD

«ROMAT» Pharmaceutical Company, Pavlodar, Kazakhstan

**Ethical Aspects of Clinical Trials of Anti-Tubercular Medicine in Pediatrics**

Kunnaz Murzagulova, PhD, Raisa Kuzdenbaeva, PhD, Marina E. Kim, PhD

«ROMAT» Pharmaceutical Company, Pavlodar, Kazakhstan

**Ethical Aspects of Researches with Animals in Republic of Kazakhstan**

Valentina Shnaukshta, PhD, Kunnaz Murzagulova, PhD, Ainurbek Zhanuzakov, PhD

¹Ministry of Health of the Republic of Kazakhstan "National centre for expertise of drugs, medical products and equipment", Republic of Kazakhstan

²«ROMAT» Pharmaceutical Company, Pavlodar, Kazakhstan

³Ministry of Health of the Republic of Kazakhstan "National centre for expertise of drugs, medicats products and equipment", Republic of Kazakhstan

**Ethical Issues in Neural Stem Cell Research: A Review and a Perspective**

Stefano Sandrone, BSc

Vita-Salute San Raffaele University, Milan, Italy

**Ethical Issues in Orthopaedic Trauma**

Nakul Karkare, MD, MS¹, Thomas DiPasquale, MD, MD², Mark Richardson, MD, MD¹, John Ingari, MD¹,
Paul Muccinno, MD¹, William Urban, MD, MD¹, Subrata Saha, Ph.D²

¹Wellspan Hospital, York, Pennsylvania, PA
²SUNY Downstate Medical Center, Brooklyn, NY

**Ethical Perspective of use of Complimentary and Alternative Therapies in childhood neurological disorders**

Shefali Karkare, MD, Vinay Puri, MD

University of Louisville, Louisville, KY

**Is Spending Subjected to our Sense? Physiological and Self-Reported Feedback on Consumerism as Influenced by Scent**

Cecillie Bartlett, Joshua Tysinger, Patrick Foo, PhD

University of North Carolina at Asheville, Asheville, NC

**Medical Engineering of Sex and Gender: Prenatal Application of Dexamethosone for treatment of congenital adrenal hyperplasia**

David Alejandro Sanchez, BS

Polytechnic Institute of New York University, Brooklyn, NY

**Regulating Emerging Robotic Technologies in Biomedical Research and Applications**

Elettra Stradella, Post-Doc Fellow & Adj. Prof.¹, Pericle Salvini³

¹Studi Universitari e di Perfezionamento Sant’Anna of Pisa, Pisa
²University of Pisa, Pisa
³Università di Pisa, Pisa

**Towards a Common “Code of Conduct” for Biomedical Engineers**

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**Note:** All posters should be set-up from 7:30 to 8:30am on Saturday, April 2nd, 2011 and removed at 4:00pm on Sunday, April 3rd, 2011.

**Design:** Department of Biomedical Communications