THE SEVENTH INTERNATIONAL CONFERENCE ON ETHICAL ISSUES IN BIOMEDICAL ENGINEERING

APRIL 20-21, 2013
I wish to Register as a (please select only one):

FULL ATTENDANCE (Including all Oral and Poster Presenters)
- Registration Fee $200
- Student/Post-doc/Fellow $70

1-DAY ATTENDANCE (April 20 or 21, 2013)
- UNIQUE FEE for all. Please indicate Day
  - April 20 or April 21, 2013 **$150

** All 1-day registrations do NOT include a dinner ticket for the registrant. Dinner tickets can be purchased individually.

EXTRA DINNER TICKETS (dinner takes place on Saturday, April 20, 2013 at SUNY Downstate Medical Center)

I want extra dinner ticket(s)
(check if applicable and indicate the number):
- Dinner Ticket (for dinner attendees ONLY, 1-day participants - April 20 or 21, and/or Guests)
  - $50 each
  - Number of Tickets ______________

CONTACT INFORMATION (*Information is required)
Prefix*:  [ ] Dr.  [ ] Ms.  [ ] Mr.
First Name*: ___________________________ Middle Initial: ________
Last Name*: ____________________________________________
Degree*: ________________________________________________
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PAYMENT
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Mail Payment to: Subrata Saha, PhD
SUNY Downstate Medical Center
Orthopaedic Surgery & Rehabilitation Medicine,
450 Clarkson Avenue - Box 30,
Brooklyn, New York 11203
Welcome from the Conference Chair

I am pleased to welcome you to the Seventh International Conference on Ethical Issues in Biomedical Engineering. Our goal is to bring together a target audience of biomedical engineers, clinicians, research scientists, philosophers, lawyers, fellows, residents, 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 grateful for the educational support from other organizations such as, International Federation for Medical & Biological Engineering, the American Institute for Medical and Biological Engineering, NYU College of Dentistry 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, and the staff. The abstracts from this conference will be published in a special issue of the International Journal of Medical Implants and Devices that will be distributed at the conference. Selected papers will be published 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

Objectives
Expected results are that participants will be able to have an opportunity to learn from and engage with some of the most influential and widely respected experts in their field and will become aware of:

- Ethical guidelines for the development of new medical devices and new potential treatment modalities
- Ethical issues involved in clinical trials and animal experiments
- Conflicts of interest and regulatory issues for new devices

Accreditation Statement
The State University of New York (SUNY) Downstate Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

SUNY Downstate Medical Center designates this live activity for a maximum of 14.5 AMA PRA Category 1 credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Statement
SUNY Downstate Medical Center Office of CME (OCME) and its affiliates are committed to providing educational activities that are objective, balanced and as free of bias as possible. The OCME has established policies that will identify and resolve all conflicts of interest prior to this educational activity. All participating faculty are expected to disclose to the audience, verbally or in writing, any commercial relationships that might be perceived as a real or apparent conflict of interest related to the content of their presentations, and unlabeled/unapproved uses of drugs and devices. Detailed disclosures will be made verbally and/or in writing during the program.

ADA Statement
Special Needs: In accordance with the Americans with Disabilities Act, SUNY Downstate Medical Center seeks to make this conference accessible to all. If you have a disability which might require special accommodations, please contact Joyce Hayes at 718-245-4687 or e-mail your needs to: joyce.hayes@downstate.edu

Website
Online registration and latest program are available from:
http://www.downstate.edu/orthopaedics/bioethicsconf2013/
http://bioethics2013.eventbrite.com/
Hotel Information
Located within Renaissance Plaza and across the street from 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 one of the few full service hotels in Brooklyn. A block of rooms at the Marriott New York at the Brooklyn Bridge have been reserved at a special reduced rate of $199 (plus tax) per day for conference attendees during the conference. To receive this special rate, please mention “Ethics Conference” while booking the room. Please note that this special rate is valid until March 29th, 2013.

Call for Reservations:
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Phone: (718)-246-7000 • Fax: (718)-222-6520
Website - http://brooklynmarriott.com

Technical Programs Will Be Held At:

Directions: Map Of SUNY Downstate Campus
Alumni Auditorium, 395 Lenox Rd, Brooklyn, NY 11203
SUNY Downstate Medical Center

Saturday April 20, 2013
7:30am-4:00pm Registration
8:20-8:40am Welcome & Introductions
Alumni Auditorium

Ian L. Taylor MD, PhD
Senior Vice President for Biomedical Education and Research and Dean, College of Medicine, SUNY Downstate Medical Center,
TBA

8:40am Subrata Saha, PhD,
Conference Chair
SUNY Downstate Medical Center, Brooklyn, NY

8:45-10:35am Ethical Issues In Biomedical Engineering

Co-Chairs Herbert Voigt, PhD
Boston University, Boston, MA
Shankar Krishnan, PhD
Wentworth Institute Of Technology, Boston, MA

8:45am Electronic Medical Records, Patient Safety, and Ethical Considerations
Monique Frize, OC, PEng, PhD, FIEEE
Carleton University, Ottawa On, Canada

9:05am The Ethics of Global Catastrophic Risk from Dual-Use Bioengineering
Seth Baum, PhD and Grant Wilson, JD
Global Catastrophic Risk Institute, New York, NY

9:20am Re-Use of Pacemakers Harvested from Cadavers
Amit Chattopadhyay, PhD and Sharmila Chatterjee,
MPH, CPH, PGDHHM, MBBS
SCASI, Gaithersburg, MD

9:35am Ethical Standards and Principles to Consider for Microchip Implants in Humans
Christine Perakis, EdD1, Roger Achille, JD1, and Katina Michaels, PhD2
1 Johnson & Wales University, Providence, RI
2 University Of Wollongong, New South Wales Australia
9:50am  Whole Fetal Genome Screening: Perfecting the Race or Simply Trying to have a Healthy Baby
Evelyn Shuster, PhD
Philadelphia Veterans Affairs Medical Center, Philadelphia, PA

10:05am  A Comparative Study of the Performance of Fixed and Mobile Bearing Knee Implants Using Computer-Aided Engineering
G. Srinivas¹, Anindya Deb¹ and M. N. Kumar²
¹ Indian Institute of Science, Bangalore, India
² Hosmat Hospital, Bangalore, India

10:20am  The Need for a Bioengineering Code of Ethics that Incorporates Both Biochemical and Biomedical Engineering
William H. Marks and Sujata K. Bhatia, MD, PhD, PE
Harvard University, Cambridge, MA

10:35am  What did you find in my Genes? Using Participant Preferences when Revealing Biobank Individual Research Results
Brendan Parent, JD
NYU Langone Medical Center, New York, NY

10:50-11:10am  Coffee Break

11:10am-12:40pm  Ethics Of Stem Cell Use
Co-Chairs  TBA
Gene DiResta, PhD
Polytechnic Institute of New York University
Brooklyn, NY

11:10am  Ethical and Effective Informed Consent for Induced Pluripotent Stem Cell (iPsc) Research and Therapeutic Development
Justin Lowenthal, BS¹, Mahendra S. Rao, MD, PhD¹, and Sara C. Hull, PhD¹,²
¹ National Institutes Of Health (NIH), Bethesda, MD
² National Human Genome Research Institute (NHGRI), NIH, Bethesda, MD

11:25am  Will Education on Stem Cell Tourism Enhance Patient and Public Trust?
Zubin Master, PhD¹, Kelsey Robertson, BA², and Timothy Caulfield, LLM, FRSC²
¹ Albany Medical College, Albany, NY
² University Of Alberta, Edmonton, Canada

11:40am  Bioengineering Your Stem Cells: for Open Science or Personalized Medicine?
Krishanu Saha, PhD¹, and J. Benjamin Hurlbut, PhD²
¹ University of Wisconsin-Madison, Madison, WI
² Arizona State University, Glendale, AZ

11:55am  Ethical Issues With Human Stem Cell Research in an Engineering Institution
Glenn M. Monastersky, PhD
Rensselaer Polytechnic Institute, Rensselaer, NY

12:10pm  How Translatable are Stem Cell Technologies to Low-Resource Settings?
Laurence Girard and Sujata K. Bhatia, MD, PhD, PE
Harvard University, Cambridge, MA

12:25pm  Stem Cells in Dentistry: Are They Meeting Patients’ Expectations?
Martin Pendola, MS, DDS, William Urban, MD and Subrata Saha, PhD
SUNY Downstate Medical Center, Brooklyn, NY

12:40-1:40pm  Lunch

1:40-3:40pm  Mini-Symposium: Ethics Issues In Dentistry
Co-Chairs:  Amit Chattopadhyay, PhD
National Institute Of Dental and Craniofacial Research, NIH, Bethesda, MD
TBA

1:40-2:10pm  Keynote 1
Doing Well—Doing Good: A Mere State of Mind
Charles N. Bertolami, DDS, DMedSc
New York University College Of Dentistry, New York, NY

2:10pm  Graduating Dental Students’ Perceptions on Ethics Curriculum
Evelyn Lucas-Perry, DDS, MPH¹, Gwen Garrison, PhD¹, and Amit Chattopadhyay, PhD²
¹ American Dental Education Association, Washington DC
² National Institute Of Dental and Craniofacial Research, National Institutes Of Health, NIH
Bethesda, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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| 2:25pm | Medical Tourism From a Dental Perspective: Ethical Challenges            | Ajay Kashi, DDS, MS, PhD¹ and Subrata Saha, PhD²                           | ¹ University of Rochester Strong Memorial Hospital, Rochester, NY
|       |                                                                          |                                                                            | ² SUNY Downstate Medical Center, Brooklyn, NY                                    |
| 2:40pm | Ethical, Legal, and Social Challenges to the Biobanking of Oral Fluid Specimens | Anthony Vernillo¹ DDS, PhD, MBE and Sudeshni Naidoo² DDPH, MCHD           | ¹ New York University College Of Dentistry, New York, NY
|       |                                                                          |                                                                            | ² University Of The Western Cape, Cape Town, South Africa                      |
| 2:50pm | Ethics of Dental Amalgam Phase-Out                                       | Amit Chattopadhyay, PhD                                                    | National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD        |
| 3:10pm | Role of Periosteal Pedicle Graft As an Autogenous Guided Tissue Membrane In Periodontal Regeneration: An Ethical Perspective | Rameshwar Singhal, Sumit Kumar, Divya Mehrotra, Pavitra Rastogi           | King George's Medical University, Lucknow, India                                |
| 3:25pm | Ethical Issues in a Case Cointrol Study of Maternal Periodontal health Status and Low Birth Weight Babies in North India | Pavitra Rastogi, Sujata, Rameshwari Singhal, Shally Avasthi               | King George’s Medical University, Lucknow, Uttar Pradesh, India                   |
| 3:40-4:10pm | Coffee Break |                                                                 |                                                                                   |
| 4:10-6:30pm | Medicine, Religion and Ethics                                            | William P. Urban, MD, FAAOS                                                | SUNY Downstate Medical Center, Brooklyn, NY                                     |
|       |                                                                          | Alan Litsky, MD, ScD                                                        | Ohio State University, Columbus, OH                                             |
| 4:10pm | *Hospitals and Channel Houses                                            | Wade L. Robison, PhD                                                       | Rochester Institute of Technology, Rochester, NY                                 |
| 4:30pm | Transhumanism and The Protection of the Youth                            | Michael Steinmann, PhD                                                     | Stevens Institute of Technology, Hoboken, NJ                                    |
| 4:45pm | Understanding Creationist Physicians and Engineers as Students And Collaborators in Biomedical Engineering | Howard Winet, PhD                                                         | University of California, Los Angeles, CA                                       |
| 5:00pm | Human Reproductive Cloning as a Threat to Humanity                       | Matti Häyry, LicSc, DSc                                                    | University of Manchester, Manchester, UK                                        |
| 5:15pm | The Impact of Technology on Physician and Nursing Care in an Advanced Neo-Natal Acute Care Facility | Harold P. Sjursen, PhD¹ and Siv Elin Sjursen² ¹ Polytechnic Institute of New York University, Brooklyn, NY
|       |                                                                          |                                                                            | ² University of Chicago, Chicago, IL                                             |
| 5:30pm | Addressing the Organ Shortage Crisis Short of Legalizing the Sale of Organs | Andrew Flescher, PhD                                                       | Stony Brook University, Stony Brook, NY                                         |
| 5:45pm | Religious Core of Ethics: Need For a Scientific Method - an Advaitic Approach | Amit Chattopadhyay, PhD                                                   | SCASI, Gaithersburg, MD                                                         |
| 6:00pm | Ethical Considerations For Emerging Genomic Based Cancer Therapeutics    | Alan Wamer BA, and Kerry Bowman PhD                                       | Mount Sinai Hospital, University of Toronto, Toronto, Canada                    |
| 6:15pm | Having a Baby at Older Ages. Ethical Concerns Related to the Assisted Reproductive Technology From a Scientific and Religious Perspective | Mircea Leabu, PhD                                                       | University of Medicine and Pharmacy, National Institute of Pathology, Bucharest, Romania |
| 7:00-8:30pm | Dinner                                                                    |                                                                          |                                                                               |
### Sunday April 21, 2013

**Alumni Auditorium**

**8:30-9:00am**  **Keynote II**
Sources and Resolution of Ethical Conflicts in Healthcare  
Larry L. Hench, PhD  
University of Florida, University of Central Florida and Kings College/Guy’s Hospital, University of London, UK

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<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
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| 9:00   | **Neuroethics**                                                         | Mark Stewart, MD, PhD  
SUNY Downstate Medical Center, Brooklyn, NY  
John Kubie, PhD  
SUNY Downstate Medical Center, Brooklyn, NY |
| 9:00   | Ethical Issues of Neurocognitive Enhancement                             | Richard L. Wilson, MA  
University of Maryland, Baltimore, MD |
| 9:15   | “Brain Porn”: The Responsibilities of Neuroscientists and Journalists   | Daniel E. Wueste, PhD  
Clemson University, Clemson, SC |
| 9:30   | Ethical Considerations Surrounding the Direct-to-Consumer Advertising of  | Donna Hanrahan, MS  
Columbia University, New York, NY  
Mulugeta S. Abebe, PhD  
Columbia University, New York, NY |
| 9:45   | “He/She Is A Jerk, But Genius!”: Humane Treatment of Humans in Research |  |
| 10:00  | **Coffee Break**                                                        |                                                                                                                                 |
| 10:30  | *Responsible Scientific Conduct in Synthetic Biology: Proactively Managing Biosafety in a Project That Deskills the Design of Potentially Dangerous Organisms* | George Khush, PhD  
Saurabh Srivastava, PhD  
Tim Hsiau, PhD  
Sanjit Seshia, PhD  
Rastislav Bodik, PhD  
J. Christopher Anderson, PhD  
1 University of South Carolina Columbia, SC  
2 University of California, Berkeley, CA |
| 10:50  | What Does It Mean to Be Human                                           | George D. Catalano, PhD  
State University of New York At Binghamton, Binghamton, NY |
| 11:05  | Case Study Modules For Effectively Engaging Engineers in Ethical Reasoning About Emerging Technologies | Jonathan Beever, Andrew Brightman, Justin Hess, Michael Hiles, Lorraine Kisselburgh, Matthew Krane and Carla Zoltowski  
Purdue University, West Lafayette, IN |
| 11:20  | The Consequences of Professional Ethics in Modern Military Medicine     | Capt Mark B. Lyles MA, MS, EdS, Dmd, PhD  
U.S. Naval War College, Newport, RI |
| 11:35  | Ethical Issues in Employing Technology for Tactical Superiority in Defense and Security | Ashok Vaseashta, PhD  
Institute For Advanced Sciences Convergence and Int’l Clean Water Institute, Herndon, VA |
| 12:05  | **Lunch**                                                               |                                                                                                                                 |
| 1:00   | **Regulation, Law And Ethics**                                          | Lynne Jones, Ph.D.  
Johns Hopkins Medicine, Baltimore, MD  
Harold P. Sjursen, PhD  
Polytechnic Institute of New York University, Brooklyn, NY  
Jeanann S. Boyce, PhD  
Montgomery College, Takoma Park, MD |
| 1:00   | **Technology And Ethics**                                               | Lynne Jones, Ph.D.  
Johns Hopkins Medicine, Baltimore, MD  
Harold P. Sjursen, PhD  
Polytechnic Institute of New York University, Brooklyn, NY  
Jeanann S. Boyce, PhD  
Montgomery College, Takoma Park, MD |

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Coffee Break
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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tr>
<td>1:00pm</td>
<td>Ethical Considerations Meet Regulatory Affairs</td>
<td>William A. Hyman, ScD</td>
<td>Texas A&amp;M University, College Station, TX</td>
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<tr>
<td>1:15pm</td>
<td>Engineering and the Prevention of Global Chronic Disease: The Ethical Duty of Engineers to Protect The Public Health</td>
<td>Sandeep P. Kishore, PhD and Sujata K. Bhatia, MD, PhD, PE</td>
<td>Harvard University, Cambridge, MA</td>
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<td>1:30pm</td>
<td>Taking Ownership of The Person: The Law and Ethics Surrounding Human Tissue</td>
<td>Daniel C. Ehike, PhD</td>
<td>SUNY Downstate Medical Center, Brooklyn, NY</td>
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<td>1:45pm</td>
<td>Sovereign Wrongs: Ethics in The Governance of Pathogenic Genetic Resources</td>
<td>Catherine Rhodes, PhD</td>
<td>The University of Manchester, Manchester, UK</td>
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<tr>
<td>2:00pm</td>
<td>Immoral Investment</td>
<td>Brett D. Steele, PhD</td>
<td>Khalifa University, Abu Dhabi, United Arab Emirates</td>
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<td>2:15-2:45pm</td>
<td><strong>Coffee Break</strong></td>
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<td>2:45-3:25pm</td>
<td><strong>Research and Medical Ethics</strong></td>
<td><strong>Co-Chairs:</strong> Kathleen Powderly, PhD</td>
<td>SUNY Downstate Medical Center, Brooklyn, NY</td>
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<td>Florence Kavaler, MD, MS, MPH</td>
<td>SUNY Downstate Medical Center, Brooklyn, NY</td>
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<td>3:25pm</td>
<td>Cryonic Life Extension: Scientific Possibility or Stupid Pipe Dream?</td>
<td>D. John Doyle, MD, PhD</td>
<td>Case Western Reserve University, Cleveland, OH</td>
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<tr>
<td>3:40pm</td>
<td>Consent, Research Ethics, and Biobanks</td>
<td>Tuija Takala, Lic.Soc.Sc, PhD</td>
<td>University of Helsinki, Helsinki, Finland</td>
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<td>3:55pm</td>
<td>The Surfacin Trial as a Microcosm of Research Ethics</td>
<td>Mark Bourgeois, PhD</td>
<td>Northwestern University, Evanston, IL</td>
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<td>4:10pm</td>
<td>Opportunistic/Multiplex Testing as a Threat to Autonomy and Informed Consent</td>
<td>Dena S. Davis, JD, PhD</td>
<td>Lehigh University, Bethlehem, PA</td>
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<td>4:25pm</td>
<td>A Framework for the Flourishing of “Big Science”: A Case Study of The South Carolina Project for Organ Biofabrication</td>
<td>Jeremy Weissman and George Khushf, PhD</td>
<td>University of South Carolina, Columbia, SC</td>
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<td>4:40pm</td>
<td>Bioethical Issues in Designing and Fabrication of a New Device For Bone Lengthening</td>
<td>Sumit Kumar, Divya Mehrotra, Imran Faruqui, and Shadab Mohammad</td>
<td>King George Medical University, Lucknow, Uttar Pradesh, India</td>
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<td>4:55pm</td>
<td>Intra-Hepatic Pump Implant: in Stage Iv Colorectal Patients is it Ethical?</td>
<td>Sukamal Saha, MD, FACS; FRCS(C); Mohammed Saifullah Shaik, MD; Benjamin Abadeer, DO; David Wiese, MD; Alpesh Korant, MD; Sunil Nagpal, MD; David Eilender, MD; Trevor Singh, MD; and Madan Arora, MD</td>
<td>McLaren Regional Medical Center, Flint, MI</td>
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*Denotes Invited Speakers
Poster Session:

Note: All Posters Should Be Set-Up From 7:30 To 8:30am On Saturday, April 20th and Removed At 4:00pm On Sunday, April 21st, 2013. Additional poster presentations will be announced at the meeting. Maximum poster size: 40h x 60w. Poster can be smaller.

Psychopaths: Should They be Punished for Their Unlucky Brain? Yanuska Lescaille, MPH and Pamela Saha, MD 1 College of Medicine, SUNY Downstate Medical Center, Brooklyn, NY 2 Department of Psychiatry, SUNY Downstate Medical Center, Brooklyn, NY

Evolution of Personhood Theory in The Last Decade: An Analysis of Policy and Technical Advancements Jeanann Boyce, EdD and Linda M. Glenn JD, LLM 1 Montgomery College, Takoma Park, MD 2 Albany Medical Center, Albany, NY

The Significance of Fear as An “Equal Opportunity Component” in the Articulation & Acceptance of Informed Consent in Dentistry Boyd W. Shepherd, DDS, JD University of Texas Health Science Center At Houston School of Dentistry, Houston, TX

Research Proposals and Bioethics in Maxillofacial Surgery: A Challenge Divya Mehrotra and Sumit Kumar King George’s Medical University, Lucknow, Uttar Pradesh, India

The Ethical Implications of Bonus Payments for Medicare Advantage Plans Khin-Kyemon Aung and Sujata Bhatia MD, PhD Harvard University, Cambridge, MA

Changing Scope of Medical Radiation and its Effect on Ethical Issues David Dinhofer, MD and Subrata Saha, PhD 1 Department of Radiology, SUNY Downstate Medical Center, Brooklyn, NY 2 Department of Orthopaedic Surgery & Rehabilitation Medicine, SUNY Downstate Medical Center, Brooklyn, NY

Neurotechnology: Ethical Challenges Nathaniel Fung BS 1 and Subrata Saha, PhD 2 1 College of Medicine, SUNY Downstate Medical Center, Brooklyn, NY 2 Department of Orthopaedic Surgery & Rehabilitation Medicine, SUNY Downstate Medical Center, Brooklyn, NY

Ethical Considerations for Use of Expired Drugs for Underdeveloped Countries Andrey Galper PharmD and Subrata Saha, PhD Department of Orthopaedic Surgery & Rehabilitation Medicine, SUNY Downstate Medical Center, Brooklyn, NY

A Numerical Modeling Procedure for the Assessment of Lumbar Spine Following a Segmental Spinal Fusion M. N. Kumar 1, G. Srinivas 2, and Anindya Deb 2 1 Hosmat Hospital, Bangalore, India 2 Indian Institute of Science, Bangalore, India

Ethical Considerations in Patent Law for Medical Procedures Trent A. Kirk, JD Alston & Bird LLP, New York, NY

Ethical Aspects of Universal Versus Targeted Interventions in a Community Amit Chattopadhyay, PhD 1, Astha Singhal, BDS, MPH 2 1 Office of Science Policy and Analysis, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD, USA 2 University of Iowa, Iowa City, IA, USA.
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SIGMA XI

THE SCIENTIFIC RESEARCH SOCIETY

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