

Biomedical Engineering Symposium: Tools to Transform Discovery & Care

Cornell Engineering
Meinig School of Biomedical Engineering

Weill Cornell Medicine
Caryl and Israel Englander
Institute for Precision Medicine

Weill Cornell Medicine
Neurological Surgery

Meeting Co-Chairs



Marjolein van der Meulen, PhD
McCormick Director, Biomedical
Engineering
Cornell University



Olivier Elemento, PhD
Director, Englander Institute
for Precision Medicine
Weill Cornell Medicine



Susan C. Pannullo, MD
Robert G. Schwager MD '67 Education Scholar
Professor of Neurological Surgery, Weill Cornell Medical College
Adjunct Professor of Biomedical Engineering, Meinig School of
Biomedical Engineering

Monday, May 22nd

12:00 PM - 5:30 PM

Weill Cornell Medicine, Belfer Research Building, Room 302

12:30 PM **Welcome and Introductions |**

Symposium Co-Chairs, featuring:



Newton de Faria, PhD
Director, Masters of Engineering Program
Meinig School of Biomedical Engineering
Cornell University



Emmanuel P. Giannelis, PhD
Director, Accelerating Engineering Innovations in
Medicine, Cornell University
Professor, Materials Science & Engineering
Cornell University

1:00 PM **Session I: Imaging and Optical Tools**

Discussion Leaders



Kelly Gillen, PhD, MBA
Assistant Professor of Cell Biology in Radiology
Director of Research Strategy, Department of Radiology
Weill Cornell Medicine



Chris B. Schaffer, PhD
Professor
Meinig School of Biomedical Engineering,
Cornell University

Speakers



Steven Adie, PhD
Associate Professor & Director, Undergraduate
Studies
Meinig School of Biomedical Engineering
Cornell University



Nate Cira, PhD
Assistant Professor
Meinig School of Biomedical Engineering
Cornell University



Jan Grimm, MD, PhD
Professor
Attending Radiology and Nuclear Medicine
Memorial Sloan Kettering Cancer Center



Kayvan Keshari, PhD
Fred Lebow Chair
Professor, Member and Laboratory Head
Memorial Sloan Kettering Cancer Center



Nozomi Nishimura, PhD
Associate Professor
Meinig School of Biomedical Engineering
Cornell University



Kristen Pleil, PhD
Assistant Professor
Pharmacology
Weill Cornell Medicine



Simone A Winkler, PhD
Assistant Professor, Radiology
Weill Cornell Medicine

3:30 PM **Session II: Molecular, Cellular, and
Tissue Engineering**

Discussion Leaders



Benjamin Cosgrove, PhD
Associate Professor
Meinig School of Biomedical Engineering
Cornell University



Shahin Rafii, MD
Professor Chief, Division of Regenerative Medicine Department
of Medicine and Director, Ansary Stem Cell Institute
Weill Cornell Medicine

Speakers



Jonathan Butcher, PhD
Professor
Meinig School of Biomedical Engineering
Cornell University



Laura Donlin, PhD
Associate Professor
Hospital for Special Surgery Research Institute
Weill Cornell Medicine



Eve Donnelly, PhD
Associate Professor
Materials Science & Engineering
Cornell University



Fabrice Jaffré, PhD
Assistant Professor of Cell and Developmental Biology
Research in Surgery
Weill Cornell Medicine



Ashley Laughney, PhD
Assistant Professor of Physiology and Biophysics
Assistant Professor of Computational Cancer Genomics in
Computational Biomedicine
Weill Cornell Medicine



Matthew Paszek, MD
Associate Professor
Smith School of Chemical & Biomolecular Engineering
Cornell University



Robert Schwartz, MD, PhD
Associate Professor, Medicine
Weill Cornell Medicine

5:00-7:00pm

Poster Session and Reception

Belfer 204 & Skylight Lounge

Biomedical Engineering Symposium: Tools to Transform Discovery & Care

Tuesday, May 23rd

7:30 AM - 4:30 PM

Weill Medical College, Belfer Research Building, Room 302

**8:15 AM Session III: Biomaterials and
Drug Delivery**

Discussion Leaders

Lawrence Bonassar, PhD

Daljit S. and Elaine Sarkaria Professor
Meinig School of Biomedical Engineering/Sibley School of
Mechanical & Aerospace Engineering
Cornell University



Dan Heller, PhD

Head, Cancer Nanomedicine Laboratory
Memorial Sloan Kettering Cancer Center



Christopher A. Alabi, PhD

Director of Graduate Studies
Associate Professor
Smith School of Chemical and Biomolecular Engineering
Cornell University



Speakers

Niroshana Anandasabapathy, MD, PhD

Associate Professor, Dermatology
Associate Professor, Microbiology and Immunology
Weill Cornell Medicine



Michael Kaplitt, MD, PhD

Professor of Neuroscience, Brain and Mind Research Institute
Professor of Neurological Surgery in Neurology
Professor of Neurological Surgery in Otolaryngology
Weill Cornell Medicine



Steven Lipkin, MD, PhD

Professor of Medicine
Director of Mendelian Genetics Program
Weill Cornell Medicine



Jason Spector, MD

Chief, Division of Plastic and Reconstructive Surgery
Professor, Surgery and Otolaryngology
Weill Cornell Medicine



Yadong Wang, PhD

McAdam Family Foundation Professor of Heart Assist Technology
Meinig School of Biomedical Engineering
Cornell University



Ulrich Wiesner, PhD

Spencer T. Olin Professor of Engineering
Materials Science & Engineering
Cornell University



Roberta Zappasodi, PhD

Assistant Professor of Hematology in Medicine
Division of Hematology & Medical Oncology
Parker Bridge Fellow, Parker Institute for Cancer Immunotherapy
Weill Cornell Medicine



11:00 AM Working Group Moderators

Group 1: Neurotech *WGC Room B*

Roberta Marongiu, PhD

Assistant Professor of Genetics and Neuroscience in
Neurological Surgery
Weill Cornell Medicine



Nozomi Nishimura, PhD

Associate Professor
Meinig School of Biomedical Engineering
Cornell University



Group 2: Cancer & Immunoengineering *WCG Room C*

Monica L. Guzman, PhD

Associate Professor of Pharmacology in Medicine
Weill Cornell Medicine



Ari Melnick, MD

Gebroe Professor of Hematology and Medical Oncology
Chair, Hematologic Malignancies Program, Joan and Sanford
Weill Department of Medicine Professor of Immunology and
Pharmacology, Weill Cornell Medicine



Ulrich Wiesner, PhD

Spencer T. Olin Professor of Engineering
Materials Science & Engineering
Cornell University



Group 3: Organoids & Tissue Engineering *Belfer 140*

Lawrence Bonassar, PhD

Daljit S. and Elaine Sarkaria Professor
Meinig School of Biomedical Engineering/Sibley School of
Mechanical & Aerospace Engineering
Cornell University



Shaoyi Jiang, PhD

Robert Langer '70 Family and Friends Professor
Meinig School of Biomedical Engineering
Cornell University



Group 4: Education *Belfer 1301*

Newton de Faria, PhD

Director, Masters of Engineering Program
Meinig School of Biomedical Engineering
Cornell University



Susan C. Pannullo, MD

Robert G. Schwager MD '67 Education Scholar
Professor of Neurological Surgery, Weill Cornell Medical
College, Adjunct Professor of Biomedical Engineering, Meinig
School of Biomedical Engineering



Joseph Safdieh, MD

Gertrude Feil Associate Dean of Curricular Affairs
Vice Chairman for Education and Professor of Neurology
Weill Cornell Medicine



4:15 PM Summary, Concluding Remarks, and Next Steps