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Schedule

7:30–8:15 REGISTRATION and CONTINENTAL BREAKFAST

8:15–8:25 Welcome Timothy J. Kamp, M.D.

SESSION 1: NEUROREGENERATION

Moderator: Marina Emborg, M.D., Ph.D.

8:25–9:05 Developing a Pluripotent Stem Cell-Based Therapy for Parkinson's Disease Lorenz Studer, M.D.

9:05–9:45 Critical Elements in the Development of Pluripotent Stem Cell-Based Therapies for Human Degenerative Diseases: Examples in Neurological Diseases Jane Lebowski, Ph.D.

9:45–10:05 BREAK and POSTER SESSION

SESSION 2: BIOPROCESSING, SAFETY AND TOLERANCE

Moderator: James Thomson, Ph.D.

10:05–10:45 1997–2017: Two Decades of Evolution in Stem Cell Therapy Regulation—A pas de deux Between Scientific Discovery and Policy Richard McFarland, M.D., Ph.D.

10:45–11:25 Pluripotent Stem Cell Therapies—Challenges and Opportunities in Manufacturing, Quality and Regulatory Derek Hei, Ph.D.

11:25–12:05 Universal Donor Stem Cells David Russell, M.D., Ph.D.

12:05–1:30 LUNCH and POSTER SESSION

SESSION 3: EYE REPAIR: Moderator: David Gamm, M.D., Ph.D.

1:30–2:10 Sight for More Eyes: Development of Cell Therapies for Ocular Disease Dennis Clegg, Ph.D.

2:10–2:50 Autologous iPSC Cell Therapy for Macular Degeneration: From Bench-To-Bedside Kapil Bharti, Ph.D.

2:50–3:10 BREAK and POSTER SESSION

SESSION 4: ADVANCES FOR HEART AND DIABETES

Moderator: Jon Odorico, M.D.

3:10–3:50 Development of a Stem Cell Derived Pancreatic Islet Cell Therapy for the Treatment of Diabetes Felicia Pagliuca, Ph.D.

3:50–4:30 Cardiovascular Progenitors from Human Pluripotent Stem Cells for the Treatment of Heart Failure: A Translational Experience Philippe Menasché, M.D., Ph.D.

4:30–4:45 Presentation of Poster Awards and Closing Remarks William L. Murphy, Ph.D.

4:45–6:00 RECEPTION
Sponsored by Michael Best & Friedrich LLP

20 Years of Human Pluripotent Stem Cells:

Current Clinical Trials and Regulatory Framework

April 18, 2018 | Madison, WI

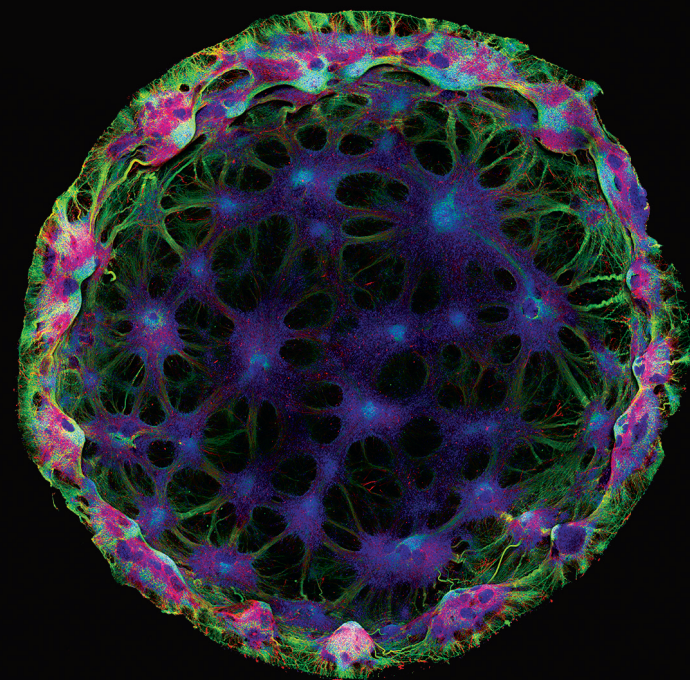


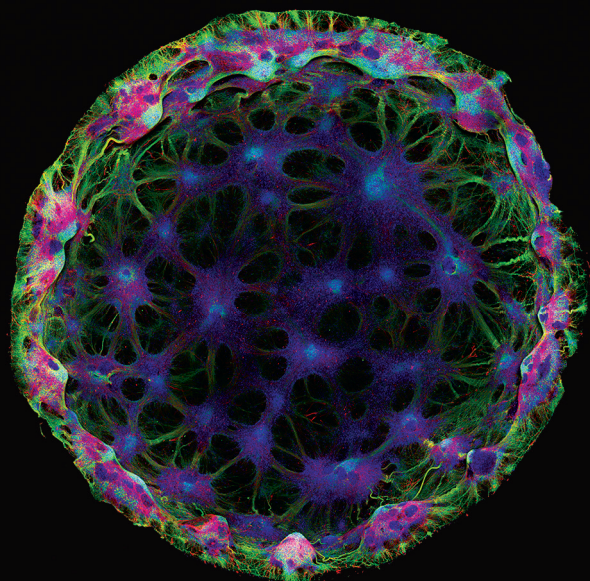
Image courtesy of Dr. Michael Schwartz, Thomson and Murphy Groups, University of Wisconsin-Madison

Highlighted Issues

- Describing human pluripotent stem cell therapies for diabetes, ocular disease, spinal cord injury, Parkinson's disease and heart failure
- Biomanufacturing of clinical grade cellular products
- Overcoming immunological barriers for human pluripotent stem cell-based therapies
- Defining safe and effective human pluripotent stem cell clinical products

Key Topics

The Symposium is coordinated by the Stem Cell & Regenerative Medicine Center, at the University of Wisconsin–Madison and the BTC Institute. It brings together leading researchers advancing human pluripotent stem cell products to clinical applications for a range of degenerative diseases. The presentations will highlight progress in clinical trials as well as major barriers for developing these revolutionary new therapies.



Speakers

Kapil Bharti, Ph.D.

Stadtman Investigator, Unit on Ocular Stem Cell & Translational Research, National Eye Institute, National Institutes of Health, Bethesda, MD

Dennis Clegg, Ph.D.

Professor, Wilcox Family Chair in BioMedicine, Molecular, Cellular and Developmental Biology, UC Santa Barbara, Santa Barbara, CA

Derek Hei, Ph.D.

VP Manufacturing, Quality and Regulatory, BlueRock Therapeutics, Cambridge, MA

Jane Lebkowski, Ph.D.

President of R & D and Chief Scientific Officer, Asterias Biotherapeutics, Fremont, CA

Richard McFarland, M.D., Ph.D.

Chief Regulatory Officer, Advanced Regenerative Manufacturing Institute, Manchester, NH

Philippe Menasché, M.D., Ph.D.

Professor of Thoracic and Cardiovascular Surgery, University of Paris Descartes; Chief of the Heart Failure Surgery Unit, Hôpital Européen Georges Pompidou, Paris, France

Felicia Pagliuca, Ph.D.

Scientific Co-Founder, Vice President of Cell Biology Research and Development, Semma Therapeutics, Cambridge, MA

David Russell, M.D., Ph.D.

Professor of Medicine, Division of Hematology; Adjunct Professor of Biochemistry, University of Washington School of Medicine, Seattle, WA

Lorenz Studer, M.D.

Director, Memorial Sloan Kettering Center for Stem Cell Biology; Professor, Department of Neuroscience, Weill-Cornell Graduate School, New York, NY

Moderators

*Marina E. Emborg, M.D., Ph.D.

Associate Professor, Medical Physics, University of Wisconsin School of Medicine and Public Health, Madison, WI

*David M. Gamm, M.D., Ph.D.

Associate Professor, Ophthalmology & Visual Sciences, University of Wisconsin School of Medicine and Public Health, Madison, WI

*Timothy J. Kamp, M.D.

Professor, Medicine, Cell and Regenerative Biology; Co-director, Stem Cell and Regenerative Medicine Center, University of Wisconsin–Madison, Madison, WI

William L. Murphy, Ph.D.

Professor, Biomedical Engineering, Orthopedics & Rehabilitation; Co-director, Stem Cell & Regenerative Medicine Center, University of Wisconsin–Madison, Madison, WI

*Jon S. Odorico, M.D.

Professor, Department of Surgery, University of Wisconsin School of Medicine and Public Health, Madison, WI

James Thomson, Ph.D.

John D. MacArthur Professor, Director, Regenerative Biology, Morgridge Institute for Research, University of Wisconsin–Madison, Madison, WI; Professor, Department of Molecular, Cellular, & Developmental Biology, UC Santa Barbara, Santa Barbara, CA

* Indicates also serving as a Poster Judge

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