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Schedule

7:30–8:15 REGISTRATION and CONTINENTAL BREAKFAST

8:15–8:20 Welcome Timothy J. Kamp, M.D.

SESSION 1: MSCs and IMMUNOMODULATION

Moderator: Jenny Gumperz, Ph.D.

8:20–9:00 Multipotent Adult Progenitor Cells Suppress T Cell Activation in vivo Karen English, Ph.D.

9:00–9:40 MSC Therapies to Mitigate Tissue Injury and Inflammation Jacques Galipeau, M.D.

9:40–10:00 BREAK/POSTER SESSION

SESSION 2: NK CELLS and STEM CELLS

Moderator: Christian Capitini, M.D.

10:00–10:40 Improved Cancer Therapy Using Engineered Human Pluripotent Stem Cells Dan Kaufman, M.D., Ph.D.

10:40–11:20 Off-the-shelf iPS Derived NK Cells to Treat Cancer Jeffrey Miller, M.D.

11:20–12:00 Rapid Fire Poster Presentations
Poster Contest Finalists

12:00–1:30 LUNCH/POSTER SESSION

SESSION 3: TOLERANCE for PSC-BASED THERAPIES

Moderator: Jon S. Odorico, M.D.

1:30–2:10 Immune Rejection of Allogeneic Cell Transplants Derived from iPSCs is Prevented by Genetic Engineering Sonja Schrepfer, M.D., Ph.D.

2:10–2:50 Achieving Durable Immune Tolerance of Curative Pluripotent Stem Cell Therapies, in the Absence of Immunosuppressive Drugs Matthew E. Brown, Ph.D.

2:50–3:10 BREAK/POSTER SESSION

SESSION 4: BIOENGINEERING for IMMUNOMODULATION

Moderator: Krishanu Saha, Ph.D.

3:10–3:50 Biomaterials Strategies to Promote Brain Repair After Stroke Tatiana Segura, Ph.D.

3:50–4:30 Who is Orchestrating Repair—Immune Cells or Stem Cells? Jennifer H. Elisseeff, Ph.D.

4:30–4:45 Poster Contest Awards & Closing Remarks

4:45–6:00 RECEPTION

Stem Cells:

Immune Tolerance and Immunotherapy

April 17, 2019 | Madison, WI

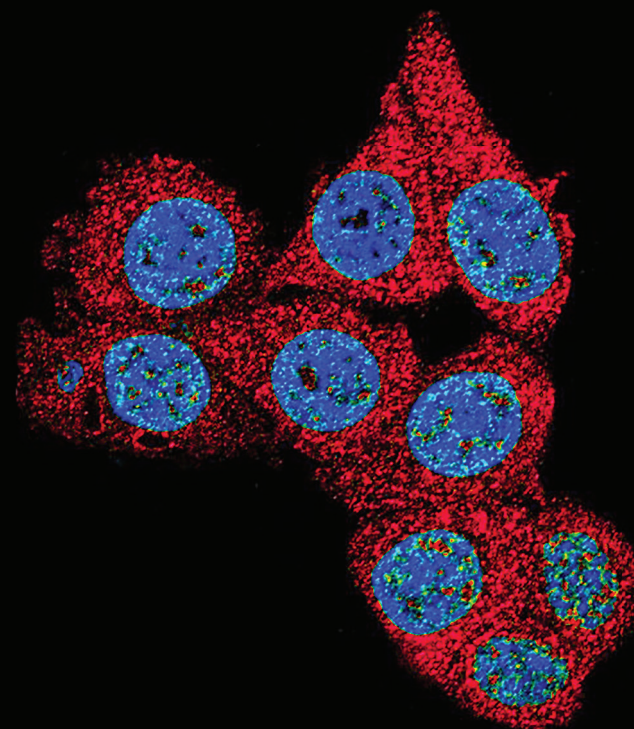


Image courtesy of
Dr. Pradyut Paul and Galipeau Group,
University of Wisconsin-Madison

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 in immunotherapies and stem cell biology. The presentations will highlight advances in immunotherapies, as well as efforts to understand and overcome immunological barriers to cell-based therapies.

Highlighted Issues

- Describing translational uses for human pluripotent stem cell-derived and MSC-derived immune therapies
- Advancing natural killer cell-based immunotherapies
- Identifying and overcoming immunological barriers for human pluripotent stem cell-based therapies
- Exploring bioengineering approaches for immunological modulation

Speakers

Matthew E. Brown, Ph.D.,

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

Jennifer H. Elisseeff, Ph.D.

Morton Goldberg Professor, Wilmer Eye Institute and Biomedical Engineering, Translational Tissue Engineering Center, Board of Maryland's Technology Development Corporation (TEDCO), Johns Hopkins Biomedical Engineering, Baltimore, MD

Karen English, Ph.D.

Lecturer, Postgraduate Coordinator, Biology Department, Maynooth University, Ireland

Jacques Galipeau, M.D.

Professor, Hematology/Oncology, University of Wisconsin School of Medicine and Public Health, Madison, WI

Dan Kaufman, M.D., Ph.D.

Professor of Medicine, Division of Regenerative Medicine, Director of Cell Therapy, UC-San Diego, San Diego, CA

Jeffrey Miller, M.D.

Professor of Medicine, Division of Hematology, Oncology and Transplantation, Department of Medicine, University of Minnesota, Minneapolis, MN

Sonja Schrepfer, M.D., Ph.D.

Professor of Surgery, Biomedical Sciences Graduate Program, UC-San Francisco, San Francisco, CA

Tatiana Segura, Ph.D.

Professor of Biomedical Engineering, Duke University, Raleigh, NC

Organizing Committee

Christian Capitini, M.D.

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

Jacques Galipeau, M.D.

Jon S. Odorico, M.D.

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

Krishanu Saha, Ph.D.

Assistant Professor, Biomedical Engineering, College of Engineering; Faculty, Wisconsin Institute for Discovery, University of Wisconsin-Madison, Madison, WI

Igor Slukvin, M.D., Ph.D.

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

Moderators

Christian Capitini, M.D.

Jenny Gumperz, Ph.D.

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

Jon S. Odorico, M.D.

Krishanu Saha, Ph.D.

Poster Judges

Christian Capitini, M.D.

Melissa Kinney, Ph.D.

Assistant Professor, Biomedical Engineering, College of Engineering; University of Wisconsin-Madison, Madison, WI

Krishanu Saha, Ph.D.

Igor Slukvin, M.D., Ph.D.

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