

PROGRAM SCHEDULE

WEDNESDAY, NOVEMBER 14, 2007

- 10:00 a.m. – 7:30 p.m. Registration
- 2:00 p.m. – 2:15 p.m. *Welcoming Remarks*
Desmond Schatz, MD and Mark Atkinson, PhD, IDS Co-Chairs,
University of Florida College of Medicine, Gainesville, Florida
Jerry P. Palmer, MD, IDS President, University of Washington,
Seattle, Washington
- 2:15 p.m. – 4:15 p.m. *State of the Art Lecture: Autoantibody Markers for Type 1 Diabetes*
Ezio Bonifacio, PhD, Dresden University of Technology, Dresden, Germany
- Workshop Reports: Discussion and Future Direction*
Polly J. Bingley, MD, University of Bristol Medical School, Bristol, England
Patricia W. Mueller, PhD, Centers for Disease Control and Prevention,
Atlanta, Georgia
- 4:15 p.m. – 4:30 p.m. BREAK
- 4:30 p.m. – 6:30 p.m. *State of the Art Lecture: Cellular Immune Markers for Type 1 Diabetes*
Bart O. Roep, MD, PhD, Leiden University Medical Center, Leiden,
The Netherlands
- Workshop Reports: Recent Advances in Characterizing Islet Autoreactive T cells*
Mark Peakman, MD, PhD, Guy's, King's and St. Thomas' School of Medicine,
London, England
- OPEN EVENING

THURSDAY, NOVEMBER 15, 2007

- 7:00 a.m. – 4:00 p.m. Registration
- 7:00 a.m. – 8:00 a.m. BREAKFAST
- 8:00 a.m. – 8:45 a.m. *State of the Art Lecture: The Challenges of Allo- and Autoimmunity:
A Realistic Approach to Reversing Type 1 Diabetes*
Jeffrey Bluestone, PhD, University of California, San Francisco, California
- 8:45 a.m. – 9:45 a.m. **Update on Animal Models of Type 1 Diabetes**
8:45 a.m. – 9:15 a.m. *Humanized Mice and Novel Rat Models*
Dale Greiner, PhD, University of Massachusetts Medical School,
Worcester, Massachusetts
- 9:15 a.m. – 9:45 a.m. *Visualizing the Immune Response In Vivo*
Qizhi Tang, PhD, University of California, San Francisco, California
- 9:45 a.m. – 10:00 a.m. BREAK

- 10:00 a.m. – 12:00 p.m. **The Pancreas in Type 1 Diabetes**
 10:00 a.m. – 10:30 a.m. *Insulinitis in Human Type 1 Diabetes and Pre-diabetes*
 Toshiaki Hanafusa, MD, PhD, FACP, Osaka Medical College, Takatsuki, Osaka, Japan
- 10:30 a.m. – 11:00 a.m. *Insulinitis in Animal Models of Type 1 Diabetes*
 Edward H. Leiter, PhD, The Jackson Laboratory, Bar Harbor, Maine
- 11:00 a.m. – 11:30 a.m. *Getting Closer to Visualizing the Beta-cell*
 Anna Moore, PhD, Massachusetts General Hospital, Harvard University, Charlestown, Massachusetts
- 11:30 a.m. – 12:00 p.m. *Role of Sensory Neurons*
 Hans-Michael Dosch, MD, PhD, The Hospital for Sick Children, Toronto, Ontario, Canada
- 12:00 p.m. – 1:00 p.m. LUNCH
- CONCURRENT GENERAL SESSIONS**
- 1:00 p.m. – 3:15 p.m. **Track 1: Genetics of Type 1 Diabetes: The Next Generation**
 1:00 p.m. – 1:45 p.m. *State of the Art Lecture: Non-MHC Susceptibility Genes in Type 1 Diabetes*
 John A. Todd, PhD, University of Cambridge, England
- 1:45 p.m. – 2:15 p.m. *Type 1 Diabetes Genetics Consortium (T1DGC)*
 Stephen S. Rich, PhD, University of Virginia, Charlottesville, Virginia
- 2:15 p.m. – 2:45 p.m. *Extreme Risk for Type 1 Diabetes*
 George S. Eisenbarth, MD, PhD, University of Colorado Health Sciences Center, Aurora, Colorado
- 2:45 p.m. – 3:15 p.m. *Expression “Signatures” of Autoimmune Disorders*
 Virginia Pascual, MD, Baylor Institute for Immunology Research, Dallas, Texas
- 1:00 p.m. – 3:15 p.m. **Track 2: The Role for Toll-like Receptors and Innate Immunity in Type 1 Diabetes**
 1:00 p.m. – 1:45 p.m. *State of the Art Lecture: Toll-like Receptors*
 Susan Wong, MD, PhD, University of Bristol, England
- 1:45 p.m. – 2:15 p.m. *Linkages between Innate and Adaptive Immunity*
 Leonard C. Harrison, MD, DSc, Royal Melbourne Hospital, Parkville, Victoria, Australia
- 2:15 p.m. – 2:45 p.m. *TLRs in Models of Viral Induced Diabetes*
 Aldo Rossini, MD, University of Massachusetts Medical School, Worcester, Massachusetts
- 2:45 p.m. – 3:15 p.m. *Alpha Interferons*
 Michael Clare-Salzler, MD, University of Florida, Gainesville, Florida
- 3:15 p.m. – 3:45 p.m. BREAK
- 3:45 p.m. – 5:30 p.m. Oral Abstract Presentations
- 5:30 p.m. – 6:30 p.m. Poster Sessions Open
- OPEN EVENING

FRIDAY, NOVEMBER 16, 2007

- 7:00 a.m. – 4:00 p.m. Registration
- 7:00 a.m. – 8:00 a.m. BREAKFAST
- 8:00 a.m. – 9:00 a.m. *Debate: Where Should the Greatest Focus Currently Be: Preventing or Reversing Type 1 Diabetes?*
Prevention: Olli Simell, MD, PhD, University of Turku, Finland
Intervention: Kevan C. Herold, MD, Yale University, New Haven, Connecticut
Reversal: Camillo Ricordi, MD, University of Miami, Florida
- 9:00 a.m. – 10:15 a.m. **The Prevention or Reversal of Human Type 1 Diabetes**
9:00 a.m. – 9:30 a.m. *Update on Worldwide Efforts to Prevent Type 1 Diabetes*
Jay Skyler, MD, MACP, University of Miami, Florida
- 9:30 a.m. – 10:00 a.m. *Controversies in Type 1 Diabetes Intervention Studies*
Jerry P. Palmer, MD, University of Washington, Seattle, Washington
- 10:00 a.m. – 10:15 a.m. *What will it Take to get Novel Therapies Approved for Preventing and Ameliorating Type 1 Diabetes?*
G. Alexander Fleming, MD, Kinexum LLC, Harpers Ferry, West Virginia
- 10:15 a.m. – 10:30 a.m. BREAK
- 10:30 a.m. – 12:00 p.m. **Cell Based Therapies for Type 1 Diabetes**
10:30 a.m. – 11:00 a.m. *State of the Art Lecture: Stem Cell Therapies for Type 1 Diabetes*
Massimo M. Trucco, MD, Children's Hospital, University of Pittsburgh, Pennsylvania
- 11:00 a.m. – 11:30 a.m. *Autologous Umbilical Cord Blood Infusions in Type 1 Diabetes*
Michael Haller, MD, University of Florida, Gainesville, Florida
- 11:30 a.m. – 12:00 p.m. *Deriving Beta-cells from Stem Cells*
Susan Bonner-Weir, PhD, Joslin Diabetes Center, Boston, Massachusetts
- 12:00 p.m. – 1:00 p.m. LUNCH
- 1:00 p.m. – 3:30 p.m. **Environmental and Mechanistic Causes of Type 1 Diabetes**
1:00 p.m. – 1:30 p.m. *Dirt, Downs Syndrome and Asthma – What is Their Connection to Type 1 Diabetes?*
Jean-Francois Bach, MD, Necker Hospital, Paris, France
- 1:30 p.m. – 2:30 p.m. *Debate: Are Specific Environmental Agents Causative Factors in the Pathogenesis of Type 1 Diabetes?*
For: Ake Lernmark, PhD, University of Washington, Seattle, Washington
Against: Edwin Gale, MD, Southmead Hospital, University of Bristol, England
- 2:30 p.m. – 2:50 p.m. *TEDDY Update*
Marian J. Rewers, MD, MPH, PhD, Barbara Davis Center for Childhood Diabetes, University of Colorado, Denver, Colorado
- 2:50 p.m. – 3:10 p.m. *Is There a Critical Role for the Gut in the Genesis of Type 1 Diabetes?*
Fraser W. Scott, PhD, Ottawa Health Research Institute, Ottawa, Ontario, Canada

- 3:10 p.m. – 3:30 p.m. *Maternal Microchimerism and Type 1 Diabetes*
Kathleen Gillespie, PhD, University of Bristol, England
- 3:30 p.m. – 3:45 p.m. BREAK
- 3:45 p.m. – 5:45 p.m. **Mechanisms of Beta-cell Death**
3:45 p.m. – 4:15 p.m. *How do Beta-cells Die in Type 1 Diabetes?*
Thomas Mandrup-Poulsen, MD, PhD, Steno Diabetes Center,
Gentofte, Denmark
- 4:15 p.m. – 4:45 p.m. *The Role of the Islet Microenvironment*
Philippe A. Halban, PhD, University Medical Centre, Geneva, Switzerland
- 4:45 p.m. – 5:15 p.m. *Free Radical Damage*
Clayton E. Mathews, MD, University of Pittsburgh, Pennsylvania
- 5:15 p.m. – 5:45 p.m. *Cytolysis*
Thomas WH Kay, PhD, FRCP, St. Vincent's Institute of Medicine,
Fitzroy, Australia
- 5:45 p.m. – 7:00 p.m. Poster Sessions Open
- 7:30 p.m. – 10:00 p.m. IDS CONFERENCE DINNER

SATURDAY, NOVEMBER 17, 2007

- 7:00 a.m. – 4:00 p.m. Registration
- 7:00 a.m. – 8:00 a.m. BREAKFAST
- 8:00 a.m. – 8:45 a.m. *State of the Art Lecture: Is Islet Regeneration "Real" in Type 1 Diabetes?*
Peter Butler, MD, University of California, Los Angeles, California
- 8:45 a.m. – 12:30 p.m. **Immune Responses in Islet Cell and Pancreas Transplantation**
8:45 a.m. – 9:15 a.m. *FDG Imaging and Early Beta-cell Loss in the Peritransplant Period*
Olle Korsgren, MD, PhD, Uppsala University, Uppsala, Sweden
- 9:15 a.m. – 9:45 a.m. *Induction Strategies to Improve Long Term Transplant Outcomes*
James A. Shapiro, MD, PhD, University of Alberta, Edmonton, Canada
- 9:45 a.m. – 10:15 a.m. *B-cell Directed Strategies in Islet Transplantation*
Ali Najj, MD, PhD, University of Pennsylvania Health System,
Philadelphia, Pennsylvania
- 10:15 a.m. – 10:30 a.m. BREAK
- 10:30 a.m. – 11:00 a.m. *Combined B and T cell: Directed Strategies in Pancreas Transplantation*
George Burke, III, MD, FACS, University of Miami Miller School of Medicine,
Miami, Florida
- 11:00 a.m. – 11:30 a.m. *Recurrence of Islet Autoimmunity and Duct to Insulin Transdifferentiation in
the Transplanted Human Pancreas*
Alberto Pugliese, MD, Diabetes Research Institute, Miami, Florida

- 11:30 a.m. – 12:00 p.m. *Immune Monitoring for Early Detection of Rejection and Recurrence of Autoimmunity*
Norma S. Kenyon, PhD, University of Miami Miller School of Medicine, Miami, Florida
- 12:00 p.m. – 12:30 p.m. *Round Table on New Approaches in Beta-cell Therapy*
Julio C. Voltarelli, MD, PhD, University Hospital, School of Medicine of Ribeirão, Preto, Brazil and Camillo Ricordi, MD, University of Miami, Florida
- 12:30 p.m. – 1:30 p.m. LUNCH
- 1:30 p.m. – 3:35 p.m. **Defining Roles of the Immune Response in Type 1 Diabetes**
1:30 p.m. – 1:55 p.m. *Regulatory and Effector T-cell Responses in Type 1 Diabetes*
Lucienne Chatenoud, MD, Necker Hospital, Paris, France
- 1:55 p.m. – 2:20 p.m. *B-lymphocytes: “B Stings”?*
David Serreze, PhD, The Jackson Laboratory, Bar Harbor, Maine
- 2:20 p.m. – 2:45 p.m. *Dendritic Cells*
Hammo Drexhage, MD, Erasmus University, Rotterdam, The Netherlands
- 2:45 p.m. – 3:10 p.m. *Invariant Natural Killer T Cells (iNKT Cells)*
S. Brian Wilson, MD, PhD, Harvard Medical School, Cambridge, Massachusetts
- 3:10 p.m. – 3:35 p.m. *CD8+ T-cells*
Pere Santamaria, MD, PhD, University of Calgary, Alberta, Canada
- 3:35 p.m. – 4:00 p.m. BREAK
- 4:00 p.m. – 6:00 p.m. Oral Abstract and Oral Poster Presentations
- 6:00 p.m. – 7:00 p.m. Poster Sessions Open
- OPEN EVENING

SUNDAY, NOVEMBER 18, 2007

- 7:00 a.m. – 11:00 a.m. Registration
- 7:00 a.m. – 8:00 a.m. BREAKFAST
- 8:00 a.m. – 9:00 a.m. *IDS Business Meeting*
Jerry P. Palmer, MD, University of Washington, Seattle, Washington
- 9:00 a.m. – 12:00 p.m. **The Natural History of Type 1 Diabetes**
9:00 a.m. – 9:30 a.m. *What Do we Really Know about the Natural History of Type 1 Diabetes?*
Carla J. Greenbaum, MD, Benaroya Research Institute at Virginia Mason, Seattle, Washington
- 9:30 a.m. – 10:00 a.m. *What Do we Really Know about the History of Diabetes Post-Transplantation?*
R. Paul Robertson, MD, Pacific Northwest Research Institute, Seattle, Washington
- 10:00 a.m. – 10:30 a.m. *Knowledge Gaps in our Understanding of Type 1 Diabetes*
Jørn Nerup, MD, Steno Memorial Hospital, Gentofte, Denmark

10:30 a.m. -10:45 a.m.

BREAK

10:45 a.m. – 12:00 p.m.

Challenges and Opportunities: Open Discussion

Moderator: Matthias G. von Herrath, MD, La Jolla Institute for Allergy and Immunology, La Jolla, California

12:00 p.m.

CONFERENCE ENDS