

National Institute of Biomedical Imaging and Bioengineering  
National Institute of Diabetes and Digestive and Kidney Diseases  
Juvenile Diabetes Research Foundation International  
Present a Workshop

**Imaging the Pancreatic Beta Cell**  
April 21-22, 2003  
Bethesda Marriott Hotel, Bethesda, MD  
**Draft Agenda**

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Monday, April 21, 2003

6:30-10:00 pm

6:30 Registration/ Posters, Refreshments

7:00 Welcome

Dr. Robert Nerem, Special Scientific Advisor, NIBIB  
Dr. Griffin Rodgers, Deputy Director, NIDDK  
Workshop Chair(s)

7:20 Introduction and Background—Why do we need Beta Cell Imaging?  
Maren Laughlin (NIDDK), Brenda Korte (NIBIB)

7:30 Keynote Talk:

Diabetes and the Beta Cell: Overview and Current Directions  
Dr. Kenneth Polonsky

8:10 Keynote Talk:

*In Vivo* Molecular Imaging: Overview and Current Directions  
Dr. Brian D. Ross

8:50 Keynote Talk:

Autoimmune Destruction and Islet Transplantation: Progress and Goals for a Cure  
TBA

9:20 Posters, Refreshments

10:00 adjourn

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Tuesday, April 22, 2003

8:00am – 6:30pm

7:00 Breakfast/Registration

8:00 Beta Cell Biology Plenary Talks:

8:00 Islet/Pancreas Anatomy and Physiology—Dr. Susan Bonner-Weir

8:30 Metabolism and Molecular Biology of the Beta Cell

—Dr. Christopher Newgard

9:00 An Informatics Approach to New Beta Cell Surface Markers

—Klaus Kaestner

9:15 Antibodies to Beta Cell Surface Markers –Ole Madsen

9:30 Break

10:00 Research Talks

10:00 Dr. Anna Moore

10:15 Dr. Guy Rutter

10:30 Dr. Britton Chance

10:45 Dr. Abass Alavi

11:00 Dr. Massimo Trucco

11:15 Dr. Per-Olaf Berggren

11:30-12:45 Working Lunch and Posters

Cellular Imaging of the Beta Cell –David Piston

12:45-2:15 Research Talks

12:45 Dr. Dixon Kaufman

1:00 Dr. Wen-Hong Li

1:15 Dr. Paul Harris

1:30 Dr. Alvin Powers

1:45 Dr. Dean Sherry

2:00 Dr. Brian Roman

2:15 Break

2:45 – 5:00 Imaging Plenary Talks:

2:45 Insights into Immune Destruction; Strengths and Weaknesses of Optical  
Imaging of the Beta Cell—TBA

3:10 Molecular and Physiological Imaging using MR—Dr. Chien Ho

3:35 Design of Molecular Imaging Agents:--Dr. Sam Achilefu

4:00 Novel Imaging Agents: function --TBA

4:25 Break

4:40 Discussion

Translational Challenges for Cellular & Molecular Imaging --Dr. Joseph Frank  
“Challenges for the next five years—what problems do we need to solve to take  
beta cell imaging into the clinic?”

6:00 Adjourn