


# DIFE Symposium

## Genetics and Pathophysiology of Type 2 Diabetes




**Location:** Conference Center, German Institute of Human Nutrition  
 Potsdam-Rehbrücke  
 Arthur-Scheunert-Allee 114-116  
 14558 Nuthetal, Germany

**Registration:** Wednesday, February 13, 2008, 15:00-17:00 and  
 Thursday and Friday, February 14-15, 2008, 7:30-8:30

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 http://www.dife.de/Symposium2008

How to get to the 



-  Via Berliner Ring (A 10) to junction "Dreieck Nuthetal", from there in direction Berlin to exit "Saarmund", further on to the right, continue for about 1 km (north), main building on the right.
-  From Berlin-Tegel airport (TXL), Taxi to the Institute approx. €50 or by bus (line X9) to train station "Berlin-Hauptbahnhof" and further by train to "Potsdam-Hauptbahnhof".
-  From "Potsdam-Hauptbahnhof", Taxi to the Institute approx. €15 or by tram (91 or 93) direction "Bahnhof Rehbrücke". From there about 15 min. walk (south) to the main building on the left.



Potsdam-Rehbrücke, February 14-15, 2008  
 German Institute of Human Nutrition

**Sponsors**



**International Guest Speakers:**

- Sam Cushman (NIH, Bethesda, USA)
- Geoff Holman (University of Bath, UK)
- Barbara Kahn (Harvard Medical School, Boston, USA)
- Ed Leiter (The Jackson Laboratories, Bar Harbor, USA)
- Ulf Smith (Göteborg University, SE),
- Matthias Tschöp (University of Cincinnati, USA),
- Juleen Zierath (Karolinska Institute, Stockholm, SE)



## Preliminary Program - Thursday, February 14<sup>th</sup> 2008

8:45 - 9:00 Welcome

### Insulin action

- 9:00 - 9:30 **Jens Brüning** (Köln) Insulin Action in the Central Nervous System
- 9:30 - 9:50 **Sam Cushman** (Bethesda) Adipogenesis and Possible Abnormalities in Adipose Tissue Turnover in Insulin Resistance
- 9:50 - 10:20 **Geoff Holman** (Bath) Identifying Sites of Regulation of GLUT4 Trafficking
- 10:20 - 10:50 **Coffee break**
- 10:50 - 11:10 **Dieter Häussinger** (Düsseldorf) Cellular Hydration and Insulin Action

### Insulin resistance

- 11:10 - 11:40 **Barbara Kahn** (Boston) New Insights into Mechanisms by which the Adipose Cell Regulates Systemic Glucose Homeostasis and Energy Balance
- 11:40 - 12:10 **Ulf Smith** (Göteborg) Insulin Resistance is a Proinflammatory State - Role of the Adipose Tissue
- 12:10 - 13:30 **Lunch & Poster session**
- 13:30 - 14:00 **Juleen Zierath** (Stockholm) Targeting Signaling Cascades in Insulin Resistance
- 14:00 - 14:20 **Burkhard Göke** (München) Disturbances of the Entero-insular Axis and New Therapeutic Approaches
- 14:20 - 14:40 **Michael Ristow** (Jena) Targeting of Type 2 Diabetes by Modulation of Mitochondrial Metabolism
- 14:40 - 15:10 **Peter Heinrich** (Aachen) IL6 and Diabetes
- 15:10 - 15:40 **Coffee break**
- 15:40 - 16:00 **Hans Häring** (Tübingen) Phenotyping and Genotyping of Prediabetic Individuals
- 16:00 - 16:20 **Annette Schürmann** (Potsdam) The *Arfrp*<sup>ad-/-</sup> Mouse, a Novel Fatless Disease Model

### Genetics of type 2 diabetes

- 16:20 - 16:40 **Ed Leiter** (Bar Harbor) The NZO Mouse: A Treasure-trove of Diabesity Genes
- 16:40 - 17:10 **Hans-Georg Joost** (Potsdam) Mouse Diabetes Genes: Windows for Understanding the Pathogenesis of Type 2 Diabetes.
- 20:00 Dinner for speakers and invited guests

## Preliminary Program - Friday, February 15<sup>th</sup> 2008

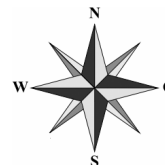
### Beta-cell function and insulin secretion

- 9:00 - 9:30 **Michele Solimena** (Dresden) Biogenesis of Insulin Secretory Granules
- 9:30 - 9:50 **Sigurd Lenzen** (Hannover) The Vulnerable Beta-cell
- 9:50 - 10:10 **Markus Tiedge** (Rostock) Glucokinase in Pancreatic Beta-cells: Glucose Sensor and Target for Anti-diabetes Drugs
- 10:10 - 10:30 **Ingo Rustenbeck** (Braunschweig) The First Phase of Insulin Secretion: Have We Got the Right Ideas?
- 10:30 - 10:50 **Walter Becker** (Aachen) Cytokine-like Effects of Leptin on Pancreatic Beta-cells
- 10:50 - 11:30 **Coffee break**

### Gene-nutrition interaction and obesity

- 11:30 - 12:00 **Hannelore Daniel** (Weihenstephan) Old and Slim: Nutrient Signalling, ROS-stress and Longevity in *C. elegans*
- 12:00 - 12:30 **Matthias Tschöp** (Cincinnati, USA) The Gut-brain Axis in the Neuroendocrine Control of Metabolism
- 12:30 - 13:00 **Johannes Hebebrand** (Essen) Polygenic Obesity
- 13:00 - 14:30 **Lunch & Poster session**
- 14:30 - 15:00 **Andreas Pfeiffer** (Potsdam) Nutrients, Diabetes Prevention and Metabolism
- 15:00 - 15:20 **Hadi Al-Hasani** (Potsdam) Finding an Obesity Gene in Slim Mice
- 15:20 - 15:50 **Wolfgang Meyerhof** (Potsdam) Molecular Genetics and Biochemistry of Taste Receptors
- 15:50 - 16:00 Farewell

Deadline for abstract submission to [Symposium2008@dife.de](mailto:Symposium2008@dife.de) November, 1st, 2007.



Poster session in the library

Coffee break in the lobby of the conference center

Lunch at the DiFE-Cantina