

Academia Europaea – Klaus Tschira Foundation

Obesity and Diabetes

An international workshop to be held at the Studio of Villa Bosch, Heidelberg, Germany, 6th – 8th March 2003

Thursday 6th March

19.00-19.10

Ole Petersen (University of Liverpool, UK) [o.h.petersen@liv.ac.uk]

Introductory Remarks

Insulin Secretion

Chair: **Ole Petersen**

19.10 – 20.00

Claes Wollheim (University of Geneva, Switzerland)

[Claes.Wollheim@medecine.unige.ch]

Insulin secretion in the healthy β -cell and in some models of type 2 diabetes

20.00 – 20.10

Discussion

20.10 – 20.35

Frans Schuit (Free University of Brussels, Belgium) [fschuit@minf.vub.ac.be]

β -cell gene expression associated with the glucose-induced insulin secretory phenotype

20.35 – 20.45

Discussion

20.45 – 21.10

Mathias Schwanstecher (Braunschweig Technical University, Germany)

[M.Schwanstecher@tu-bs.de]

Molecular control of the β -cell K^+_{ATP} channel by drugs and nucleotides

21.10 – 21.20

Discussion

Friday 7th March

Insulin Secretion (continued)

Chair: **Andras Spät** (Semmelweis University, Budapest, Hungary)
[spat@puskin.sote.hu]

09.00 – 09.25

Guy Rutter (Bristol University, UK) [G.A.Rutter@bristol.ac.uk]

Secretory granule movement in the β -cell

09.25 – 09.35

Discussion

09.35 – 10.00

Patrik Rorsman (Lund University, Sweden) [patrik.rorsman@mphy.lu.se]

Mechanism of insulin exocytosis

10.00 – 10.10

Discussion

10.10 – 10.35

Romano Regazzi (Lausanne University, Switzerland)

[Romano.Regazzi@ibcm.unil.ch]

Monomeric G-proteins in the regulation of insulin exocytosis

10.35 – 10.45

Discussion

10.45 – 11.10 *Coffee break*

Chair: **Andras Spät**

11.10 – 11.35

Ole Petersen (University of Liverpool, UK)

A local $[Ca^{2+}]_i$ rise mediated by voltage-dependent Ca^{2+} channels is sufficient to cause PKC translocation in insulin secreting cells

11.35 – 11.45

Discussion

Cellular and Molecular Basis of Energy Homeostasis

11.45 – 12.10

Graham Dockray (University of Liverpool, UK) [g.j.dockray@liv.ac.uk]

Gut-brain signalling

12.10 – 12.20

Discussion

12.20 – 13.15 *Lunch*

Chair: **Theo Godfraind** (Louvain Catholic University, Brussels, Belgium)

[Godfraind@farl.ucl.ac.be]

13.15 – 13.40

Denis Burdakov (University of Oxford, UK) [denis.burdakov@physiol.ox.ac.uk]

Hypothalamic control of body energy balance: cellular and molecular mechanisms

13.40 – 13.50

Discussion

13.50 – 14.15

Paul Trayhurn (University of Liverpool, UK) [p.trayhurn@liv.ac.uk]

Molecular mechanisms in energy regulation - signalling and secretory role of adipose tissue

14.15 – 14.25

Discussion

14.25 – 14.50

Sven Enerbäck (Göteborg University, Sweden)

[sven.enerback@medgen.gu.se]

FOXC2 - a modulator of adrenergic sensitivity in adipose tissue

14.50 – 15.00

Discussion

15.00 – 15.25 *Coffee break*

Chair: **Raymond Ardaillou** (Hopital Tenon, Paris, France)

[raymond.ardaillou@tnn.ap-hop-paris.fr]

15.25 – 15.50

Bernard Thorens (University of Lausanne, Switzerland)

[Bernard.Thorens@ipharm.unil.ch]

Glucose transporters in the regulation of body glucose homeostasis

15.50 – 16.00

Discussion

16.00 – 16.25

Martin Brand (MRC, Cambridge, UK)

[martin.brand@mrc-dunn.cam.ac.uk]

Uncoupling proteins: possible drug targets in obesity and diabetes

16.25 – 16.35

Discussion

Saturday 8th March

Insulin Action

Chair: **Arnold Burgen** (University of Cambridge, UK) [asvb@cam.ac.uk]

09.00 – 09.50

Philip Cohen (University of Dundee, UK) [P.Cohen@dundee.ac.uk]

Intracellular transduction downstream of the insulin receptor

9.50 – 10.00

Discussion

10.00 – 10.25

Emmanuel Van Obberghen (INSERM, Nice, France)

[Emmanuel.Van-Obberghen@unice.fr]

Insulin action and its modulation

10.25 – 10.35

Discussion

10.35 – 11.00

Pascal Ferre (INSERM Centre de Recherches Biomedicales des Cordeliers, Paris, France) [pferre@bhd.c.jussieu.fr]

Role of sterol response element binding protein 1c in insulin action

11.00 – 11.10

Discussion

11.10 – 11.35 *Coffee break*

Chair: **Oleg Krishtal** (Bogomoletz Institute, Kiev, Ukraine)

[krishtal@serv.biph.kiev.ua]

11.35 – 12.00

Zoltan Szilvassy (University of Debrecen, Hungary)

[szilva@king.pharmacol.dote.hu]

Therapeutic exploitation of the HISS (hepatic insulin sensitizing substance) mechanism

12.00 – 12.10

Discussion

12.10 – 12.35

Alex Verkhatsky (University of Manchester, UK)

[alex.verkhatsky@man.ac.uk]

Insulin-dependent regulation of mitochondrial function in neurones

12.35 – 12.45

Discussion

12.45 – 13.45

Lunch

Diabetes

Chair: **Barbro Johansson** (University of Lund, Sweden)

[barbro.johansson@neuro.lu.se]

13.45 – 14.10

Marc Prentki (Montreal University, Canada) [marc.prentki@UMontreal.CA]

Lipid signalling and β -cell function in health and diabetes

14.10 – 14.20

Discussion

14.20 – 14.45

Jens Holst (Copenhagen University, Denmark) [holst@mfi.ku.dk]

Role of GLP-1 in health and in the treatment of type 2 diabetes

14.45 – 14.55

Discussion

14.55 – 15.20

Coffee break

Chair: **Klaus Thureau** (University of Munich, Germany)

[thureau@physiol.med.uni-muenchen.de]

15.20 – 15.45

Hans Häring (Tübingen University, Germany)

[Hans-Ulrich.Haering@med.uni-tuebingen.de]

Clinical characterization of insulin secretion as the basis for genetic analyses

15.45 – 15.55

Discussion

15.55 – 16.20

Stephanie Amiel (King's College London, UK) [stephanie.amiel@kcl.ac.uk]

Neuroimaging and the central control of glucose metabolism in man

16.20 – 16.30

Discussion

16.30 – 16.40

Claes Wollheim and Ole Petersen: **Conclusion**