

Please note:

The conference language is English

The number of participants is limited

Organisation:

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Hirnliga e. V. symposium

**Alzheimer's disease:
New perspectives on therapeutic targets
and pathways**

Organizers: **Walter E. Müller** (Frankfurt, Germany)
Gunter P. Eckert (Frankfurt, Germany)
Grace Y. Sun (Columbia, USA)
W. Gibson Wood (Minneapolis, USA)

Venue: **August 25. – 27. 2011**
Goethe University Frankfurt
Forschungskolleg Humanwissenschaften
Am Wingertsberg 4
61348 Bad Homburg

In cooperation with

Thursday, 08/25/11

Session A. Introductory plenary lecture

- 19:00 Welcome
19:15 The challenge to civilization: how to protect the mind (Bazan, N. Orleans)
20:15 Dinner

Friday, 08/26/11

Session B. Plenary Lecture

- 08:30 Synaptic damage and neurodegeneration (Nicotera, Bonn)

Session C. Functional Plasticity

- 09:30 Multi-target drugs with neurorestorative –neurotrophin properties with cell cycle arrest activities (Youdim, Haifa)
10:00 Mechanistic Underpinnings for Simvastatin-Mediated Enhancement of Cognitive Function and Synaptic Plasticity (Li, Minneapolis)
10:30 -11:00 *Coffee break*
11:00 Adult hippocampal neurogenesis: regulation, function and relevance for AD and other dementias (Kempermann, Dresden)
11:30 Cell Cycle Activation and Hyperploid Neurons in Alzheimer´s disease (Arendt, Leipzig)
12:00 Cognitive and physical intervention (Hampel, Frankfurt)
12:30 – 13:30 *Lunch break*

Session D. Cell communication

- 13:30 New Perspectives on Regulation and Function of Isoprenoids in Brain (Wood, Minneapolis)
14:00 Isoprenylation in brain aging and AD (Eckert, Frankfurt)
14:30 Isoprenoid –dependent regulation of Rho G-protein expression and signaling in human trabecular meshwork cells (Stubbs, Chicago)
15:00 -15:30 *Coffee break*
15:30 Brain insulin signaling as a therapeutic intervention in the treatment of Alzheimer´s disease: Current Evidence and Future Directions (Benedict, Uppsala)
16:00 Poly(ADP-ribose) polymerases and their role in alterations of transcription and memory during inflammatory responses (Strosznajder, Warsaw)
16:30 Linking phospholipase A2 to oxidative/nitrosative pathways: implication for AD (Sun, Columbia)

Saturday, 08/27/11

Session E. Plenary: Translation of preclinical into clinical research

- 08:30 Lessons from vaccination and secretase inhibitors (Orgogozo, Bordeaux)

Session F. Mitochondrial function

- 09:30 Mitochondria as drug targets (Reddy, Beaverton)
10:00 Mitochondrial dysfunction, the link to brain aging (Leuner, Erlangen-Nuremberg)
10:30 Mitochondrial dynamics in aging and neurodegeneration (Jendrach, Frankfurt)
11:00 – 11:30 *Coffee break*
11:30 Mitochondrial dysfunction in AD and AD animals (Eckert, Basel)
12:00 Multi-target strategy for neuroprotection and neuroplasticity (Luo, Baltimore)
12:30 Mitochondrial dysfunction in AD: Focus on blood cells (Müller, Frankfurt)
12:45 – 13:30 *Lunch break*

Session G. Emerging Pathways

- 13:30 Cell and Animal Models of Tau Pathology and Neurodegeneration (Mandelkow, Bonn)
14:00 Selective mitophagy and the dynamic nature of mitochondrial quality control (Reichert, Frankfurt)
14:30 BAG-proteins and protein degradation: implications for aging and diseases (Behl, Mainz)
15:00 – 15:30 *Coffee break*
15:30 PPAR-gamma agonists for neurodegeneration (Lin, Taipei)
16:00 P2Y2 Nucleotide Receptors Mediate Proinflammatory and Neuroprotective Responses (Weisman, Columbia)
16:30 Regulation of complement factor H (CFH) by multiple miRNAs in Alzheimer´s disease (Lukiw, New Orleans)
16:45 Concluding remarks