



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

Final Program

Program in a glance:

Thursday, 08/25/11:

19:00 Welcome
19:15- 20:15 **Introductory plenary lecture** (Session A)
20:15 Dinner

Friday, 08/26/11:

08:30 - 09:30 **Plenary: Brain Plasticity** (Session B)
09:30 - 12:30 **Functional Plasticity** (Session C), including coffee break
12:30 - 13:30 Lunch
13:30 - 17:00 **Cell communication** (Session D), including coffee break
19:00 Dinner

Saturday, 08/27/11:

08:30 - 09:30 **Plenary: Translation of preclinical into clinical research** (Session E)
09:30 - 12:45 **Mitochondrial function** (Session F), including coffee break
12:45 - 13:30 Lunch
13:30 - 16:45 **Emerging Pathways** (Session G), including coffee break
16:45 – 17:00 Concluding remarks

Final Program

Program details

Thursday, 08/25/11

Session A. Introductory plenary lecture

19:15 The challenge to civilization: how to protect the mind (Bazan, New Orleans)

Friday, 08/26/11

Session B. Plenary Lecture

08:30 Brain Plasticity (Nicotera, Bonn)

Session C. Functional Plasticity

09:30 Multi-target drugs with neurorestorative –neurotrophin properties with cell cycle arrest (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 (15 min., 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 (15 min. Lukiw, New Orleans)

16:45 Concluding remarks

List of invited speakers (confirmed):

Name	Institution
Arendt, Thomas	University of Leipzig, Germany
Bazan, Niclas	Louisiana State University, New Orleans, USA
Behl, Christian	University of Mainz, Germany
Benedict, Christian	Uppsala, University, Sweden
Eckert, Anne	University of Basel, Switzerland
Eckert, Gunter P.	Goethe-University of Frankfurt, Germany
Hampel, Harald-Jürgen	Goethe-University of Frankfurt, Germany
Jendrach, Marina	Goethe-University of Frankfurt, Germany
Kempermann, Gerd	University of Dresden, Germany
Leuner, Kristina	University Erlangen-Nuremberg, Germany
Li, Ling	University of Minnesota, Minneapolis, USA
Lin, Teng-Nan	Academia Sinica, Taipei, Taiwan
Luo, Yuan	University of Maryland, Baltimore, USA
Lukiw, Walter	Louisiana State University, New Orleans, USA
Mandelkow, Eva	DZNE, German Center for Neurodegenerative Diseases, c/o CAESAR, 53175 Bonn, Germany
Müller, Walter E.	Goethe-University of Frankfurt, Germany
Nicotera, Pierlugigi	German center for neurodegenerative diseases (DZNE), Bonn, Germany
Orgogozo, Jean-Marc	Bordeaux University Hospital, France
Reddy, Hemachandra	Oregon Health and Science University, Beaverton, USA
Reichert, Andreas	Goethe-University of Frankfurt, Germany
Strosznajder, Joanna	Polish Academy of Sciences, Warsaw, Poland
Stubbs, Evan	Layola University Chicago, USA
Sun, Grace	University of Missouri, Columbia, USA
Weisman, Gary A.	University of Missouri, Columbia, USA
Wood, W. Gibson	University of Minnesota, Minneapolis, USA
Youdim, Moussa	Technion-Faculty of Medicine, Haifa, Israel