

Professor Eberhard Weihe, MD
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Since Otto Loewi discovered acetylcholine as the first neurotransmitter enormous progress in the research on basic mechanisms of neurotransmission and its clinical significance has been achieved. Distinguished neuroscientists address key issues of today's concepts of neurotransmission and present their visions for the future in the light of the rising challenge of neurological disease.

Scientific Organizers:

L. Eiden, W. Kummer and E. Weihe

Marburg is located 100 km north of Frankfurt (Main),
train connection from the airport: 1 hour, 15 min.

Do you have any questions?

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Online-Registration and further information:
www.br-stiftung.de/aktuelles.html



First Von Behring-Röntgen
Symposium



**Neurotransmission
then, now and tomorrow
- The lessons of Loewi -**



*Otto Loewi
(1873-1961)*

November 18th / 19th, 2009

Aula der Alten Universität Marburg
(Germany)
Lahntor 3

Sponsored by:

**Dr. Dres. h.c.
Reinfried Pohl**



November 18th, 2009

10:30 a.m. Opening

Welcome:

Prof. Dr. **Joachim-Felix Leonhard**
President of the Von Behring-Röntgen-Foundation

Prof. Dr. **Volker Nienhaus**
President of the Philipps-University Marburg

Prof. Dr. **Matthias Rothmund**
Dean of the Faculty of Medicine, Philipps-University Marburg

Prof. Dr. **Trinad Chakraborty**
Dean of the Faculty of Medicine, Justus-Liebig-University Giessen

Egon Vaupel
Mayor of the City of Marburg

Address to the Conference:
A representative of the State of Hesse

12:00 noon Refreshments and Reception of Participants

01:00-06:30 p.m. Scientific Lectures with coffee break

Introduction to the Scientific Lectures:
Eberhard Weihe and **Wolfgang Kummer**

Lectures about 45 min. including questions

Floyd Bloom (Scripps Research Institute, La Jolla)
The neurotransmitter concept and its evolution

Wolfgang Kummer (Justus-Liebig-University, Giessen)
How it began: Pre-neuronal acetylcholine

Eberhard Weihe (Philipps University, Marburg)
Traveling in Loewi's footsteps - from the heart to the brain

Geoffrey Burnstock (Autonomic Neuroscience Center, London)
How ATP became a neurotransmitter

Tomas Hökfelt (Karolinska Institutet, Stockholm)
Neuropeptides, companions of classical transmitters

Julian Thayer (Ohio State University, Columbus)
Transmission to the heart reveals the state of the mind

07:30-09:00 p.m. Public Celebration

Greetings by Prof. Dr. **Joachim-Felix Leonhard**
President of the Von Behring-Röntgen-Foundation

Presentation of Von Behring-Röntgen Young Investigators Research
Awards, preceded and followed by musical selections

Otto Loewi Honorary Lecture
by Prof. Dr. Konrad Löffelholz (Johannes-Gutenberg-University Mainz)

November 19th, 2009

09:00 a.m. - 01:00 p.m. Morning session with coffee break

Lectures about 45 min. including questions

Reinhard Jahn (Max-Planck-Institute Göttingen)
The composition and function of the secretory vesicle

Jürgen Wess (National Institute of Diabetes
and Digestive and Kidney Diseases, Bethesda)
Sensing the "vagusstoff": muscarinic receptors

Jeffrey Erickson (Louisiana State University, New Orleans)
Vesicular transporter regulation-- a means
to control quantal content at synapses

Mary Kennedy (California Institute of Technology, Pasadena)
The function of the postsynaptic density in synaptic plasticity
seen through a computational microscope

Lee Eiden (National Institute of Mental Health, Bethesda)
Cholinergic-peptidergic co-transmission
in the peripheral nervous system

Jeffrey Lichtman (Harvard University, Cambridge)
Imaging synaptic connectivity and dynamics

01:00-2:00 p.m. Light lunch

02:00-06:00 Afternoon session with coffee break

Lectures about 45 min. including questions

Wolfram Schultz (University of Cambridge, Cambridge)
Reward and movement - two distinct behavioural functions
for dopamine

Bai Lu (GlaxoSmithKline, R&D, Shanghai)
BDNF, synaptic plasticity and cognitive function
and dysfunction: role of p75NTR and cholinergic transmission

Hermona Soreq (Hebrew University, Jerusalem)
The cholinergic nervous system and stress

Peter Seeburg (Max-Planck-Institute Heidelberg)
Dissecting memory and its mechanisms at the glutamate receptor

Thomas C. Südhof (Stanford University, San Francisco)
Neurotransmission-what do we know, what do we want to know,
where do we go now?

07:30 p.m. Reception and Gala Dinner,
Fürstensaal of Marburg Castle

Dinner speech will be given by Prof. Dr. **Joachim-Felix Leonhard**,
President of the Von Behring-Röntgen-Foundation

Name: _____

Street: _____

Postal Code and City: _____

Phone: _____

E-Mail: _____

I will attend the symposium with _____ persons
(no fees, registration latest October 31th, 2009)

I will not attend the symposium

I will attend the castle dinner (50 €) with _____
persons
(Early registration recommended because of limited space)

I will not attend the castle dinner

Electronic registration is possible:
www.br-stiftung.de/aktuelles.html