

October 8-10, 2009

GPCR Dimer Symposium & Dynamic Microscopy 2009, Würzburg

Organizers: Martin Lohse and Gregory Harms

Location: Rudolf Virchow Center, Gebäude D15

Josef-Schneider-Str. 2, 97080 Würzburg



<u>Thursday, October 8, 2009</u> Dynamic Microscopy 2009 Organizer: Gregory Harms

9:00 – 16:00 Vendor exhibition (*Foyer*):

Leica, Nikon, Perkin Elmer, Visitron Systems, Zeiss

Parallel Vendor Lectures

	Lecture Hall:	Seminar Room, 1 st floor:
10:30	Zeiss	Perkin-Elmer
11:00 11:30	Nikon Leica	Visitron Systems
12:00 – 13:00	Lunch break (Fover)	

Workshop Dynamic Microscopy, Special Courses:

October 8, 13:00 - 15:30:

FRET Microscopy (Visitron Systems) - Foyer

TIRF Microscopy (Zeiss) - Foyer

TIRF and Confocal Microscopy (Nikon) - Foyer

Spinning Disc Confocal Microscopy (Perkin Elmer) - Foyer Deep Tissue Imaging (Bio-Imaging) - Microscopy Lab

October 9, 13:00 – 15:00:

FLIM and FCS (Leica) - *Microscopy Lab* STED Microscopy (Leica) - *Microscopy Lab*

17:00 Inauguration of the new building of the Rudolf-Vichow-Center (Lecture Hall)

Welcome:

Alfred Forchel, President of the University of Würzburg

Lectures:

Matthias Kleiner, President of the German Research Foundation, DFG Wolfgang Heubisch, Bavarian State Minister of Sciences, Research and the Arts

Fritz Melchers, Scientific Advisory Board of the Rudolf-Virchow-Center

Handover of keys:

Dieter Maußner, Director, Building authority of the University of Würzburg

reception



Friday, October 9, 2009 GPCR Dimer Symposium Organizer: Martin Lohse

Location: Seminar Room, 1st floor

Introduction

9.00 **Martin Lohse**, Rudolf-Virchow-Center, Würzburg

"Why receptor dimers?"

Techniques to study GPCR assemblies

9.30	Michel Bouvier , University of Montréal "Probing the multimeric assemblies of GPCR using multi-colour BRET and dual BRET/BiFC approaches"
10.15	Roger Sunahara, University of Michigan, Ann Arbor "Modulation of high affinity ligand binding by G proteins"
11.00	Coffee break (Foyer)
11.30	Moritz Bünemann , University of Würzburg/Marburg "Stability and extent of receptor oligomerization analyzed by FRAP microscopy"
12.15	Sergi Ferre , National Institute on Drug Abuse, NIH, Bethesda "Electrostatic interactions as key determinants of the quaternary structure of receptor heteromers"
13: 00 – 14:00	Lunch (Foyer)
ODOD Division	

GPCR Dimers - yes or no, how or when?

14.00	Philippe Deterre, INSERM, Université Pierre et Marie Curie, Paris "Pharmacological evidences for GPCR dimers: a skeptical view"
14.45	Klaus Peter Hofmann, Campus Charité Mitte, Berlin "Mechanism of signal transfer from receptor to G protein: the rhodopsin transducin model"
15:30	Jean Louis Banères, University of Montpellier "Receptor activation in a GPCR heterodimer"
16.15 – 16:30	Coffee break (Foyer)



Location: Lecture Hall

The advance in microscopy

	High Resolution Microscopy: STED, Leica Microsystems
17:30	Inauguration of STED Microscope
17:00	High Sensitivity - Single Molecule Microscopy, Leica Microsystems
16:30	High Resolution Microscopy: PALM, Zeiss Microimaging

Open House of Leica Microscope Systems – Bioimaging Center



Saturday, October 10, 2009 GPCR Dimer Symposium Organizer: Martin Lohse

Location: Seminar Room, 1st floor

Functional consequences of GPCR dimerization

9:00	Jean-Philippe Pin, INSERM CNRS, Montpellier "Class C GPCR dimers and oligomers: role in G-protein activation"
9.45	Graeme Milligan , University of Glasgow "The role of GPCR dimerisation in cell surface delivery and trafficking"
10:30	Coffee break
11:00	Rafael Franco, Universitat de Barcelona "Heteromer-based pharmacology in drug discovery"
11.45	Lakshmi A. Devi , Mount Sinai School of Medicine, NY "G Protein-coupled Receptor Dimerization: Implications in Novel Signaling and Drug Development"
12.30	Concluding discussion: What experiments to do next
13.00	Lunch