

# Molecular Neurobiology

January 20<sup>th</sup> - 21<sup>st</sup>, 2014

Location: Salles des thèses - Nouveau Patio  
20 Rue René Descartes, Strasbourg

Organizers: Vincent Lelievre and Michael Reber  
Free registration and more info on [www.neurex.org](http://www.neurex.org)



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## PROGRAM

Monday, January 20<sup>th</sup>

### FUNDAMENTALS IN NEUROSCIENCE DISEASE

- 09.00 - 09.30 Dr. Mark Verheijen  
Basic Lecture: Myelin membrane synthesis
- 09.45 - 10.45 **Dr. Mark Verheijen, (VU University, Amsterdam)**  
**Seminar: Oligodendroglial myelination requires astrocyte- derived lipids.**  
Keywords: Schwann Cells, Oligodendrocytes, Lipids, Myelin, Astrocytes, Diet
- 10.45 - 11.15 Coffee Break / Discussion
- 11.15 - 12.15 **Dr. Arvind Kumar (BCF, Univ. Freiburg)**  
**Brain disease: A dynamical systems perspective.**  
Keywords: dynamical systems, disease of brain dynamics, neuronal networks, oscillations, synchrony
- 12.15 - 12.45 Discussion
- 12.45 - 13.30 Lunch in room 01 Patio
- 13.30 - 14.15 Dr. Roman Chrast  
Basic Lecture: Peripheral Neuropathy
- 14.30 - 15.30 **Dr. Roman Chrast, (Univ. Lausanne)**  
**Seminar: Inherited neuropathies: from genetics to pathological mechanisms.**  
Keywords: Charcot-Marie-Tooth disease, gene identification, Schwann cell, Myelin, Nrg1/ErbB signaling
- 15.30 - 16.00 Coffee Break / Discussion
- 16.00 - 17.00 Keynote Speaker - **Pr. Greg Lemke, (San Diego, CA)**  
**Seminar: TAM receptor signaling in the immune and nervous systems.**  
Keywords: TAM receptor tyrosine kinases, macrophage, neurodegeneration, microglia, phagocytosis
- 17.00 - 17.30 Discussion

Tuesday, January 21<sup>st</sup>

### VISUAL SYSTEM DEVELOPMENT

- 09.00 - 09.45 Dr. Jin-Woo Kim  
Basic Lecture: Mammalian Retinal Development
- 10.00 - 11.00 **Dr. Jin-Woo Kim, Korean (KAIST, Seoul- FMI, Basel)**  
**Seminar: Remote control of mammal visual system by homeodomain proteins.**  
Keywords: homeodomain, intercellular protein transfer, Otx2, Vax1, retina
- 11.00 - 11.30 Discussion
- 12.00 - 13.00 Lunch in cafeteria INCI
- 13.15 - 14.00 Dr. Robert Hindges  
Basic Lecture: Visual Map Development
- 14.15 - 15.15 **Dr. Robert Hindges, (King's College, London)**  
**Seminar: Wiring the brain: Plasticity and functional specificity.**  
Keywords: visual system, topographic map, axon competition, synaptic specificity, functional imaging
- 15.15 - 15.45 Discussion



## SPEAKERS (present affiliation)

### Dr. Mark Verheijen

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and Cellular Neurobiology  
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### Pr. Greg Lemke

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### Dr. Jin-Woo Kim

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