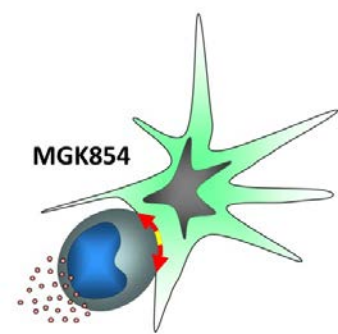


MGK854 Workshop “IMAGING & MICROSCOPY”



11th-13th November 2014

Starting time: 9 am
Anticipated end time: 6 pm

Day 1: High resolution fluorescence microscopy (LIN)
Day 2: Live cell imaging with wide field (IMKI)
Day 3: Laser scanning microscopy (IMKI)

11th November 2014, “High resolution fluorescence microscopy”
Leibniz Institute for Neurobiology

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|---------------|--|
| 9 am – 10.30 | Lecture (High resolution Light Microscopy) |
| 10.30 – 11 am | Coffee Break |
| 11 am – 2 pm | Group I (Hands on: STED), Oliver, WZ |
| 11 am – 2 pm | Group II (Hands on: FLIM), André, Roland, WZ |
| 12.30 – 1 pm | Lunch Break |
| 2 pm – 5 pm | Group I (Hands on: FLIM), André, Roland, WZ |
| 2 pm – 5 pm | Group II (Hands on: STED), Oliver, WZ |
| 3.30 – 4 pm | Coffee Break |
| 5 pm | Feedback |

12th November 2014, “Live cell imaging with wide field”
Institute of Molecular & Clinical Immunology

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|----------------|---|
| 9 am | Short introduction |
| 9.15 am | Start with preparation/induction of intraperitoneal macrophages |
| 10.30 am | Preparation CD4 pos. T-cells from murine spleen and lymph node, labelling and transfer of the cells in a recipient mouse (preparation for the next course day: intravital microscopy) |
| 12.30 pm | Transfer of fluorescent <i>E.coli</i> to the macrophage culture and start of the wide field imaging |
| till 1.30 pm | Lunch break |
| 1.30 pm | Theoretical principles of wide field and life cell imaging |
| 2.30 – 4.30 pm | Analysis of the movies and questions |

13th November 2014, "Laser scanning microscopy"

Institute of Molecular & Clinical Immunology

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|-------------|--|
| 9.00 am | Theoretical principles of intravital microscopy |
| 9.30 am | Intravital microscopy of Leishmania in a mouse ear |
| 11 am | Demonstration of intravital microscopy in the mouse brain |
| till 1 pm | Lunch break |
| 1 pm | Preparation and imaging in mouse lymph nodes (T-cells, prepared and transferred on the previous day) |
| 2 pm - 4 pm | Editing and analysis of intravital movies (in parallel) |