

### **IRTG 1436 Technical Workshop:** Neural circuit analysis to trace engrams

The workshop features a theoretical session with lectures, and practical sessions providing a direct view on the application of the methods presented during the lectures. Following the theoretical session, participants can select up to two practical sessions based on interest and availability, which will take place in the following weeks. Attendance involves participation in both theoretical and practical parts. **Registration is required.**

**Theoretical session:** **Thursday 29.02.2024** | 9 am - 1 pm, IBIO Haus 91/room 001

#### **Program:**

30 minutes lectures and 10 minutes discussion

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| <b>9:00-9:10</b>   | <b>Welcome:</b> Introduction and workshop goals   |
| <b>9:10-9:50</b>   | <b>Functional circuit analysis with engram technologies.</b><br>- Michael Kreutz  |
| <b>9:50-10:30</b>  | <b>From mGRASP to SynapShot: exploring basic principles of molecular tools and applicability for defined questions.</b><br>- Anna Karpova             |
| <b>10:30-10:50</b> | <b>Coffee break</b>   |
| <b>10:50-11:30</b> | <b>Imaging engrams using two-photon calcium imaging.</b><br>- Alexander Dityatev  |
| <b>11:30-12:10</b> | <b>Emergence and fate of memories: engram mapping based on Immediate-Early Gene (IEG) expression.</b><br>- Magdalena Sauvage                          |
| <b>12:10-12:50</b> | <b>Implementation of engram labelling in behavioral research using the robust activity marking (RAM) technology</b><br>- Oliver Stork and Sara Enrile |
| <b>12.50</b>       | <b>Lunch &amp; Practical sessions registration</b>  |

**Practical sessions:** Information will be provided during the theoretical part.

**For registration please contact [elisa.lancini@dzne.de](mailto:elisa.lancini@dzne.de)**