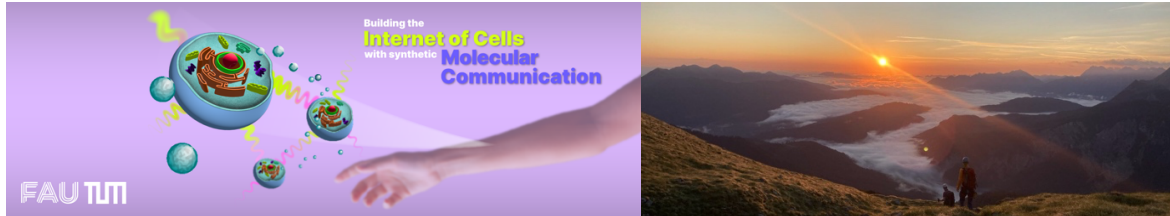


Important Information at a Glance



Organizational Information:

- When: 21.09.2025 – 03.10.2025 (13 days)
- Where: Sarntal Alps
- What: Scientific courses, hiking in the Alps, fun group activities
- For: Advanced Master and Bachelor students of natural and engineering sciences, computer science or medicine
- Organizers: FAU, TUM, University Stuttgart
- Multiple courses on various fields of research
- **Application deadline: May 1, 2025** via the Summer Academy website
- **Scan the QR-code on the flyer for more details**

Contents of IDC's Course:

- Course title: “**Building the Internet of Cells with Synthetic Molecular Communication**”
- Organizers: FAU and TUM (jointly)
- Topic description:
 - Introduction to the latest scientific discoveries and technological advances in synthetic molecular communication
 - **What is synthetic molecular communication?** Information is encoded in molecules and conveyed between (synthetic) biochemical devices to, among other things, enable:
 - Controlled **communication with natural cells for therapy**, e.g., cancer treatment
 - **Early detection of epidemics** through wastewater monitoring using appropriate environmental sensors
 - **Remote monitoring** of human or animal health status using a network of in-body nanodevices
- Course structure:
 - **First part:** each student will present a research topic related to molecular communication
 - **Second part:** students work in teams to simulate a molecular communication system or build/test an experimental prototype