Biomimetic and Technomimetic Molecular Science Laboratory (tentative)

**Faculties:**
Prof. Gwénaël Rapenne  
(to be appointed from April, 2018)
Dr. Kazuma Yasuhara

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**Research Topics:**

1. **Technomimetic molecular machines**  
   Motors, gears and vehicles to develop energy, communication and information transfer at the nanoscale under the action of light, heat or electrons.

2. **Biomimetic molecular machines**  
   Membrane-active agents, which can trigger membrane dynamics and modulate biological functions.

3. **Hybrid molecular machines**

**Expected students:** 4-7 students per year (Master’s and doctoral courses)

**Laboratory space:**  
Approx. 300 m² equipped for molecular synthesis and analysis (UV-Vis, Fluorescence, CD, DLS, DSC, HPLC (prep., anal.), Zeta potential, Fluorescence microscope etc.)