

Structure and Reactivity

Tuesday 12h15-14h15, CH B331
Prof. Nicolai Cramer
office: BCH 4305, nicolai.cramer@epfl.ch
<https://www.epfl.ch/labs/lcsa/>

Teaching assistant: Patrick Langrzyk, patrick.langrzyk@epfl.ch

Date	Topic
10.09.2024 12h15-14h00	1. Introduction: Goals of the lecture/ Position in the organic chemistry module 2. Short repetition: The chemistry of olefins and carbonyls
17.09.2024 12h15-14h00	3.1 Sigmatropic rearrangements
24.09.2024 12h15-14h00	3.1 Sigmatropic rearrangements 3.2 Rearrangements <i>via</i> reactive intermediates
01.10.2024 12h15-14h00	3.2 Rearrangements <i>via</i> reactive intermediates 4.1 Cyclization reactions using classical methods
08.10.2024 12h15-14h00	4.2 Electrocyclic and ene reactions 4.4. Cycloadditions 4.4.1 Diels-Alder cycloadditions
15.10.2024 12h15-14h00	Exercise Session 1
29.10.2024 12h15-14h00	4.4.2 [3+2] Cycloaddition reactions 4.4.3 Other cycloadditions
05.11.2024 12h15-14h00	5. The chemistry of radicals Exercise Session 2
12.11.2024 12h15-14h00	5. The chemistry of radicals 5. Photochemistry
19.11.2024 12h15-14h00	5. Photochemistry 6. Reactivity Umpolung
26.11.2024 12h15-14h00	7.1 Cross-couplings Exercise Session 3
03.12.2024 12h15-14h00	7.2 Metathesis 7.3 Olefin and C-H functionalizations
10.12.2024 12h15-14h00	7.5 Synthesis of carbocyclic and heterocyclic systems
17.12.2024 12h15-14h00	7.5 Synthesis of carbocyclic and heterocyclic systems Exercise Session 4