

Research Project

NCCR Molecular Systems Engineering - phase 2

Third-party funded project**Project title** NCCR Molecular Systems Engineering - phase 2**Principal Investigator(s)** Ward, Thomas R. ;**Co-Investigator(s)** Müller, Daniel J. ;**Project Members** Lim, Roderick ; Mayor, Marcel ; Housecroft, Catherine ; Wenger, Oliver ; Palivan, Cornelia ; Calame, Michel ; Ward, Thomas R. ; Reddy, Sai ; Matile, Stefan ; Stelling, Jörg ; Panke, Sven ; Vogel, Viola ; Benenson, Yaakov ; Fussenegger, Martin ; Meier, Wolfgang P. ; Roska, Botond ; Fotiadis, Dimitrios ; Biller-Andorno, Nikola ; Müller, Daniel J. ; Nash, Michael ; Sparr, Christof ; Tiefenbacher, Konrad ; Dittrich, Petra ; Platt, Randall ; Martin, Ivan ; Scholl, Hendrik ; Lörtscher, Emanuel ; Kammerer, Richard ; De Roo, Jonathan ; Correia, Bruno ;**Organisation / Research unit**

Département Chemie / Chemie

Département Chemie / Bioanorganische Chemie (Ward)

Département Chemie / Physikalische Chemie (Palivan)

Department**Project Website** <https://www.nccr-mse.ch/en/home/>**Project start** 01.07.2018**Probable end** 30.06.2022**Status** Completed

Molecular Systems Engineering is a National Centre of Competence in Research (NCCR) funded by the Swiss National Science Foundation (SNSF), and headed by the University of Basel and the ETH Zurich. This NCCR combines expertise from chemistry, biology, physics, bioinformatics, and engineering. The overarching aim is to develop tools and devices to monitor and manipulate off-equilibrium (bio)chemical systems. These may find applications in the synthesis of high added-value products, as innovative diagnostic tools and for the restoration of a desired cellular or organ function.

Keywords chemistry, biology, systems chemistry, systems biology, synthetic biology, molecular factories, cellular systems, molecular systems engineering**Financed by**

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