

Clus-MolChem-1

Project partners

Université de Haute-Alsace, Universität Basel, Albert-Ludwigs-Universität Freiburg, Karlsruher Institut für Technologie, Université de Strasbourg

Project duration / Awarded funding

01/03/2019 – 31/12/2022 / 53,538€

Short description of the project

In a global context of growing environmental awareness, the chemical industry plays a key role due to its direct impact on the sustainability of our planet. Molecular chemistry, particularly through catalysis, emerges as an essential solution for developing sustainable processes, reducing waste, and lowering greenhouse gas emissions. The Upper Rhine region, home to 450 researchers and 38 research teams across 5 universities, is a major player in molecular chemistry in Europe. However, a lack of coordination hinders synergies and limits SMEs' access to innovation. This project has been strongly impacted by the sanitary situation at that time, due to COVID-19 pandemic.

Project Objectives:

Clus-MolChem-1 aims to structure cross-border research in molecular chemistry in the Upper Rhine region, with an initial focus on catalysis. The objectives include:

- **Stimulating scientific collaboration:** Encouraging collaborative funding, student mobility, and the organization of high-level scientific events.
- **Strengthening industry ties:** Facilitating SMEs' access to innovation, promoting partnerships, and training highly skilled chemists to meet local and international economic needs.
- **Increasing international visibility:** Positioning the region as an attractive scientific hub in molecular chemistry.
- **Addressing societal and environmental challenges:** Contributing to sustainability through the development of energy-efficient and waste-reducing catalytic solutions.

Key Actions:

- Creation of a recognized cluster in the field of catalysis.
- Organization of symposiums and thematic schools to foster scientific exchanges.
- Promotion of inter-university research within the Eucor – European Campus framework.

Expected Impact:

This cluster strengthened cross-border research capacities, structure scientific activities in the Upper Rhine region, and enhance the attractiveness and sustainability of innovations in molecular chemistry. It also serves as a lever to address local challenges, such as the reconversion of industrial sites, while contributing to the global effort for sustainability.

Concrete implementation of the project (What was the funding used for?) (max. 500 characters (including spaces))

- Basel University 5000 euros for co-funding of research project in a joined format between the groups of Prof. Sparr (Basel) and Prof. Jessen (Freiburg) : "Response of Enantioenriched Inositol Phosphates to Atropisomeric Fluorophores" Clus-MolChem Student: Rahel Hinkelmann
- Clus-MolChem-1 Participation in the organization of the 2022 Regio-Symposium, as part of the Eucor Clus Molchem-1 project – 25 000 €
- Clus-MolChem-1 Participation to the « CURIOSITY– A FRENCH-GERMAN YOUNG CHEMISTS CONFERENCE » - 3000 €
- Strasbourg University 5000 euros for co-funding of research project in a joined format between the groups of Prof. Michon (Strasbourg) and KIT (Karlsruhe) research teams: "Organometallic catalysis to develop Nickel Based systems" Clus-MolChem Student: Jorge Blas Martinez (Erasmus Master student)

Project result(s) and continuation of collaboration (max. 500 characters (including spaces))

- One shot for the « CURIOSITY– A FRENCH-GERMAN YOUNG CHEMISTS CONFERENCE » : it promote the French-German collaborations for chemistry development.
- Both research collaborations are still going with strong interactions between groups.
- The funding of the Regio Symposium conference has enabled its continuity and contributed to its stabilization. We will organize the 43th edition this year and it stays a reference in the upper Rhine area for model collaboration between Eucor's Universities.

Further information (links, articles, photos)



Special Guest Lecturer

Prof. J.-M. Lehn (ISIS, University of Strasbourg)

Invited Lecturers

Plenary Lectures

Prof. K. H. Altmann (ETH Zürich)
Prof. R. Rodriguez (CNRS, Institut Curie, Paris)
Prof. O. Trapp (LMU Munich)

Keynote Lectures

Dr. A. Birkbeck (Firmenich)
Prof. S. Hoogendoorn (University of Geneva)
Prof. V. Torbeev (ESBS, University of Strasbourg)
Prof. C. Zeymer (TU Munich)

30.06.2022-01.07.2022 in Mulhouse

CURIOSITY

**A FRENCH-GERMAN
YOUNG CHEMISTS
CONFERENCE**

<https://ycur2022.sciencesconf.org/>

Abstract submission until March 15th

Registration until May 15th

Prof. Dr. Jean-François Carpentier

Dr. Joanna Wencel-Delord

Prof. Dr. Ingo Krossing

Dr. Alexander Hinz

YC|UR
FST
UNIVERSITÉ HAUTE-ALSACE
UNIVERSITÉ de Strasbourg
UNIVERSITÉ HAUTE-ALSACE