

Details

Molecule Archive (Molekülarchiv)

As a DFG core facility, the Molecule Archive offers services that support the archiving of chemical substances and the provision of materials for further scientific use. These services include the registration of substances in a central database, the testing of substances for purity and, if required, identity. The archived substances are prepared and sent out for scientific projects on request. The aim of the provision is to achieve scientific cooperation between the partners on the side of the substance suppliers and the substance users. The re-use cases include the two main areas of biological investigation and materials science application. The substances of the Molecule Archive will be prepared in 2020 with a special focus on a contribution to the fight against Covid-19. New partners have been recruited for in vivo and in vitro testing and in silico screening and will enable collaborations for synthetic researchers focusing on Covid-19.

Address: Hermann-von-Helmholtz Platz 1
76344 Eggenstein-Leopoldshafen
Baden-Württemberg
Deutschland
[To website](#)

Host Institution

Karlsruher Institut für Technologie
Kaiser Strasse 12
76131 Karlsruhe
Baden-Württemberg
Deutschland
<http://www.kit.edu>

Scientific Domain

Primary Subjects:

- Biology
- Chemistry

Secondary Subjects:

- Materials Science and Engineering

Category

Research Archives

Scientific Services

(1) Support in chemoinformatics for entering the substance structures in formats supported by databases; (2) Support in legal affairs, MTA preparation; (3) Purity analysis of the provided compounds and, if necessary, characterization to identify the substances; (4) Identification of possible partnerships to conduct suitable experiments or provide molecules; (5) Assistance in the evaluation or interpretation of the obtained results; (6) Preparation of the data for publication purposes; (7) resynthesis of selected compounds is desired

Scientific Equipment

- several achiral HPLCs
- several chiral HPLCs
- liquid chromatography mass spectrometry
- Several NMR spectrometer
- Raman Spektrometer
- different mass spectrometers
- UV-VIS spectrometer
- achiral GCMS

- chiral GCMS
- medium pressure liquid chromatography
- preparative HPLC
- Liquid handlers
- Evaporation Systems

Keywords

- compound purification
- quality analysis
- compound preparation
- aliquotation
- screening
- re-use

Networks

NFDI4Chem

<https://www.nfdi4chem.de/>

Cluster of Excellence 3DMM2O

<https://www.3dmattermadetoorder.kit.edu/>

Users per annum

Internal Users: ca. 40

External Users in total: 32 Institute

External Users: 19 Institute

External Users in the EU: 5 Institute

External Users outside of EU: 8 Institute