

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

CHEM21

RRID:SCR_003848

Type: Tool

Proper Citation

CHEM21 (RRID:SCR_003848)

Resource Information

URL: <http://www.chem21.eu/>

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Description: A European public-private consortium examining ways to make chemical research and the pharmaceutical industry more sustainable and environmentally friendly with the aim of developing sustainable biological and chemical alternatives to finite materials, such as precious metals, which are currently used as catalysts in the manufacture of medicines. The project has looked at the industry and identified needs and barriers, and is now working to develop methods to navigate around them to reduce costs for companies and thus reduce prices for patients. Chem21 also involves an educational training component that will help instill the project's results in the next wave of scientists. The project has four focus areas that are driving it toward the desired impact on the 21st century pharmaceuticals industry: * New, more efficient catalyst classes made available for greening processes and the generation of novel molecules * Alternative methodologies clearly described to allow broader use * New modified microorganisms for preparing pharma building blocks disclosed * Training materials developed for driving longer-term innovation

Abbreviations: CHEM21

Synonyms: Chemical Manufacturing Methods for the 21st Century Pharmaceutical Industries, CHEM21.eu, Chemical Manufacturing Methods for the 21st Century Pharmaceutical Industries (Chem21)

Resource Type: consortium, data or information resource, organization portal, portal

Keywords: drug, environment, drug development, chemical catalyst, biosynthetic pathway, chemistry, pharmaceutical industry, training resource, green chemistry, drug manufacturing

Funding: Innovative Medicines Initiative ; EFPIA

Resource Name: CHEM21

Resource ID: SCR_003848

Alternate IDs: nlx_158163

Record Creation Time: 20220129T080221+0000

Record Last Update: 20260905T132509+0000

Ratings and Alerts

No rating or validation information has been found for CHEM21.

No alerts have been found for CHEM21.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Sels H, et al. (2020) SUSSOL-Using Artificial Intelligence for Greener Solvent Selection and Substitution. Molecules (Basel, Switzerland), 25(13).

Cioc RC, et al. (2017) Stereoselective Synthesis of Functionalized Bicyclic Scaffolds by Passerini 3-Center-2-Component Reactions of Cyclic Ketoacids. European journal of organic chemistry, 2017(9), 1262.

Turner NJ, et al. (2016) Sustainable catalysis. Beilstein journal of organic chemistry, 12, 1778.

Welton T, et al. (2015) Solvents and sustainable chemistry. Proceedings. Mathematical, physical, and engineering sciences, 471(2183), 20150502.