

HORIZON
2020

PrediKSion: An evolutionary guided and experimentally validated computational pipeline to unravel new polyketide synthase functionality

Fact Sheet

Project Information

PrediKSion

Grant agreement ID: 101022873

[Project website](#) 

DOI

[10.3030/101022873](https://doi.org/10.3030/101022873) 

Project terminated on 31 October 2023

EC signature date

22 April 2021

Start date

1 January 2022

End date

31 December 2023

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 191 149,44

EU contribution

€ 191 149,44

Coordinated by

EIDGENOESSISCHE
TECHNISCHE HOCHSCHULE
ZUERICH



Switzerland

Project description

A sustainable way of producing novel antibiotics

Polyketides are a large class of secondary metabolites from bacteria, fungi and plants with interesting and valuable activities. They are exploited as antibiotics, antifungals and drugs and can be chemically synthesised or produced from biological

sources. The EU-funded PrediKSion project proposes to exploit acyltransferase polyketide synthase (AT PKS) enzymes from bacteria as a sustainable way to produce polyketides. To unveil new biosynthetic features in AT PKS, researchers will develop a computational pipeline that will assess the functionality of uncharacterised enzymes. Long term this will lead to the discovery of novel pharmaceutical entities

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [biological morphology](#) > **[comparative morphology](#)**

[natural sciences](#) > [biological sciences](#) > [microbiology](#) > **[bacteriology](#)**

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > [proteins](#) > **[enzymes](#)**



Keywords

[Polyketide synthases](#)

[genome mining](#)

[evolution](#)

Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility](#)

Topic(s)

[MSCA-IF-2020 - Individual Fellowships](#)

Call for proposal

[H2020-MSCA-IF-2020](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-IF - Marie Skłodowska-Curie Individual Fellowships \(IF\)](#)

Coordinator



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Net EU contribution

€ 191 149,44

Total cost

€ 191 149,44

Address

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 **Switzerland** 

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 21 May 2024

Permalink: <https://cordis.europa.eu/project/id/101022873>

European Union, 2025