



Quantitative Investigation of Interspecies Differences in Developmental Tempo

Fact Sheet

Project Information

ALLOCHRONY

Grant agreement ID: 101002564

DOI

[10.3030/101002564](https://doi.org/10.3030/101002564)

EC signature date

19 April 2021

Start date

1 May 2021

End date

30 April 2027

Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

€ 1 987 447,00

EU contribution

€ 1 987 447,00

Coordinated by

TECHNISCHE UNIVERSITÄT
DRESDEN



Germany

Project description

It's all about timing: the paradigm of embryonic development

Embryonic development begins after fertilisation and undergoes the same stages in many species, at however different paces depending on the organism. The underlying aetiology of the differences in developmental time between species remains unclear. The working hypothesis of the EU-funded ALLOCHRONY project is that this developmental allochryony is due to different rates in key biochemical reactions. Researchers will develop organoids from pluripotent stem cells that mimic early embryogenesis to study key reactions in mouse and human cells. Results will advance existing knowledge on embryonic development and identify the rate-limiting steps in the process.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [developmental biology](#)

[medical and health sciences](#) > [medical biotechnology](#) > [cells technologies](#)



Keywords

[Interspecies difference](#)

[Developmental tempo](#)

Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

Topic(s)

[ERC-2020-COG - ERC CONSOLIDATOR GRANTS](#)

Call for proposal

[ERC-2020-COG](#)

[See other projects for this call](#)

Funding Scheme

[ERC-COG - Consolidator Grant](#)

Host institution



TECHNISCHE UNIVERSITAET DRESDEN

Net EU contribution

€ 1 043 400,00

Total cost

€ 1 043 400,00

Address

HELMHOLTZSTRASSE 10

01069 Dresden

 Germany 

Region

Sachsen > Dresden > Dresden, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Beneficiaries (2)



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Total cost

€ 1 043 400,00



EUROPEAN MOLECULAR BIOLOGY LABORATORY

 Germany

Net EU contribution

€ 944 047,00

Address

Meyerhofstrasse 1
69117 Heidelberg 

Region

Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 944 047,00

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Permalink: <https://cordis.europa.eu/project/id/101002564>

European Union, 2025