



Meiotic crossing-over: from spatial distribution to in situ chromosomal architecture

Fact Sheet

Project Information

CrossOver

Grant agreement ID: 101002629

DOI

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EC signature date

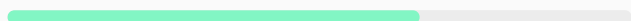
24 March 2021

Start date

1 January 2022

End date

31 December 2026



Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

€ 1 999 180,00

EU contribution

€ 1 999 180,00

Coordinated by

UNIVERSITÄT WIEN



Austria

Project description

The role of chromosome architecture in recombination

Sexually reproducing organisms have evolved a specialised cell division mechanism termed meiosis, which ensures the production of gametes with half the genetic material and ploidy maintenance over generations. During meiosis, homologous chromosomes are physically linked to ensure correct segregation into gametes. By doing so, they cross over at different positions and exchange genetic material, which leads to genetic variation in the offspring. Given that crossover patterning differs each time, the EU-funded CrossOver project aims to investigate the determinants of this process with particular emphasis on the role of chromosome features.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [genetics](#) > [DNA](#)



Keywords

[Meiosis](#)

[homologous recombination](#)

[nucleases](#)

[DNA repair](#)

[chromosomes](#)

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



UNIVERSITAT WIEN

Net EU contribution

€ 1 999 180,00

Total cost

€ 1 999 180,00

Address

UNIVERSITÄTSRING 1

1010 Wien

 **Austria** 

Region

Ostösterreich > Wien > Wien

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Beneficiaries (1)



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Last update: 22 January 2025

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European Union, 2025

