



Predicting Routes Of Tumour Evolution driven by Unstable genomes and Selection

Fact Sheet

Project Information

PROTEUS

Grant agreement ID: 835297

[Project website](#)

DOI

[10.3030/835297](https://doi.org/10.3030/835297)

Project closed

EC signature date

14 May 2019

Start date

1 June 2019

End date

30 November 2024

Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

€ 2 500 000,00

EU contribution

€ 2 500 000,00

Coordinated by

THE FRANCIS CRICK INSTITUTE
LIMITED

United Kingdom

Project description

Genomic instability and models of tumour evolution

Despite progress in cancer drug development, the majority of patients with advanced disease have poor prognoses due to cancer drug resistance. Longitudinal clinical studies have revealed that tumour DNA copy-number heterogeneity correlates with drug resistance, disease recurrence and death in non-small cell lung cancer (NSCLC). Current animal models of NSCLC do not reflect the multiple distinct patterns of genome instability and intra-tumour heterogeneity observed in patients.

The EU-funded PROTEUS project aims to develop mouse lung cancer models that better recapitulate the tumour immune evasion and genome instability processes observed in patients with NSCLC. This will help elucidate the evolutionary patterns of genomic instability, understand mechanisms of immune evasion and test novel therapies aimed at improving patient stratification, treatment and survival.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [clinical medicine](#) > [oncology](#) > [lung cancer](#)



Keywords

[Tumour evolution](#)

[genomic instability](#)

[chromosomal instability](#)

[genome doubling](#)

[mutation](#)

[immune escape](#)

[NSCLC](#)

[lung cancer](#)

Programme(s)

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

MAIN PROGRAMME

Topic(s)

[ERC-2018-ADG - ERC Advanced Grant](#)

Call for proposal

[ERC-2018-ADG](#)

[See other projects for this call](#)

Funding Scheme

[ERC-ADG - Advanced Grant](#)

Host institution



THE FRANCIS CRICK INSTITUTE LIMITED

Net EU contribution

€ 2 500 000,00

Total cost

€ 2 500 000,00

Address

1 MIDLAND ROAD

NW1 1AT London

United Kingdom

Region

London > Inner London — West > Camden and City of London

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Beneficiaries (1)



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Last update: 17 February 2025

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European Union, 2025