



# TS4NC: Therapeutic S4N Chelation targeting Alzheimer's Disease.

## Fact Sheet

### Project Information

#### TS4NC

Grant agreement ID: 890595

[Project website](#)

#### DOI

[10.3030/890595](https://doi.org/10.3030/890595)

Project closed

#### EC signature date

3 March 2020

#### Start date

1 March 2021

#### End date

28 February 2023

#### Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

#### Total cost

€ 212 933,76

#### EU contribution

€ 212 933,76

#### Coordinated by

IMPERIAL COLLEGE OF  
SCIENCE TECHNOLOGY AND  
MEDICINE

United Kingdom

## Project description

### Targeting brain metal homeostasis in Alzheimer's disease

Accumulating evidence indicates that loss of neurons in Alzheimer's disease (AD) is a result of oxidative stress driven by active metal ions such as copper on different amyloid beta peptide aggregates. With many trials on AD drugs failing, scientists of the EU-funded TS4NC project are turning to the regulation of metal homeostasis as a treatment option. The new multifunctional S4N agents constitute promising candidates as not only do they chelate copper away from amyloid plaques and provide neuroprotection, but they also redistribute copper ions into the physiological

circulation. The TS4NC proposed approach is expected to help restore brain metal homeostasis and open new drug development paths for AD.

## Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [pharmacology and pharmacy](#) > [drug discovery](#)

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > [dementia](#) > [alzheimer](#)

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

[medical and health sciences](#) > [basic medicine](#) > [physiology](#) > [homeostasis](#)



## Keywords

[amyloid-Beta](#)

[Alzheimer's Disease](#)

[Copper homeostasis](#)

[chelation](#)

[therapeutics](#)

[ROS production](#)

[aggregation](#)

## 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-2019 - Individual Fellowships](#)

## Call for proposal

[H2020-MSCA-IF-2019](#)

[See other projects for this call](#)

## Funding Scheme

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

# Coordinator



## IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

Net EU contribution

€ 212 933,76

Total cost

€ 212 933,76

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SW7 2AZ LONDON**

 **United Kingdom** 

Region

**London > Inner London — West > Westminster**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

[HORIZON collaboration network](#) 

**Last update:** 18 December 2023

**Permalink:** <https://cordis.europa.eu/project/id/890595>

European Union, 2025