



Call for 1 PhD fellowship (DC10)

A training network on the design of precision therapeutics that target key glycan motifs implicated in cancer

GlyCanDrug is a glycoscience-oriented European Training Network funded in the framework of HORIZON Europe Marie Skłodowska-Curie Doctoral Networks (MSCA-DN). Within GlyCanDrug, Doctoral Candidates (DCs) will be equipped with a thorough multifaceted knowledge of the potential of glycoscience in the discovery of cancer precision therapeutics and the necessary transferable skills. GlyCanDrug will provide an international, intersectoral and interdisciplinary educational program, according with the EU Principles for Innovative Doctoral Training. This will put DCs in an advantageous position for job opportunities in both academia and industry.

DC10 PROJECT TITLE. Dissecting glycan-protein interactions with cell-based assays

Host Institution: GlycoDisplay ApS <http://glycodisplay.com/>

Duration: 36 months, starting between January-November 2024.

Supervisor: Henrik Clausen

Co-supervisor: Narimatsu Y. (University of Copenhagen, DK). *Progress Committee Members:* Barbara Richichi (UNIFI, IT), Yoshiki Narimatsu, Marko Anderluh (University of Ljubljana, SL).

DC10 PROJECT. GD is a spin-out of Copenhagen Center for Glycomics, University of Copenhagen, which is world leading within the field of glycoengineering and glycomics. This PhD project will focus on the design and engineer optimal cell models for screening and validation of inhibitors for the sialyltransferases (ST)s and fucosyltransferases (FT)s isoenzymes. The DC will be trained in glycoengineering technologies using CRISPR/Cas9, cell-based glycan array screening method, as well as synthesis of glycomimetics and high-throughput screening of libraries of compounds through secondments.

PLANNED SECONDMENTS. 1. UNIFI (Academia, IT), learning the synthesis of glycomimetics: 2. University of Ljubljana (Academia, SL), virtual screening to discover inhibitors for selected glycotransferases.

PhD School enrolment: Graduate Program for Cellular & Genetic Medicine (CeGem), University of Copenhagen (<https://icmm.ku.dk/undervisning/cegem/>)

APPLICATION PROCEDURE. The position is open to candidates of any nationality, as long as they fulfil the requirements set for the DCs funded by MSCA (**Annex A**). The applicant must send the documents in the **Annex A** to the email specified (glycandrug@chim.unifi.it) within **1st January 2024**, clearly indicating in the subject "*Application for DC10 position*".

The salary of the DCs will be paid according to the MSCA rules. See: <https://marie-sklodowska-curie-actions.ec.europa.eu/calls/msca-doctoral-networks-2022>

CANDIDATE PROFILE.

- Qualifications corresponding to a master's degree related to the subject area of the project, e.g. Molecular Biology, or related areas
- The grade point average achieved
- Professional qualifications relevant to the PhD project
- Good level of English proficiency (understood, spoken and written).
- Team spirit and proactive attitude.

Information also available at: <https://euraxess.ec.europa.eu/>