

**3 years PhD Position**  
**Opening October 1<sup>st</sup> 2023, Grenoble, France**

**TROJAN PROJECT: STEALTH CARBOHYDRATES AS ANTIBACTERIAL AGENTS**

A PhD position devoted to stealth carbohydrates is available in October 2023 as a part of the EUR-CBS collaborative project “**TROJAN**” coordinated by Dr. Sami Halila and Dr. Y. Caspar in Grenoble (France). This research project combines expertise and skills of Research Centre on Glycosciences (CERMAV Lab - UPR5301- CNRS/Univ. Grenoble Alpes) in Glycochemistry with Dr. S. Halila and in Glycobiology with Dr. A. Imberty and Institute of Structural Biology IBS Lab - UMR5075- CEA/CNRS/Univ. Grenoble Alpes) in bacterial pathogenesis and development of new antimicrobial agents with a team composed of Y. Caspar, E. Faudry and S. Elsen.

*This PhD position is supported by the French National Research Agency in the framework of the “Investissements d’avenir” program (ANR-17-EURE-0003) and can start in October 2023.*

**Mission**

The transdisciplinary (Chemistry/Physics/Biology) “**TROJAN**” project spans from original access towards stealth carbohydrates enable to display an anti-bacterial activity, through recognition and self-assembly, specifically, in infections sites. The PhD candidate will be in charge of synthesizing and characterizing (structure, interactions and self-assembly) carbohydrate derivatives @Cermav and of studying antibacterial properties thereof @IBS. The PhD will benefit from *state-of-the-art* processing and characterization platforms available within CERMAV & IBS labs to develop her/his research on carbohydrate chemistry and anti-bacterial applications by interacting with our partners.

**Candidate’s profile**

The PhD candidate should preferably hold a Master degree in organic chemistry with a first practical experience in carbohydrate chemistry. Knowledge on biology are expected. She/He must be an enthusiastic and dynamic researcher with scientific creativity. Excellent communication and writing (English) skills are equally important criteria with respect to academic qualifications and scientific merit for the selection of the PhD.

**e-Application: Application file, selection process, and timeline**

Applicant should provide an e-application file combining a curriculum vitae (including publications), a letter of motivation, grades and academic transcript obtained in master’s degree and a summary of their research experience. A single pdf should be addressed to Dr. S. Halila: [sami.halila@cermav.cnrs.fr](mailto:sami.halila@cermav.cnrs.fr) & Dr. Y. Caspar: [YCaspar@chu-grenoble.fr](mailto:YCaspar@chu-grenoble.fr). The applicants should arrange that at least one reference letter is sent directly to the contact address above. The deadline for the application is end of June 2023. We encourage candidates to apply as soon as possible.