SECTOR: Higher Education Institution

LOCATION: Grenoble, France

RESEARCH FIELD: Bio-inspired chemistry

RESEARCHER PROFILE:

- First stage researcher,

INSTITUTION: Univ. Grenoble Alpes, University of Innovation

One of the major research-intensive French universities, Univ. Grenoble Alpes**1 enjoys an international reputation in many scientific fields, as confirmed by international rankings. It benefits from the implementation of major European instruments (ESRF, ILL, EMBL, IRAM, EMFL*). The vibrant ecosystem, grounded on a close interaction between research, education and companies, has earned Grenoble to be ranked as the 5th most innovative city in the world. Surrounded by mountains, the campus benefits from a natural environment and a high quality of life and work environment. With 7000 foreign students and the annual visit of more than 8000 researchers from all over the world, Univ. Grenoble Alps is an internationally engaged university.

A personalized Welcome Center for international students, PhDs and researchers facilitates your arrival and installation.

In 2016, Univ. Grenoble Alpes was labeled «Initiative of Excellence ». This label aims at the emergence of around ten French world class research universities. By joining Univ. Grenoble Alpes, you have the opportunity to conduct world-class research, and to contribute to the social and economic challenges of the 21st century ("sustainable planet and society", "health, well-being and technology", "understanding and supporting innovation: culture, technology, organizations" "Digital technology").

* ESRF (European Synchrotron Radiation Facility), ILL (Institut Laue-Langevin), IRAM (International Institute for Radio Astronomy), EMBL (European Molecular Biology Laboratory), EMFL (European Magnetic Field Laboratory)

Key figures:

- + 50,000 students including 7,000 international students
- 3,700 PhD students, 45% international
- 5,500 faculty members
- 180 different nationalities
- 1st city in France where it feels good to study and 5th city where it feels good to work
- ISSO: International Students & Scholars Office affiliated to EURAXESS

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1 Univ. Grenoble Alpes
MANDATORY REFERENCES:

CDP TITLE: Cosmetics

SUBJECT TITLE: Design, synthesis and mechanisms of melanogenesis inhibitors

SCIENTIFIC DEPARTMENT (LABORATORY’S NAME): Département de Chimie Moléculaire (DCM -UMR CNRS 5250) Equipe CRe, 301 rue de la Chimie, Bat C, Grenoble, France.

DOCTORAL SCHOOL’S: School of Chemistry and Life Sciences of Grenoble (EDSCV)

SUPERVISOR’S NAME: BELLE Catherine (DR CNRS) / JAMET Hélène (MCU) / Du MOULINET D’HARDEMARE Amaury (MCU)

SUBJECT DESCRIPTION:

Domains: Bio-inspired chemistry/ Molecular Modelling/ Organic Synthesis

Context: Tyrosinase is the key enzyme involved in the biosynthesis of melanin, pigment found in the skin and eyes that are the cause of various diseases. For discovering efficient tyrosinase inhibitors, our strategy is to target the tyrosinase dicopper active site which plays a central role in tyrosinase activity.

Methodology: (i) The design of these new inhibitors will be inspired by integrating knowledge of tyrosinase enzyme or biomimetic model structures and using fundamental recognition properties of inorganic chemistry. Substrate mimics or known inhibitors associated to groups able to bind selectively the dicopper active site should afford safe and potent compounds according to a strategy validated by our recent results. (ii) The issue regarding how selected inhibitors (or potential inhibitors) bind/interact with the active site of the enzyme using computational approaches is a part of the project to understand inhibition mechanisms and rationalize the design of improved inhibitors. (iii) Furthermore the candidate will interact with external partners to evaluate the activity of synthesized molecules.

Candidate profile: The candidate should be highly motivated, to work in a multidisciplinary project and to interact with external partners. The project requires a solid experience in organic syntheses, as well as an interest for bioinorganic chemistry. A background in molecular modeling is an undeniable advantage.

Selected references from the group in the field


ELIGIBILITY CRITERIA

Applicants:
- must hold a Master's degree (or be about to earn one) or have a university degree equivalent to a European Master's (5-year duration),

Applicants will have to send an application letter and attach:
- Their last diploma
- Their CV (max. one page)
- Master’s grades
- Motivation letter
Details for potential referees

Address to send their application:
catherine.belle@univ-grenoble-alpes.fr
helene.jamet@univ-grenoble-alpes.fr
amaury.d-hardemare@univ-grenoble-alpes.fr

SELECTION PROCESS
Application deadline: April 27th 2018 at 17:00 (CET)
Applications will be evaluated through a three-step process:

1. Eligibility check of applications and 1st round of selection: the applications will be evaluated by a Review Board in May. Results will be given in 15th May 2017.
2. 2nd round of selection: shortlisted candidates will be invited for an interview session in Grenoble on 11th June

TYPE of CONTRACT: temporary-3 years of doctoral contract
JOB STATUS: Full time
HOURS PER WEEK: 35
OFFER STARTING DATE: October 01st 2018
APPLICATION DEADLINE: April 27th 2018
Salary: 1768.55 € brut per month

Financements de la thèse : IDEX University Grenoble Alpes