

**EU-funded Marie Skłodowska-Curie Actions (MSCA) Doctoral Network**

**Network Metal-Containing Radical Enzymes – MetRaZymes**



**DC position within MetRaZymes at “Università degli Studi di Milano”**

**OPEN CALL: deadline March 17<sup>th</sup>, 2023**



The Department of Pharmacological and Biomolecular Sciences supports and coordinate basic research applied to biomedical and life sciences, linking together preclinical and clinical studies in order to discover new pharmacological targets and innovative therapy for human health. To complement the team of the Laboratory of Computational Biochemistry and Biophysics (LCBB) we are looking for a:

**PhD student in Pharmacological Biomolecular Sciences, Experimental and Clinical – 100 %**

within the framework of a fixed-term employment contract initially limited to 36 months.

The PhD student (f/m/d) will work under the supervision of Prof. Ivano Eberini and Prof. Francesco Enzo Molinari on the development of *in silico* pipelines for:

- i) characterizing and optimizing new genes/proteins belonging to Fe-dependent dioxygenases (DOXs) for a better understanding of the applicative potential of this class of “coenzyme-free” biocatalysts;
- ii) combining a structure-based with a ligand-based approaches in the exploitation of CYP450 catalytic activities.

To achieve these ambitious goals, the selected candidate will collaborate with leading groups throughout Europe both from academia and industry. The project is part of the EU-funded Marie-Skłodowska-Curie Doctoral Network Metal-Containing Radical Enzymes (MetRaZymes) and involves a multitude of training opportunities.

Applicants must hold a 2nd level master's degree (120 ECTS + 180 ECTS in a bachelor's degree) or a single cycle degree (minimum 300 ECTS), or a comparable university degree (second cycle qualification). Applicants are expected to achieve their degree within February 28<sup>th</sup>, 2023. They shall submit a certified copy of any degree achieved by the deadline of February 28<sup>th</sup>, 2023. Requirements set by the Consortium concern master's degree (or equivalent) graduates in the fields of Biotechnology or Pharmacological Sciences or similar subjects.

Excellent skills in structural bioinformatics and computational biochemistry are expected. Enthusiasm for top-quality research and good oral and written English communication skills are a must. The position is available from April 1<sup>st</sup>, 2023 or at a mutually agreed date.

The successful applicants will be enrolled as PhD student at University of Milan. The position thereby also serves the scientific qualification of the applicant.

Applicants may be of any nationality but must fulfill the Marie Skłodowska-Curie Actions mobility rule: at the time of recruitment at University of Milan, candidates must not have resided or carried out their main activity (studies or work) in Italy for more than 12 months in the 3 years immediately prior to their recruitment.

We offer a uniquely stimulating interdisciplinary research environment at the interface of biotechnology and bioinformatics, a highly motivated and qualified team, individual development and training opportunities, a family-friendly working environment, a wide range of health and sports facilities in accordance with the relevant regulations. Remuneration is according to the EU Horizon Europe salary scales and will cover their participation costs, living, travel and installation allowance, family allowance (if applicable). The University of Milan aims to increase the proportion of women on its staff and therefore particularly encourages women to apply.

By submitting your application, you consent to your data being stored and processed for the purpose of the recruitment process. You can find our privacy policy on our homepage.

Applications should state the Job Code and be sent with the usual documents (letter of motivation for the specific research project, a CV and publication list, contact details of two professional references, as well as copies of degree certificates) **by email to [ivano.eberini@unimi.it](mailto:ivano.eberini@unimi.it)**.



For further inquiries, please, contact Prof. Ivano Eberini, email: [ivano.eberini@unimi.it](mailto:ivano.eberini@unimi.it).

**Application deadline: March 17<sup>th</sup> 2023**