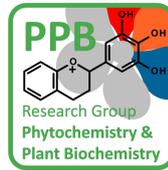




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Innovation and Networks Executive Agency

PhD Position in Protein Chemistry / Biochemistry for MSCA-ITN “HiStabJuice”

Job Description

The Marie Skłodowska Curie Innovative Training Network “HiStabJuice” is inviting applications for a 36 month full time fixed term position as an Early Stage Researcher. This research project is a collaboration between 17 organisations, including 7 academic and 10 non-academic, from 7 countries (AT, DE, FR, IT, NL, PT, SL) across Europe. The research aims to analyse and compare in a normalised fashion the impacts of various available processing technologies on the stability of colour and nutrients in various fruit juices.

The successful applicant will be employed by Technische Universität Wien in Austria, with planned intersectoral stays totalling a maximum of six months presumably in France and in Italy.

The research and PhD thesis will be on “*Identification and characterization of enzymes specifically responsible for low colour stability of fruit juices and nectars*”.

The ESR will:

- identify enzymes and purify (assisted by transcriptomic raw data) relevant for low colour stability of selected fruits (e.g. PPO, POD, AOX, beta-Glucosidase)
- perform recombinant expression and purification of selected enzymes
- develop specific enzyme assays for the key enzymes
- perform enzyme characterization (enzyme kinetics, inhibition and inactivation assays)
- correlate enzyme kinetics and inhibition to the protein structure (e.g. molecular docking)
- compare the enzyme spectrum with colour stable fruits

Beyond the specific expertise gained during the ESR’s completion of their research work, this position offers an opportunity to gain international research experience, as well as an array of soft skills relevant to project management, research management and career development.

Applicant Description

Candidates must:

- hold a University Master’s Degree in any discipline that makes them eligible for a PhD in chemistry
- not have resided or carried out their main activity (work, study, etc) in Austria for more than 12 months in the three years immediately prior to 01.02.2021, unless as part of a procedure for obtaining refugee status under the Geneva Convention, but may be of any nationality
- be available to start on 01.02.2021
- have excellent English language skills
- be able to travel internationally on a regular basis, for example to attend regular project meetings or to take part in conferences
- be able to work in an international environment, be highly motivated and reliable, be able to work to strict deadlines

Preference will be given to candidates with experience in protein purification and / or enzymology.

Research Fields

Chemistry, biochemistry, enzymology, molecular biology, analytical biochemistry, structural biology.

Career Stage

According to EU HORIZON 2020 guidelines, Early Stage Researchers must have fewer than four years research experience at the date of employment (1st February 2021), and must not have been awarded a doctoral degree.

Benefits

Annual Salary: within the range of EU Marie Curie European Training Network programs
Monthly Mobility Supplement and Monthly Family Allowance (if eligible): according to the rules of EU Marie Curie European Training Network programs

How to Apply

Please send a letter of motivation and your full CV to Dr. Christian Molitor (coordination.histabjuice@tuwien.ac.at) before 30th November 2020. Please include “ESR1 Application” in the reference line. CVs should follow the Europass template available for free download at: https://www.eea.europa.eu/about-us/jobs/application-documents/europass_cv_template.doc.