**IMAS MASTER Academic Year 2022 - 2023**

**Proposal of M2 Internship**

**PROJECT TITLE AND SUMMARY:** **Characterization of antioxidant and anti-inflammatory properties of flours from four crops from Reunion Island**

This internship is part of a FEDER research project of the University of Reunion Island entitled “RAFALE”. The aim of this project is to valorize underutilized starch-based agro-resources known as “lontans” from Reunion Island ‘s agriculture for use as ingredients in the bakery and pastry sector making sector. This internship will be dedicated to the evaluation of antioxidant and anti-inflammatory properties of flours.

**HOST UNIT:** UMR QualiSud, is a joint research unit under the supervision of six research and higher education organizations. In an integrated approach, QualiSud’s activities aimed at analysing, understanding and optimising processes for the production and preservation foods of optimal organoleptic, sanitary and nutritional quality. These research activities are carried out by complementary teams, multidisciplinary, multi-scale and multi-site teams. More information is available at: <https://umr-qualisud.cirad.fr/l-umr-qualisud>

**MAIN ACTIVITIES:**

In close collaboration with the actors, you will be involved in the characterization of antioxidant and anti-inflammatory properties of flours from four crops from Reunion Island (cassava, sweet potato, edible canna, breadfruit) in the framework of the of the RAFALE project. Your role will be to plan, set up and execute the different experimental trials: biochemical for quantification and cellular biology for determination of properties on laboratory's. scale You will have to contribute to data analysis, presentation and reporting tasks.

**EXPECTED SKILLS:**

5 years of higher education (engineer or master's degree), with experience in biology, microbiology or biochemistry, as well as an ability to use organizational and project management tools.

Your rigor, autonomy, initiative, organisational skills, technical, and interpersonal skills and your critical mind are all assets to succeed fully in this internship.

**INDEMNISATION:**

- about 600 € / month

**CONTACT:**

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Organization: QualiSud, University of Montpellier

Location: Montpellier

Duration: 6 months

Dates : February 2023 to July 2023

Level : Master 2

Internship profile : Research