Master Thesis
Department of Food Chemistry and Toxicology

Exploring the potential of bioactive oxylipins from microalgae

Oxylipins are a diverse family of lipid metabolites produced by the oxidation of polyunsaturated fatty acids (PUFAs), which are involved in multiple metabolic responses. Oxylipins are naturally occurring in animals, plants, bacteria, and fungi. However, the identification of microalgae-derived oxylipins and their biological activities remain unexplored.

We are looking for a motivated student aiming to perform a MSc thesis working on the extraction, advanced characterization, and bioactivity evaluation of microalgae-derived oxylipins. The MSc thesis will be conducted in the group of Prof. Dr. Doris Marko and in close collaboration with the group of Assoz.-Prof. Dr. Marc Pignitter (Department of Physiological Chemistry, University of Vienna).

Requirements:
✓ Bachelor in Chemistry or comparable
✓ Good oral and written communication skills in English
✓ Interest in analytical and food chemistry

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