



Tietel lab

We are a food chemistry lab, targeted at functional food, food health contribution and health-related secondary metabolites. We are looking to join a consortium setting up a proposal for BBI call topic F2: F2 — Produce food ingredients with high nutritional value from aquatic sources.

About us:

Tietel lab is part of Agricultural Research Organization (ARO), the largest agricultural research institute in Israel. Algae are a myriad source for beneficial health-related compounds, and thus we are interested in being part of a research which will enable their use as a nutritious and healthy product. We believe that algae are one of the main sources of high nutritional value food, and will form the basis for future nutrition. We have in-house all the analytical equipment required for food analysis: 2 GC-MS instruments, an UPLC-PDA-FLD and a LC-MS instrument. We have the expertise in the chemistry for analyzing the samples and the data, and are very experienced in working with many food matrices, including algae.

We are looking to join a consortium, where we would take the lead or active role in food chemical analysis for health-related compounds.

Consortia that may benefit from our contribution, experience and expertise:

An established or forming consortium which has access to algal growing facilities, with food market accessibility and that preferably includes a partner who has either cell or animal model. Such collaboration will enable us to simultaneously study algal chemical composition and health-related activities.

Our specific potential contribution:

As the call is specifically focused on food ingredients with high nutritional value, we see our role in profiling the aquatic sources of choice for innovative health-related composition. We are food and health oriented, which we think is an important perspective in such a project. Our suggested contribution would be in the wide range of analyses, e.g. anti-oxidant activity and aroma volatile analysis and profiling, in addition to various omics technologies, e.g. foodomics, metabolomics and lipidomics, including advanced data analysis. Our experience in working with both micro and macro algae is another aspect we are willing to contribute in. Being part of a large organization, we would be happy to also take part in outreach and dissemination activities.

Groups that are setting up a proposal are invited to contact

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