



## Metabolomic based functional analysis of foods

### FHI CALL FOR APPLICANTS | MARIE CURIE CAREER-FIT PLUS 2020

University College Dublin, as a partner in Food for Health Ireland, is seeking to host an experienced researcher via the Marie Skłodowska-Curie Career Fit Plus Programme in Ireland in the area metabolomics. In order to secure the funding from this programme, the applicant will develop a proposal with researchers from University College Dublin, (UCD) along with R & D leaders at H&H.

Career-FIT PLUS aims to enhance the training and mobility of experienced researchers through the undertaking of individually driven, industry-focused research training projects which will be interdisciplinary and focused on the domain areas of the eligible Technology Centres and Technology Gateways in Ireland.

### Project Description

This project will involve working with H&H Group to develop new metabolomic based methods to characterise composition and function of key products. It will involve method development and application of methods to enhance our understanding of the composition of food products and link this with key functional properties.

### Candidate Skillset

1. Advanced understanding of analytical tool underpinning metabolomics
2. Ability to develop methods for analysis of foods
3. Excellent communication skills in terms of presentation and report writing
4. Ability to draft manuscripts
5. Ability to supervise research staff

The fellowship has the potential for a postdoctoral scientist to:

- To work with a multi-disciplinary team to develop metabolomics workflows for food analysis Develop advanced competencies in performing bioassays and cell culture studies
- To develop advanced competencies in NMR and LC\_MS based metabolomics
- To develop advanced competencies in Multivariate data analysis
- To apply skills to understand factors underlying functional composition changes in dairy foods
- To apply skills in the Food Industry while gaining knowledge on next generation nutraceuticals and custom manufacturer networks, and leading industry and academic experts.

# Food for Health Ireland

At Food for Health Ireland (FHI), our goal is to enhance health and wellbeing through innovation in food. By combining world-class science with industry expertise, we ensure our industry members stay ahead in the global food market.

We have spent more than a decade cultivating an Innovation Ecosystem across Ireland that now brings together leaders in food and health research, industry, policy, marketing and investment.

Now in the third phase of our research development, FHI is continuing to improve

health through innovation in food, with a focus on key areas such as:

- Cardiovascular Health
- Gut Health
- Maternal Health
- Healthy Ageing



▶ Professor Lorraine Brennan is a Full Professor of Human Nutrition in University College Dublin, Ireland. Professor Brennan is at the forefront of nutrition and metabolomics research, running the Nutrition, Biomarkers, and Health research group, obtaining considerable National and European research funding and publishing high impact peer-reviewed articles. Recent funding successes have included a European Research Council (ERC) Consolidator Award and US-Ireland tripartite grant. She is involved in a number of European consortia such as FoodBall and SusFood. Professor Brennan was a member of the EU Food2030 Expert group which assisted the European Commission with the development of FOOD2030 and explored possible future R&I policy recommendations and actions cumulating with a published report.

Professor Brennan is Editor in Chief of Nutrition and Metabolism and Associate Editor for the American Journal of Clinical Nutrition. She has published over 170 research articles. She has an active Public Engagement working with the local community in terms of Food and Nutrition.



▶ UCD is one of Europe's leading research-intensive universities; an environment where undergraduate education, masters and PhD training, research, innovation and community engagement form a dynamic spectrum of activity. Since its foundation, the University has made a unique contribution to the creation of modern Ireland, based on successful engagement with Irish society on every level and across every sphere of activity. UCD is also Ireland's most globally engaged university with over 30,000 students drawn from over 139 countries, including almost 5,000 students based at locations outside of Ireland.



▶ Health and Happiness (H&H) Group is a global leader in premium nutrition and lifetime wellness. H&H Group advances as a global leader in infant & adult nutrition and care, and premium quality vitamins and supplements. Through our international presence, we have grown to have four brand centres in Australia, China, France and the United States and five R&D centres in China, France, Ireland, the United States and Australia. We bring together powerful brands including Biostime, Swisse, Healthy Times, Dodie, Good Gout and Aurelia Probiotic Skincare with Biostime as the World's No.1 Brand in terms of retail sales of paediatric probiotic supplements. Our mission is to make people healthier and happier through product innovation and inspiration. Our activities are extensive, and coverage includes product development for all life stages. Primary activities include the development of next generation infant milk formulations and probiotic supplements.

Website:



<https://www.horizon2020.ie/career-fit-plus/>

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