The **Leibniz Institute for Food Systems Biology at the Technical University of Munich (Leibniz-LSB@TUM)**, a legal foundation under civil law in Freising, is a research institution of the Leibniz Association that combines methods of biomolecular basic research with analysis methods of bioinformatics and analytical high-performance technologies to investigate the complex interplay between the human organism and food ingredients.

The research group "**Molecular Modeling**" (Dr. Antonella Di Pizio) at Leibniz-LSB@TUM is currently looking for

Post Doc (m/f/d)

to start on 01.03.2021 (100% TV-L 13). The position is to be filled for a period of 2 years.

Project

The straightforward identification of taste peptides in food is largely hampered by the enormous complexity of food peptidome. The applicant will work on the development of prediction methods for the identification of food-derived taste peptides and the investigation of the taste signaling pathway, in close collaboration with the experimental groups in the institute and with the group of Prof. Dr. Olaf Wolkenhauer (University of Rostock).

Your area of responsibility includes

- Developing QSAR and machine learning models for peptide chemistry
- Modeling tasks dealing with taste receptors (homology modeling, docking, explicit solvent/membrane Molecular Dynamics simulations)
- Network analyses of the taste signaling pathway
- Taking on organizational tasks

Requirements

The ideal applicant has a strong background in physical/computational chemistry, as well as data analysis and solid English-language skills. Experience with programming is highly recommended. Above-average interest in the topic, we consider self-motivation and the ability to face new professional challenges as self-evident prerequisites. The ability to work independently, outstanding team skills and organizational aptitude round-out the ideal profile.

Work environment:

Together with internationally recognized experts, you conduct research aimed at improving foodstuffs and promoting healthy human nutrition.

In addition to a varied workplace where your performance counts, we offer

- scientific development opportunities in an international and interdisciplinary research environment
- possibilities for further training and advanced qualifications within the Leibniz Association and the Technical University of Munich
- a performance-related salary in accordance with TV-L, in-line with your personal qualifications and the personal prerequisites
- an interesting and varied task area in the field of university research
- a motivated team that is looking forward to welcoming you
- flexible working times and therefore good compatibility of work and family
- company pension scheme
- special annual payment

In the case of essentially reciprocal suitability, severely-disabled applicants as defined SGB IX will be preferred.

Please send your application with the usual documents electronically to the following address, citing the reference number **2021-02-S3-ADP**:

Anja Magalowski (Human Resources Department) recruiting.leibniz-lsb@tum.de.

Take advantage of this opportunity and contact us!

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