

Postdoctoral fellowship in Molecular Biology

Principal Investigator: Ana Marisa Chudzinski-Tavassi

Institution: Centre of Excellence for Research in Target Discovery / Instituto Butantan

Project Title: New molecular targets identification and validation of anti-inflammatory peptides applying distinct mass spectrometry-based proteomic approaches.

The Centre of Excellence in New Target Discovery (CENTD), a partnership between FAPESP, Glaxo-Smith Kline and Instituto Butantan, has a postdoctoral fellowship available at CENTD Laboratory of Instituto Butantan, São Paulo, Brazil.

The candidate will have the opportunity to work in target identification and validation of anti-inflammatory peptides, applying mass-spectrometry based proteomic techniques

As requirement, the candidate must have a PhD title in Biochemistry or correlated area, relevant scientific publications in the field compatible with the position, motivation to solve complex biological problems in target discovery, motivation to work productively in an interdisciplinary environment and English fluency.

Verified experience with cell culture, sample preparation (protein extraction, in-solution and in-gel digestion, chemical derivatization, desalting, protein and peptide sample descomplexation by ion-exchange or reverse-phase chromatography) to proteomic analysis, from shotgun bottom-up approaches, for targets characterization and quantification, is required. The candidate must have practice/conceptual experience with liquid nano-chromatography systems coupled to high-resolution mass spectrometer, and high throughput data analysis generated by the nLC-MS/MS platform, preferable with EASY-nLC1200 and QExactive plus instrument Plus (Thermo Scientific).

As differential, candidates who master the main data base search tools related to proteomes (PEAKS MaxQuant, Skyline, Mascot, TPP, Sequest, etc.) and basic knowledge of Chemoproteomic will be selected. Experience with bioinformatics with R language is a plus.

English fluency and skills to work in an interdisciplinary environment are essential requirements.

Interested candidates must apply for the position, presenting an introduction letter describing the scientific research accomplishments, curriculum vitae and two recommendation letters. Please, send the application to Dra. Ana Marisa Chudzinski Tavassi (centd.vagas@butantan.gov.br; ana.chudzinski@butantan.gov.br).

The position is available to Brazilian and foreigners. The selected candidate will receive a postdoctoral fellowship for R\$ 7,373.10 monthly and Technical Reserve equivalent to 10% of the annual fellowship amount to cover the expenses related to the research activity.

Those who need to move to the city where the research institution's headquarters is located may request the benefit of financial assistance for installation, comprising:

- One (1) additional fee to be paid along with the first month of the fellowship;
- Transport costs, if there is a distance greater than 350km (visit www.fapesp.br/en/5427).

Registration start: 12/15/2021

Deadline for applications: 01/15/2022

Duration: 4 years.

Grant: 2020/13139-0, FAPESP.