

Post-Doctoral Research Fellow in Molecular Biology: São Paulo, Brazil

Principal Investigator: Ana Marisa Chudzinski-Tavassi

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

Project Title: Validation of novel molecular targets from anti-inflammatory and cytoprotective molecules in culture cells.

The Centre of Excellence for New Target Discovery (CENTD), a partnership between FAPESP, Glaxo-Smith Kline and Butantan Institute (São Paulo), has a Post-Doctoral position available at the CENTD Laboratory located at Butantan Institute, São Paulo, Brazil. This project is about validation of molecular targets obtained in cellular models of inflammation subjected to various stimuli and further treated with anti-inflammatory synthetic peptides. The targets are identified by chemoproteomic and mass spectrometry strategies.

The Pos-Doc fellow will focus primarily on validating the identified targets with the use of techniques of knockdown and overexpression to regulate the expression of genes of interest and further analysis of signaling pathways by biochemistry and molecular biology techniques. Candidates must prove expertise in cell culture, signaling pathway studies, fluorescence microscopy, real-time PCR, gene knockdown and overexpression. Expertise in gene editing tools using CRISPR/Cas9 systems is desirable.

Candidates must have a PhD in Biochemistry or related area, relevant scientific publications as first author in the area of expertise compatible with this position, motivation to solve complex biological problems in the area of molecular target discovery, motivation to work productively in an interdisciplinary environment. As the project involves the study of peptides with potential anti-inflammatory action in diverse cell models, it is desirable that the candidates have solid knowledge in immunology.

The candidate must have good communication skills in English, for drafting scientific manuscripts and orally presenting/discussing results at regular meetings with the participation of GSK.

Interested applicants must submit their applications including: cover letter describing research achievements, *curriculum vitae* and two letters of recommendation. Please send the application to Dr. Ana Marisa Chudzinski Tavassi (centd.vagas@butantan.gov.br; ana.chudzinski@butantan.gov.br).

The position is open to Brazilians and foreigners. The selected candidate will receive a Post-Doctoral Scholarship from FAPESP including a monthly stipend of R\$ 8,479.20 and research contingency funds equivalent to 10 per cent of the annual value of the fellowship for use in activities developed by the fellowship holder, strictly related to the fellowship research project.

If the selected candidate needs to move into the city where the headquarters of the research institution is located, it is possible to apply for financial assistance, (visit www.fapesp.br/en/5427).

Registration start date: September 19th, 2022

Deadline for applications: October 19th, 2022

Duration: 48 months

Grant: 2020/13139-0, FAPESP.