



MedImmune, Inc.

Job Description

Position #SWB20CVMD

Job Title: Postdoctoral Fellow – Science without Borders

Site: MedImmune, Gaithersburg, MD

Department: Research-Cardiovascular and Metabolic Diseases (CVMD)

Duration: 2 years

We are seeking a highly motivated postdoctoral fellow to join the Cardiovascular and Metabolic Diseases (CVMD) department to lead an independent research project on characterizing the role of BMP signaling system in adipose tissue biology. The research will be conducted in MedImmune's state-of-the-art laboratories and will help drive innovation in those scientific areas of particular interest to MedImmune in achieving our vision to advance science and medicine to help people live better lives. The successful candidate will benefit from daily interaction with highly accomplished scientists with whom they will collaborate. The position offers a unique opportunity for a talented scientist to work in a dynamic and innovative environment and to develop their career at the interface of basic research and drug discovery.

Major Duties and Responsibilities:

The candidate will independently design and execute experiments and summarize data as well as prepare publications.

Requirements/Qualifications:

Nationality: Brazilian citizenship or permanent residency

Education: PhD in Biochemistry, cell/molecular biology or related disciplines

Experience: Doctoral and/or Post-Doctoral research.

Special Skills/Abilities:

Experience with cell culture techniques, molecular biology, adipose biology and *in vivo* pharmacology skills in rodent models of Type 2 diabetes and/or Obesity are strongly preferred. Candidates must be motivated and capable of working independently as well as collaboratively. All applicants must have strong written and verbal communication skills with publication(s) in the fields of biochemistry/molecular biology, CVMD or related topics. Demonstrated ability to conduct a complex research project and pursue multiple lines of investigation at the same time.

Project Summary:

The bone morphogenetic proteins BMP4 and 7 are important regulators of mesenchymal stem cell commitment, including white and brown adipogenesis. However, BMP signaling and effects are tightly regulated by a number of endogenous BMP antagonists. We propose to investigate the role of BMP signaling in being of white adipose tissue and regulation of energy homeostasis. We plan to study the role of BMP signaling pathways and BMP antagonists in white and brown adipose tissue; and their physiological role in insulin

resistance and type 2 diabetes. This research may pave the way towards targeting modulators of BMP signaling for the treatment of type 2 diabetes and obesity.

Application Instructions:

Please note that these postdoctoral positions are advertised under an AZ/MedImmune partnership with Brazilian Science without Borders (SWB). If you are interested in any of these positions, please apply through the SWB website specifying the position number, [click here](#).