

Antibody Discovery and Protein Engineering

#SWB01ADPE - Lead an independent research project focused on developing ion channel modulatory antibodies.

Job Title: Postdoctoral Fellow – Science without Borders

Site: Cambridge, UK

Department: Research-Antibody Discovery and Protein Engineering

Duration: 2 years

We are seeking a highly motivated postdoctoral fellow to join the ADPE department and lead an independent research project focused on developing ion channel modulatory antibodies. The research will be conducted in MedImmune's state-of-the-art laboratories and will drive innovation in order to achieve MedImmune's 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 successful candidate will build on work already conducted at MedImmune to develop a platform designed to enable discovery of ion channel modulatory antibodies by phage display. The candidate will design constructs of chimaeric ion channels, biophysically characterize the expressed proteins using electrophysiology and purify the proteins. The candidate will use the purified protein as a target for phage display to identify antibodies that bind specifically to regions of interest. Finally, specific binders will be characterized using electrophysiology techniques. The candidate will independently design and execute experiments and summarize data as well as prepare publications and presentations. Suitable supervision and training will be given to enable a rapid progression of this exciting project.

Requirements/Qualifications:

Nationality: Brazilian citizenship or permanent residency

Education: PhD in a life sciences related discipline

Experience: Doctoral and/or Post-Doctoral research

Special Skills/Abilities:

- A detailed theoretical and practical knowledge of patch clamp electrophysiology
- Experience in the generation and purification of recombinant proteins
- Experience in using molecular biology packages such as VectorNTI and Lasergene (DNASTAR)
- Excellent communication skills, ability to plan and prioritize work
- Ability to work unsupervised as well as part of a multidisciplinary team

Application Instructions:

If you are interested, please apply through the Ciência sem Fronteiras website [indicating](#) the number of the position.

