Postdoctoral Position Available

Poxvirus and Vaccines Laboratory at the CNB-CSIC (Madrid, Spain)

A 3-year postdoctoral position is available in the Poxvirus and Vaccines Laboratory at the CNB (Pls: Juan García Arriaza and Mariano Esteban) to work in the development of novel vaccine candidates against SARS-CoV-2. As a model system of delivery vector for expression of genes of interest we use modified vaccinia virus Ankara (MVA), a member of the poxvirus family.

Project and job information: We have previously developed a vaccine candidate against SARS-CoV-2 based on the MVA vector expressing the SARS-CoV-2 S protein that is highly immunogenic and effective in animal models. We have received funding from the Ministerio de Ciencia e Innovación (Project title: Development, immune function and efficacy of vaccine candidates against SARS-CoV-2/COVID-19 based on the poxvirus vector MVA [MVA-SARS-CoV-2]) to generate novel vaccine candidates against SARS-CoV-2, as well to study their immunogenicity and efficacy in animal models. The goal of this project is to develop new strategies of vaccination extending the range of SARS-CoV-2 antigens, in order to establish the best-in-class immunogen inducing more potent levels of SARS-CoV-2-specific T and B-cell immune responses, and conferring the highest level of protection. These findings will generate detailed knowledge on the immune mechanisms needed for SARS-CoV-2 vaccine efficacy, relevant for vaccination programs against this and other emerging viruses, and will identify the most effective vector(s) that could move forward to clinical trials. The project is highly interdisciplinary combining virology, cell biology methods, immunology and experimentation in animal mouse models.

Competences: Highly motivated postdoc researchers with strong interest and experience in vaccine development, virology and immunology. Motivated candidates with previous experience in generation of recombinant viruses, cell culture, molecular biology and mouse experimentation are especially encouraged to apply. Good knowledge of English and Certificate in animal experimentation is highly desirable.

Start date: January 2022.

Contact: Interested candidates should submit a cover letter and a CV to Juan García Arriaza (jfgarcia@cnb.csic.es) and Mariano Esteban (mesteban@cnb.csic.es).

Relevant publications from the group: