**Calcium Signaling in Fertilization and Embryo Development**

National Institute of Environmental Health Sciences, Research Triangle Park, NC

**Position Description:**

Interested in how calcium signals turn eggs into embryos?

A postdoctoral position is available to join the laboratory of [Dr. Carmen Williams](https://www.niehs.nih.gov/research/atniehs/labs/rdbl/pi/reproductive/index.cfm) @WilliamsRepro to study calcium signaling at fertilization in the mouse and its impact on embryo development. We aim to understand how calcium signals are generated in the fertilized egg, modulated, and translated into signaling cascades that impact embryo development and offspring health, and how the environment impacts these signals. To this end, the successful candidate will lead a research project on calcium signaling in the mouse and how it impacts transcriptional responses, epigenetic reprogramming, embryonic genome activation, and embryo development. Transgenic or knockout mouse models may be used or developed to advance these studies. Recent laboratory publications can be found [here](https://www.ncbi.nlm.nih.gov/myncbi/carmen.williams.1/bibliography/public/).

The lab has state-of-the-art facilities, and the environment is stimulating, diverse, and highly collaborative. The fellow will have access to outstanding career development resources through the [Office of Intramural Training and Education](https://www.training.nih.gov/programs/postdoc_irp), including grant writing training, workshops on career options, courses and more. Opportunities to participate in national/international meetings will be provided as projects develop. The local area provides exceptional networking opportunities for career development in government, academia, and industry. NIEHS is in one of the largest research parks in the US and is close to three outstanding universities: UNC at Chapel Hill, NC State and Duke University. The competitive stipend and benefits offered are regulated by the institute’s intramural funding policies and can be found [here](https://www.training.nih.gov/postdoctoral_irta_stipend_ranges).

**Qualifications:**

* Currently hold a PhD in the biological sciences or be an advanced graduate student who already submitted a manuscript to an international journal as the first author.
* Be no more than 3 years beyond the date of obtaining the PhD degree.
* Have training and experience in reproductive biology; candidates with experience in microinjection and in handling oocytes or preimplantation embryos are preferred.
* Additional desirable skills and areas of expertise include mouse handling, confocal microscopy, molecular biology, and bioinformatics.
* The successful candidate will be highly motivated, creative, and rigorous, and have independent critical thinking ability in the design and interpretation of experiments, excellent command of the relevant scientific literature, and solid written and oral communication skills in English.

**To Apply:**

Email [williamsc5@niehs.nih.gov](mailto:williamsc5@niehs.nih.gov) a single PDF file containing:

* Cover letter explaining why you are qualified for the position, why you are interested in this project, and your career goals
* Curriculum vitae
* Names of three references with contact information (email and phone number)

Applications will be evaluated as they are received until the position is filled. Informal inquiries are welcome, and additional information is available upon request.

*The NIH is dedicated to building a diverse community in its training and employment programs.*