



Postdoctoral Research Position: Signal Transduction and Translational Research on E3 Ubiquitin Ligases

A postdoctoral position is available immediately (start date is flexible) in the laboratory of Claudio Joazeiro, Dept. of Cell Biology, Scripps Research Institute (San Diego, CA).

Research in the laboratory addresses the role of E3 ligases in biology and disease. We have annotated the human E3-encoding genes and used this information to generate plate-arrayed, genome-wide E3 cDNA and siRNA collections that are being used in the lab for functional genomic screens. Current research topics include: the regulation of organelle dynamics and NF- κ B activation by MULAN, a mitochondria-anchored E3; a novel E3 whose mutation leads to neurodegeneration; protein quality control.

The position available is to study signaling by the above E3s, including by identifying interacting proteins and substrates, determining the functional relevance of such interactions, elucidating the mechanisms responsible for eliciting downstream signaling, etc. These findings will be translated into experimental models of signaling in physiology and disease, including through the generation of genetically-modified mice.

Selected references:

- Li W, Bengtson MH, Ulbrich A, [...], Batalov S, Joazeiro CA. 2008. Genome-wide and functional annotation of human E3 ubiquitin ligases identifies MULAN, a mitochondrial E3 that regulates the organelle's dynamics and signaling. PLoS ONE. 3(1):e1487.
- Joazeiro CA, Weissman AM. 2000. RING finger proteins: mediators of ubiquitin ligase activity. Cell, 102:549.

The candidate should have strong conceptual and experimental background in biochemistry and molecular biology, as well as on the mechanistic dissection of signaling; he/she should be independent, proactive, hard working and productive, and should enjoy working in team efforts; the most competitive candidates will have at least one first-author publication (or article in press) in a high-impact journal, and will have the potential and commitment to become self-funded in the short-term.

Please send CV, a brief statement of current and future research interests and three references to: Claudio Joazeiro c/o Cindy Fitzsimmons (Email: cindyfitz@scripps.edu)

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