

## **Open Postdoctoral position- Synaptic control of information transmission** **Samuel Young Laboratory**

There is an open post-doctoral position for an enthusiastic and highly motivated individual in the laboratory of Samuel Young (<https://young.lab.uiowa.edu/>) at the University of Iowa Carver College of Medicine, Iowa City, IA. The Young laboratory is focused on the fundamental question: “**How do synapses enable neuronal circuits to transmit a wide diversity of information?**” Outcomes from our work will define the molecular principles that govern how synaptic properties drive neuronal circuit output, which underpins organism behavior.

Using the calyx of Held presynaptic terminal as the primary model in combination with cutting edge viral vector technology and mouse models, we are 1) determining the mechanisms for fast auditory signalling 2) defining the molecular mechanisms that regulate Ca<sub>v</sub>2 subtypes levels and organization in the presynaptic terminal and their roles in defining neural circuit function.

The ideal candidate must have a PhD in a related scientific discipline and be well trained in electrophysiology and patch-clamp techniques. In addition, a background in molecular biology, advanced microscopy techniques, or hearing sciences is preferred. The candidate must have at least one first author publication.

To apply for this position visit our website at <http://jobs.uiowa.edu>; requisition #2920. Interested candidates should submit their *Curriculum Vitae*, a concise statement of research accomplishments and interests and complete contact information for at least three references. The Young laboratory is affiliated with the Department of Anatomy and Cell Biology at the University of Iowa and located within the Pappajohn Biodiscovery Building. Dr. Young is a member of the Iowa Neuroscience Institute and has a joint appointment within the Department of Otolaryngology. The PI is committed to the career development of trainees.

Iowa City is a vibrant mid-sized city that perennially ranks in the top 10 as a "Best Place to Live" (<http://www.iowacityareadevelopment.com/live/rankings.aspx>). It is the first UNESCO City of Literature in the U.S. and hosts a wide variety of cultural, artistic, and sporting events year-round.

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