

Yale University

Department of Molecular, Cellular and Developmental Biology

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Open position: Post-doctoral associate

David Breslow's lab, part of the Dept. of Molecular, Cellular and Developmental Biology at Yale University, is seeking a post-doctoral researcher interested in understanding the functions of the mammalian primary cilium, with a focus on defining the mechanisms that regulate cilium assembly and disassembly, ciliary protein trafficking, and/or ciliary signaling.

Located in the newly constructed Yale Science Building, the Breslow lab aims to understand the mammalian primary cilium – a micron-scale structure protruding from the surface of most cells in the human body. Using a combination of CRISPR-based functional screening, microscopy and biochemistry, we are investigating the basic processes by which cilia are assembled, maintained, and disassembled. Areas of particular interest include understanding how the cilium serves as an organizing center for select signaling pathways and dissecting the complex interplay between cilium assembly/disassembly and the cell cycle. Additionally, we have a strong interest in developing and applying new functional genomic and imaging technologies to study cilia. Collectively, our studies aim to provide fundamental biological insights, to shed light on the pathogenic mechanisms of cilium-based diseases, and to reveal new strategies for targeting cancers in which ciliary function is altered.

The Breslow lab and MCDB department provide a supportive, diverse, and collaborative environment for training and mentorship. Interactions across campus with scientists that have shared interests and expertise in cilia and cell biology provide additional opportunities for intellectual enrichment.

Applicants should hold (or anticipate award of) a Ph.D. in a relevant area of biological research such as cell biology, biochemistry, or genetics. A multi-year position is available from July 1, 2021. Please send a cover letter briefly summarizing your research experience and goals, a CV, and contact information for 3 references to david.breslow@yale.edu

For more information, visit: <http://breslowlab.yale.edu>