

Post-doctoral fellowship in cardiac regeneration and heart muscle cell proliferation

Postdoctoral positions are available in the laboratory of Dr. Bernhard Kühn in the Department of Cardiology at Children's Hospital Boston with an appointment as research fellow at Harvard Medical School. Our research field is myocardial regeneration, a rapidly growing area with high impact on regenerative medicine. We study the mechanisms of heart muscle cell proliferation with the goal of stimulating this process to regenerate heart muscle. Heart muscle cells exit the cell cycle shortly after birth and most remain in proliferative quiescence during adult life. We have shown that a subpopulation of heart muscle cells can be stimulated to proliferate, however, the identity and characteristics of this subpopulation and the underlying molecular and cellular mechanisms are largely unknown. Currently available projects focus on addressing these problems. Prior research in the fields of cell cycle control, contractile and cytoskeletal proteins, or angiogenesis is an advantage.

We seek highly motivated, enthusiastic, and interactive individuals. We offer a high level of autonomy and foster creativity, innovation, and collaboration. This search is for individuals with an ambition for challenging projects that require unusual approaches. Interested scientists and physician-scientists are encouraged to apply.

Interested applicants should send a cover letter, a CV, a summary of previous research experience, a one-page statement of research plans, and three letters of reference to Carmen Popovici, carmen.popovici@childrens.harvard.edu.

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