



JOHNS HOPKINS
M E D I C I N E



Career opportunity: postdoctoral research position

A position is available for a postdoctoral research fellow to study the role of the mTORC1 (mammalian target of rapamycin complex 1) signaling pathway in the molecular regulation of epidermal barrier function and tumor progression. Our previous studies using transgenic murine models have uncovered novel roles for mTORC1 in desmosomal gene regulation, epidermal differentiation and barrier function (<https://www.jci.org/articles/view/92893>) and in the transcriptional regulation of lysosomal biogenesis by the MiT/TFE family of transcription factors (*Tfeb/Tfe3*) and feedback regulation of EGFR kinase signaling (<https://www.jci.org/articles/view/128287>). Potential projects further aim to understand the role of epidermal mTORC1 in: 1) the transcriptional regulation of desmosomal formation and/ or junctional Rho GTPases 2) epidermal carcinogenesis 3) transcriptional regulation of autophagy and lysosomal biogenesis and its effects on epidermal development.

The ideal candidate would be a highly motivated individual with a Ph.D. in molecular biology, cell biology, biochemistry or cancer biology (or a related discipline), and/ or M.D. degree, with a demonstrated record of scientific productivity. Technical expertise in transgenic mouse models, primary cell culture, molecular biology techniques, immunostaining and confocal imaging is essential. Experience working with murine/ human models of epidermal development and/or carcinogenesis is highly desirable. Responsibilities include development of hypotheses, study design, performance of studies, data analyses, manuscript preparation and grant writing. Prospective applicants must be US citizens or green card holders with a high likelihood to continue in academics with future NIH K/R funding and must have < 2 years of postdoctoral experience. Potential candidates will be screened via internal review.

Please email your CV, a cover letter with career goals and names of three references by 4/30/21 to:

Tamara Lotan, M.D.
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Sidney Kimmel Comprehensive Cancer Center
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Johns Hopkins Medicine is an equal opportunity employer, dedicated to building a diverse community in its training and employment programs; underrepresented minority candidates are encouraged to apply.