POST-DOCTORAL TRAINING POSITION AVAILABLE
Bone Marrow Spatial Transcriptomics to Study Hematopoiesis

The Moffitt and Cantor Laboratories at Boston Children’s Hospital/Harvard Medical School (HMS) are currently accepting applications for an entry-level joint post-doctoral training position. The Moffitt lab focuses on development and utilization of in situ single-molecule imaging methods to further understand tissue architecture, developmental signaling, and novel cell type identification. The Cantor lab specializes in hematopoiesis. This joint project will develop and apply Multiplexed Error-robust Fluorescence In Situ Hybridization (MERFISH) to the mouse and human bone marrow to further understand hematopoietic stem cell and megakaryocyte biology at the vascular sinusoidal niche. MERFISH is a transcriptome-scale imaging approach capable of imaging and identifying thousands of different RNAs within fixed samples. The candidate will gain an intimate familiarity with this exciting new technique, which Nature Methods recognized as a technique of the year, by training in the lab of a co-inventor. The candidate will also interact with Allon Klein’s laboratory at HMS to develop and correlate scRNA-seq and in situ transcriptomic datasets. The candidate will be jointly advised by Dr. Moffitt and Dr. Cantor and will have the opportunity to learn and develop a cutting-edge spatial transcriptomics tool while substantially advancing our understanding of the bone marrow micro-environment and its critical role in regulating hematopoietic stem cell activity as well as platelet production.

Candidates should have recently (within ~1 year) obtained a PhD or an MD/PhD degree in the fields of Computational Biology, Genomics, Molecular Biology, Cellular Biology, Biochemistry, Development, or Genetics. The candidate should have evidence of prior productive scientific work in the form of publications in peer-reviewed journals. Prior experience in computational biology, scRNAseq, and/or other “-omics” type approaches is strongly preferred. U.S. citizenship or Permanent Resident status (i.e., “Green Card” holders) is not necessary, but is favored.

Interested candidates should send their Curriculum Vitae and a cover letter describing their background and research interests to jeffrey.moffitt@childrens.harvard.edu and alan.cantor@childrens.harvard.edu. Candidates should also arrange for two letters of recommendation, which may be requested.

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Boston Children’s Hospital is an equal opportunity employer. Women and members of under-represented minorities are encouraged to apply.