Post-doctoral position in osteoblast biology

We are searching for a postdoctoral fellow to join the **Hankenson laboratory** at Michigan State University.

On-going projects that a new postdoctoral fellow would pursue include studies on the regulation of osteoblastogenesis, particularly via Notch and/or Wnt signaling.

The ideal candidate for this position will have a PhD, MD, or DVM (or equivalent). Candidates must have relevant experience in designing and performing mammalian cell culture experiments as well as extensive molecular biology expertise in several of the following techniques: real time PCR, gene silencing, viral transduction, genome editing with CRISPR technology, DNA-protein interaction (ChIP), and/or RNA/DNA-seq. Experience with mutant mouse models and stem cell harvest and analysis, including flow cytometry, would be useful.

The primary job responsibility will be to conduct experiments focused on molecular mechanisms of mesenchymal stem cell osteoblast differentiation (transcriptional regulation, epigenetics, etc...).

The Hankenson laboratory works at the interface of basic and clinical research, encompassing what is commonly referred to as “translational research”. Our goal is to utilize basic science discoveries to inform new clinical treatments for regenerative medicine, particularly for orthopaedics.

We integrate cutting-edge cell and molecular biological techniques with system-wide studies in animal models, particularly mice, to interrogate the most relevant questions in bone biology. We are particularly focused on understanding how mesenchymal stem cells differentiate to become either cartilage forming chondrocytes or bone forming osteoblasts.

The Hankenson laboratory collaborates with both basic scientists (biologists, engineers, computational biologists, and geneticists) and clinician-scientists (dentists, physicians, and veterinarians) across the globe, and locally, particularly capitalizing on the central location of Michigan State University in the Michigan University Research Corridor to interact with colleagues in Ann Arbor, Detroit, and Grand Rapids.

For further information please contact:

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