Postdoctoral Position Available

A postdoctoral fellow position is available in the center for musculoskeletal research at the University of Rochester School of Medicine. We are seeking for a highly motivated individual to join the NIH funded research programs to study bone tissue vascularization during repair and regeneration. The research program integrates bone tissue engineering, vascular biology, and skeletal biology with an emphasis on molecular and cellular control of bone specialized blood vessel formation during repair and regeneration. The successful candidate will work with a team of scientists to study bone progenitor cell interaction with angiogenic cells utilizing state-of-the-art genetic, imaging and engineering approaches to explore and establish novel therapeutics. The candidate will have the opportunity to learn cutting-edge technologies such as multiphoton microscopy, light sheet microscopy, spatial transcriptomics, 3D printing to understand molecular control of periosteum-mediated healing and mechanisms of bone graft repair and reconstruction.

See lab website: https://www.urmc.rochester.edu/labs/zhang.aspx

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Center for Musculoskeletal Research consists of over 20 highly interactive research laboratories that focus on many facets of disease and health concerns of musculoskeletal system. The successful candidate will benefit from ongoing collaborations with a wide range of basic science and translational research as well as various career development and training opportunities for preparation of an independent research career in academia and industry.

Requirements:

- MD and/or Ph.D. in a relevant field and have training in cell and molecular biology, biomedical engineering, bioinformatics, genetics, and/or bone biology.
- Commitment to research on musculoskeletal system.
- Experience in any molecular biology, vascular biology, flow cytometry, tissue engineering, mouse work including survival surgeries, histology/immunohistochemistry, confocal and multiphoton imaging.
- Candidates with experience in small animal surgery, next generation sequencing, bioinformatics, tissue engineering will receive special consideration.
- A publication track record with written and verbal communication skills.
- The ability to work with research trainees and/or technicians.
- The ability to communicate effectively with faculty, postdoc and students of all levels.