

Postdoctoral Fellow Position at the Icahn School of Medicine at Mount Sinai, New York

A position for a postdoctoral fellow is available in the newly established laboratory of Dr. Dirk Hubmacher (Ph.D.) located in the Orthopaedic Research Laboratories (ORL) at the Icahn School of Medicine at Mount Sinai, New York.

The laboratory will be studying how extracellular matrix (ECM) proteins guide musculoskeletal tissue development and homeostasis. Specifically, we are interested in the biology and pathology of secreted ADAMTS proteases and ADAMTS-like proteins which are mutated in acromelic dysplasias; a group of human genetic connective tissue disorders that include geleophysic dysplasia and Weill-Marchesani syndrome (*Hubmacher et al., 2015, Matrix Biol.*). Because the same disorders can also be caused by mutations in fibrillin-1 (FBN1), the NIH-funded research project aims to elucidate the functional connection between ADAMTSL2 and fibrillin microfibrils in the ECM of tendon, skeletal muscle, and other tissues. The research uses new animal models for geleophysic dysplasia, cell-based systems to analyze ECM formation and turnover, and biochemical and molecular biological assays for protein-protein interaction studies (*Hubmacher et al, 2017, Sci. Rep.; Hubmacher et al, 2015, Dis. Model. Mech.*).

I am looking for a highly motivated postdoctoral fellow with a Ph.D. or M.D./Ph.D. degree in the life sciences, preferably in areas related to ECM biology or musculoskeletal biology. Demonstrated experience in protein biochemistry, cell-based assays, or in mouse genetics are desired. Excellent communication skills in spoken and written English and excellent organizational skills are required. Interested candidates should submit a cover letter, a curriculum vitae (CV), a brief description of their current research, a brief statement of future research and career goals, and the names and contact information for three references to Dr. Dirk Hubmacher (hubmacd@ccf.org).

The ORL are a highly collaborative and interdisciplinary research environment in the Department of Orthopaedics at Mt. Sinai covering basic, clinical, and translational research projects (<http://icahn.mssm.edu/research/labs/orthopaedics-research-laboratory>). The ORL maintain core facilities for morphology/histology, biomechanical testing, and musculoskeletal injury models. Salary will be commensurate with experience according to the guidelines from NIH and the Icahn School of Medicine at Mt. Sinai. A comprehensive benefits package and subsidized housing are available.