Metabolic Responses to Exercise

A postdoctoral position is available in the laboratory of Jeffrey Zigman, MD, PhD, in the Division of Hypothalamic Research of the UT Southwestern Medical Center. The lab studies how hormones made in the stomach, such as ghrelin, interact with the central nervous system as well as with peripheral organs such as the islets of Langerhans, liver, pituitary, and muscle, to influence eating, body weight, blood glucose, exercise tolerance, responses to stress, and mood. The diseases we are interested in include obesity, diabetes mellitus, cachexia, anorexia nervosa, Prader-Willi Syndrome, and major depression.

For this project, we will take advantage of a unique collection of mouse genetic models targeting the ghrelin system and mouse exercise models to investigate where and how ghrelin influences eating after exercise, effects of the ghrelin system on exercise tolerance, mechanisms by which exercise influences ghrelin secretion, and roles of ghrelin-dependent vs. ghrelin-independent GHSR activity on exercise.

Candidates must hold a Ph.D. and/or M.D. degree and are expected to be self-motivated and contribute substantively to the design, implementation, interpretation and reporting of these investigational studies. Prior experience with genetically-engineered mouse models and related breeding strategies, neuroanatomical techniques, histology, exercise physiology, cell culture, and/or bioinformatics leading to publication in peer-reviewed journals is recommended.

Individuals interested in joining our team of diverse, motivated, imaginative, goal-oriented, friendly, and fun investigators should send a CV, statement of interests, and a list of three references to:

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