

The Massachusetts General Hospital (Boston, MA) is seeking a Postdoctoral Research Fellow for an Alizé Pharma 3 – sponsored research program:

**Postdoctoral Research Fellow
Massachusetts General Hospital
Boston, Massachusetts**

GENERAL SUMMARY:

A Postdoctoral Fellow position is available in the laboratory of Dr. Thomas J. Gardella in the Endocrine Unit at the Massachusetts General Hospital (MGH). MGH is a Harvard Medical School (HMS)-affiliated hospital. This is a full-time position with an affiliated Research Fellow appointment proposed at Harvard Medical School (HMS). This position is contingent upon successful credentialing by the MGH Registrar/Credentialing Unit.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

The Postdoctoral Fellow will conduct investigations into the pharmacologic actions of novel PTH analogs being developed as candidate new therapies for diseases of bone and calcium metabolism. A key analog to be studied is LA-PTH, a unique PTH analog that interacts with a specific conformation of the PTH receptor resulting in a greatly prolonged duration of action despite having only a short circulating half-life. LA-PTH is being developed for treatment of hypoparathyroidism. Studies in hypoparathyroid rat models will examine the efficacy of LA-PTH in normalizing serum calcium levels, while assessing the impact on bone metabolism, renal function, and cardiovascular parameters (examination of serum and urine calcium/phosphate levels, bone biomarkers, analysis of bone structure by histology and micro-computed tomography, and CV telemetry). Cell-based *in vitro* studies of PTH ligand interactions with WT and mutant PTH receptor variants will complement the animal studies. The overall program is highly translational, expected to have significant publication potential, and will lead to improved understanding of basic biological mechanisms as well as potential new therapeutics.

EDUCATION AND EXPERIENCE REQUIRED:

- The candidate will have a PhD, MD, or MD/PhD in the biomedical sciences, with experience in whole animal research techniques and animal models, pharmacology, molecular/cell biology, and biochemistry.
- This position offers excellent opportunity to learn and apply skills relevant to physiological research, drug development, GPCR pharmacology, endocrinology, and the genetic causes of disease. Qualified candidates should be able to work independently as well as in a group environment.

WORKING CONDITIONS:

- The environment is a well-equipped, well-staffed research laboratory.
- Work hours flexible and generally conducted over a forty-hour workweek.
- Studies will be conducted with rodent disease models, as well as cultured cells
- No direct patient contact will occur.

We strive for impactful science in a collegial and highly collaborative environment. Career development for the individual is a major priority. Post-doctoral fellows will benefit from connections to premier academic laboratories, hospitals, and research institutions in the greater Boston biomedical environment. Massachusetts General Hospital and Harvard Medical School are affirmative action/equal opportunity employers.

APPLICATION:

Interested candidates should send a cover letter, CV and contact information for at least two references to:

Thomas J Gardella, MD
MGH, Endocrine Unit
Thier Building, Room 1035
50 Blossom Street
Boston, MA 02114 USA
Gardella@Helix.MGH.Harvard.edu

EEO Statement

Massachusetts General Hospital is an Equal Opportunity Employer. By embracing diverse skills, perspectives and ideas, we choose to lead. Applications from protected veterans and individuals with disabilities are strongly encouraged.