



Job title: PhD student for research in the field of bone-muscle interactions

Job description

For an exciting and unique study exploring the genetic aspects of bone-muscle interactions in vertebrates, we are looking for a PhD candidate who will join our team in the Faculty of Medicine of Bar-Ilan University in the Galilee region of Israel.

Our aim is to provide a functional validation for the potentially-pleiotropic genes discovered by association studies in humans, by *in-vitro* and *in-vivo* experiments. The research is performed in collaboration with the US-based colleagues; there is a possibility of training abroad (Boston or Singapore).

In particular, the candidate will:

- detect effects of the genes newly identified by association study on the musculoskeletal system by tracing expression levels in cell lines and primary bone and muscle cells;
- estimate effects of silencing and knocking-out potentially pleiotropic genes significantly expressed in bone and muscle cells, using Zebrafish (*Danio rerio*) transgenic lines.

Candidates with M.Sc. in the following research areas should apply: Molecular biology, Developmental biology, Medical Neurobiology, Microbiology, Molecular Genetics, Genetic Epidemiology, and Endocrinology. An experience of working with Zebrafish and aptitude with cell lines maintenance is a plus.

A full scholarship will be given for these that will be chosen for the study. Annual stipend starts at NIS 60,000.

The position is at the Faculty of Medicine of BIU in Safed, in the Galilee region of Israel.

<http://medweb.md.biu.ac.il/research/david-karasik/> Students are required to take courses to the extent of 8 annual hours (in English). A housing scholarship of 700 NIS/month is awarded for the purpose of renting an apartment.

For additional information please see <http://medicine.biu.ac.il/en/node/1126>

Send your CV and introduction letter to Prof. David Karasik (david.karasik@biu.ac.il) and to Dr. Chen Shochat (chen.shochat@mail.biu.ac.il).