“The role of protein synthesis regulation in pain hypersensitivity”

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Brief Summary: Dr. Khoutorsky obtained a Doctor of Veterinary Medicine degree and a Ph.D in Molecular Neuroscience from the Hebrew University of Jerusalem (Israel). He then joined the group of Dr. Sonenberg at the Department of Biochemistry at McGill University for postdoctoral studies. Arkady is interested in elucidating mechanisms regulating gene expression at the mRNA translation level and studying the role of aberrantly translated mRNAs in induction and maintenance of persistent pain. During the past years he investigated molecular and cellular mechanisms underlying plasticity in the nervous system. His research led to identification of novel regulatory mechanisms controlling protein synthesis in central and peripheral nervous systems. He discovered important mechanisms by which pain sensitization is regulated at the level of protein synthesis in animal models of chronic pain.

Dr. Khoutorsky will discuss the role of the mammalian target of rapamycin (mTOR) and cellular stress response pathways in pain sensitization. He will present evidence that these pathways represent novel potential pharmacological targets for the treatment of pain.

Date: Monday, October 26th, 2015
Time: 3:00 - 4:00 PM
Location: Active Learning Lecture Room 102, 2001 McGill College Avenue
Host: Search Committee

All are encouraged to attend.