Jeffrey Dvorin, M.D., Ph.D.
Assistant Professor of Pediatrics, Children's Hospital

Dr. Dvorin’s research focuses on the molecular pathogenesis of the human malaria parasite Plasmodium falciparum. The major goal of the Dvorin lab is to identify fundamental biological processes within the parasite life cycle.

Konstantina Stankovic, M.D., Ph.D.
Assistant Professor of Otology and Laryngology, Massachusetts Eye & Ear Infirmary

The inner ear is a fascinating organ in which many biological processes function at their extreme: the auditory nerve has exquisite sensitivity and frequency selectivity, cochlear endolymph has a uniquely high potential and concentration of potassium, the bone around the inner ear is exceptionally resistant to remodeling. We aim to understand how this unique inner-ear environment contributes to normal function of the auditory nerve, and how alterations in this environment lead to degeneration of the auditory nerve and hearing loss. The long-term goal is to restore hearing through regeneration and novel technologies.

Veronique G. VanderHorst, M.D., Ph.D.
Assistant Professor of Neurology, Beth Israel Deaconess Medical Center

The overall goal of our studies is to understand gait (walking) disorders caused by problems in the central nervous system. Gait disorders are very common and often lead to falls and decreased mobility, which affect quality of life and increase morbidity and mortality. Problems in the central nervous system that cause gait problems include neurodegenerative diseases such as Parkinson’s disease, loss of neural connections due to strokes, trauma (spinal cord injury) or demyelinating disease, and aging.

Michael B. Brenner, M.D.
Theodore Bevier Bayles Professor of Medicine, Department of Medicine, Harvard Medical School and Brigham and Women's Hospital

Our laboratory showed that the cellular immune system is capable not only of recognizing peptides in the context of MHC, but it is also capable of recognizing lipid antigens in the context of CD1 antigen presenting molecules.

Leonard Ira Zon, M.D.
Professor of Stem Cell and Regenerative Biology, FAS - Harvard

Dr. Leonard Zon’s laboratory focuses on the developmental biology of hematopoiesis and cancer. Over the past five years, we have collected over 30 mutants affecting the hematopoietic system. Some of the mutants represent excellent animal models of human disease.