

**HEALTH SCIENCES STUDENT FELLOWSHIPS
APPLICATIONS ROSTER
2004-2005**

Name: Ernst, Wayne
Institute: Baylor College of Medicine
Preceptor: Jeffery L. Noebels, M.D., Ph.D.
Project: Alternative Splicing Mediated Enhancement of T-Type Calcium Channel Currents in Absence Epilepsy Mouse Models
Lay: The focus of this proposed project is to uncover the molecular mechanism responsible for the altered LVA currents characteristics of these absence epilepsy models. Our hypothesis is that an alteration ion the splicing of the existing transcripts may explain the changes observed in the tg, lh, and stg mutants.

Name: Kruer, Michael
Institute: University of Arizona College of Medicine
Preceptor: Scott J. Sherman, M.D., Ph.D.
Project: Selective Manipulation of Electric Excitability in Hippocampal Neurons Using Cell-Specific Promoters
Lay: The goal of this current project is to address this limitation by coupling a cell-specific promoter with a delayed rectifier or inward rectifier in order to selectively modulate the firing characteristics of a subset hippocampal neurons.