Speaker: Ed Connor, PhD, Associate Professor, Department of Neuroscience, Johns Hopkins University School of Medicine; Director, Zanvyl Krieger Mind/Brain Institute, Johns Hopkins University

Time: 4pm, Departmental Tea immediately following.

Date: Friday, 13 March 2009

Place: Singleton Auditorium, 46-3002

Title: Representation of object structure in the ventral visual pathway

Host: Jim DiCarlo

URL: http://mit.edu/bcs/newsevents/colloquia.shtml

Abstract:

The main obstacle to understanding object representation is the difficulty of adequately sampling neural responses in a virtually infinite stimulus space. We are addressing this problem with a novel sampling strategy based on a genetic algorithm guided by online neural feedback. This approach has revealed a coding scheme for 3D object structure in macaque inferotemporal cortex. We are also using this approach to address the relationship between spatial frequency signals in early visual cortex and object boundary signals at higher processing stages.