

**Monday, July 13, 2009**

**12:00 noon**

**Blue Bird Auditorium, NB-137, Neurosensory Center**

## **Genomics and Systems Biology in Neurologic Disease**

**Paolo Moretti, MD**

**Assistant Professor**

**Department of Neurology**

**Department of Molecular and Human Genetics**

**Baylor College of Medicine**

### **Objectives:**

At the end of this presentation, participants should be able to:

- Understand the role of genomics and systems biology in modern medicine
- Demonstrate knowledge of the extent and types of genetic diversity in the human genome
- Recognize the role and the limitations of genomic approaches to modern diagnostic developments in neurology

### **References:**

- Kidd et al. Mapping and sequencing of structural variation from eight human genomes. *Nature* 453:56-64 (2008)
- Osborne LR. Genomic rearrangements in the spotlight. *Nature Genetics* 40:6-7 (2008)
- Stankiewicz P et al. Use of array CGH in the evaluation of dysmorphology, malformations, developmental delay, and idiopathic mental retardation. *Current Opinion in Genetics & Development* 17:182-192 (2007)
- Caraco J. Genes and the response to drugs. *The New England Journal of Medicine* 351:2867-9 (2004)

### **Target Audience, Needs, Educational Methods, Activity Evaluation:**

Physicians, residents, fellows, and other healthcare professionals need to be updated about new advances in the clinical and research areas for the diagnosis, treatment, and management of patients with neurological disorders. Educational methods will include lectures, case presentations, audio/video presentations, and questions & answer sessions. Participants will be asked to complete an activity evaluation.

### **Accreditation/Credit Designation**

Baylor College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Physicians should only claim credit commensurate with the extent of their participation in the activity.