



## **The Department of Pharmacology**

Proudly Presents the Seminar Series:

### ***Frontiers in Pharmacology***

***“Modern Computer-Aided Drug Discovery Approaches for G Protein-Coupled Receptors ”***

The field of G Protein-Coupled Receptors (GPCRs) has undergone a fundamental transformation with the structural determination of over twenty-five different receptor subtypes in the past seven years, and a recent focus on exploiting functional selectivity through biased ligands, allosteric modulators, or oligomerization as a means for discovering improved therapeutics. This transformation has impacted rational drug design approaches, and my lab has responded to this challenge with the development, testing, and implementation of a few computational strategies that have proven to be quite effective in providing mechanistic details of GPCR ligand recognition, activation, and oligomerization. I will give an overview of these approaches and their results.

**Marta Filizola, Ph.D**

**Professor,**

***Department of Structural and Chemical Biology,  
Icahn School of Medicine at Mount Sinai, New York, NY***

**Tuesday, November 18, 2014**

**4:00 pm**

**GBSF Auditorium**

**(Rm. # 1005)**

*Light refreshments will be served.*

*Host : Colleen Clancy*

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