

School of Biological Sciences

SBS Semínar Announcement Genome-wide RNA binding networks in stem cells and neurodegeneration Assistant Prof Gene W. Yeo Dept. of Cellular and Molecular Medicine, Stem Cell Program, Institute for Genomic Medicine, Moores Cancer Center, University of California San Diego Sanford Consortium for Regenerative Medicine Abstract RNA binding proteins modulate key aspects of RNA processing in eukaryotic cells, often by binding in a sequence-specific or structure- specific manner to nascent and mature RNAs. Errors in RNA binding protein-RNA interactions lead to severe My lab focuses on identifying the cis-regulatory elements genetic diseases. embedded with RNA molecules and understanding how RNA binding proteins control gene regulation in the context of stem cell biology, neural development and neurological diseases. I will discuss our recent findings that ubiquitously expressed RNA binding proteins seem to cause neurological defects in ALS and our ongoing work with specifying networks of RNA binding protein-RNA interactions using genome-wide methods, computational approaches and single-

Monday, 25 Mar 2013 3.00pm to 4.00pm SBS Classroom 2 (SBS-01n-22)

Host: Assistant Prof Francesc Xavier Roca Castella

cell studies.