

# SgN Immunology Seminar



**Prof. Raffaele A. Calogero**  
Bioinformatics and Genomics Unit  
MBC Molecular Biotechnology Center  
University of Torino, ITALY

## Non-coding RNAs as biomarkers in Leukemia

Circulating non-coding RNAs represent a new candidate class of biomarkers. miRNAs, a subclass noncoding RNA transcriptome, are important modulators of gene expression. Many evidences show that they play pivotal roles in fundamental biological processes, such as development, cell proliferation and differentiation, apoptosis, oncogenesis, metabolism and inflammation. Dysregulation of miRNAs expression has been associated with a variety of human diseases including cancer, neurodegenerative and autoimmune diseases. Furthermore, miRNAs are involved in the management of hematopoiesis, as a consequence, miRNA dysregulation causes disruption of the hematopoietic system and leukemia may arise. In this talk I will present our recent data on circulating noncoding RNA in a cohort of chronic lymphocytic leukemia (CLL) and Monoclonal B-cell lymphocytosis (MBL) patients.

*Host*  
Dr Francesca  
Zolezzi  
Singapore  
Immunology  
Network, A\*Star

*Date*  
**Friday**  
**3 October 2014**

*Time*  
11am – 12pm

*Venue*  
SgN Seminar  
Room  
Immunos Building  
Level 4  
Biopolis