



**Donnelly Centre**  
for Cellular + Biomolecular Research  
UNIVERSITY OF TORONTO



Molecular Genetics  
UNIVERSITY OF TORONTO

## Seminar Announcement

### “Quantifying RNA-Binding and RNP Codes that Coordinate mRNAs”



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Department of Molecular Genetics & Microbiology  
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Tuesday, August 18, 2015 | 3:00 p.m.  
Donnelly Centre Red Seminar Room

#### Abstract:

RNA regulons are combinatorial, probabilistic and directed by RNP codes. I will describe the DO-RIP-Seq procedure that can identify all RNA binding sites of RNA Binding Proteins (RBP) and quantify their binding strength. Our approach uses Log-Odds-Ratio (LOD) scores of fully saturated reads of RNA binding sites as a measure of quantitative RBP binding strength. DO-RIP-Seq reveals, on a genome-wide scale at high efficiency, overlapping binding sites of two or more RBPs that cooperate or compete. Thus, we derive metrics of RNA targeting that indicate regulatory RNP codes and dynamic RNA regulons as a quantitative gateway to exploring dynamic mechanisms within RNP complexes under varying biological conditions.

**Host: Timothy R. Hughes**