

Seminar Series of the
CIHR Training Grant in
**Protein Folding and
Interaction Dynamics**

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**Site-specific DNA
recombination and
transposition in 3D**

My group combines biochemical and structural approaches to understand how DNA recombinases orchestrate DNA rearrangements. In this seminar, I will focus on two particular types. (1) “Serine” recombinases, which employ a very unusual protein swivel to realign broken DNA ends and (2) a “DDE” transposase that rearranges DNA through an entirely different mechanism. Both types have evolved clever tricks for driving forward chemically isoenergetic reactions, one through exploiting DNA supercoiling, and the other through product binding energy derived from DNA bending.

Host: Dr. Lewis Kay

Wednesday, April 23, 2014 - 12:00pm
Medical Sciences Building, Rm. 4171
University of Toronto