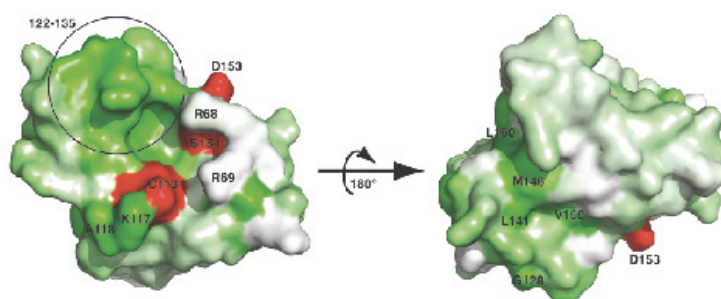




## Unraveling Twists in Signal Transduction: New Insights into the Mechanism of Action of the Peptidyl-Prolyl Isomerase Pin1



The peptidyl-prolyl isomerase Pin1 has emerged as a regulatory participant in fundamental cellular processes both in healthy cells and in diseases such as cancer and neurodegeneration. By catalyzing the cis-trans isomerization of peptide-prolyl bonds adjacent to phosphorylated residues, Pin1 promotes conformational changes in proteins. To understand how Pin1 functions as an enzyme and how it is regulated, we have used a range of experimental strategies including yeast genetics and structural biology. We have also screened a phage display library to isolate cyclic peptide inhibitors of Pin1 that could yield new opportunities to modulate its activity.

**Dr. David Litchfield**  
University of Western Ontario

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Host: Dr. Lori Frappier

**Date:** Tuesday October 29, 2013

**Time:** 10:00 a.m.

**Place:** Medical Sciences Building  
1 King's College Circle  
Room 4279