



COLLEGE of
BIOLOGICAL SCIENCE

DEPARTMENT OF MOLECULAR
AND CELLULAR BIOLOGY

MCB Seminar Speaker Series

Co-sponsored by the NMR Centre

2018-2019



Wed. Oct. 3rd, 2018
SSC 2315 @ 10:30 am

Dr. Gary Shaw

Professor, Schulich School of Medicine & Dentistry
Canada Research Chair in Structural Neurobiology
Western University

“Structural Activation of Proteins in Early-Onset Parkinson’s Disease”

Dr. Shaw received his B.Sc. (Hons) in Chemistry and Biochemistry from McMaster University. Following this he completed a Ph.D. in physical organic chemistry at McMaster under the direction of Dr. Ronald Childs. During graduate studies Dr. Shaw used organic synthesis methods combined with x-ray crystallographic and NMR spectroscopic techniques to examine the structures and dynamics of model systems for the visual pigment rhodopsin. It was at this time that he became interested in the application of rapidly evolving NMR methods to examine more complex protein systems. Following a brief term as a scientist with CIL Research, Dr. Shaw joined the lab of Professor Brian Sykes in the Department of Biochemistry at the University of Alberta as an Alberta Heritage for Medical Research postdoctoral scholar. Here, Dr. Shaw learned how to apply NMR methods to examine the structures, interactions and assembly of synthetic calcium-binding peptides.

Dr. Shaw joined the Department of Biochemistry at the University of Western Ontario as a Medical Research Council Scholar (1992-97) and later as a Canada Research Chair (2003-17). His current research mainly focuses on proteins involved in the ubiquitination pathway, especially as they pertain to neurological diseases. His group has helped to define three-dimensional structures and mechanisms of the E3 ligase parkin, a causative enzyme in early-onset Parkinson's disease, and has identified how some disease-causing substitutions alter the function of this important enzyme.

For more information please visit: <http://publish.uwo.ca/~gshaw1/> and @theshawlab

“A GREAT OPPORTUNITY TO HEAR LEADING RESEARCHERS IN THE SCIENTIFIC COMMUNITY DISCUSS THEIR WORK”

* ALL WELCOME TO ATTEND *

* COFFEE, TEA AND TIMBITS *

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