



# Member Profile

## Dr. Masoud Jelokhani - Niaraki, Affiliated Member

Dr. Masoud Jelokhani - Niaraki, affiliated member of the MS2Discovery Institute advances research within one priority research theme of the Institute: Life Sciences, Biotechnology and Bioinformatics (Tecton 2).

Dr. Jelokhani - Niaraki joined the Institute in 2014. He came to Sir Wilfrid Laurier University in 2001 where he is now a tenured professor and chair for the Department of Chemistry and Biochemistry. Before joining Laurier he was an assistant professor at Brandon University and is currently an adjunct professor for the Biophysics Interdepartmental Group at the University of Guelph. He earned his PhD in Biological and Biophysical Chemistry from Saga University in Japan. He received his MSc from the same institution for organic and biological chemistry. Since 2006, he has been a periodic reviewer for several different journals including the Journal of Medicinal Chemistry, Biochemistry, Cellular and Molecular Life Sciences and the International Journal of Molecular Sciences.

His research interests lie in two different areas. In particular, in conformation and ion transport properties of the mitochondrial uncoupling proteins to elucidate their physiological roles and the mechanism of interaction of natural and synthetic cationic antimicrobial peptides. This requires a combination of chemical, biochemical and biophysical techniques. His lab, the Biophysical and Protein Chemistry Laboratory, can be found in Laurier's Science Research Building.

Currently, his research is funded by a Natural Sciences and Engineering Research Council Discovery grant. In the past, he has also received funding from Wilfrid Laurier University.



Dr. Jelokhani - Niaraki welcomes inquiries from potential graduate students. He has research assistantship opportunities for students interested in the molecular aspects of life processes with a focus on structure and function of membrane proteins and de novo designs and mechanisms of biological activity of antimicrobial and antioxidant peptides.