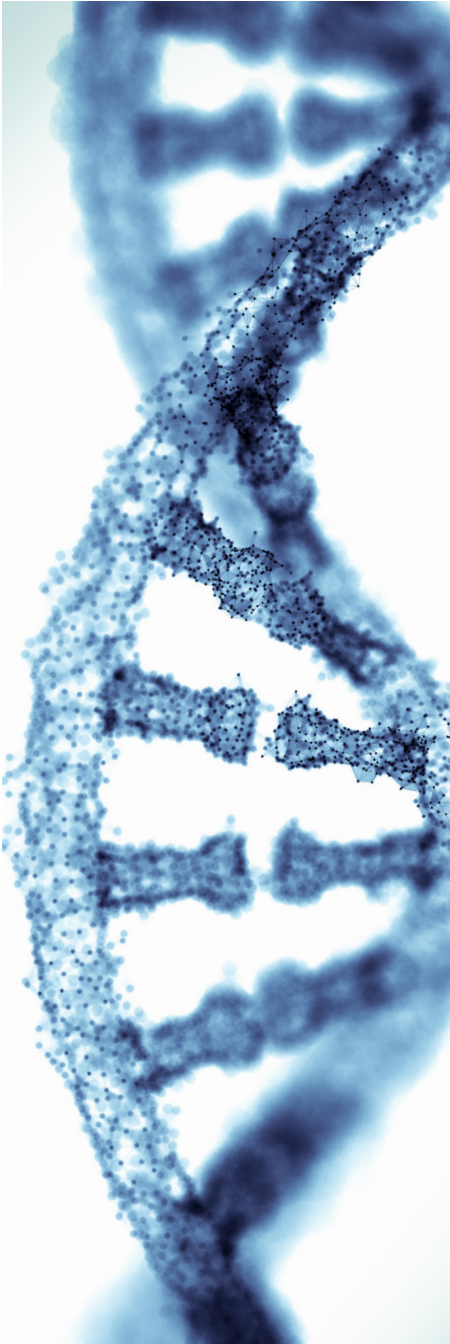


DIVISION OF MEDICAL SCIENCES SEMINAR SERIES



Provitamin A Metabolism and Function in Mammalian Biology

Johannes Von Lintig, Ph.D.

Department of Pharmacology at
the Case Western Reserve University

Tuesday, October 17, 2017

12:00 p.m. to 1:00 p.m.

From the Presenter: "Carotenoids affect a rich variety of physiological functions in nature and are beneficial for human health. These lipids are the natural precursor for retinoids (vitamin A and its derivatives) which are critical for retinoid signaling in most tissues and vision in the eyes. I approached this fascinating research field by initially studying *Drosophila* vision at the University of Freiburg (Germany) and identified the first genes devoted to carotenoid metabolism in animals. The *ninaB* and *ninaD* mutants that define these gene families encode, respectively a carotenoid-cleavage oxygenase and class B scavenger receptor. I continued this work by studying how carotenoids and their retinoid derivatives are acquired from the diet, metabolized and transported to peripheral tissues using zebrafish and mouse models at Case Western Reserve University (USA). Genetic polymorphisms in the corresponding genes alter carotenoid and retinoid homeostasis and have been associated with various chronic diseases. Together with my collaborators and coworkers, I have published more than 90 manuscripts in peer-reviewed scientific journals which were cited more than 6200 times (h-index 45, Google Scholars) and I am the inventor of two approved patents. My past students and postdocs successfully pursued careers in academia and industry. I actively foster my research field by editorial activities, grant reviewer, chair of the Gordon Research Conference on Carotenoids, and elected President of the International Carotenoid Society. The continuation of this research provides a challenge with significant impact on public health."



Northern Ontario
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NOSM at Lakehead University – MSW Room 1011

NOSM at Laurentian University – MSE Room 215

Lunch will be provided.