Dr. Walter J. Lukiw's major research interests are in small non-coding RNAs (sncRNAs), such as micro RNAs (miRNAs), and messenger RNA (mRNA) complexity and speciation in the human brain during development and aging, and in the molecular-genetics, epigenetics and elucidation of inflammatory signaling circuits in human prion disease, in Alzheimer's disease (AD), and in age-related macular degeneration (AMD). His laboratory also has a strong research interest in HSV-1 and viral infection of the central nervous system (CNS) and how it may contribute to inflammatory neurodegeneration.

Dr. Lukiw hypothesizes that specific pathways of genetic mix-regulation, involving altered sncRNA, miRNA and mRNA complexity and expression, in human brain and retinal cells lead to an inflammatory response, resulting in apoptotic changes that are direct precursors to early pathological change in both AD and AMD.

Study of microRNA in Neuroscience
Featuring the Research of Dr. Walter J Lukiw
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