

Krembil Research Institute

2017 Research Fact Sheet



About the Krembil Research Institute (Krembil)

Krembil is the research arm of the Toronto Western Hospital. Research is conducted in the Krembil Discovery Tower—a nine-storey, state-of-the-art research and clinical centre with an award-winning design. Krembil is located just north of the intersection of Bathurst and Dundas, in downtown Toronto.



Research Areas



Research at Krembil is focused on developing new insights into innovative treatments for chronic debilitating conditions that include neurological diseases, vision disorders and arthritis.

Foundations



Funds from the Toronto General & Western Hospital Foundation contribute to research, education and patient care programs at Krembil and the Toronto Western Hospital.

Selected Research Advancements



A Tale of Two Molecules Dr. Mohit Kapoor identified two molecules—microRNA-181a-5p and microRNA4454—that are elevated in individuals with osteoarthritis and could serve as markers of disease. *Nakamura A, et al. JCO Insight. 2017.*



Improving Outcomes Certain immune cells originating from the gut may be linked to ankylosing spondylitis. Dr. Robert Inman found that these cells were enriched at sites of inflammation in the joints. *Gracey E, et al. Ann Rheum Dis. 2016.*



Seeing Cell Transplantation Dr. Valerie Wallace showed for the first time that cells injected into the retina to partially rescue vision do not actually integrate into the tissue; rather, their cell contents are transferred to existing cells. *Ortin-Martinez A, et al. Stem Cells. 2017.*



Reading One's Brain Using magnetic resonance imaging, Dr. David Mikulis found a way to predict localized brain areas 'at risk' for stroke-like damage implicated in age-related intellectual decline. *Sam K, et al. Ann Neurol. 2016.*

Researchers



36 Senior Scientists
12 Scientists
16 Affiliate Scientists
31 Clinician Investigators
122 Clinical Researchers
2 Emeritus
219 Total Researchers

Support



275 Support Staff

Research Space



146,568 sq. ft.

Trainees



42 Fellows
76 Graduate Students
118 Total Trainees

Research Funding



\$41,203,837

Peer-Reviewed Publications



901