

The Centre for Blood Research presents

CBR SEMINAR SERIES



Wednesday, May 8, 2024
1:00PM - 2:00PM PT

Life Sciences Centre
1003 (LSC3) & Zoom

“Innate immunity in the brain: induction of the inflammasome-pyroptosis axis (IPA) by neurotropic viruses.”

DR. CHRIS POWER

Professor, Neurology/Medicine,
University of Alberta
Attending Neurologist, Kaye Edmonton
Clinic/University of Alberta Hospital



The inflammasome-pyroptosis axis (IPA) coordinates an inflammatory type of regulated lytic cell death that is underpinned by caspase-activated pore-forming gasdermin proteins. HIV, monkeypox virus, and SARS-CoV-2 trigger activation of caspases-1 and -3, which result in neural cell type-specific gasdermin activation with subsequent pyroptosis. These findings demonstrate novel mechanisms by which viral infections cause activation of distinct innate immune pathways and brain disease, while also offering new diagnostic and therapeutic strategies.

Many thanks to
generous support
from:

