



SEMINAR

by

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Title: Immunity, Fertility & the Pursuit of Longevity

on 3rd April 2023 at

12.00 pm

in CDFD Seminar hall

Abstract: Aging is a universal phenomenon that is associated with functional disabilities and susceptibility to a host of diseases. Our lab studies genes that influence lifespan and its links with reproduction, immunity and healthspan. We identified a network of conserved transcription factors that coordinates lipolysis and lipogenesis to establish lipid homeostasis and promote longevity in response to reproductive stimuli in *C. elegans*. Studies with one of these proteins, TCER-1, has led us to mechanisms by which lipid metabolic pathways function during infection to influence immunity. Our recent work has revealed an important role for alternative splicing and differential expression of conserved lipases in host-pathogen combat. I will discuss these data and their implications for the field of Geroscience.