



CCB welcomes you to our seminar by

Control of stem cell biology by oxidative stress, DNA damage, and immune responses-implications for cancer biology and longevity

(Final title to be announced)

Dr. Heinrich Jasper

Buck Institute for Research on Aging, Novato – USA

Thursday 25th of September.

14:00-15:00

Auditorium 1 in the Research Building of The Norwegian Radium Hospital

Heinrich Jaspers Research Background

<https://www.buckinstitute.org/jasperLab>

Dr. Jasper is interested in regulatory mechanisms that control stress tolerance, metabolism and aging in multi-cellular organisms. In particular, he has been recognized for making seminal discoveries about the effects of aging on stem cell behavior, and about the role of stress signaling in regulating stem cell function. Current projects in his lab focus on the control of tissue regeneration, metabolic homeostasis, and cell death by insulin and stress signaling pathways. Most of these studies are being performed using *Drosophila melanogaster*, taking advantage of the wide range of genetic, molecular, and genomic techniques available for this model organism. Current and future work is extending this research to stem cell systems in the mouse (*mus musculus*). It focuses on signaling mechanisms that influence critical physiological processes with relevance to aging and cancer biology.

Dr. Jasper has published several seminal discoveries in top ranking journals such as Cell, Aging Cell, Cell Metab, Cell Stem Cell, PLoS Genetics, EMBO J and received several research awards.

Current projects include

Stem Cells and Regeneration

Signaling networks controlling metabolic homeostasis and lifespan

Stress-induced cell death

Centre for Cancer Biomedicine – www.uio.no/ccb