

PAGE MORTON HUNTER DISTINGUISHED SEMINAR SERIES



INBRED MOUSE STRAINS OFFER INVALUABLE INSIGHTS INTO PATHOGENESIS OF INTERVERTEBRAL DISC DEGENERATION

Intervertebral disc is the largest avascular tissue in human body with resident cells experiencing a uniquely hypoxic and osmotic niche. Intervertebral disc degeneration is a ubiquitous pathological condition and is associated with chronic low back and neck pain resulting in a substantial burden on healthcare systems and the individuals. Despite multifactorial nature of the pathology, a few attempts have been made to understand the diversity of clinically relevant disease phenotypes. This lecture will discuss recent studies of a number of in-bred murine models underscoring the importance of the mouse as an animal model of choice for the assessment of intervertebral disc pathobiology and diversity of disease phenotypes.

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Dr. Makarand V. Risbud is the James J. Maguire Jr. Professor of Spine Research, Director of Division of Orthopaedic Research, and Director of Cell Biology and Regenerative Medicine Graduate Program in Sidney Kimmel Medical College at Thomas Jefferson University. Dr. Risbud's lab studies adaptation of nucleus pulposus cells to the unique hypoxic and hyperosmolar microenvironmental niche of the intervertebral disc. His work is focused on understanding how aberrant changes in the microenvironment compromise cell function and promote development of degenerative disc disease, a leading cause of chronic back/neck pain and disability.

November 4, 2021 • 3:30 p.m.

Virtual seminar

<https://clemson.zoom.us/j/99019051299>



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