

SEMINAR SERIES

January 14, 2020 10:30 – 12:00

Shriners Hospitals for Children - Room 2.30
(Coffee and snacks will be served)



Prof. Ali Mobasher,
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Metabolic Alterations in Chondrocytes in Osteoarthritis

Optimal metabolism is important for maintaining energy balance during development and in response to anabolic and catabolic stimuli. Under adverse microenvironmental conditions, mammalian cells undergo a switch in cell metabolism from a resting regulatory state to a highly metabolically activate state to maintain energy homeostasis. There is emerging evidence that there are immunometabolic alterations in arthritic diseases such as rheumatoid arthritis (RA) and osteoarthritis (OA). Metabolic alterations occur in cartilage and synovium during joint inflammation, with consequences for synovial joint function. This presentation will outline the metabolic alterations that occur in OA, at the systemic, synovial joint and cellular levels, particularly focusing on metabolic reprogramming in chondrocytes in response to pro-inflammatory cytokines.

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