2nd joint FSSCR-SUNRiSE WEBINAR

Monday, December 11th, 2023

4:00pm (CET) / Login: https://umontpellier-fr.zoom.us/j/95851282836#success

Niches for hematopoiesis and osteogenesis in the bone marrow

Pr Sean Morrison, PhD

K. and G. Bishop Distinguished Chair in Pediatric Research
at Children's Research Institute at UT Southwestern
Mary McDermott Cook Chair in Pediatric Genetics

Biography

Sean J. Morrison is the founding Director of Children's Medical Center Research Institute at UT Southwestern (CRI) and a Howard Hughes Medical Institute investigator. From 1999 to 2011, Dr. Morrison was a Professor at the University of Michigan, where he directed its Center for Stem Cell Biology. The Morrison laboratory studies the mechanisms that maintain adult tissues and how cancer cells hijack these mechanisms to enable the formation of tumors. To do this, they compare the processes by which stem cells and cancer cells replicate themselves. By inhibiting these mechanisms in the context of cancer, they hope to develop anticancer therapies. Dr. Morrison received the Presidential Early Career Award for Scientists and Engineers (2003) and a MERIT Award from the National Institute on Aging (2009). He is an elected member of the U.S. National Academy of Medicine (2018), the U.S. National Academy of Sciences (2020), and the European Molecular Biology Organization (EMBO, 2023). Dr. Morrison served as the President of the International Society for Stem Cell Research (2015–2016).

Selected publications

Osteolectin increases bone elongation and body length by promoting growth plate chondrocyte proliferation. Zhang et al., **PNAS 2023**

Endothelial and Leptin Receptor^{+} cells promote the maintenance of stem cells and hematopoiesis in early postnatal murine bone marrow. Kara et al., **Dev Cell 2023**

Bone marrow and periosteal skeletal stem/progenitor cells make distinct contributions to bone maintenance and repair. Jeffery et al., **Cell Stem Cell 2022**

Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation. Meacham et al., **Nat Cell Biol 2022**