

Aileen Anderson

Director of the Sue and Bill Gross Stem Cell Research Center at UC Irvine

Irvine, CA, US

Dr. Anderson is an expert on stem cell research, with a focus on spinal cord and traumatic brain injury.

Biography

Dr. Anderson's research is focused on two principal goals. First, investigating the interactions of transplanted stem cell populations within the injured niche, including the role of the evolving inflammatory microenvironment in neural stem cell fate and migration decisions. This work has recently revealed a role for novel neuroimmune signaling pathway in glioblastoma stem cell biology. Second, investigating the role of inflammatory mechanisms in degeneration and regeneration in the injured CNS; particularly the role of the innate immune response and application of biomaterials to promote functional regeneration. Research in Dr. Anderson's laboratory bridges the junction between seeking to understand mechanism at the basic neuroscience level, and identifying translational neuroscience strategies to ameliorate the cellular and histopathological deficits associated with SCI to promote recovery of function.

Areas of Expertise

Glioblastoma, Stem Cell Biology, Stem Cell Research, Spinal Cord Injury

Affiliations

Society for Neuroscience, American Association for the Advancement of Science, International Society for Stem Cell Research

Education

University of California, Irvine

PhD Biology, Neurobiology

University of Illinois, Urbana

BS Bioengineering

Accomplishments

UCI Chancellor's Award for Excellence in Research Mentorship

2006

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