

2018 Seminar

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On the Origin of Spermatogonial Stem Cells: The Golden Boy Hypothesis

John R. McCarrey, Ph.D.

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Dr. McCarrey received his Bachelors degree in Animal Science and his Masters and PhD degrees in Genetics, all from the University of California, Davis. He did a postdoctoral fellowship with Dr. Susumu Ohno at the City of Hope in Duarte, California. He then joined the faculty in Reproductive Biology at the Johns Hopkins School of Public Health. In 1991 he moved to the Department of Genetics at the Southwest Foundation for Biomedical Research in San Antonio, Texas, and in 2001 he assumed his present position as Professor of Cell & Molecular Biology at the University of Texas at San Antonio. He holds joint appointments in the Departments of Obstetrics and Gynecology and Cellular & Structural Biology at the University of Texas Health Science Center at San Antonio, and in the Department of Comparative Medicine at the Texas Biomedical Research Institute. He is also an affiliate scientist of the Southwest National Primate Research Center in San Antonio, and Director of the San Antonio Cellular Therapeutics Institute. In 2012, Dr. McCarrey was named the Robert and Helen Kleberg Distinguished Chair in Cellular & Molecular Biology.

Research in his laboratory is centered on the development, differentiation, and epigenetic regulation of mammalian germ cells and stem cells. Their experimental systems include mice, baboons, opossums, and other mammalian species. They are interested in 1) the occurrence and correction or transmission of epimutations in the germ line, 2) the effects of assisted reproductive technologies on the induction of epimutations in the offspring produced, 3) the development of spermatogonial stem cells, 4) the maintenance of enhanced genetic integrity in germline and pluripotent cells, 5) the regulation of gene expression in germ cells, 6) X-chromosome activity or inactivity in germ cells, 7) germline epigenetic programming, and 8) developing the baboon as a preclinical model for studies of stem cell-based therapies.



DATE

**THURS 21
JUNE**

TIME

12.00PM – 1.00PM

LOCATION

**TRF BUILDING
LEVEL 2, SEMINAR
ROOMS 1 + 2**