EPIGENETICS INSTITUTE

SEMINAR SERIES

UNIVERSITY OF PENNSYLVANIA

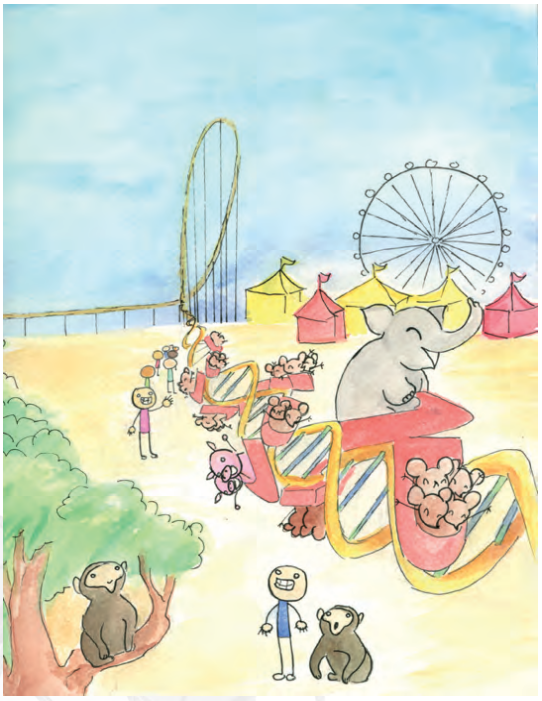
Todd Macfarlan, Ph.D

Stadtman Investigator

National Institute of Health

Zinc Finger Protein evolution against transposons and its impact on mammals

Thursday, December 13, 2018 - 4:00 PM
9-146 Smilow Center



Todd earned his Ph.D. in Cell and Molecular Biology from the University of Pennsylvania in 2000 working in the lab of Debu Chakravarti, studying the histone binding and transcriptional repressive activities of THAP domain proteins. After his Ph.D., Todd joined the laboratory of Samuel Pfaff at the Salk Institute for Biological Studies, where he explored the function of the histone demethylase LSD1 during mouse development, unexpectedly uncovering a role of LSD1 in the regulation Endogenous Retroviruses, and second, a role of Endogenous Retroviruses as maker genes for early stages of development. Todd was then recruited to the NIH in July 2012 as part of the Earl Stadtman Investigator search in Chromosome Biology and Epigenetics. Within the Division of Developmental Biology at the NICHD, Todd now heads the Unit on Mammalian Epigenome Reprogramming, spending most of his time exlporing the impact of Endogenous Retroviruses and their KRAB-zinc finger protein controllers on embryonic development on the evolution of new traits in mammals.

For more information contact
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or go to our website: https://hosting.med.upenn.edu/epigenetics/

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