QUANTITATIVE AND SYSTEMS BIOLOGY COLLOQUIUM:
Plasticity in T cell receptors is more evident than previously thought

Rob Miller
University of New Mexico

Date:
2/9/2024

Time:
12:30- 1:45PM

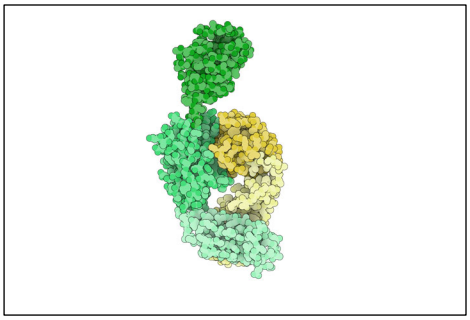
Location:
GRAN 135

About The Speaker:

Rob Miller has been a Professor of Biology at the University of New Mexico for nearly 30 years and has served as Department Chair and is the current Director of the Center for Evolutionary & Theoretical Immunology. In recent years, his research primarily focuses on the evolution of vertebrate immune systems and on unique T cell subsets found in non-eutherian mammals with the discovery of a novel T cell type. In addition, his laboratory has also used species like marsupials as models for a variety of research projects including spinal cord regeneration, maternal transfer of immunity, evolution of novel Major Histocompatibility molecules, and the evolution of mammalian placentation and parturition.

Abstract:

The evolution of the vertebrate immune system is a remarkable mix of overall conservation and lineage specific innovation. This seminar will present what has been discovered from studying non-model species of amniote vertebrates on what is conserved and what is not so conserved in the realm of antigen receptors. This will focus on primarily marsupial and monotreme mammals, and squamate reptiles.



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