

**Faculty Candidate Seminar**

***Mechanisms of genome scaling***

***during embryogenesis and evolution***

A diagram of a frog

Description automatically generated

Across the tree of life, genome size scales with nuclear size and cell size, yet underlying mechanisms are largely unknown. Using a combination of in vitro and in vivo approaches unique to the African clawed frog Xenopus laevis, we recently discovered the molecular mechanisms underlying how mitotic chromosomes scale in size during the rapid and reductive cell divisions in the early embryo. We are currently expanding our toolkit to study mechanisms of genome scaling across multiple spatial scales of chromatin organization and in the context of early vertebrate development, evolution and disease.

**Coral Zhou, PhD**

Postdoctoral Fellow, University of California, Berkeley

**Candidate for Assistant Professor, Molecular Biology & Genetics**

**Host:** Julie Claycomb, PhD

**Date: Thursday, May 9, 2024**

**Time: 2:00 p.m.**

**Location: Red Seminar Room Donnelly CCBR**