



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Frau M.Sc. Narges Jafari
Genetik & Epigenetik
(Prof. Dr. Jörn E. Walter)

am

Donnerstag, 28. Mai 2026, 10:00 Uhr s.t.

per Videokonferenz: Link für MS Teams: <https://kurzlinks.de/p400>

Raum für die Prüfung: Gebäude A2.4, Seminarraum 0.33, EG

Thema der Dissertation:

The absence of the oocyte-specific isoform of Tet3 causes epigenomic and transcriptomic changes that are partially transmitted to the next generation

Early embryonic development depends on extensive epigenetic reprogramming to reset parental genomes and activate the embryonic genome. Tet3 is known to play a key role in active DNA demethylation shortly after fertilization. This thesis investigates the role of the oocyte-specific Tet3 isoform (Tet3O) using a Tet3O knockout mouse model. Analyses of oocytes and early embryos revealed alterations in gene expression, DNA methylation, and chromatin accessibility. Tet3O deficiency caused transcriptional and epigenetic changes that persisted into early embryonic stages and were partially transmitted across generations, identifying Tet3O as an important regulator of the epigenetic landscape during early development.

Saarbrücken, 14. Mai 2026


Prof. Dr.-Ing. Georg Frey