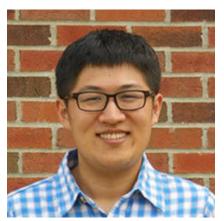
DR. ZHIYUAN CHEN

Postdoc: 2017-2022



CURRENT POSITION

Assistant Professor at Cincinnati Children's Hospital Medical Center (Cincinnati, OH)

PUBLICATIONS

- Inoue A, **Chen Z**, Yin Q, Zhang Y (2018) <u>Maternal Eed knockout causes loss of H3K27me3 imprinting and random X inactivation in the extraembryonic cells</u>. Genes & Development (32):1525-1536
- Zhang W, **Chen Z**, Yin Q, Zhang D, Racowsky C, Zhang Y (2019) <u>Maternal-biased</u>

 <u>H3K27me3 correlates with paternal-specific gene expression in the human morula</u>

 Genes & Development 33(7-8):382-387
- **Chen Z**, Zhang Y(2019) <u>Loss of DUX causes minor defects in zygotic genome activation</u> <u>and is compatible with mouse development</u>. Nature genetics, 51(6): 947-951
- **Chen Z**, Yin Q, Inoue A, Zhang C, Zhang Y (2019) <u>Allelic H3K27me3 to allelic DNA</u> <u>methylation switch maintains noncanonical imprinting inextraembryonic cells.</u> *Sci Adv.* 5(12)
- **Chen Z**, Zhang Y (2020) <u>Role of Mammalian DNA Methyltransferases in Development</u> *Annu Rev Biochem* 89:135-158

- **Chen Z**, Zhang Y (2020) <u>Maternal H3K27me3-dependent Autosomal and X</u> <u>Chromosome Imprinting</u> *Nat Rev Genet* 21:555-571
- **Chen Z**, Djekidel MN, Zhang Y (2021) <u>Distinct dynamics and functions of H2AK119ub1</u> and H3K27me3 in mouse preimplantation embryos *Nat Genet* 53(4):551-563
- **Chen Z**, Xie Z, Zhang Y (2021) <u>DPPA2 and DPPA4 are dispensable for mouse zygotic genome activation and pre-implantation development Development 148(24)</u>
- Chen R, Liu Y, Djekidel MN, Chen W, Bhattacherjee A, **Chen Z**, Scolnick E, Zhang Y (2022) <u>Cell type–specific mechanism of Setd1a heterozygosity in schizophrenia pathogenesis</u> *Science Advances* 8(9)
- Wang M, Chen Z, Zhang Y (2022) <u>CBP/p300 and HDAC activities regulate H3K27</u>
 acetylation dynamics and zygotic genome activation in mouse preimplantation embryos The EMBO Journal