Welcome to Chris Lau’s Laboratory

Y Chromosome Genes in Health and Diseases

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Y Chromosome Genes in Health and Diseases
Our research focuses on understanding the roles of Y chromosome genes, and their homologues, in mammalian development and their epigenetic regulation and dysfunctions contributing to both normal male development and human diseases. Our research efforts are currently on the following specific areas of investigation:

- Molecular mechanism of sex determination and differentiation - early stages of male sex differentiation
- Roles of the sex chromosomes in human cancers - how misbehavior of certain Y and X chromosome genes could exacerbate or suppress human tumor initiation and development
- Y chromosome and sexual dimorphisms in normal development, disease initiation and progression - brain structure, neurodevelopment, neurodegeneration, cognitive disorders, autism and somatic cancers with sex differences, such as liver cancer.
- Transgenic mouse models of human diseases

Various molecular genetics, genomics, proteomic and transgenic mouse strategies are utilized in our research.

Contact Information

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Society of Chinese Bioscientists in America: http://www.scbasociety.org
Cell & Bioscience Journal: https://cellandbioscience.biomedcentral.com

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