eMED Web Server Team

**Department:**

[University of Michigan, Ann Arbor, Department of Pathology](https://www.pathology.med.umich.edu/)

[Beijing Institutes of Life Science, Chinese Academy of Sciences](http://english.biols.cas.cn/)

[State Key Laboratory of Medical Genetics of China, School of Life Sciences, Central South University](http://sklmg.csu.edu.cn/?l=en-us)

**Research Interest:**

Genetics & Epigenetics, Embryo Development, Stem Cell, Neuropsychiatric Disorders, Leukemia Cell

**Description:**

Our lab is dedicated to complex disease study by focusing on development of biological databases by large-scale data integration and data mining, and development of bioinformatics tools and web servers to facilitate researchers to analyze the epigenetic, genetic and regulatory data of complex diseases. We mainly focus on genetics and epigenetics of early embryo development, stem cell, neuropsychiatric disorders, leukemia cell. Our published disease related databases include a genetic resource for genes and mutations related to epilepsy ([EpilepsyGene](http://61.152.91.49/EpilepsyGene/), 2014), database of de novo mutation for four neuropsychiatric disorders ( [NPdenovo](http://www.wzgenomics.cn/NPdenovo/index.php), 2015) and functional variants database involved in post-transcriptional regulation mediated by RNA-binding ([RBP-Var](http://www.rbp-var.biols.ac.cn/), 2016). Our published web servers for next generation sequencing (NGS) data analysis include [(mirTools](http://centre.bioinformatics.zj.cn/mirtools/), 2010), [(Exome-assistant](http://www.wzgenomics.cn/exomeassistant/index.php), 2012), [(RRBS-analyzer](http://www.wzgenomics.cn/RRBSAnalyser/index.php), 2013), [(mirTools 2.0](http://centre.bioinformatics.zj.cn/mr2_dev), 2013). Our published bioinformatics tools include [(MagicViewer](http://bioinformatics.zj.cn/magicviewer/), 2010), [(Bycom](http://sourceforge.net/projects/bycom/), 2014), [(MBRidge](http://sourceforge.net/projects/mbridge/), 2015) and [(swDMR](https://github.com/xflicsu/swDMR), 2015).

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