

CHENGXI (TRACY) TAN

Shanghai Jiao Tong University School of Medicine, 227 South Chong Qing Rd. Shanghai 200025

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Research Interests: Neurodevelopmental diseases and neural network assembly

EDUCATION / TRAINING

2016-Present **Ottawa-Shanghai Joint School of Medicine**

University of Ottawa, Ontario, Canada

Exchange Student, GPA 4.0/4.0 (All A+) [\[transcript\]](#)

Highlighted Course: Psychology (97)

Clinical rotations in Forensic Psychiatry at the Royal Ottawa Mental Care & Research and Medical Genetics at Children's Hospital of Eastern Ontario

2015-Present **Shanghai Jiao Tong University School of Medicine, China**

Joint Program with uOttawa, M.D. Candidate expected in 2020, Academic Distinction

Highlighted Courses: Biochemistry (100), Cell Biology (98)

Clerkship rotations as **group leader**

- **Shanghai Mental Health Center**
 - Child, Adolescent and Geriatric Psychiatry, Mood Disorders
- **Shanghai Children's Medical Center**
 - Developmental and Behavioral Pediatrics, Neonatal Intensive Care Unit and Pediatric Neurosurgery
- **Shanghai Renji Hospital**

RELEVANT RESEARCH EXPERIENCE

2019-Present Undergraduate Research at **Institute of Neuroscience**, Chinese Academy of Science

- Supervisor: [Jie He, Ph.D. \[lab website\]](#)
- Neuronal fate determination and asymmetrical cell division in the retina
- Mastered techniques of **virus-mediated neural circuit tracing**, plasmid construction, microinjection of zebrafish embryos and **confocal imaging** of the retina.

2018-Present Undergraduate Thesis at **Institute of Embryo-Fetal Original Adult Disease**

The International Peace Maternity and Child Health Hospital, Shanghai

- Project 1: Molecular mechanisms of cognition anomalies of offspring exposed to adverse intrauterine environment
- Project 2: Transgenerational (F1 and F2) impact of circadian disruption on the neurodevelopment of mouse offspring (embryo and gamete origin of adult psychiatric disorders)
- **Bioinformatics**, neuron culture from fetal mouse hippocampus and open field test.

Summer 2018 **University of Nebraska Medical Center (UNMC) Summer Research** Omaha, NE

- Advisors: [Gurudutt Pendyala, Ph.D.](#), Sowmya Yelamanchili, Ph.D.
- Project 1: *In utero* and post-partum impact of narcotic drugs on the synaptogenesis of newborns rats
- Project 2: Role of extracellular vesicles in methamphetamine induced neurotoxicity
- Mass spectrometry, molecular assay, primary neuron culture from rat prefrontal cortices, immunocytochemistry, exosome isolation and marble burying assay.
- Mentored undergraduate students.

- 2017-2019 **SJTU Undergraduate Research Training Program in Neuroscience**
- Advisor: Weifang Rong, Ph.D., Department of Physiology, SJTU School of Medicine
 - Project: G Protein-coupled Estrogen Receptor GPER1: Its Effect on Pilocarpine Induced Epilepsy.
 - Performed immunohistochemistry and Nissl staining of brain slices.

FELLOWSHIPS / AWARDS

- 2016-2019 Academic Excellence at SJTU
- 2016/10 Merit Student Award of SJTU **Top 5%**
- 2016/08 US Medical College Admission Test (MCAT)

PUBLICATIONS / PRESENTATION / POSTER

- Lee S, **Tan C** (2018) Transvaginal Natural Orifice Transluminal Endoscopic Surgery (vNOTES) Ovarian Cystectomy. **CA-AMIGO** (Conference Abstract)
- Hysteroscopy in Recurrent Spontaneous Abortion: A Large-Scale Retrospective Cohort Study. The 3rd Pujiang International Summit of Reproductive Immunology, Shanghai, China, November, 2018
- **Tan C**, et al. Oxycodone Dependency and Neurodevelopment, UNMC, Omaha, NE, September, 2018 ([Selected Presenter](#))
- Intergenerational effect on the cognition of male offspring exposed to intrauterine hyperglycemia (In Preparation)
- Chen Q*, **Tan C***, Gui Y*, Hu W*, Wu M*, Gao P, Rong W Estrogen and Estrogen Receptors: Their Effects on Epilepsy (In Preparation)
- The Role of Cervical Cerclage in Recurrent Spontaneous Abortion Patients with Cervical Incompetence (In Preparation)

EXTRACURRICULAR ACTIVITIES

- 2019/05 Thesis defense secretary at Renji Hospital, for SJTU Class of 2019
- 2019/04 23rd International Federation of Fertility Societies World Congress
- 2018/10 **“Rare Aware”** Rare Disease Innovation Workshop
- Collaborated with news editors and undergraduate students majoring in media from Fudan University
- 2018/07 Forum of Rainbow (Genetic Conference) Boston, MA
- Boston Children’s Hospital and Brigham and Women’s Hospital
- 2015-Present Clinical electives
- Reproductive genetic counselling sessions, prenatal diagnosis consults and pediatric endocrine, genetic and metabolic clinics
- 2015-Present Volunteer at Hongkou District Disabled Person’s Federation, Shanghai
- Teach baking skills and Ping-Pong to residents with intellectual disabilities
- 2015-Present **Editor-in-Chief** for *Murmurs*
- Medical humanities journal jointly run by students from uOttawa and SJTUSM