CHENGXI (TRACY) TAN

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Research Interest: Expand the dCas9, dCas12 and dCas13 toolbox

EDUCATION / TRAINING

2016-2020 Ottawa-Shanghai Joint School of Medicine

University of Ottawa, Ontario, Canada Exchange Student, [transcript]

Highlighted Course: Psychology; Clinical Rotations: Medical Genetics at Children's

Hospital of Eastern Ontario

2015-2020 Shanghai Jiao Tong University School of Medicine, China

Joint Program with uOttawa, MBBS expected in 2020

Academic Distinction

- Highlighted Courses: Metabolic Biochemistry, Cell Biology, Biostatics, Advanced Reproductive Medicine (Grad course)
- 52 weeks of clerkship rotations as **group leader** at Shanghai Mental Health Center, Shanghai Children's Medical Center and Shanghai Renji Hospital

RELEVANT RESEARCH EXPERIENCE

2019-Present Undergraduate Research at Center for Excellence in Brain Science and Intelligence Technology (CEBSIT), Chinese Academy of Science

- Supervisor: Jie He, Ph.D. [lab website]
- Project 1: Enhancer RNA regulated transcription activation in retinal cell fate determination

Skills: rt-PCR and in situ hybridization

 Project 2: Live imaging of nascent RNAs in asymmetric divisions of zebrafish neural progenitor cells

Tested 4 live imaging systems: 124xMBSV6-MCP, 2dCas13b+SgRNA, 3RNA aptamer (HBC)+pepper, 4tDeg (Pepper RNA-regulated protein destabilization domain)

2018-2019 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 in 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, cell culture of newborn mouse hippocampal neurons.

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

- Advisors: <u>Gurudutt Pendyala, Ph.D.</u>, 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

2015-2020	Academic Excellence at SJTU	
2016/10	Merit Student Award of SJTU	Top 5%
2016/08	US Medical College Admission Test (MCAT)	

PUBLICATIONS (* represents equal contributions.)

- Ye, T., <u>Tan, C.</u>, Wang, H., Bai, W., Zhao, A., Zhu, J. (2020) Role of the hysteroscopy in management of the female recurrent spontaneous abortion and infertility, **Journal of Shanghai Jiaotong University Medical Science** (Under Review)
- Zou, K., Ren, J., Zhang, J., Zhou, C., Luo, S., <u>Tan, C.</u>, Lv, P., Sun, X., Sheng, J., Huang, H., Liu, X., Ding, G. (2020) Intergenerational neurocognitive effects of intrauterine hyperglycemia on male offspring, **Science Bulletin** (Under Review)
- Chen, Q.*, Gui, Y.*, Hu, W.*, <u>Tan, C.*</u>, Wu, M.*, Gao, P. and Rong, W. Estrogen and Estrogen Receptors: Their Effects on Epilepsy (In Preparation)

ABSTRACTS / CONFERENCE PRESENTATIONS / POSTER

- Li, Y., <u>Tan, C.</u>, and He, J. Identification of Novel Starburst Amacrine Types in Zebrafish Retina, Institute of Neuroscience, **CEBSIT Annual Meeting**, **Shanghai**, 2019 (Conference Presentation)
- Lee, S., and <u>Tan, C.</u> Transvaginal Natural Orifice Transluminal Endoscopic Surgery (vNOTES)
 Ovarian Cystectomy. **CA-AMIGO**, 2018 (Conference Abstract)
- <u>Tan, C.</u>, Guda, R.S. and Pendyala, G. Oxycodone Dependency and Neurodevelopment, UNMC,
 Omaha, NE, September, 2018 (Selected Presenter)

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	
2015-2020	Clinical electives	
	 Reproductive genetic counselling sessions, prenatal diagnosis consults and pediatric endocrine, genetic and metabolic clinics 	
2015-2020	Volunteer at Hongkou District Disabled Person's Federation, Shanghai	
	Teach baking skills and Ping-Pong to residents with intellectual disabilities	
2015-2019	Editor-in-Chief for Murmurs	
	Medical humanities journal jointly run by students from uOttawa and SJTUSM	