



Cheng-Yu Olivia Tsai

Sr. Research Scientist, Pediatrics - Gastroenterology

Bio

HONORS AND AWARDS

- Amin Tjota Award for Excellence in Pancreatic Research Prize, NASPGHAN (2024)
- Amin Tjota Award for Excellence in Pancreatic Research Prize, NASPGHAN (2022)
- National Pancreas Foundation Award for the Best Paper in Pancreatitis, American Pancreatic Association (2021)

EDUCATION AND CERTIFICATIONS

- PhD, University of Texas MD Anderson Cancer Center

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, American Pancreatic Association (APA) (2019 - present)
- Member, American Association for Cancer Research (AACR) (2004 - 2019)

Publications

PUBLICATIONS

- **Rectal administration of tacrolimus protects against post-ERCP pancreatitis in mice.** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*
Lin, Y. C., Ni, J., Swaminathan, G., Khalid, A., Barakat, M. T., Frymoyer, A. R., Tsai, C. Y., Ding, Y., Murayi, J. A., Jayaraman, T., Poropatich, R., Bottino, R., Wen, et al
2023
- **Preclinical safety evaluation of calcineurin inhibitors delivered through an intraductal route to prevent post-ERCP pancreatitis demonstrates endocrine and systemic safety.** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*
Ni, J., Khalid, A., Lin, Y. C., Barakat, M. T., Wang, J., Tsai, C. Y., Azar, P. R., Ding, Y., Murayi, J. A., Jayaraman, T., Poropatich, R., Bottino, R., Wen, et al
2023
- **A systems approach points to a therapeutic role for retinoids in asparaginase-associated pancreatitis.** *Science translational medicine*
Tsai, C. Y., Saito, T., Sarangdhar, M., Abu-El-Haija, M., Wen, L., Lee, B., Yu, M., Lipata, D. A., Manohar, M., Barakat, M. T., Contrepolis, K., Tran, T. H., Theoret, et al
2023; 15 (687): eabn2110
- **Single-cell characterization of step-wise acquisition of carboplatin resistance in ovarian cancer.** *NPJ systems biology and applications*
Wenzel, A. T., Champa, D., Venkatesh, H., Sun, S., Tsai, C., Mesirov, J. P., Bui, J. D., Howell, S. B., Harismendy, O.
2022; 8 (1): 20
- **Vitamin A and association with asparaginase-associated pancreatitis in children with acute lymphocytic leukemia.**

Tsai, C., Saito, T., Sarangdhar, M., Abu-El-Haija, M., Wen, L., Lee, B., Manohar, M., Barakat, M. T., Contrepois, K., Bo, N., Ding, Y., Stevenson, K. E., Ladas, et al
LIPPINCOTT WILLIAMS & WILKINS.2022

- **Impact of acute lymphoblastic leukemia induction therapy: findings from metabolomics on non-fasted plasma samples from a biorepository.** *Metabolomics : Official journal of the Metabolomic Society*
Saito, T., Wei, Y., Wen, L., Srinivasan, C., Wolthers, B. O., Tsai, C., Harris, M. H., Stevenson, K., Byersdorfer, C., Oparaji, J., Fernandez, C., Mukherjee, A., Abu-El-Haija, et al
2021; 17 (7): 64
- **The role of asparagine synthetase on nutrient metabolism in pancreatic disease.** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*
Tsai, C. Y., Kilberg, M. S., Husain, S. Z.
2020
- **APTO-253 Stabilizes G-quadruplex DNA, Inhibits MYC Expression, and Induces DNA Damage in Acute Myeloid Leukemia Cells** *MOLECULAR CANCER THERAPEUTICS*
Local, A., Zhang, H., Benbatoul, K. D., Folger, P., Sheng, X., Tsai, C., Howell, S. B., Rice, W. G.
2018; 17 (6): 1177–86
- **APTO-253 Is a New Addition to the Repertoire of Drugs that Can Exploit DNA BRCA1/2 Deficiency** *MOLECULAR CANCER THERAPEUTICS*
Tsai, C., Sun, S., Zhang, H., Local, A., Su, Y., Gross, L. A., Rice, W. G., Howell, S. B.
2018; 17 (6): 1167–76
- **Copper transporters and chaperones CTR1, CTR2, ATOX1, and CCS as determinants of cisplatin sensitivity** *METALLOMICS*
Bompiani, K. M., Tsai, C., Achatz, F. P., Liebig, J. K., Howell, S. B.
2016; 8 (9): 951–62
- **The copper transporter 1 (CTR1) is required to maintain the stability of copper transporter 2 (CTR2)** *METALLOMICS*
Tsai, C., Liebig, J. K., Tsigelny, I. F., Howell, S. B.
2015; 7 (11): 1477–87
- **Molecular modulation of the copper and cisplatin transport function of CTR1 and its interaction with IRS-4** *BIOCHEMICAL PHARMACOLOGY*
Tsai, C., Larson, C. A., Safaei, R., Howell, S. B.
2014; 90 (4): 379–87
- **Characterization of a monoclonal antibody capable of reliably quantifying expression of Human Copper Transporter 1 (hCTR1)** *JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY*
Quail, J. F., Tsai, C., Howell, S. B.
2014; 28 (2): 151–59
- **Copper influx transporter 1 is required for FGF, PDGF and EGF-induced MAPK signaling** *BIOCHEMICAL PHARMACOLOGY*
Tsai, C., Finley, J., Ali, S. S., Patel, H. H., Howell, S. B.
2012; 84 (8): 1007–13
- **TRIM24 links a non-canonical histone signature to breast cancer** *NATURE*
Tsai, W., Wang, Z., Yiu, T. T., Akdemir, K. C., Xia, W., Winter, S., Tsai, C., Shi, X., Schwarzer, D., Plunkett, W., Aronow, B., Gozani, O., Fischle, et al
2010; 468 (7326): 927-U320
- **Targeting DNA Repair in Chronic Lymphocytic Leukemia Cells with a Novel Acyclic Nucleotide Analogue, GS-9219** *CLINICAL CANCER RESEARCH*
Tsai, C., Ray, A. S., Tumas, D. B., Keating, M. J., Reiser, H., Plunkett, W.
2009; 15 (11): 3760–69