

Stanford



Miao-Chih Tsai

Scientific Director, Dermatology

Bio

BIO

As the Scientific Director of RNA Medicine Program at Stanford University, Dr. Miao-Chih Tsai leads and manages research portfolio of RNA Medicine Program. Before this role, she was a senior editor of Cell. Dr. Tsai was trained as a scientist at University of Cambridge and Stanford University, and had over a decade of experience in evaluating the top developments in biomedical research. Having experienced its power to inspire, she is an ardent proponent of science and strives to directly promote further advancements and shape the direction of biomedical research, with a goal of therapeutic application and patient impact.

HONORS AND AWARDS

- Corpus Christi College Research Scholarship, University of Cambridge (2002-2006)
- University of Cambridge Overseas Trust Scholarship, University of Cambridge (2002-2006)
- Dean's Fellowship, Stanford University (2008-2009)
- Postdoctoral fellowship, Taiwan National Science Foundation (2009)
- Postdoctoral Fellowship, Susan G. Komen (2009-2012)

EDUCATION AND CERTIFICATIONS

- Ph.D., University of Cambridge, Genetics (2006)
- M.Sc., National Taiwan University (2000)

Publications

PUBLICATIONS

- **Long Intergenic Noncoding RNAs: New Links in Cancer Progression** *CANCER RESEARCH*
Tsai, M., Spitale, R. C., Chang, H. Y.
2011; 71 (1): 3-7
- **Long Noncoding RNA as Modular Scaffold of Histone Modification Complexes** *SCIENCE*
Tsai, M., Manor, O., Wan, Y., Mosammaparast, N., Wang, J. K., Lan, F., Shi, Y., Segal, E., Chang, H. Y.
2010; 329 (5992): 689-693
- **Tumor suppression by the histone demethylase UTX** *CELL CYCLE*
Tsai, M., Wang, J. K., Chang, H. Y.
2010; 9 (11): 2043-2044
- **Long non-coding RNA HOTAIR reprograms chromatin state to promote cancer metastasis** *NATURE*
Gupta, R. A., Shah, N., Wang, K. C., Kim, J., Horlings, H. M., Wong, D. J., Tsai, M., Hung, T., Argani, P., Rinn, J. L., Wang, Y., Brzoska, P., Kong, et al
2010; 464 (7291): 1071-U148

- **The histone demethylase UTX enables RB-dependent cell fate control** *GENES & DEVELOPMENT*
Wang, J. K., Tsai, M., Poulin, G., Adler, A. S., Chen, S., Liu, H., Shi, Y., Chang, H. Y.
2010; 24 (4): 327-332
- **Microtubules are involved in anterior-posterior axis formation in C-elegans embryos** *JOURNAL OF CELL BIOLOGY*
Tsai, M., Ahringer, J.
2007; 179 (3): 397-402
- **The C-elegans hook protein, ZYG-12, mediates the essential attachment between the centrosome and nucleus** *CELL*
Malone, C. J., Misner, L., Le Bot, N., Tsai, M. C., Campbell, J. M., Ahringer, J., White, J. G.
2003; 115 (7): 825-836
- **TAC-1, a regulator of microtubule length in the C-elegans embryo** *CURRENT BIOLOGY*
Le Bot, N., Tsai, M. C., Andrews, R. K., Ahringer, J.
2003; 13 (17): 1499-1505
- **C-elegans CED-12 acts in the conserved CrkII/DOCK180/Rac pathway to control cell migration and cell corpse engulfment** *DEVELOPMENTAL CELL*
Wu, Y. C., Tsai, M. C., Cheng, L. C., Chou, C. J., Weng, N. Y.
2001; 1 (4): 491-502