



## Mingyu Chung

Postdoctoral Research Fellow, Neurology and Neurological Sciences

 Curriculum Vitae available Online

### Bio

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , CSB-PHD (2019)
- Bachelor of Science, University of Michigan Ann Arbor , Electrical Engineering (2003)
- Ph.D., Stanford University School of Medicine , Chemical and Systems Biology (2019)
- B.S.E., University of Michigan at Ann Arbor , Electrical Engineering (2003)

#### STANFORD ADVISORS

- Thomas Rando, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Regulation of cell cycle and quiescence in tissue regeneration, homeostasis, and aging.

### Publications

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#### PUBLICATIONS

- **Stress-mediated exit to quiescence restricted by increasing persistence in CDK4/6 activation.** *eLife*  
Yang, H. W., Cappell, S. D., Jaimovich, A., Liu, C., Chung, M., Daigh, L. H., Pack, L. R., Fan, Y., Regot, S., Covert, M., Meyer, T.  
2020; 9
- **Altered G1 signaling order and commitment point in cells proliferating without CDK4/6 activity.** *Nature communications*  
Liu, C., Konagaya, Y., Chung, M., Daigh, L. H., Fan, Y., Yang, H. W., Terai, K., Matsuda, M., Meyer, T.  
2020; 11 (1): 5305
- **Transient Hysteresis in CDK4/6 Activity Underlies Passage of the Restriction Point in G1.** *Molecular cell*  
Chung, M., Liu, C., Yang, H. W., Koberlin, M. S., Cappell, S. D., Meyer, T.  
2019
- **An intrinsic S/G2 checkpoint enforced by ATR.** *Science (New York, N.Y.)*  
Saldivar, J. C., Hamperl, S., Bocek, M. J., Chung, M., Bass, T. E., Cisneros-Soberanis, F., Samejima, K., Xie, L., Paulson, J. R., Earnshaw, W. C., Cortez, D., Meyer, T., Cimprich, et al  
2018; 361 (6404): 806–10
- **Stochastic Endogenous Replication Stress Causes ATR-Triggered Fluctuations in CDK2 Activity that Dynamically Adjust Global DNA Synthesis Rates.** *Cell systems*  
Daigh, L. H., Liu, C., Chung, M., Cimprich, K. A., Meyer, T.  
2018

- **Transcription-coupled changes in nuclear mobility of mammalian cis-regulatory elements** *SCIENCE*  
Gu, B., Swigut, T., Spencley, A., Bauer, M. R., Chung, M., Meyer, T., Wysocka, J.  
2018; 359 (6379): 1050–55
- **A Transcriptional Circuit Filters Oscillating Circadian Hormonal Inputs to Regulate Fat Cell Differentiation.** *Cell metabolism*  
Bahrami-Nejad, Z. n., Zhao, M. L., Tholen, S. n., Hunerdosse, D. n., Tkach, K. E., van Schie, S. n., Chung, M. n., Teruel, M. N.  
2018; 27 (4): 854–68.e8
- **Competing memories of mitogen and p53 signalling control cell-cycle entry** *NATURE*  
Yang, H., Chung, M., Kudo, T., Meyer, T.  
2017; 549 (7672): 404+
- **A map of protein dynamics during cell-cycle progression and cell-cycle exit** *PLOS BIOLOGY*  
Gookin, S., Min, M., Phadke, H., Chung, M., Moser, J., Miller, I., Carter, D., Spencer, S. L.  
2017; 15 (9): e2003268
- **Engulfed cadherin fingers are polarized junctional structures between collectively migrating endothelial cells** *NATURE CELL BIOLOGY*  
Hayer, A., Shao, L., Chung, M., Joubert, L., Yang, H. W., Tsai, F., Bisaria, A., Betzig, E., Meyer, T.  
2016; 18 (12): 1311-?
- **Fluorescent indicators for simultaneous reporting of all four cell cycle phases.** *Nature methods*  
Bajar, B. T., Lam, A. J., Badiee, R. K., Oh, Y., Chu, J., Zhou, X. X., Kim, N., Kim, B. B., Chung, M., Yablonovitch, A. L., Cruz, B. F., Kulalart, K., Tao, et al  
2016
- **Irreversible APC(Cdh1) Inactivation Underlies the Point of No Return for Cell-Cycle Entry** *CELL*  
Cappell, S. D., Chung, M., Jaimovich, A., Spencer, S. L., Meyer, T.  
2016; 166 (1): 167-180