

JIA-YUN CHEN

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EDUCATION

- 2004 - 2012 **Ph.D.** Chemical and Systems Biology. Stanford University
2000 - 2002 **M.S.** Molecular Medicine. College of Medicine, National Taiwan University, Taiwan
1996 - 2000 **B.S.** Zoology with Honors. National Taiwan University, Taiwan.

RESEARCH EXPERIENCE

- 2013/10 - now **Postdoctoral Research.** Molecular dynamics of oncogene-induced senescence.
Advisor: Dr. Galit Lahav and Dr. Peter Sorger. Laboratory of Systems Pharmacology and
Department of Systems Biology, Harvard Medical School.
- 2012/10 - 2013/9 **Postdoctoral Research.** Elucidating the molecular mechanisms of G1 cell cycle control.
Advisor: Dr. Tobias Meyer. Department of Chemical and Systems Biology, Stanford
University.
- 2005 - 2012/9 **Doctoral Research.** Systems-level understanding of signaling regulation on the cell fate
decision between proliferation and differentiation.
Advisor: Dr. Tobias Meyer. Department of Chemical and Systems Biology, Stanford
University.
- 2002 - 2004 **Research Assistant.** Identification and genetic characterization of a novel pro-apoptotic
gene eIF3K in *C. elegans*.
Advisor: Dr. Yi-Chun Wu. Institute of Molecular and Cellular Biology, National Taiwan
University, Taiwan.
- 2000 - 2002 **Masters Research.** Dissecting the role of DAP-kinase in *C. elegans* programmed cell death.
Advisors: Dr. Ruey-Hwa Chen and Dr. Yi-Chun Wu. Institute of Molecular Medicine and
Institute of Molecular and Cellular Biology, National Taiwan University, Taiwan.
- 1999 - 2000 **Undergraduate Research.** Search for DAP-kinase downstream signaling targets under
apoptotic stimuli.
Advisor: Dr. Ruey-Hwa Chen. Institute of Molecular Medicine, National Taiwan University,
Taiwan.

WORK, TEACHING, and ADVISING EXPERIENCE

- 2009 **Teaching Assistant** for Cell Signaling (CASB 210). Course director: Dr. James Ferrell.
Department of Chemical and Systems Biology, Stanford.
- 2008 - 2009 **Rotation Mentor.** Advised 2 Ph.D. rotation students. Meyer lab, Stanford.
- 2002 - 2004 **Research Assistant.** Advisors: Dr. Ruey-Hwa Chen and Dr. Yi-Chun Wu, National Taiwan
University, Taiwan.

HONORS and AWARDS

- 2014 -2017 **Jane Coffin Childs Postdoctoral Fellowship**
- 2012 **Best Paper Award.** Department of Chemical and Systems Biology Retreat, Stanford.
- 2011 **Outstanding Student Poster Presentation.** Department of Chemical and Systems Biology
Retreat, Stanford.
- 2009 **Outstanding Student Talk.** Department of Chemical and Systems Biology Retreat,
Stanford.
- 2004 - 2007 **Stanford Graduate Fellowship** in Science and Engineering, Stanford.
- 2003 **Outstanding Poster Presentation & Travel Award.** International *C. elegans* Conference
14th annual meeting sponsored by the Genetics Society of America, UCLA
- 2003 **Poster Award.** The 11th Symposium on Recent Advances in Cellular and Molecular

JIA-YUN CHEN

- 2002 Biology sponsored by the Chinese Society of Cell and Molecular Biology
Honorary Member of the Phi Tau Phi Scholastic Honor Society of Taiwan
- 2002 **Poster Award**. The 10th Symposium on Recent Advances in Cellular and Molecular Biology sponsored by the Chinese Society of Cell and Molecular Biology, Taiwan
- 1999 - 2000 **Undergraduate Research Fellowship** sponsored by National Science Council, Taiwan
- 1996 - 2000 **President's Awards** for Academic Performance (8 times winner), National Taiwan - University, Taiwan
- 1996 - 2000 **Scholarship of National Gifted Student** in Biology sponsored by Ministry of Education, Taiwan

PUBLICATIONS

8. Lin JR, Fallahi-Sichani M, Chen JY, Sorger PK. Cyclic Immunofluorescence (CycIF), A Highly Multiplexed Method for Single-cell Imaging (2016). **Curr Protoc Chem Biol.** 8(4):251-264.
7. Chen JY, Lin JR, Tsai FC, and Meyer T. Dosage of Dyrk1a shifts cells within a p21-cyclin D1 signaling map to control the decision to enter the cell cycle (2013). **Molecular Cell.** 52(1):87-100.
6. Zhang K, Fishel Ben Kenan R, Osakada Y, Xu W, Sinit RS, Chen L, Zhao X, Chen JY, Cui B, Wu C. Defective Axonal Transport of Rab7 GTPase Results in Dysregulated Trophic Signaling. **Journal of Neuroscience.** 33(17):7451-62.
5. Huang CY, Chen JY, Wu SC, Tan CH, Tseng RY, Lu PJ, Wu YF, Chen RH, Wu YC. *C. elegans* EIF-3.K promotes programmed cell death through CED-3 caspase (2012). **PLoS ONE.** 7(5):e36584. Epub 2012 May 9.
4. Chen JY, Lin JR, Cimprich KA, and Meyer T. A two dimensional ERK-AKT signaling code for an NGF-triggered cell fate decision (2012). **Molecular Cell.** 45(2):196-209.
Selected as "Featured Article"
Highlighted in *Molecular Cell* "Previews"
Kumar RM, Collins JJ. Cellular signal processing: out of one, many (2012). *Molecular Cell.* 45(2):143-144.
3. Lin JR, Zeman MK, Chen JY, Yee MC, Cimprich KA. SHPRH and HLTf act in a damage-specific manner to coordinate different forms of postreplication repair and prevent mutagenesis (2011). **Molecular Cell.** 42(2):237-49.
2. Wang X, Wu YC, Fadok VA, Lee MC, Gengyo K, Cheng LC, Ledwich D, Hsu PK, Chen JY, Chou BK, Henson P, Mitani S, Xue D. *C. elegans* Phosphatidylserine receptor acts through CED-5/CED-12 to mediate cell corpse engulfment (2003). **Science.** 302: 1563-1566.
1. Jang CW, Chen CH, Chen CC, Chen JY, Su YH, Chen RH. TGF-beta induces apoptosis through Smad-mediated expression of DAP-kinase (2002). **Nature Cell Biology.** 4(1):51-8.

TALKS and PRESENTATIONS

- Selected short talk, International Conference on Systems Biology of Human Disease Conference, June 2016.
- Selected short talk, International Conference on Systems Biology of Human Disease Conference, June 2014.
- Selected long talk, Annual Boston Taiwanese Biotechnology Symposium, June 2014.
- Invited talk, Institute of Molecular Medicine, National Taiwan University, Taiwan, Feb. 2014.
- Invited talk, Annual Meeting of NDC for the Optical Control of Biological Function, Nov. 2011.

JIA-YUN CHEN

- Poster, Gordon Research Conference for Cell Growth & Proliferation, June 2011.
- Poster, Bio-X & Amgen Symposium, Nov. 2010.
- Poster, Gordon Research Conference for Cell Growth & Proliferation, July 2009.
- Poster, Gordon Research Conference for Neurotrophic Factors, Jun 2007.
- Poster, International *C.elegans* Conference at UCLA, Los Angeles, CA, July 2003

RELEVANT SKILLS

Molecular biology, Cell biology, Biochemistry, Bioinformatics, Primary neuron dissections/neural stem cell cultures, Large-scale diced siRNA library synthesis, High-throughput screening, High-content imaging analysis, Large-scale multi-parameter data analysis, Single-cell tracking and quantitative image analysis, Worm and fly genetics; Proficient in MATLAB, ImageJ.

REFERENCES

1. Tobias Meyer, Ph.D.
Professor and Chair, Department of Chemical and Systems Biology,
Stanford University
Phone: 650-725-6926
E-mail: tobiasmeyer@stanford.edu
2. Karlene A. Cimprich, Ph.D.
Associate Professor, Department of Chemical and Systems Biology,
Stanford University
Phone: 650-498-4720
E-mail: cimprich@stanford.edu
3. James K. Chen, Ph.D.
Associate Professor, Department of Chemical and Systems Biology,
Stanford University
Phone: 650-725-3582
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