



Alice Ting

Professor of Genetics, of Biology and, by courtesy, of Chemistry

Bio

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Professor, Biology
- Professor (By courtesy), Chemistry
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Professor of Genetics, Biology, and by courtesy, Chemistry, Stanford University, (2016- present)
- Investigator, Chan Zuckerberg Biohub - San Francisco, (2017- present)
- Professor of Chemistry, MIT, (2014-2016)
- Associate Professor of Chemistry, MIT, (2007-2014)
- Assistant Professor of Chemistry, MIT, (2002-2007)

HONORS AND AWARDS

- Elected Member, National Academy of Medicine (2025)
- Honorary Fellow, Chinese Chemical Society (2025)
- Honorary doctorate, Icahn School of Medicine at Mt. Sinai (2024)
- Elected Member, National Academy of Sciences (2023)
- NIH Director's Transformative Research Award, NIH (2018)
- Chan Zuckerberg Biohub Investigator, Chan Zuckerberg Biohub (2017)
- NIH Director's Transformative Research Award, NIH (2013)
- HHMI Collaborative Innovation Award, HHMI (2012)
- Prize for Creative Promise in Biomedical Science, Vilcek Foundation (2012)
- Ellen Swallow Richards Chair, MIT (2011)
- Arthur C. Cope Scholar Award, American Chemical Society (2010)

- Eli Lilly Award in Biological Chemistry, American Chemical Society (2010)
- NIH Director's Pioneer Award, NIH (2008)
- Buck-Whitney Award, American Chemical Society (2007)
- Camille Dreyfus Teacher-Scholar Award, Dreyfus Foundation (2006)
- Technology Review TR35 Award, MIT (2006)
- Alfred P. Sloan Foundation Research Fellowship, Sloan Foundation (2005)
- McKnight Technological Innovations in Neuroscience Award, McKnight Foundation (2005)
- EJLB Foundation Scholar Research Program Award, EJLB Foundation (2003)
- NIH K22 Career Development Award, NIH (2003)
- Young Investigator Award, Office of Naval Research (2003)
- Camille and Henry Dreyfus New Faculty Award, Dreyfus Foundation (2002)
- Pfizer-Laubach Career Development Chair, MIT (2002)

PROFESSIONAL EDUCATION

- Post-doc, University of California, San Diego , Biochemistry (advisor: Roger Tsien) (2002)
- Ph.D., University of California, Berkeley , Chemistry (advisor: Peter Schultz) (2000)
- A.B., Harvard University , Chemistry (advisor: E. J. Corey) (1996)
- High school, Texas Academy of Math and Science (1992)

LINKS

- Laboratory website: <http://www.tinglab.org>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The goal of our laboratory is to develop and disseminate molecular technologies for improving the study of living cells and neurons. We are best known for the development of proximity labeling (PL) for spatial mapping of proteomes, interactomes, and transcriptomes in living cells and animals. Our engineered PL enzymes APEX2, TurboID, and miniTurbo are widely used in academic and industrial labs across the world. In addition, we have created numerous other technologies including: calcium integrators for stable tagging of activated neural ensembles, genetically-encoded probes for electron microscopy, fluorophore ligases for site-specific protein labeling with chemical probes in living cells, monovalent streptavidin, and synthetic GPCRs for programmable antigen sensing and control of cell behavior.

The core capabilities of our lab are protein engineering, directed evolution, enzyme biochemistry, chemical synthesis, computational protein design, proteomics, and transcriptomics. We also apply our new technologies to biological problems related to mitochondria, neuroscience, and immunology, within our own lab and via extensive collaborations with other groups.

Teaching

COURSES

2024-25

- Synthetic proteins and genetic circuits: BIO 246, BIOE 266, GENE 246 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Harrison Besser, Xinyi Chen, Yixin Hu, Jingjia Liu, Camille Petrakian

Postdoctoral Faculty Sponsor

Bo Cai, Shizhong Dai, Yi Hua, Gabriele Kockelkoren, Sangsin Lee, Chang Lin, Ana Novacic, Reika Tei, Shang Jui Tsai

Doctoral Dissertation Advisor (AC)

Sophia Chen, Zhaoyang Li, Andrew Xue

Undergraduate Major Advisor

Johnathan Le

Publications

PUBLICATIONS

- **Computational design of conformation-biasing mutations to alter protein functions.** *Science (New York, N.Y.)*
Cavanagh, P. E., Xue, A. G., Dai, S. A., Qiang, A., Matsui, T., Ting, A. Y.
2026: eadv7953
- **Synthetic GPCRs for programmable sensing and control of cell behaviour.** *Nature*
Kalogiropoulos, N. A., Tei, R., Yan, Y., Klein, P. M., Ravalin, M., Cai, B., Soltesz, I., Li, Y., Ting, A.
2024
- **Dynamic mapping of proteome trafficking within and between living cells by TransitID.** *Cell*
Qin, W., Cheah, J. S., Xu, C., Messing, J., Freibaum, B. D., Boeynaems, S., Taylor, J. P., Udeshi, N. D., Carr, S. A., Ting, A. Y.
2023
- **Subcellular transcriptome sequencing with single cell APEX-seq identifies regulators of cell-cell interactions.** *bioRxiv : the preprint server for biology*
Xue, A., Cai, B., Xue, Q., Liu, N., Qiu, X., Hernandez-Lopez, R. A., Ting, A. Y.
2026
- **Endocytome profiling uncovers cell-surface protein dynamics underlying neuronal connectivity.** *Neuron*
McLaughlin, C. N., Ji, H., Dong, K. X., Xu, C., Wong, K. K., Li, Z., Luginbuhl, D. J., Xu, C., Lyu, C., Qin, W., Li, J., Udeshi, N. D., Carr, et al
2026
- **Towards CRISPR-based editing of the mitochondrial genome in yeast.** *Proceedings of the National Academy of Sciences of the United States of America*
Yin, S., Jarosz, D. F., Ting, A. Y.
2026; 123 (3): e2505894123
- **Proximity-specific ribosome profiling reveals the logic of localized mitochondrial translation.** *Cell*
Luo, J., Khandwala, S., Hu, J., Lee, S. Y., Hickey, K. L., Levine, Z. G., Harper, J. W., Ting, A. Y., Weissman, J. S.
2025
- **Directed evolution of LaccID for cell surface proximity labeling and electron microscopy.** *Nature chemical biology*
Lee, S., Roh, H., Gonzalez-Perez, D., Mackey, M. R., Hoces, D., McLaughlin, C. N., Lin, C., Adams, S. R., Nguyen, K., Kim, K., Luginbuhl, D. J., Luo, L., Udeshi, et al
2025
- **Directed evolution of a sequence-specific covalent protein tag for RNA labeling.** *Proceedings of the National Academy of Sciences of the United States of America*
Huang, R., Ting, A. Y.
2025; 122 (9): e2422085122

- **Directed evolution of genetically encoded LYTAGs for cell-mediated delivery.** *Proceedings of the National Academy of Sciences of the United States of America*
Yang, J. L., Yamada-Hunter, S. A., Labanieh, L., Sotillo, E., Cheah, J. S., Roberts, D. S., Mackall, C. L., Bertozzi, C. R., Ting, A. Y.
2024; 121 (13): e2320053121
- **Engineered allostery in light-regulated LOV-Turbo enables precise spatiotemporal control of proximity labeling in living cells.** *Nature methods*
Lee, S. Y., Cheah, J. S., Zhao, B., Xu, C., Roh, H., Kim, C. K., Cho, K. F., Udeshi, N. D., Carr, S. A., Ting, A. Y.
2023
- **Cell-Type-Specific Intracellular Protein Delivery with Inactivated Botulinum Neurotoxin.** *Journal of the American Chemical Society*
Roh, H., Dorner, B. G., Ting, A. Y.
2023
- **A Single-Component Luminescent Biosensor for the SARS-CoV-2 Spike Protein.** *Journal of the American Chemical Society*
Ravalin, M., Roh, H., Suryawanshi, R., Kumar, G. R., Pak, J. E., Ott, M., Ting, A. Y.
2022
- **A light-gated transcriptional recorder for detecting cell-cell contacts.** *eLife*
Cho, K. F., Gillespie, S. M., Kalogriopoulos, N. A., Quezada, M. A., Jacko, M., Monje, M., Ting, A. Y.
2022; 11
- **A Dual-Purpose Real-Time Indicator and Transcriptional Integrator for Calcium Detection in Living Cells.** *ACS synthetic biology*
Erdenee, E., Ting, A. Y.
2022
- **An engineered transcriptional reporter of protein localization identifies regulators of mitochondrial and ER membrane protein trafficking in high-throughput CRISPRi screens.** *eLife*
Coukos, R. W., Yao, D., Sanchez, M. L., Strand, E. T., Olive, M. E., Udeshi, N. D., Weissman, J. S., Carr, S. A., Bassik, M. C., Ting, A. Y.
2021; 10
- **Deciphering molecular interactions by proximity labeling.** *Nature methods*
Qin, W., Cho, K. F., Cavanagh, P. E., Ting, A. Y.
2021
- **Spatiotemporally-resolved mapping of RNA binding proteins via functional proximity labeling reveals a mitochondrial mRNA anchor promoting stress recovery.** *Nature communications*
Qin, W., Myers, S. A., Carey, D. K., Carr, S. A., Ting, A. Y.
2021; 12 (1): 4980
- **A Molecular Calcium Integrator Reveals a Striatal Cell Type Driving Aversion.** *Cell*
Kim, C. K., Sanchez, M. I., Hoerbelt, P., Fenno, L. E., Malenka, R. C., Deisseroth, K., Ting, A. Y.
2020
- **RNA-protein interaction mapping via MS2- or Cas13-based APEX targeting.** *Proceedings of the National Academy of Sciences of the United States of America*
Han, S., Zhao, B. S., Myers, S. A., Carr, S. A., He, C., Ting, A. Y.
2020
- **Split-TurboID enables contact-dependent proximity labeling in cells.** *Proceedings of the National Academy of Sciences of the United States of America*
Cho, K. F., Branon, T. C., Rajeev, S., Svinkina, T., Udeshi, N. D., Thoudam, T., Kwak, C., Rhee, H., Lee, I., Carr, S. A., Ting, A. Y.
2020
- **Cell-Surface Proteomic Profiling in the Fly Brain Uncovers Wiring Regulators.** *Cell*
Li, J., Han, S., Li, H., Udeshi, N. D., Svinkina, T., Mani, D. R., Xu, C., Guajardo, R., Xie, Q., Li, T., Luginbuhl, D. J., Wu, B., McLaughlin, et al
2020
- **Transcriptional readout of neuronal activity via an engineered Ca²⁺-activated protease.** *Proceedings of the National Academy of Sciences of the United States of America*
Sanchez, M. I., Nguyen, Q. A., Wang, W. n., Soltesz, I. n., Ting, A. Y.

2020

- **Directed evolution improves the catalytic efficiency of TEV protease.** *Nature methods*
Sanchez, M. I., Ting, A. Y.
2019
- **Luciferase-LOV BRET enables versatile and specific transcriptional readout of cellular protein-protein interactions** *ELIFE*
Kim, C. K., Cho, K. F., Kim, M., Ting, A. Y.
2019; 8
- **Directed Evolution of Split APEX2 Peroxidase.** *ACS chemical biology*
Han, Y. n., Branon, T. C., Martell, J. D., Boassa, D. n., Shechner, D. n., Ellisman, M. H., Ting, A. n.
2019; 14 (4): 619–35
- **Proximity labeling of protein complexes and cell type-specific organellar proteomes in Arabidopsis enabled by TurboID.** *eLife*
Mair, A. n., Xu, S. L., Branon, T. C., Ting, A. Y., Bergmann, D. C.
2019; 8
- **Atlas of Subcellular RNA Localization Revealed by APEX-Seq.** *Cell*
Fazal, F. M., Han, S. n., Parker, K. R., Kaewsapsak, P. n., Xu, J. n., Boettiger, A. N., Chang, H. Y., Ting, A. Y.
2019
- **Efficient proximity labeling in living cells and organisms with TurboID** *NATURE BIOTECHNOLOGY*
Branon, T. C., Bosch, J. A., Sanchez, A. D., Udeshi, N. D., Svinkina, T., Carr, S. A., Feldman, J. L., Perrimon, N., Ting, A. Y.
2018; 36 (9): 880+
- **Proteomic mapping of cytosol-facing outer mitochondrial and ER membranes in living human cells by proximity biotinylation** *ELIFE*
Hung, V., Lam, S. S., Udeshi, N. D., Svinkina, T., Guzman, G., Mootha, V. K., Carr, S. A., Ting, A. Y.
2017; 6
- **An Approach to Spatiotemporally Resolve Protein Interaction Networks in Living Cells** *CELL*
Lobingier, B. T., Huttenhain, R., Eichel, K., Miller, K. B., Ting, A. Y., von Zastrow, M., Krogan, N. J.
2017; 169 (2): 350-360
- **Proximity Biotinylation as a Method for Mapping Proteins Associated with mtDNA in Living Cells.** *Cell chemical biology*
Han, S., Udeshi, N. D., Deerinck, T. J., Svinkina, T., Ellisman, M. H., Carr, S. A., Ting, A. Y.
2017
- **A light- and calcium-gated transcription factor for imaging and manipulating activated neurons.** *Nature biotechnology*
Wang, W. n., Wildes, C. P., Pattarabanjird, T. n., Sanchez, M. I., Guber, G. F., Matthews, G. A., Tye, K. M., Ting, A. Y.
2017
- **RNA targeting with CRISPR-Cas13.** *Nature*
Abudayyeh, O. O., Gootenberg, J. S., Essletzbichler, P. n., Han, S. n., Joung, J. n., Belanto, J. J., Verdine, V. n., Cox, D. B., Kellner, M. J., Regev, A. n., Lander, E. S., Voytas, D. F., Ting, et al
2017; 550 (7675): 280–84
- **Time-gated detection of protein-protein interactions with transcriptional readout.** *eLife*
Kim, M. W., Wang, W. n., Sanchez, M. I., Coukos, R. n., von Zastrow, M. n., Ting, A. Y.
2017; 6
- **Live-cell mapping of organelle-associated RNAs via proximity biotinylation combined with protein-RNA crosslinking.** *eLife*
Kaewsapsak, P. n., Shechner, D. M., Mallard, W. n., Rinn, J. L., Ting, A. Y.
2017; 6
- **Proteomic Analysis of Unbounded Cellular Compartments: Synaptic Clefts.** *Cell*
Loh, K. H., Stawski, P. S., Draycott, A. S., Udeshi, N. D., Lehrman, E. K., Wilton, D. K., Svinkina, T., Deerinck, T. J., Ellisman, M. H., Stevens, B., Carr, S. A., Ting, A. Y.
2016; 166 (5): 1295-1307 e21

- **A split horseradish peroxidase for the detection of intercellular protein-protein interactions and sensitive visualization of synapses.** *Nature biotechnology*
Martell, J. D., Yamagata, M., Deerinck, T. J., Phan, S., Kwa, C. G., Ellisman, M. H., Sanes, J. R., Ting, A. Y.
2016; 34 (7): 774-80
- **Directed evolution of APEX2 for electron microscopy and proximity labeling** *NATURE METHODS*
Lam, S. S., Martell, J. D., Kamer, K. J., Deerinck, T. J., Ellisman, M. H., Mootha, V. K., Ting, A. Y.
2015; 12 (1): 51-54
- **Computational design of a red fluorophore ligase for site-specific protein labeling in living cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liu, D. S., Nivon, L. G., Richter, F., Goldman, P. J., Deerinck, T. J., Yao, J. Z., Richardson, D., Phipps, W. S., Ye, A. Z., Ellisman, M. H., Drennan, C. L., Baker, D., Ting, et al
2014; 111 (43): E4551-E4559
- **Proteomic Mapping of the Human Mitochondrial Intermembrane Space in Live Cells via Ratiometric APEX Tagging** *MOLECULAR CELL*
Hung, V., Zou, P., Rhee, H., Udeshi, N. D., Cracan, V., Svinkina, T., Carr, S. A., Mootha, V. K., Ting, A. Y.
2014; 55 (2): 332-341
- **Proteomic Mapping of Mitochondria in Living Cells via Spatially Restricted Enzymatic Tagging** *SCIENCE*
Rhee, H., Zou, P., Udeshi, N. D., Martell, J. D., Mootha, V. K., Carr, S. A., Ting, A. Y.
2013; 339 (6125): 1328-1331
- **Imaging Trans-Cellular Neurexin-Neuroligin Interactions by Enzymatic Probe Ligation** *PLOS ONE*
Liu, D. S., Loh, K. H., Lam, S. S., White, K. A., Ting, A. Y.
2013; 8 (2)
- **Quantum Dot Targeting with Lipoic Acid Ligase and Halo Tag for Single-Molecule Imaging on Living Cells** *ACS NANO*
Liu, D. S., Phipps, W. S., Loh, K. H., Howarth, M., Ting, A. Y.
2012; 6 (12): 11080-11087
- **Engineered ascorbate peroxidase as a genetically encoded reporter for electron microscopy** *NATURE BIOTECHNOLOGY*
Martell, J. D., Deerinck, T. J., Sancak, Y., Poulos, T. L., Mootha, V. K., Sosinsky, G. E., Ellisman, M. H., Ting, A. Y.
2012; 30 (11): 1143-?
- **Fluorophore Targeting to Cellular Proteins via Enzyme-Mediated Azide Ligation and Strain-Promoted Cycloaddition** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Yao, J. Z., Uttamapinant, C., Poloukhine, A., Baskin, J. M., Codelli, J. A., Sletten, E. M., Bertozzi, C. R., Popik, V. V., Ting, A. Y.
2012; 134 (8): 3720-3728
- **Diels-Alder Cycloaddition for Fluorophore Targeting to Specific Proteins inside Living Cells** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Liu, D. S., Tangpeerachaikul, A., Selvaraj, R., Taylor, M. T., Fox, J. M., Ting, A. Y.
2012; 134 (2): 792-795
- **Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Uttamapinant, C., Tangpeerachaikul, A., Grecian, S., Clarke, S., Singh, U., Slade, P., Gee, K. R., Ting, A. Y.
2012; 51 (24): 5852-5856
- **Imaging Protein-Protein Interactions inside Living Cells via Interaction-Dependent Fluorophore Ligation** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Slavoff, S. A., Liu, D. S., Cohen, J. D., Ting, A. Y.
2011; 133 (49): 19769-19776
- **Structure-Guided Engineering of a Pacific Blue Fluorophore Ligase for Specific Protein Imaging in Living Cells** *BIOCHEMISTRY*
Cohen, J. D., Thompson, S., Ting, A. Y.
2011; 50 (38): 8221-8225
- **Imaging LDL Receptor Oligomerization during Endocytosis Using a Co-internalization Assay** *ACS CHEMICAL BIOLOGY*
Zou, P., Ting, A. Y.

2011; 6 (4): 308-313

- **Synthesis of 7-Aminocoumarin by Buchwald-Hartwig Cross Coupling for Specific Protein Labeling in Living Cells** *CHEMBIOCHEM*
Jin, X., Uttamapinant, C., Ting, A. Y.
2011; 12 (1): 65-70
- **A fluorophore ligase for site-specific protein labeling inside living cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Uttamapinant, C., White, K. A., Baruah, H., Thompson, S., Fernandez-Suarez, M., Puthenveetil, S., Ting, A. Y.
2010; 107 (24): 10914-10919
- **Yeast Display Evolution of a Kinetically Efficient 13-Amino Acid Substrate for Lipoic Acid Ligase** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Puthenveetil, S., Liu, D. S., White, K. A., Thompson, S., Ting, A. Y.
2009; 131 (45): 16430-16438
- **Fluorescent probes for super-resolution imaging in living cells** *NATURE REVIEWS MOLECULAR CELL BIOLOGY*
Fernandez-Suarez, M., Ting, A. Y.
2008; 9 (12): 929-943
- **Protein-protein interaction detection in vitro and in cells by proximity biotinylation** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Fernandez-Suarez, M., Chen, T. S., Ting, A. Y.
2008; 130 (29): 9251-?
- **Monovalent, reduced-size quantum dots for imaging receptors on living cells** *NATURE METHODS*
Howarth, M., Liu, W., Puthenveetil, S., Zheng, Y., Marshall, L. F., Schmidt, M. M., Wittrup, K. D., Bawendi, M. G., Ting, A. Y.
2008; 5 (5): 397-399
- **Expanding the substrate tolerance of biotin ligase through exploration of enzymes from diverse species** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Slavoff, S. A., Chen, I., Choi, Y., Ting, A. Y.
2008; 130 (4): 1160-?
- **An engineered aryl azide ligase for site-specific mapping of protein-protein interactions through photo-cross-linking** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Baruah, H., Puthenveetil, S., Choi, Y., Shah, S., Ting, A. Y.
2008; 47 (37): 7018-7021
- **Imaging proteins in live mammalian cells with biotin ligase and monovalent streptavidin** *NATURE PROTOCOLS*
Howarth, M., Ting, A. Y.
2008; 3 (3): 534-545
- **Redirecting lipoic acid ligase for cell surface protein labeling with small-molecule probes** *NATURE BIOTECHNOLOGY*
Fernandez-Suarez, M., Baruah, H., Martinez-Hernandez, L., Xie, K. T., Baskin, J. M., Bertozzi, C. R., Ting, A. Y.
2007; 25 (12): 1483-1487
- **Phage display evolution of a peptide substrate for yeast biotin ligase and application to two-color quantum dot labeling of cell surface proteins** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Chen, I., Choi, Y., Ting, A. Y.
2007; 129 (20): 6619-6625
- **Synthesis of a ketone analogue of biotin via the intramolecular Pauson-Khand reaction** *ORGANIC LETTERS*
McNeill, E., Chen, I., Ting, A. Y.
2006; 8 (20): 4593-4595
- **Transglutaminase-catalyzed site-specific conjugation of small-molecule probes to proteins in vitro and on the surface of living cells** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Lin, C. W., Ting, A. Y.
2006; 128 (14): 4542-4543
- **A monovalent streptavidin with a single femtomolar biotin binding site** *NATURE METHODS*

Howarth, M., Chinnapen, D. J., Gerrow, K., Dorrestein, P. C., Grandy, M. R., Kelleher, N. L., El-Husseini, A., Ting, A. Y.
2006; 3 (4): 267-273

● **Giving cells a new sugar-coating** *NATURE CHEMICAL BIOLOGY*

Howarth, M., Ting, A. Y.
2006; 2 (3): 127-128

● **Targeting quantum dots to surface proteins in living cells with biotin ligase** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Howarth, M., Takao, K., Hayashi, Y., Ting, A. Y.
2005; 102 (21): 7583-7588

● **Site-specific labeling of proteins with small molecules in live cells** *CURRENT OPINION IN BIOTECHNOLOGY*

Chen, I., Ting, A. Y.
2005; 16 (1): 35-40

● **Site-specific labeling of cell surface proteins with biophysical probes using biotin ligase** *NATURE METHODS*

Chen, I., Howarth, M., Lin, W. Y., Ting, A. Y.
2005; 2 (2): 99-104

● **Genetically encoded fluorescent reporters of histone methylation in living cells** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*

Lin, C. W., Jao, C. Y., Ting, A. Y.
2004; 126 (19): 5982-5983

● **A genetically encoded fluorescent reporter of histone phosphorylation in living cells** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*

Lin, C. W., Ting, A. Y.
2004; 43 (22): 2940-2943