



Tobias Meyer

Mrs. George A. Winzer Professor in Cell Biology
Chemical and Systems Biology

 NIH Biosketch available Online

CONTACT INFORMATION

• Administrative Contact

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Bio

ACADEMIC APPOINTMENTS

- Professor, Chemical and Systems Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Co-director, Stanford Center for Systems Biology (NIGMS), Stanford University School of Medicine, (2013-2018)
- Chair, Department of Chemical & Systems Biology, Stanford University School of Medicine, (2011-2016)
- Mrs. George A. Winzer Professor in Cell Biology, Stanford University School of Medicine, (2009- present)
- Associate Chair, Department of Chemical and Systems Biology, Stanford University School of Medicine, (2006-2011)
- Director, Microscopy Laboratory, Alliance for Cell Signaling (NIGMS), Stanford University School of Medicine, (2001-2008)

HONORS AND AWARDS

- Mrs. George A Winzer Professor in Cell Biology, Stanford University School of Medicine (2009)
- Packard Fellow for Science and Engineering, David and Lucile Packard Foundation (1992-97)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellowship Award Committee Member, Damon Runyon Cancer Research Foundation (2013 - present)
- Editorial Board, Journal of Biological Chemistry (1996 - 1998)

PROFESSIONAL EDUCATION

- Vordiplom, University of Basel, Basel, Switzerland , Mathematics and Biology (1980)
- Masters, University of Basel/CERN, Geneva, Switzerland , Nuclear Physics (1983)
- PhD, Biocenter of the University of Basel, Switzerland , Biophysics (1986)

LINKS

- <https://meyerlab.stanford.edu>: <https://meyerlab.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I seek to understand how mammalian cells process information and make decisions. This is a fundamental open question as cells are controlled by multiple signaling pathways with tens of signaling proteins, second messengers and chromatin modifiers connected to each other on time-scales of seconds to days by positive and negative feedbacks. Understanding how signaling circuits control cell proliferation, migration and other outputs is important for identifying optimal drug targets and to facilitate the development of combination therapies. Much of my work is built on the premise that genetic and biochemical methods can be used to identify and characterize components of signaling circuits, but that single-cell microscopy, live-cell signaling reporters, and rapid perturbations are needed to understand the design principles of signaling circuits. My laboratory has pioneered the development and use of molecular tools and quantitative microscopy methods to understand feedback-connected signaling circuits and made key contributions to our understanding of the spatial and temporal control of calcium, lipid second messenger, small GTPase, and protein kinase signaling processes. Our current research identifies general control principles and specific mechanisms how cells integrate receptor, cell contact and stress inputs to decide between quiescence, proliferation and senescence, how they switch metabolic states, and how they trigger polarization and decide to move. We are investigating these signaling circuits by combining high-resolution live-cell analysis of signal transduction and local chromatin activity with optogenetic perturbations, single-cell RNAseq and computational modeling.

Teaching

COURSES

2021-22

- Research Seminar: CSB 270 (Aut, Win)

2020-21

- Research Seminar: CSB 270 (Aut, Win, Spr)

2019-20

- Research Seminar: CSB 270 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Stevan Jeknic

Doctoral Dissertation Advisor (AC)

Leighton Daigh

Doctoral Dissertation Co-Advisor (AC)

Katie Ferrick, Nalin Ratnayeke

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biophysics (Phd Program)
- Cancer Biology (Phd Program)
- Chemical and Systems Biology (Phd Program)

Publications

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
- **Membrane-proximal F-actin restricts local membrane protrusions and directs cell migration.** *Science (New York, N.Y.)*
Bisaria, A. n., Hayer, A. n., Garbett, D. n., Cohen, D. n., Meyer, T. n.
2020; 368 (6496): 1205–10
- **T-Plastin reinforces membrane protrusions to bridge matrix gaps during cell migration.** *Nature communications*
Garbett, D. n., Bisaria, A. n., Yang, C. n., McCarthy, D. G., Hayer, A. n., Moerner, W. E., Svitkina, T. M., Meyer, T. n.
2020; 11 (1): 4818
- **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
- **The lysosomal GPCR-like protein GPR137B regulates Rag and mTORC1 localization and activity** *NATURE CELL BIOLOGY*
Gan, L., Seki, A., Shen, K., Iyer, H., Han, K., Hayer, A., Wollman, R., Ge, X., Lin, J. R., Dey, G., Talbot, W. S., Meyer, T.
2019; 21 (5): 614–+
- **Efficient Front-Rear Coupling in Neutrophil Chemotaxis by Dynamic Myosin II Localization** *DEVELOPMENTAL CELL*
Tsai, T., Collins, S. R., Chan, C. K., Hadjithodorou, A., Lam, P., Lou, S. S., Yang, H., Jorgensen, J., Ellett, F., Irimia, D., Davidson, M. W., Fischer, R. S., Huttenlocher, et al
2019; 49 (2): 189–+
- **Putting the brakes on the cell cycle: mechanisms of cellular growth arrest.** *Current opinion in cell biology*
Pack, L. R., Daigh, L. H., Meyer, T. n.
2019; 60: 106–13
- **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
- **EMI1 switches from being a substrate to an inhibitor of APC/CCDH1 to start the cell cycle.** *Nature*
Cappell, S. D., Mark, K. G., Garbett, D., Pack, L. R., Rape, M., Meyer, T.
2018
- **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
- **Competing memories of mitogen and p53 signalling control cell-cycle entry** *NATURE*
Yang, H., Chung, M., Kudo, T., Meyer, T.
2017; 549 (7672): 404–+
- **Measuring Signaling and RNA-Seq in the Same Cell Links Gene Expression to Dynamic Patterns of NF- κ B Activation.** *Cell systems*

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- Lane, K., Van Valen, D., DeFelice, M. M., Macklin, D. N., Kudo, T., Jaimovich, A., Carr, A., Meyer, T., Pe'er, D., Boutet, S. C., Covert, M. W.
2017; 4 (4): 458-469 e5
- **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., Badiiee, R. K., Oh, Y., Chu, J., Zhou, X. X., Kim, N., Kim, B. B., Chung, M., Yablonovitch, A. L., Cruz, B. F., Kulalert, K., Tao, et al
2016
 - **PLEKHG3 enhances polarized cell migration by activating actin filaments at the cell front** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Trang Thi Thu Nguyen, T. T., Park, W. S., Park, B. O., Kim, C. Y., Oh, Y., Kim, J. M., Choi, H., Kyung, T., Kim, C., Lee, G., Hahn, K. M., Meyer, T., Heo, et al
2016; 113 (36): 10091-10096
 - **Phosphorylation of residues inside the SNARE complex suppresses secretory vesicle fusion.** *EMBO journal*
Malmersjö, S., Di Palma, S., Diao, J., Lai, Y., Pfuetzner, R. A., Wang, A. L., McMahon, M. A., Hayer, A., Porteus, M., Bodenmiller, B., Brunger, A. T., Meyer, T.
2016; 35 (16): 1810-1821
 - **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
 - **A method to rapidly create protein aggregates in living cells** *NATURE COMMUNICATIONS*
Miyazaki, Y., Mizumoto, K., Dey, G., Kudo, T., Perrino, J., Chen, L., Meyer, T., Wandless, T. J.
2016; 7
 - **Locally excitable Cdc42 signals steer cells during chemotaxis.** *Nature cell biology*
Yang, H. W., Collins, S. R., Meyer, T.
2016; 18 (2): 191-201
 - **Waves of actin and microtubule polymerization drive microtubule-based transport and neurite growth before single axon formation.** *eLife*
Winans, A. M., Collins, S. R., Meyer, T.
2016; 5
 - **Phylogenetic Profiling for Probing the Modular Architecture of the Human Genome** *CELL SYSTEMS*
Dey, G., Meyer, T.
2015; 1 (2): 106-115
 - **Phylogenetic Profiling for Probing the Modular Architecture of the Human Genome.** *Cell systems*
Dey, G., Meyer, T.
2015; 1 (2): 106-15
 - **p53 suppresses muscle differentiation at the myogenin step in response to genotoxic stress** *CELL DEATH AND DIFFERENTIATION*
Yang, Z. J., Broz, D. K., Noderer, W. L., Ferreira, J. P., Overton, K. W., Spencer, S. L., Meyer, T., Tapscott, S. J., Attardi, L. D., Wang, C. L.
2015; 22 (4): 560-573
 - **Using light to shape chemical gradients for parallel and automated analysis of chemotaxis.** *Molecular systems biology*
Collins, S. R., Yang, H. W., Bongor, K. M., Guignet, E. G., Wandless, T. J., Meyer, T.
2015; 11 (4): 804-?
 - **Systematic Discovery of Human Gene Function and Principles of Modular Organization through Phylogenetic Profiling** *CELL REPORTS*
Dey, G., Jaimovich, A., Collins, S. R., Seki, A., Meyer, T.
2015; 10 (6): 993-1006
 - **Systematic Discovery of Human Gene Function and Principles of Modular Organization through Phylogenetic Profiling.** *Cell reports*
Dey, G., Jaimovich, A., Collins, S. R., Seki, A., Meyer, T.
2015

- **Using light to shape chemical gradients for parallel and automated analysis of chemotaxis.** *Molecular systems biology*
Collins, S. R., Yang, H. W., Bongor, K. M., Guignet, E. G., Wandless, T. J., Meyer, T.
2015; 11 (4): 804-?
- **Phosphodiesterase 4D acts downstream of Neuropilin to control Hedgehog signal transduction and the growth of medulloblastoma.** *eLife*
Ge, X., Milenkovic, L., Suyama, K., Hartl, T., Purzner, T., Winans, A., Meyer, T., Scott, M. P.
2015; 4
- **Phosphodiesterase 4D acts downstream of Neuropilin to control Hedgehog signal transduction and the growth of medulloblastoma.** *eLife*
Ge, X., Milenkovic, L., Suyama, K., Hartl, T., Purzner, T., Winans, A., Meyer, T., Scott, M. P.
2015; 4
- **Dynamic recruitment of the curvature-sensitive protein ArhGAP44 to nanoscale membrane deformations limits exploratory filopodia initiation in neurons** *ELIFE*
Galic, M., Tsai, F., Collins, S. R., Matis, M., Bandara, S., Meyer, T.
2014; 3
- **Basal p21 controls population heterogeneity in cycling and quiescent cell cycle states** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Overton, K. W., Spencer, S. L., Noderer, W. L., Meyer, T., Wang, C. L.
2014; 111 (41): E4386-E4393
- **A polarized Ca(2+), diacylglycerol and STIM1 signalling system regulates directed cell migration.** *Nature cell biology*
Tsai, F., Seki, A., Yang, H. W., Hayer, A., Carrasco, S., Malmersjö, S., Meyer, T.
2014; 16 (2): 133-144
- **Parallel measurement of dynamic changes in translation rates in single cells.** *Nature methods*
Han, K., Jaimovich, A., Dey, G., Ruggero, D., Meyuhas, O., Sonenberg, N., Meyer, T.
2014; 11 (1): 86-93
- **Parallel measurement of dynamic changes in translation rates in single cells** *NATURE METHODS*
Han, K., Jaimovich, A., Dey, G., Ruggero, D., Meyuhas, O., Sonenberg, N., Meyer, T.
2014; 11 (1): 86-?
- **Formin-mediated actin polymerization promotes Salmonella invasion** *CELLULAR MICROBIOLOGY*
Truong, D., Brabant, D., Bashkurov, M., Wan, L. C., Braun, V., Heo, W. D., Meyer, T., Pelletier, L., Copeland, J., Brumell, J. H.
2013; 15 (12): 2051-2063
- **Neuropilin-2 contributes to tumorigenicity in a mouse model of Hedgehog pathway medulloblastoma** *JOURNAL OF NEURO-ONCOLOGY*
Gephart, M. G., Su, Y. S., Bandara, S., Tsai, F., Hong, J., Conley, N., Rayburn, H., Milenkovic, L., Meyer, T., Scott, M. P.
2013; 115 (2): 161-168
- **Neuropilin-2 contributes to tumorigenicity in a mouse model of Hedgehog pathway medulloblastoma.** *Journal of neuro-oncology*
Hayden Gephart, M. G., Su, Y. S., Bandara, S., Tsai, F., Hong, J., Conley, N., Rayburn, H., Milenkovic, L., Meyer, T., Scott, M. P.
2013; 115 (2): 161-168
- **The Proliferation-Quiescence Decision Is Controlled by a Bifurcation in CDK2 Activity at Mitotic Exit.** *Cell*
Spencer, S. L., Cappell, S. D., Tsai, F., Overton, K. W., Wang, C. L., Meyer, T.
2013; 155 (2): 369-383
- **Dosage of Dyrk1a Shifts Cells within a p21-Cyclin D1 Signaling Map to Control the Decision to Enter the Cell Cycle** *MOLECULAR CELL*
Chen, J., Lin, J., Tsai, F., Meyer, T.
2013; 52 (1): 87-100
- **Regulators of Calcium Homeostasis Identified by Inference of Kinetic Model Parameters from Live Single Cells Perturbed by siRNA.** *Science signaling*
Bandara, S., Malmersjö, S., Meyer, T.
2013; 6 (283): ra56
- **Regulators of Calcium Homeostasis Identified by Inference of Kinetic Model Parameters from Live Single Cells Perturbed by siRNA** *SCIENCE SIGNALING*

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- Bandara, S., Malmersjoe, S., Meyer, T.
2013; 6 (283)
- **Inside-Out Connections: The ER Meets the Plasma Membrane.** *Cell*
Malmersjö, S., Meyer, T.
2013; 153 (7): 1423-1424
 - **A Localized Wnt Signal Orients Asymmetric Stem Cell Division in Vitro** *SCIENCE*
Habib, S. J., Chen, B., Tsai, F., Anastassiadis, K., Meyer, T., Betzig, E., Nusse, R.
2013; 339 (6126): 1445-1448
 - **Brg1 governs distinct pathways to direct multiple aspects of mammalian neural crest cell development** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Li, W., Xiong, Y., Shang, C., Twu, K. Y., Hang, C. T., Yang, J., Han, P., Lin, C., Lin, C., Tsai, F., Stankunas, K., Meyer, T., Bernstein, et al
2013; 110 (5): 1738-1743
 - **Coordinated oscillations in cortical actin and Ca²⁺ correlate with cycles of vesicle secretion** *NATURE CELL BIOLOGY*
Wollman, R., Meyer, T.
2012; 14 (12): 1261-?
 - **External push and internal pull forces recruit curvature-sensing N-BAR domain proteins to the plasma membrane** *NATURE CELL BIOLOGY*
Galic, M., Jeong, S., Tsai, F., Joubert, L., Wu, Y. I., Hahn, K. M., Cui, Y., Meyer, T.
2012; 14 (8): 874-U212
 - **Cooperative Activation of PI3K by Ras and Rho Family Small GTPases** *MOLECULAR CELL*
Yang, H. W., Shin, M., Lee, S., Kim, J., Park, W. S., Cho, K., Meyer, T., Heo, W. D.
2012; 47 (2): 281-290
 - **Spatial Positive Feedback at the Onset of Mitosis** *CELL*
Santos, S. D., Wollman, R., Meyer, T., Ferrell, J. E.
2012; 149 (7): 1500-1513
 - **Ca²⁺ Pulses Control Local Cycles of Lamellipodia Retraction and Adhesion along the Front of Migrating Cells** *CURRENT BIOLOGY*
Tsai, F., Meyer, T.
2012; 22 (9): 837-842
 - **A Two-Dimensional ERK-AKT Signaling Code for an NGF-Triggered Cell-Fate Decision** *MOLECULAR CELL*
Chen, J., Lin, J., Cimprich, K. A., Meyer, T.
2012; 45 (2): 196-209
 - **Design of experiments to investigate dynamic cell signaling models.** *Methods in molecular biology (Clifton, N.J.)*
Bandara, S., Meyer, T.
2012; 880: 109-118
 - **Salmonella exploits Arl8B-directed kinesin activity to promote endosome tubulation and cell-to-cell transfer** *CELLULAR MICROBIOLOGY*
Kaniuk, N. A., Canadien, V., Bagshaw, R. D., Bakowski, M., Braun, V., Landekic, M., Mitra, S., Huang, J., Do Heo, W., Meyer, T., Pelletier, L., Andrews-Polymenis, H., McClelland, et al
2011; 13 (11): 1812-1823
 - **Evolutionary origins of STIM1 and STIM2 within ancient Ca²⁺ signaling systems** *TRENDS IN CELL BIOLOGY*
Collins, S. R., Meyer, T.
2011; 21 (4): 202-211
 - **STIM Proteins and the Endoplasmic Reticulum-Plasma Membrane Junctions** *ANNUAL REVIEW OF BIOCHEMISTRY, VOL 80*
Carrasco, S., Meyer, T.
2011; 80: 973-1000
 - **Antibacterial autophagy occurs at PtdIns(3)P-enriched domains of the endoplasmic reticulum and requires Rab1 GTPase** *AUTOPHAGY*
Huang, J., Birmingham, C. L., Shahnazari, S., Shiu, J., Zheng, Y. T., Smith, A. C., Campellone, K. G., Heo, W. D., Gruenheid, S., Meyer, T., Welch, M. D., Ktistakis, N. T., Kim, et al
2011; 7 (1): 17-26

- **Rho small GTPases activates PI3K via a cooperative positive feedback loop** *Annual Meeting of the American-Society-for-Cell-Biology (ASCB)*
LEE, H., Yang, H., Shin, M., Lee, S., Park, W., Kim, J., Cho, K., Meyer, T., Heo, W.
AMER SOC CELL BIOLOGY.2011
- **A Steering Model of Endothelial Sheet Migration Recapitulates Monolayer Integrity and Directed Collective Migration** *MOLECULAR AND CELLULAR BIOLOGY*
Vitorino, P., Hammer, M., Kim, J., Meyer, T.
2011; 31 (2): 342-350
- **CELL BIOLOGY A sensor for calcium uptake** *NATURE*
Collins, S., Meyer, T.
2010; 467 (7313): 283-283
- **The NADPH oxidases NOX4 and DUOX2 regulate cell cycle entry via a p53-dependent pathway** *ONCOGENE*
Salmeen, A., Park, B. O., Meyer, T.
2010; 29 (31): 4473-4484
- **The Phosphoinositide Phosphatase SopB Manipulates Membrane Surface Charge and Trafficking of the Salmonella-Containing Vacuole** *CELL HOST & MICROBE*
Bakowski, M. A., Braun, V., Lam, G. Y., Yeung, T., Do Heo, W., Meyer, T., Finlay, B. B., Grinstein, S., Brummell, J. H.
2010; 7 (6): 453-462
- **An electrostatic switch displaces phosphatidylinositol phosphate kinases from the membrane during phagocytosis** *JOURNAL OF CELL BIOLOGY*
Fairn, G. D., Ogata, K., Botelho, R. J., Stahl, P. D., Anderson, R. A., De Camilli, P., Meyer, T., Wodak, S., Grinstein, S.
2009; 187 (5): 701-714
- **Optimal Experimental Design for Parameter Estimation of a Cell Signaling Model** *PLOS COMPUTATIONAL BIOLOGY*
Bandara, S., Schloeder, J. P., Eils, R., Bock, H. G., Meyer, T.
2009; 5 (11)
- **Regulated RalBP1 Binding to RalA and PSD-95 Controls AMPA Receptor Endocytosis and LTD** *PLOS BIOLOGY*
Han, K., Kim, M., Seeburg, D., Seo, J., Verpelli, C., Han, S., Chung, H. S., Ko, J., Lee, H. W., Kim, K., Heo, W. D., Meyer, T., Kim, et al
2009; 7 (9)
- **A Genome-wide siRNA Screen Reveals Diverse Cellular Processes and Pathways that Mediate Genome Stability** *MOLECULAR CELL*
Paulsen, R. D., Soni, D. V., Wollman, R., Hahn, A. T., Yee, M., Guan, A., Hesley, J. A., Miller, S. C., Cromwell, E. F., Solow-Cordero, D. E., Meyer, T., Cimprich, K. A.
2009; 35 (2): 228-239
- **Quantitative analysis of cell cycle phase durations and PC12 differentiation using fluorescent biosensors** *CELL CYCLE*
Hahn, A. T., Jones, J. T., Meyer, T.
2009; 8 (7): 1044-1052
- **Calcium Flickers Lighting the Way in Chemotaxis?** *DEVELOPMENTAL CELL*
Collins, S. R., Meyer, T.
2009; 16 (2): 160-161
- **A phosphorylation-dependent intramolecular interaction regulates the membrane association and activity of the tumor suppressor PTEN** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rahdar, M., Inoue, T., Meyer, T., Zhang, J., Vazquez, F., Devreotes, P. N.
2009; 106 (2): 480-485
- **Modular control of endothelial sheet migration** *GENES & DEVELOPMENT*
Vitorino, P., Meyer, T.
2008; 22 (23): 3268-3281
- **Feedback loops shape cellular signals in space and time** *SCIENCE*
Brandman, O., Meyer, T.
2008; 322 (5900): 390-395

- **Synthetic Activation of Endogenous PI3K and Rac Identifies an AND-Gate Switch for Cell Polarization and Migration** *PLOS ONE*
Inoue, T., Meyer, T.
2008; 3 (8)
- **A nucleostemin family GTPase, NS3, acts in serotonergic neurons to regulate insulin signaling and control body size** *GENES & DEVELOPMENT*
Kaplan, D. D., Zimmermann, G., Suyama, K., Meyer, T., Scott, M. P.
2008; 22 (14): 1877-1893
- **Phospholipase D activity regulates integrin-mediated cell spreading and migration by inducing GTP-Rac translocation to the plasma membrane** *MOLECULAR BIOLOGY OF THE CELL*
Chae, Y. C., Kim, J. H., Kim, K. L., Kim, H. W., Lee, H. Y., Do Heo, W., Meyer, T., Suh, P., Ryu, S. H.
2008; 19 (7): 3111-3123
- **Comprehensive identification of PIP3-regulated PH domains from C elegans to H sapiens by model prediction and live imaging** *MOLECULAR CELL*
Park, W. S., Do Heo, W., Whalen, J. H., O'Rourke, N. A., Bryan, H. M., Meyer, T., Teruel, M. N.
2008; 30 (3): 381-392
- **Suspended-drop electroporation for high-throughput delivery of biomolecules into cells** *NATURE METHODS*
Guignet, E. G., Meyer, T.
2008; 5 (5): 393-395
- **Dissecting the role of PtdIns(4,5)P-2 in endocytosis and recycling of the transferrin receptor** *JOURNAL OF CELL SCIENCE*
Abe, N., Inoue, T., Galvez, T., Klein, L., Meyer, T.
2008; 121 (9): 1488-1494
- **Robust neuronal symmetry breaking by Ras-triggered local positive feedback** *CURRENT BIOLOGY*
Fivaz, M., Bandara, S., Inoue, T., Meyer, T.
2008; 18 (1): 44-50
- **STIM2 is a feedback regulator that stabilizes basal cytosolic and endoplasmic reticulum Ca²⁺ levels** *CELL*
Brandman, O., Liou, J., Park, W. S., Meyer, T.
2007; 131 (7): 1327-1339
- **A transgenic mouse model for high content, cell cycle phenotype screening in live primary cells** *CELL CYCLE*
Burney, R. O., Lee, A. I., Leong, D. E., Jones, J. T., Hahn, A. T., Meyer, T., Yao, M. W.
2007; 6 (18): 2276-2283
- **An essential role for the SHIP2-dependent negative feedback loop in neuritogenesis of nerve growth factor-stimulated PC12 cells** *JOURNAL OF CELL BIOLOGY*
Aoki, K., Nakamura, T., Inoue, T., Meyer, T., Matsuda, M.
2007; 177 (5): 817-827
- **Live-cell imaging reveals sequential oligomerization and local plasma membrane targeting of stromal interaction molecule 1 after Ca²⁺ store depletion** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liou, J., Fivaz, M., Inoue, T., Meyer, T.
2007; 104 (22): 9301-9306
- **The alliance for cellular signaling plasmid collection: A flexible resource for protein localization studies and signaling pathway analysis** *MOLECULAR & CELLULAR PROTEOMICS*
Zavzavadjian, J. R., Couture, S., Park, W. S., Whalen, J., Lyon, S., Lee, G., Fung, E., Mi, Q., Liu, J., Wall, E., Santat, L., Dhandapani, K., Kivork, et al
2007; 6 (3): 413-424
- **A network of Rab GTPases controls phagosome maturation and is modulated by Salmonella enterica serovar Typhimurium** *JOURNAL OF CELL BIOLOGY*
Smith, A. C., Do Heo, W., Braun, V., Jiang, X., Macrae, C., Casanova, J. E., Scidmore, M. A., Grinstein, S., Meyer, T., Brummell, J. H.
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- **Cyclin A2 regulates nuclear-envelope breakdown and the nuclear accumulation of cyclin B1** *CURRENT BIOLOGY*
Gong, D., Pomerening, J. R., Myers, J. W., Gustavsson, C., Jones, J. T., Hahn, A. T., Meyer, T., Ferrell, J. E.
2007; 17 (1): 85-91

- **siRNA screen of the human signaling proteome identifies the PtdIns(3,4,5) P-3-mTOR signaling pathway as a primary regulator of transferrin uptake** *GENOME BIOLOGY*
Galvez, T., Teruel, M. N., Do Heo, W., Jones, J. T., Kim, M. L., Liou, J., Myers, J. W., Meyer, T.
2007; 8 (7)
- **Activation mechanisms of the ER Ca²⁺ sensor STIM1** *51st Annual Meeting of the Biophysical-Society*
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