

**Gabriel Fenteany, Ph.D.**  
NYC Health + Hospitals

Address: 125 Worth Street, 5th Floor, New York, NY 10011  
Tel: 347-585-3242; 646-306-6292  
E-mail: fenteang@nycchc.org; fenteany@gmail.com  
Web: <https://www.linkedin.com/in/fenteany>; <http://biochemweb.net/fenteany>

**EDUCATION**

- |           |   |
|-----------|---|
| 1997      | Ph.D., Harvard University, Cambridge, Massachusetts (Advisors: Stuart L. Schreiber and Elias J. Corey)  |
| 1992      | M.A., Biochemistry and Molecular Biology, University of California, Santa Barbara, California (Advisor: Daniel E. Morse)  |
| 1990      | B.A., Biochemistry, Aquatic Biology, University of California, Santa Barbara, California (Advisor: Daniel E. Morse)   |
| 1985–1989 | Reed College, Portland, Oregon (with <i>licence</i> degree – B.S. equivalent – awarded in Biochemistry from the Université de Franche-Comté, as foreign exchange student from Reed College) |

**PROFESSIONAL EXPERIENCE**

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|--------------|---|
| 2016–present | Research Scientist/Research & Grants Advisor, New York City Health + Hospitals, Research Administration and Data Sciences Research Center, New York |
| 2015–present | Research Scientist, Division of Endocrinology, New York City Health + Hospitals/Woodhull and New York University Medical Center, New York           |
| 2008–2015    | Faculty, Graduate Program in Cell Biology, University of Connecticut, Storrs, Connecticut   |
| 2008–2015    | Co-Director, University of Connecticut High Throughput Screening Facility, Storrs, Connecticut  |
| 2007–2015    | Member of the Structural Biology Partnership, University of Connecticut, Storrs, Connecticut  |
| 2006–2015    | Associate Professor of Chemistry, University of Connecticut, Storrs, Connecticut  |
| 2000–2006    | Assistant Professor of Chemistry, University of Illinois, Chicago, Illinois   |
| 1997–2000    | Life Sciences Research Foundation Postdoctoral Fellow, Harvard Medical School, Boston, Massachusetts  |

**WEB WORK**

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|--------------|---|
| 1999–present | Creator and maintainer, The Virtual Library of Biochemistry, Molecular Biology and Cell Biology, <a href="http://biochemweb.net">http://biochemweb.net</a>  |
| 1999–2000    | Creator and maintainer, Division of Experimental Medicine/Cell Biology Group Website, Brigham and Women’s Hospital, Harvard Medical School, <a href="http://expmed.bwh.harvard.edu">http://expmed.bwh.harvard.edu</a> (now defunct) |

1999–2000 Creator and maintainer, Division of Hematology Website, Brigham and Women’s Hospital, Harvard Medical School, <http://hematology.bwh.harvard.edu> (now defunct)

### **AWARDS AND HONORS**

2007 University of Connecticut Undergraduate Student Government Educator of the Year Nominee  
2002–2006 American Cancer Society Research Scholar  
1999–2000 Life Sciences Research Foundation Postdoctoral Fellowship  
1999 National Institutes of Health Postdoctoral Fellowship (Declined)  
1999 American Lung Association Postdoctoral Fellowship (Declined)  
1991–1994 National Defense Science and Engineering Graduate Fellowship  
1990 Election to Phi Beta Kappa  
1990 Election to Golden Key National Honor Society  
1985 Alice Tweed Tuohy Honors Scholarship, Scholarship Foundation of Santa Barbara

### **RESEARCH SUPPORT**

#### **Pending Grants**

R01AT009703, Fenteany, G. (PI) 09/01/2017–08/30/2022  
National Institutes of Health (NCCIH)  
Mindfulness Practice to Modulate the Health and Function of the Hypothalamic-Pituitary-Thyroid System  
Role: PI Amount: \$1,825,000

#### **Awarded Grants**

R01GM077622, Fenteany, G. (PI), 06/01/2006–05/31/2011 (No-cost extension to 05/31/2013)  
National Institutes of Health (NIGMS)  
Mechanism of Action of New Inhibitors of Cell Migration  
Role: PI Amount: \$1,295,000

R01GM077622 Supplement, Fenteany, G. (PI), 01/01/2008–05/31/2011  
National Institutes of Health (NIGMS)  
Research Supplements to Promote Diversity in Health-Related Research  
Role: PI Amount: \$175,252

R01GM077622 Supplement, Fenteany, G. (PI), 09/11/2009–08/31/2010 (No-cost extension to 08/31/2012)  
National Institutes of Health (NIGMS)  
Mechanism of Action of New Inhibitors of Cell Migration  
Role: PI Amount: \$200,451

- Summer Undergraduate Research Fellowship, Lincoln, S.T (Awardee), 06/2011–08/2011  
University of Connecticut  
Role: PI Amount: \$3,990
- Summer Undergraduate Research Fellowship, Minutolo, N. (Awardee), 06/2011–08/2011  
University of Connecticut  
Role: Co-PI with David Knecht Amount: \$4,000
- University of Connecticut Major Research Equipment Award, Hadden, K. (PI), 10/22/2010  
UConn High-Throughput Screening Center  
Role: Key Personnel Amount: \$221,530
- Summer Undergraduate Research Fellowship, Heyse, S.A. (Awardee), 06/2010–08/2010  
University of Connecticut  
Role: PI Amount: \$2,500
- University of Connecticut Intermediate Research Equipment Award, Yao, X. (PI), 12/11/2009  
Nano Liquid Chromatography System  
Role: Key Personnel Amount: \$99,000
- UCHC/Storrs and Regional Campus Incentive Grant, Wright, D. (PI), 09/01/2008–08/31/2009  
A High Throughput Screen (HTS) to Identify Novel Anti-Cancer Agents  
Role: Co-PI Amount: \$50,000
- Summer Undergraduate Research Fellowship, Morse, P.D. (Awardee), 06/2009–08/2009  
University of Connecticut  
Role: PI Amount: \$3,000
- Partnership for Excellence in Structural Biology Research Fellowship  
University of Connecticut Partnership for Excellence in Structural Biology  
Fenteany, G. (PI); Alexandrescu, A.T. (Co-Investigator), 01/01/2008–05/31/2008  
Role: PI Amount: \$12,735
- Partnership for Excellence in Structural Biology Research Fellowship  
University of Connecticut Partnership for Excellence in Structural Biology  
Gascón, J.A. (PI); Fenteany, G. (Co-Investigator), 08/01/2008–12/31/2007  
Role: Co-Investigator Amount: \$12,735
- Summer Undergraduate Research Fellowship, Drozdowicz, L.B. (Awardee), 06/2007–08/2007  
University of Connecticut  
Role: PI Amount: \$3,000
- 0722948 (Major Research Instrumentation), Knecht, D.A. (PI), 09/01/2007  
National Science Foundation  
Acquisition of a Confocal Live Cell Imaging System  
Role: Sr. Personnel Amount: \$367,305

RSG-02-250-01-DDC, Fenteany, G. (PI), 07/01/2002–06/30/2006  
American Cancer Society  
Probes to Study and Control Cell Motility and Morphogenesis  
Role: PI Amount: \$650,000

R21CA95177, Fenteany, G. (PI), 04/01/2002–03/31/2003  
National Institutes of Health (NCI)  
Discovery of Drug Targets Controlling Cell Motility  
Role: PI Amount: \$148,573

Campus Research Board Grant, Fenteany, G. (PI), 07/01/2001–06/30/2002  
University of Illinois  
Small Organic Molecules to Study and Control Cell Motility  
Role: PI Amount: \$15,000

0091994 (Major Research Instrumentation), Keiderling, T.A (PI), 02/15/2001  
National Science Foundation  
Purchase of a Departmental Stopped-Flow Equipped Circular Dichroism Spectrometer  
Role: Co-Investigator Amount: \$112,572

### **PEER-REVIEWED PUBLICATIONS**

Fenteany, G.; Inoue, T.; Bahtiyar, G.; Sacerdote, A. Association of vitamin D depletion with normalization of elevated serum 17-OH progesterone. *J. Med. Case Rep.*, **2017**, 3, 29.

Powell, D.; Inoue, T.; Bahtiyar, G.; Fenteany, G.; Sacerdote, A. Treatment of nonclassic 11-hydroxylase deficiency with Ashwagandha root. *Case Rep. Endocrinol.* **2017**, 2017, Article ID 1869560.

Magpusao, A.N.; Omolloh, G.; Johnson, J.; Gascón, J.; Peczuh, M.W.; Fenteany, G. Cardiac glycoside activities link Na(+)/K(+) ATPase ion-transport to breast cancer cell migration via correlative SAR. *ACS Chem. Biol.* **2015**, 10, 561-569.

Eddy, N.A.; Richardson, J.J.; Fenteany, G. The effect of Lewis acids on the cycloaddition of 3,3,6-trimethylcyclohex-5-ene-1,2,4-trione: hydrogen transfer versus cycloaddition with cyclopentadiene. *Eur. J. Org. Chem.* **2013**, 2013 (23), 5041-5044.

Clark, A.G.; Sider, J.R.; Verbrugghe, K.; Fenteany, G.; von Dassow, G.; Bement, W.M. Identification of small molecule inhibitors of cytokinesis and single cell wound repair. *Cytoskeleton* **2012**, 69, 1010-1020.

Rudnitskaya, A.N.; Eddy, N.A.; Fenteany, G.; Gascón, J.A. Recognition and reactivity in the binding between Raf kinase inhibitor protein and its small-molecule inhibitor locostatin. *J. Phys. Chem. B* **2012**, 116, 10176-10181.

Ren, G.; Baritaki, S.; Marathe, H.; Feng, J.; Park, S.; Beach, S.; Bazeley, P.S.; Beshir, A.B.; Fenteany, G.; Mehra, R.; Daignault, S.; Al Mulla, F.; Keller, E.; Bonavida, B.; de la Serna, I.; Yeung, K.C. Polycomb protein EZH2 regulates tumor invasion via the transcriptional repression of the metastasis suppressor RKIP in breast and prostate cancer. *Cancer Res.* **2012**, 72, 3091-3104.

- Eddy, N.A.; Kelly, C.B.; Mercadante, M.A.; Leadbeater, N.E.; Fenteany, G. Access to dienophilic ene-triketone synthons by oxidation of diketones with an oxoammonium salt. *Org. Lett.* **2012**, *14*, 498-501.
- Eddy, N.A.; Morse, P.D.; Morton, M.D.; Fenteany, G. Synthesis of oxazolidinone and tosyl enamines by tertiary amine catalysis. *Synlett* **2011**, *5*, 699-701.
- Beshir, A.B.; Argueta, C.E.; Menikarachchi, L.C.; Gascón, J.A.; Fenteany, G. Locostatin disrupts association of Raf kinase inhibitor protein with binding proteins by modifying a conserved histidine residue in the ligand-binding pocket. *Forum Immunopath. Dis. Ther.* **2011**, *2*, 47-58.
- Wang, Z.; Castellano, S.; Kinderman, S.S.; Argueta, C.E.; Beshir, A.B.; Fenteany, G.; Kwon, O. Diversity through a branched reaction pathway: generation of a library of sixteen multicyclic scaffolds and identification of antimigratory agents. *Chem. Eur. J.* **2011**, *17*, 649-654.
- Beshir, A.B.; Ren, G.; Magpusao, A.N.; Barone, L.M.; Yeung, K.C.; Fenteany, G. Raf kinase inhibitor protein suppresses nuclear factor- $\kappa$ B-dependent cancer cell invasion through negative regulation of matrix metalloproteinase expression. *Cancer Lett.* **2010**, *299*, 137-149.
- Knecht, D.A.; LaFleur, R.; Kahsai, A.W.; Argueta, C.E.; Beshir, A.B.; Fenteany, G. Cucurbitacin I inhibits cell motility by indirectly interfering with actin dynamics. *PLoS ONE* **2010**, *5*, e14039.
- Magpusao, A.N.; Desmond, R.; Billings, K.J.; Fenteany, G.; Peczuh, M.W. Synthesis and evaluation of antimigratory and antiproliferative activities of lipid-linked [13]-macrolactones. *Bioorg. Med. Chem. Lett.* **2010**, *20*, 5472-5476.
- Kahsai, A.W.; Zhu, S.; Fenteany, G. G protein-coupled receptor kinase 2 activates radixin, regulating membrane protrusion and motility in epithelial cells. *Biochim. Biophys. Acta* **2010**, *1803*, 300-310.
- Ménoret, A.; McAleer, J.P.; Ngoi, S.-M.; Ray, S.; Eddy, N.A.; Fenteany, G.; Lee, S.-J.; Rossi, R.J.; Mukherji, B.; Allen, D.L.; Chakraborty, N.G.; Vella, A.T. The oxazolidinone derivative locostatin induces cytokine appeasement. *J. Immunol.* **2009**, *183*, 7489-7496.
- Kahsai, A.W.; Cui, J.; Kaniskan, H.Ü.; Garner, P.P.; Fenteany, G. Analogs of tetrahydroisoquinoline natural products that inhibit cell migration and target galectin-3 outside of its carbohydrate-binding site. *J. Biol. Chem.* **2008**, *283*, 24534-24545.
- Beshir, A.B.; Guchhait, S.K.; Gascon, J.A.; Fenteany, G. Synthesis and structure-activity relationships of metal-ligand complexes that potently inhibit cell migration. *Bioorg. Med. Chem. Lett.* **2008**, *18*, 498-504.
- Mc Henry, K.T.; Montesano, R.; Zhu, S.; Beshir, A.B.; Tang, H.H.; Yeung, K.C.; Fenteany, G. Raf kinase inhibitor protein positively regulates cell-substratum adhesion while negatively regulating cell-cell adhesion. *J. Cell. Biochem.* **2008**, *103*, 972-985.
- Kahsai, A.W.; Zhu, S.; Wardrop, D.J.; Lane, W.S.; Fenteany, G. Quinocarmycin analog DX-52-1 inhibits cell migration and targets radixin, disrupting interactions of radixin with actin and CD44. *Chem. Biol.* **2006**, *13*, 973-983.
- Farooqui, R.; Zhu, S.; Fenteany, G. Glycogen synthase kinase-3 acts upstream of ADP-ribosylation factor 6 and Rac1 to regulate epithelial cell migration. *Exp. Cell Res.* **2006**, *312*, 1514-1525.
- Stossel, T.P.; Fenteany, G.; Hartwig, J.H. Cell surface actin remodeling. *J. Cell Sci.* **2006**, *119*, 3261-3264.

- Zhu, S.; Mc Henry, K.T.; Lane, W.S.; Fenteany, G. A chemical inhibitor reveals the role of Raf kinase inhibitor protein in cell migration. *Chem. Biol.* **2005**, *12*, 981-991.
- Farooqui, R.; Fenteany, G. Multiple rows of cells behind an epithelial wound edge extend cryptic lamellipodia to collectively drive cell-sheet movement. *J. Cell Sci.* **2005**, *118*, 51-63.
- Altan, Z.M.; Fenteany, G. c-Jun N-terminal kinase regulates lamellipodial protrusion and cell sheet migration during epithelial wound closure by a gene expression-independent mechanism. *Biochem. Biophys. Res. Commun.* **2004**, *322*, 56-67.
- Fenteany, G.; Glogauer, M. Cytoskeletal remodeling in leukocyte function. *Curr. Opin. Hematol.* **2004**, *11*, 15-24.
- Ankala, S.V.; Fenteany, G. Aryl, alkyl bis-silyl ethers: rapid access to monoprotected aryl alkyl and biaryl ethers. *Synlett* **2003**, *6*, 825-828.
- Fenteany, G.; Zhu, S. Small-molecule inhibitors of actin dynamics and cell motility. *Curr. Topics Med. Chem.* **2003**, *3*, 593-616.
- Mc Henry, K.T.; Ankala, S.V.; Ghosh, A.K.; Fenteany, G. A non-antibacterial oxazolidinone derivative that inhibits epithelial cell sheet migration. *ChemBioChem* **2002**, *3*, 1105-1111.
- Ankala, S.V.; Fenteany, G. Selective deprotection of either aryl or alkyl silyl ethers from aryl, alkyl bis-silyl ethers. *Tetrahedron Lett.* **2002**, *43*, 4729-4732.
- Fenteany, G.; Janmey, P.A.; Stossel, T.P. Signaling pathways and cell mechanics involved in wound closure by epithelial cell sheets. *Curr. Biol.* **2000**, *10*, 831-838.
- Corey, E.J.; Li, W.Z.; Nagamitsu, T.; Fenteany, G. The structural requirements for inhibition of proteasome function by the lactacystin-derived  $\beta$ -lactone and synthetic analogs. *Tetrahedron* **1999**, *55*, 3305-3316.
- Fenteany, G.; Schreiber, S.L. Lactacystin, proteasome function, and cell fate. *J. Biol. Chem.* **1998**, *273*, 8545-8548.
- Degnan, B.M.; Degnan, S.M.; Fenteany, G.; Morse, D.E. A Mox homeobox gene in the gastropod mollusc *Haliotis rufescens* is differentially expressed during larval morphogenesis and metamorphosis. *FEBS Lett.* **1997**, *411*, 119-122.
- Craiu, A.; Gaczynska, M.; Akopian, T.; Gramm, C.F.; Fenteany, G.; Goldberg, A.L.; Rock, K.L. Lactacystin and clasto-lactacystin  $\beta$ -lactone modify multiple proteasome  $\beta$ -subunits and inhibit intracellular protein degradation and major histocompatibility complex class I antigen presentation. *J. Biol. Chem.* **1997**, *272*, 13437-13445.
- Fenteany, G.; Schreiber, S.L. Specific inhibition of the chymotrypsin-like activity of the proteasome induces a bipolar morphology in neuroblastoma cells. *Chem. Biol.* **1996**, *3*, 905-912.
- Fenteany, G.; Standaert, R.F.; Lane, W.S.; Choi, S.; Corey, E.J.; Schreiber, S.L. Inhibition of proteasome activities and subunit-specific amino-terminal threonine modification by lactacystin. *Science* **1995**, *268*, 726-731.
- Fenteany, G.; Standaert, R.F.; Reichard, G.A.; Corey, E.J.; Schreiber, S.L. A  $\beta$ -lactone related to lactacystin induces neurite outgrowth in a neuroblastoma cell line and inhibits cell cycle progression in an osteosarcoma cell line. *Proc. Natl. Acad. Sci. USA* **1994**, *91*, 3358-3362.
- Fenteany, G.; Morse, D.E. Specific inhibitors of protein synthesis do not block RNA synthesis or settlement of planktonic larvae in a marine gastropod mollusc (*Haliotis rufescens*). *Biol. Bull.* **1993**, *184*, 6-14.

## THESES

Fenteany, G. Lactacystin, Proteasome Function and Cell Morphology. Unpublished Doctoral Dissertation, Harvard University, 1997.

Fenteany, G. Antibiotic Inhibitors of Protein Synthesis: Relative Efficacy in Larvae of *Haliotis rufescens* (Gastropod Mollusc) and Effects on Larval Settling Behavior. Unpublished Master's Thesis, University of California, Santa Barbara, 1992.

### INVITED SEMINARS

- 04/10/2011 Chemical Biology of Cell Motility, Department of Chemistry, Connecticut College
- 04/03/2011 Chemical Biology of Cell Motility, Department of Medicinal Chemistry, College of Pharmacy, University of Minnesota
- 04/09/2010 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, Brown University, Providence, Rhode Island.
- 03/18/2010–03/20/2010 Interactions of Raf Kinase Inhibitor Protein with Natural and Unnatural Binding Partners, First International Workshop on Prognostic and Therapeutic Applications of RKIP in Cancer, University of California, Los Angeles, Los Angeles, California.
- 04/23/2009 Chemical Approaches to Understanding and Controlling Cell Migration, Center for Cell Analysis and Modeling, University of Connecticut Health Center, Connecticut.
- 03/01/2009–03/04/2009 Indo-American Frontiers of Science Symposium (Indo-U.S. Science and Technology Forum and U.S. National Academy of Sciences), Agra, India.
- 04/06/2008 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, Washington State University, Pullman, Washington.
- 12/05/2007 Chemical Biology of Cell Motility, Department of Pharmaceutical Sciences, School of Pharmacy, University of Connecticut, Storrs, Connecticut.
- 12/04/2007 Identification of Small-Molecule Modulators of Cell Migration, American Society for Cell Biology 47th Annual Meeting, Washington, D.C.
- 10/04/2007 Chemical Biology of Cell Motility, Department of Molecular and Cellular Biology, University of Connecticut, Storrs, Connecticut.
- 09/27/2007 Chemical Biology of Cell Motility, Department of Biochemistry and Cancer Biology, College of Medicine, University of Toledo, Toledo, Ohio.
- 09/12/2007 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Physiology and Neurobiology, University of Connecticut, Storrs, Connecticut.
- 04/14/2006 Chemical Approaches to Understanding and Controlling Wound Healing. University of Wisconsin-Madison, Wisconsin.
- 02/09/2006 Chemical Approaches to Studying Cell Migration. Department of Chemistry, Case Western Reserve University, Cleveland, Ohio.
- 02/08/2006 Chemical Approaches to Studying Cell Migration. Department of Chemistry, John Carroll University, University Heights, Ohio.

- 10/05/2005 Chemical Approaches to Understanding Cell Migration. Frontiers of GI Research Seminar, College of Medicine, University of Illinois, Chicago, Illinois.
- 08/10/2005 Chemical Proteomics: Deciphering Protein Function. Technical Scientific Workshop Series. Boston, Massachusetts.
- 05/21/2005 Discovery of Compounds Affecting Cell Movement using High Throughput Screening. 2005 Annual Meeting of the Wound Healing Society, Chicago, Illinois.
- 05/13/2005 Chemical Approaches to Understanding Cell Migration. Department of Chemistry, University of California, Irvine, California.
- 03/31/2005 Chemical Approaches to Understanding Cell Migration. Department of Chemistry, University of Illinois, Urbana-Champaign, Illinois.
- 03/06/2005 Chemical Approaches to Understanding and Controlling Cell Migration. Department of Chemistry, University of Connecticut, Storrs, Connecticut.
- 02/01/2005 Chemical Approaches to Understanding Cell Migration. Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, Texas.
- 11/10/2004 Chemical Approaches to Understanding Cell Migration. Department of Biological, Chemical and Physical Sciences, Illinois Institute of Technology, Chicago, Illinois.
- 09/29/2004 Chemical Approaches to Understanding Cell Motility and Morphogenesis. Department of Pharmaceutical Sciences, University of Michigan, Ann Arbor, Michigan.
- 07/23/2004 Molecular Control of Actin Polymerization. Department of Physics, Brown University, Providence, Rhode Island.
- 09/17/2003 Chemical Approaches to Understanding Cell Motility. Department of Pharmacology, University of Illinois, Chicago, Illinois.
- 02/18/2003 Chemical Approaches to Understanding Cell Motility. Department of Chemistry, University of Illinois, Chicago, Illinois.
- 02/07/2003 Chemical Approaches to Understanding Cell Motility. Department of Medicinal Chemistry and Pharmacognosy, University of Illinois, Chicago, Illinois.
- 10/18/2002 Chemical Approaches to Understanding Cell Motility. Chicago Cytoskeleton Conference, Chicago, Illinois.
- 10/29/1999-10/31/1999 Mechanism and Mechanics of Wound Closure by Epithelial Cell Sheets, Life Sciences Research Foundation Annual Meeting, Dallas, Texas.
- 10/15/1999 What the Web Can Do for the Bioscientist. First Joint Biomedical Engineering Society/Engineering in Medicine and Biology Society (BMES/EMBS) Conference, Atlanta, Georgia.
- 07/21/1998 Mechanism and Mechanics of Wound Closure by Epithelial Cell Sheets, Department of Biology, University of Virginia, Charlottesville, Virginia.

**POSTER PRESENTATIONS AT MEETINGS**



- 04/02/2017 Fenteany, G.; Inoue, T.; Bahtiyar, G.; Fishman, S.; Sacerdote, A.S. Pulmonary Arterial Hypertension in Patients with Hyperthyroid Graves' Disease and Toxic Multinodular Goiter, 2017 Endocrine Society Annual Meeting.
- 04/01/2017 Inoue, T.; Sacerdote, A.S.; Neog, M.; Patel, R.; Fenteany, G.; Patibandla, K.; Bahtiyar, G. Non-Classic 11-Hydroxylase Deficiency Presenting As an Adrenal Incidentaloma with Biochemical Amelioration Associated with Weight Loss and Vitamin D Repletion, 2017 Endocrine Society Annual Meeting.
- 03/02/2009 Fenteany, G. Chemical Approaches to Understanding and Controlling Cell Migration. Indo-American Frontiers of Science Symposium (Indo-U.S. Science and Technology Forum and U.S. National Academy of Sciences), Agra, India.
- 12/04/2007 Kahsai, A.W.; Zhu, S.; Wardrop, D.J.; Lane, W.S.; Fenteany, G. Quinocarmycin Analog DX-52-1 Inhibits Cell Migration and Targets Radixin, Disrupting Interactions of Radixin with Actin and CD44. American Society for Cell Biology 47th Annual Meeting, Washington, D.C.
- 08/20/2007 Kahsai, A.W.; Zhu, S.; Wardrop, D.J.; Lane, W.S.; Fenteany, G. Quinocarmycin Analog DX-52-1 Inhibits Cell Migration and Targets Radixin, Disrupting Interactions of Radixin with Actin and CD44. American Chemical Society 234th National Meeting, Boston, Massachusetts.
- 05/27/2007–06/01/2007 Mc Henry, K.T.; Montesano, R.; Zhu, S.; Beshir, A.B.; Tang, H.-H.; Yeung, K.; Fenteany, G. Raf Kinase Inhibitor Protein Positively Regulates Cell-Substratum Adhesion while Negatively Regulating Cell-Cell Adhesion. Gordon Research Conference, Cell Contact and Adhesion, Lucca (Barga), Italy.
- 12/14/2005 Zhu, S.; Mc Henry, K.T.; Fenteany, G. A New Positive Role for Raf Kinase Inhibitor Protein in Epithelial Cell Migration. American Society for Cell Biology 45th Annual Meeting, San Francisco, California.
- 12/12/2005 Farooqui, R.; Fenteany, G. Collective Migration of Epithelial Cells. American Society for Cell Biology 45th Annual Meeting, San Francisco, California.
- 10/15/2004 Farooqui, R.; Fenteany, G. Multiple Rows of Cells behind an Epithelial Wound Edge Extend Cryptic Lamellipodia to Collectively Drive Cell Sheet Movement While Maintaining Cell-Cell Contacts. Cytoskeleton in Health and Disease Symposium, Northwestern University, Chicago, Illinois.
- 10/17/2003 Fenteany, G. Chemical Approaches to Understanding Cell Motility and Morphogenesis. Cytoskeleton in Health and Disease Symposium, Northwestern University, Chicago, Illinois.
- 06/29/2003–07/04/2003 Fenteany, G. Chemical Approaches to Understanding Cell Motility. Gordon Research Conference, Motile and Contractile Systems, Colby-Sawyer College, New London, New Hampshire.

06/17/2001–06/22/2001 Fenteany, G. Pharmacological Dissection of the Mechanisms of Cell Sheet Migration and Embryonic Tissue Morphogenesis. Gordon Research Conference, Tissue Repair and Regeneration, Colby-Sawyer College, New London, New Hampshire.

### **PUBLISHED MEETING ABSTRACTS**

- Rudnitskaya, A.N.; Menikarachchi, L.C.; Fenteany, G.; Gascón, J.A. Mechanistic study of the reaction between locostatin and Raf kinase inhibitor protein (RKIP). *Abstracts of Papers of the American Chemical Society* **2011**, 242, 199-COMP.
- Abraham, S.T.; Moody C.I.; Fenteany, G. Raf-1 kinase inhibitor protein regulates migration of vascular smooth muscle cells independent of ERK-MAP kinase. *FASEB J.* **2007**, 21, A1441.
- Fenteany, G. What the Web can do for the bioscientist. *Proceedings of the First Joint BMES/EMBS Conference.* **1999**, 1203.
- Corey, E.J.; Reichard, G.A.; Li, W.Z.; Choi, S.; Nagamitsu, T.; Fenteany, G.; Schreiber, S.L. Synthetic and biological studies with lactacystin and analogs. *Abstracts of Papers of the American Chemical Society* **1998**, 216, 500-ORGN, Part 2.
- Criau, A.; Gaczynska, M.; Akopian, T.; Gramm, C.F.; Fenteany, G.; Goldberg, A.L. Rock, K.L. Lactacystin modifies multiple proteasome  $\beta$  subunits and blocks intracellular protein degradation and major histocompatibility class I antigen presentation, facilitating analysis of processing pathways. *J. Allergy Clin. Immun.* **1997**, 99, 1030.
- Rock, K.L.; Criau, A.; Gaczynska, M.; Akopian, T.; Fenteany, G.; Goldberg, A.L. How peptides are generated for MHC class I antigen presentation. *FASEB J.* **1997**, 11, A860.

### **PATENTS**

- Compound libraries made through phosphine-catalyzed annulation/Tebbe/Diels-Alder reactions  
US 8624032  
Publication date: Jan. 7, 2014  
Filing date: Nov. 9, 2012  
Priority date: Nov. 9, 2011  
Also published as: US20130143916  
Inventors: Ohyun Kwon, Gabriel Fenteany
- Inhibitors of animal cell motility and growth  
US 7390826  
Publication date: Jun. 24, 2008  
Filing date: Oct. 26, 2005  
Priority date: Jun. 12, 2002  
Also published as: US20030236290, US20060063935, WO2003106437A1  
Inventors: Gabriel Fenteany, Arun K. Ghosh, Kevin McHenry, Sudha Ankala, Sarosh Anjum, Shoutian Zhu
- Lactacystin analogs  
US 6645999

PCT number: PCT/US1996/005072

Publication date: Nov. 11, 2003

Filing date: Apr. 12, 1996

Also published as: CA2217817A1, CN1151787C, CN1187769A, DE69636902D1, DE69636902T2, EP0820283A1, EP0820283A4, EP0820283B1, US5756764, US6147223, US6214862, US6335358, US6458825, WO1996032105A1

Inventors: Stuart L. Schreiber, Robert F. Standaert, Gabriel Fenteany, Timothy F. Jamison

## **MENTORSHIP**

**Postdoctoral Fellows:** Sudha V. Ankala (Principal Scientist, CoMentis), Bharat R. Bhattarai (Owner, Kathmandu Restaurant, Storrs, CT), Hari Gobburu (Associate Director of Global Sourcing, Eli Lilly), Nicholas A. Eddy (Visiting Assistant Professor), Sankar K. Guchhait (Assistant Professor, National Institute of Pharmaceutical Education and Research, India), Satyendra Mishra (postdoctoral fellow at University of Minnesota), Babajide Okandeji (Staff Scientist, Waters Corporation)

**Ph.D. Students:** Z. Melis Altan (Scientific Sales Consultant, Beckman Coulter, formerly postdoctoral fellow at Merck Serono), Christian E. Argueta (postdoctoral fellow at Brigham and Women's Hospital), Anwar B. Beshir (Assistant Professor in Residence, University of Connecticut), Alem W. Kahsai (postdoctoral fellow at Duke University with Prof. Robert J. Lefkowitz), Rizwan Farooqui (Senior Product Marketing Manager, Infection Prevention at CareFusion), Anniefer N. Magpusao (joint with Prof. Mark W. Pecuh), Kevin T. Mc Henry (Oncology Medical Science Liaison, AstraZeneca, formerly postdoctoral fellow at Novartis Pharmaceuticals), Matthew L. Rotondi (University of Texas Health Sciences Center), Shoutian Zhu (principal investigator at the California Institute for Biomedical Research (Calibr), formerly postdoctoral fellow with Prof. Peter G. Schultz)

**M.S. Students:** Sarosh Anjum (Project Manager, Perceptive Informatics), Junru Cui (research assistant at University of Connecticut), Priscillia K. Uba-Oyibo, Michael T. Otley (postdoctoral fellow at Northwestern University), Donghui Song (research assistant, University of Connecticut)

**Undergraduates:** Linda B. Drozdowicz (went on to medical studies at the Mayo Clinic College of Medicine), Angel Fung, Daniel J. Hagen, Jenaya L. Goldwag, Shannon A. Heyse (went on to graduate studies at Boston University), Mateusz Hoppe (summer REU student), Kristi Kearney, Stephen T. Lincoln, Joseph Lucas (summer REU student), Denise D. Maniakouras, Peter D. Morse (went on to graduate studies at UNC, Chapel Hill), Mark A. O'Brien, Jay Richardson, Amanda L. Soohoo (went on to graduate studies at Carnegie Mellon University), Anna A. Weiss (went on to graduate studies at Northwestern University and Loyola University, Chicago), Yekaterina Zavgorodniy

**Technician:** Anna A. Weiss (went on to graduate studies at Northwestern University and Loyola University, Chicago)

**High School Students** (Sponsored by the American Cancer Society): Mingzhu He (went on to undergraduate studies at the University of Chicago), Alan Vuong (went on to undergraduate studies at the University of Chicago)

## **Theses of Mentored Ph.D. Students**

- Altan, Z.M. The Role of the c-Jun N-Terminal Kinase Pathway in Epithelial Cell Sheet Migration. Unpublished Doctoral Dissertation, University of Illinois, Chicago, 2006.
- Beshir, A.B. Small-Molecule Inhibitors and Their Molecular Targets. Unpublished Doctoral Dissertation, University of Connecticut, 2009.
- Farooqui, R. Mechanics and Mechanism of Epithelial Cell Sheet Migration. Unpublished Doctoral Dissertation, University of Illinois, Chicago, 2006.
- Kahsai, A.W. Mechanism of Action of the Cell Migration Inhibitor Quinocarmycin Analog DX-52-1. Unpublished Doctoral Dissertation, University of Connecticut, 2008.
- Mc Henry, K.T. Discovery of Locostatin: A Small-Molecule Inhibitor of Cell Migration and Adhesion. Unpublished Doctoral Dissertation, University of Illinois, Chicago, 2006.
- Zhu, S. Chemical Genetics Approach Reveals the Role of Raf Kinase Inhibitor Protein in Cell Migration. Unpublished Doctoral Dissertation, University of Illinois, Chicago, 2006.

## **PROFESSIONAL SERVICE**

### **Scientific Committee Service**

- 2010 Evaluation of External Faculty Tenure Case
- 2003–2006 American Cancer Society Illinois Division Research Advisory Committee
- 01/19/2005 Multiple Myeloma Research Foundation/Multiple Myeloma Research Consortium Scientific Advisors Summit Participant

### **Editor for Scientific Journal**

- 2011–Present Academic Editor, PLoS ONE

### **Reviewer for Scientific Journals (with number of reviews for each)**

- ACS Chemical Biology* (3)
- African Journal of Microbiology Research* (1)
- Biophysical Journal* (5)
- Bioorganic and Medicinal Chemistry* (4)
- Bioorganic and Medicinal Chemistry Letters* (13)
- BioTechniques* (1)
- Blood* (1)
- Briefings in Bioinformatics* (1)
- ChemBioChem* (7)
- Chemical Research in Toxicology* (1)
- Chemistry and Biology* (11)
- Chemistry – A European Journal* (2)
- Current Medicinal Chemistry* (1)
- Current Topics in Medicinal Chemistry* (1)
- European Journal of Medicinal Chemistry* (3)
- Experimental Cell Research* (8)
- Expert Opinion on Investigational Drugs* (1)
- FEBS Letters* (1)
- IBM Journal of Research and Development* (1)
- Inorganic Chemical Communications* (1)
- International Journal of Molecular Sciences* (2)

*Journal of Enzyme Inhibition and Medicinal Chemistry* (1)  
*Journal of the American Chemical Society* (7)  
*Journal of Cellular Biochemistry* (1)  
*Journal of Cell Science* (9)  
*Journal of Clinical Investigation* (1)  
*Journal of Clinical Pathology* (1)  
*Journal of Neuroscience* (1)  
*Journal of Neuroscience Methods* (1)  
*Journal of Pathology* (1)  
*Journal of Pharmacological and Toxicological Methods* (1)  
*Laboratory Investigation* (1)  
*Neoplasia* (1)  
*Oncogene* (1)  
*Organic Letters* (2)  
*PLoS ONE* (4)  
*Polyhedron* (6)  
*Protein Science* (1)  
*Medicinal Chemistry Reviews – Online* (1)  
*Molecular BioSystems* (1)  
*Molecular and Cellular Biochemistry* (1)  
*Nucleosides, Nucleotides and Nucleic Acids* (1)  
*Phosphorus, Sulfur, and Silicon* (1)  
*Proceedings of the National Academy of Sciences USA* (1)  
*Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (2)  
*Synlett* (1)  
*Tumor Biology* (1)

### Reviewer of Scientific Research Proposals

2011	National Science Foundation – Division of Chemistry
2009	National Institutes of Health – Synthetic and Biological Chemistry B Study Section, <i>Ad Hoc</i> Member
2009	National Science Foundation – Integrative Organismal Systems – Animal Developmental Mechanisms
2009	National Institutes of Health, Stage 1 Reviewer for RC1 Challenge Grants
2008	National Science Foundation – Molecular and Cellular Biosciences
2008	American Heart Association Bioengineering 2 Peer Review Study Group
2007	National Science Foundation – Molecular and Cellular Biosciences
2006	National Institutes of Health – Synthetic and Biological Chemistry B Study Section, <i>Ad Hoc</i> Member
2003–2006	American Cancer Society
2003	Vahlteich Endowment Research Fund

### Miscellaneous

2005–2009 Faculty of 1000 Member, “Chemical Biology of the Cell” Section of the Chemical Biology Faculty. Section heads: Kevan Shokat and Roger Tsien.  
 2006–2007 Product Evaluator for Platypus Technologies, LLC, Madison, Wisconsin

(evaluation of new high-throughput cell migration assays)

**PROFESSIONAL MEMBERSHIPS**

American Chemical Society  
 American Society for Biochemistry and Molecular Biology  
 American Society for Cell Biology

**UNIVERSITY SERVICE****Undergraduate**

2007–present      Advisory Board Member, Office of Undergraduate Research, University of Connecticut  
 2004–2006        Phi Beta Kappa Election Committee, University of Illinois, Chicago  
 2002–2006        Faculty Advisor, Honor's College, University of Illinois, Chicago

**M.S. Thesis Advisory Committees**

2010      Ronald Ramsubhag (Organic Chemistry)  
 2008      Pedro Daddario (Organic Chemistry)  
 2007      Hua Yang (Analytical Chemistry)  
 2004      Mignon Hernreiter (Biochemistry)

**Ph.D. Thesis Advisory Committees**

2010      Megan Nollenberger (Biological Chemistry)  
 2009      Anwar Beshir (Biological Chemistry), Jaideep Shah (Organic Chemistry)  
 2009      Wesley Fyvie (Organic Chemistry)  
 2008      Steve Castro (Organic Chemistry), Alem Kahsai (Biological Chemistry)  
 2007      Amber Onorato (Organic Chemistry), Alexis Ramos (Analytical Chemistry), Jaideep Shah (Organic Chemistry)  
 2006      Z. Melis Altan (Biochemistry), Rizwan Farooqui (Biochemistry), Kevin T. Mc Henry (Biochemistry), Shoutian Zhu (Biochemistry)  
 2005      Jennifer Barber-Singh (Analytical Chemistry), Sumith Kottegoda (Analytical Chemistry), John Rafter (Biochemistry)  
 2004      Pierre Daublain (Organic Chemistry), Leyi Gao (Analytical Chemistry), Youngjun Kim (Biochemistry), Xiayan Zhao (Analytical Chemistry)  
 2003      Bharath Ananthanarayanan (Biochemistry), Sudipto Das (Biochemistry), Michele Digman (Biochemistry), Robert Stahelin (Biochemistry), Wenming Zhang (Organic Chemistry)  
 2002      Martina Bertsch (Biochemistry), Geoff Bilcer (Organic Chemistry), Kathleen Mandell (Biochemistry), Dongwoo Shin (Organic Chemistry)  
 2001      Layne Morsch (Organic Chemistry), Daniel Stanford (Organic Chemistry), Michael Whiteside (Biochemistry)

**Search Committees**

2011      Molecular and Cell Biology Faculty Search Committee, University of Connecticut  
 2010      Mass Spectrometry Scientist Search Committee, University of Connecticut  
 2010      Chemistry Grants and Contracts Manager Search Committee, University of Connecticut

- 2008 Chemistry–Institute of Materials Science Faculty Search Committee, University of Connecticut
- 2002 Biochemistry Faculty Search Committee, University of Illinois, Chicago
- 2001 Organic Chemistry Faculty Search Committee, University of Illinois, Chicago
- 2001 Analytical Chemistry Faculty Search Committee, University of Illinois, Chicago

#### **Other Departmental Committees**

- 2010–present Head, Organic Chemistry Division, Department of Chemistry, University of Connecticut
- 2010–present Advisory Committee, Department of Chemistry, University of Connecticut
- 2007–present Teaching Assistant Affairs Committee, Department of Chemistry, University of Connecticut
- 2006–present Graduate Affairs Committee, Department of Chemistry, University of Connecticut
- 2007–2009 Advisory Committee, Department of Chemistry, University of Connecticut

#### **Other University Service**

- 2008–present Co-Director, University of Connecticut High Throughput Screening Facility, Storrs, Connecticut

### **TEACHING EXPERIENCE**

- 2013, Fall Instructor, Biological Chemistry I, University of Connecticut
- 2012, Spring Instructor, Organic Chemistry II, University of Connecticut
- 2011, Fall Instructor, Biological Chemistry I, University of Connecticut
- 2011, Spring Co-Instructor, Introduction to Undergraduate Research (Molecular and Cell Biology), University of Connecticut
- 2010, Fall Instructor, Introduction to Undergraduate Research, University of Connecticut
- 2010, Fall Instructor, Biological Chemistry I, University of Connecticut
- 2010, Spring Instructor, Organic Chemistry II, University of Connecticut
- 2009, Fall Instructor, Biological Chemistry I, University of Connecticut
- 2009, Spring Instructor, Organic Chemistry II, University of Connecticut
- 2008, Fall Instructor, Biological Chemistry I, University of Connecticut
- 2008, Spring Instructor, Graduate Student Seminar Series, University of Connecticut
- 2008, Spring Instructor, Organic Chemistry II, University of Connecticut
- 2007, Fall Instructor, Organic Chemistry I, University of Connecticut
- 2007, Fall Co-Instructor, Biological Chemistry II, University of Connecticut
- 2007, Spring Instructor, Organic Chemistry II, University of Connecticut
- 2006, Fall Instructor, Organic Chemistry I, University of Connecticut
- 2005, Spring Instructor, Biochemistry I, University of Illinois, Chicago
- 2004, Fall Instructor, Chemical Biology and Bioorganic Chemistry, University of Illinois, Chicago
- 2004, Spring Instructor, Chemical Biology and Bioorganic Chemistry, University of Illinois, Chicago



2003, Fall Instructor, Literature Seminar in Biochemistry, University of Illinois, Chicago  
2003, Spring Instructor, Biochemistry I, University of Illinois, Chicago  
2002, Fall Instructor, Chemical Biology and Bioorganic Chemistry, University of Illinois, Chicago  
2002, Fall Instructor, Literature Seminar in Biochemistry, University of Illinois, Chicago  
2002, Spring Instructor, Biochemistry I, University of Illinois, Chicago  
2001, Fall Instructor, Chemical Biology and Bioorganic Chemistry, University of Illinois, Chicago  
2001, Fall Instructor, Literature Seminar in Biochemistry, University of Illinois, Chicago  
2001, Spring Instructor, Biochemistry I, University of Illinois, Chicago  
2000, Fall Instructor, Chemical Biology and Bioorganic Chemistry, University of Illinois, Chicago  
1996, Fall Discussion Section Teaching Fellow, Introductory Molecular Biology, Harvard University  
1996, Spring Laboratory Teaching Fellow, Introduction to Genetics, Molecular, Cellular and Developmental Biology, Harvard University  
1995, Spring Head Teaching Fellow, Principles of Biochemistry and Cell Biology, Harvard University  
1994, Fall Discussion Section Teaching Fellow, Introductory Molecular Biology, Harvard University  
1994, Spring Discussion Section Teaching Fellow, Principles of Biochemistry and Cell Biology, Harvard University  
1991, Spring Laboratory Teaching Assistant, Introductory Biology, University of California, Santa Barbara, California