

Gabriel Fenteany, Ph.D.

Biological Research Centre of the Hungarian Academy of Sciences
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Citizenship: Dual USA and Hungary/EU

EDUCATION

- 1997 Ph.D., Biochemistry, Harvard University, Cambridge, Massachusetts (with Profs. Stuart L. Schreiber and Elias J. Corey)
1992 M.A., Biochemistry and Molecular Biology, University of California, Santa Barbara (with Prof. Daniel E. Morse)
1990 B.A., Biochemistry, Aquatic Biology, University of California, Santa Barbara
1989 *Licence* (B.S. equivalent), Biology, Université de Franche-Comté, France (as foreign exchange student from Reed College)
1985 – 1989 Reed College, Portland, Oregon

PROFESSIONAL EXPERIENCE

- 2017 – present Senior Research Scientist and Group Leader, Institute of Genetics, Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary
2015 – 2017 Senior Research Scientist/Research and Grants Advisor, Research Administration & Data Sciences Research Center, New York City Health and Hospitals and New York University Medical Center
2015 – 2017 Senior Research Scientist, Division of Endocrinology, New York City Health and Hospitals/Woodhull and New York University Medical Center
2008 – 2015 Faculty of the Cell Biology Graduate Program, University of Connecticut, Storrs
2008 – 2015 Faculty Co-Director of the High-Throughput Screening Facility, University of Connecticut, Storrs
2007 – 2015 Faculty of the Structural Biology Partnership, University of Connecticut, Storrs
2006 – 2015 Associate Professor of Chemistry, University of Connecticut, Storrs
2000 – 2006 Assistant Professor of Chemistry, University of Illinois, Chicago
1997 – 2000 Life Sciences Research Foundation Postdoctoral Fellow, Harvard Medical School, Boston, Massachusetts (with Profs. Paul A. Janmey and Thomas P. Stossel)

WEB DEVELOPMENT AND CONTENT CREATION

- 1999 – present Creator and Maintainer, The Virtual Library of Biochemistry, Molecular Biology and Cell Biology, <http://biochemweb.net>
1998 – 2000 Creator and Maintainer, Experimental Medicine and Hematology Websites, Brigham and Women's Hospital, Harvard Medical School

AWARDS AND HONORS

- 2007 University of Connecticut Undergraduate Student Government Educator of the Year
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 National Honor Society
 1990 Election to Golden Key National Honor Society
 1985 Alice Tweed Tuohy Honors Scholarship, Scholarship Foundation of Santa
 Barbara

RESEARCH SUPPORT

R01GM077622, Fenteany, G. (PI), 06/01/2006 – 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), 09/11/2009 – 08/31/2012
 National Institutes of Health (NIGMS)
 Mechanism of Action of New Inhibitors of Cell Migration
 Role: PI Amount: \$200,451

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

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

UHC/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-PI), 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-PI), 08/01/2008 – 12/31/2007
 Role: Co-PI 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-PI 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, 3:22.
- 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.
- Eddy, N.A., Fenteany, G. Model studies directed to the synthesis of cucurbitacin I C/D rings. *Tetrahedron Lett.* 2015, 56:5079-5081.
- Magpusao, A.N., Omolloh, G., Johnson, J., Gascón, J., Peczu, 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, 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.
- Eddy, N.A., Kelly, C.B., Mercadante, M.A., Leadbeater, N.E., Fenteany, G. Access to dienophilic enetriketone synthons by oxidation of diketones with an oxoammonium salt. *Org. Lett.* 2012, 14:498-501.
- 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.
- 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.
- 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, 2:47-5
- 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.
- 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- κ B-dependent cancer cell invasion through negative regulation of matrix metalloproteinase expression. *Cancer Lett.* 2010, 299:137-149.

- 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.
- 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]-macro-dilactones. *Bioorg. Med. Chem. Lett.* 2010, 20:5472–5476.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Stossel, T.P., Fenteany, G., Hartwig, J.H. Cell surface actin remodeling. *J. Cell Sci.* 2006, 119:3261–3264.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 β -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 β -lactone modify multiple proteasome β -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 β -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
- 04/23/2009 Chemical Approaches to Understanding and Controlling Cell Migration, Center for Cell Analysis and Modeling, University of Connecticut Health Center
- 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
- 12/05/2007 Chemical Biology of Cell Motility, Department of Pharmaceutical Sciences, School of Pharmacy, University of Connecticut, Storrs
- 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
- 09/27/2007 Chemical Biology of Cell Motility, Department of Biochemistry and Cancer Biology, College of Medicine, University of Toledo, Ohio
- 09/12/2007 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Physiology and Neurobiology, University of Connecticut, Storrs

- 04/14/2006 Chemical Approaches to Understanding and Controlling Wound Healing. University of Wisconsin-Madison
- 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
- 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
- 03/31/2005 Chemical Approaches to Understanding Cell Migration, Department of Chemistry, University of Illinois, Urbana-Champaign
- 03/06/2005 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, University of Connecticut, Storrs
- 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
- 09/29/2004 Chemical Approaches to Understanding Cell Motility and Morphogenesis, Department of Pharmaceutical Sciences, University of Michigan, Ann Arbor
- 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
- 02/18/2003 Chemical Approaches to Understanding Cell Motility, Department of Chemistry, University of Illinois, Chicago
- 02/07/2003 Chemical Approaches to Understanding Cell Motility, Department of Medicinal Chemistry and Pharmacognosy, University of Illinois, Chicago
- 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: A Lesson by Example(s), 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

POSTER PRESENTATIONS AT MEETINGS

- 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). *Abstr. Pap. Am. Chem. Soc.* 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: a lesson by example(s). *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. *Abstr. Pap. Am. Chem. Soc.* 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 β 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 (US8624032)

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 (US7390826)

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 (US6645999)

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

MENTORSHIP

Postdoctoral Fellows: Sudha V. Ankala (Principal Scientist, CoMentis), Anwar B. Beshir (Assistant Professor in Residence, University of Connecticut), Bharat R. Bhattarai, Hari Gobburu (Associate Director of Global Sourcing, Eli Lilly), Nicholas A. Eddy (Visiting Assistant Professor, University of Connecticut), Sankar K. Guchhait (Assistant Professor, National Institute of Pharmaceutical Education and Research, India), Satyendra Mishra (postdoctoral fellow at University of Minnesota), Babajide Okandeji (Product Manager, SCIEX)

Ph.D. Students: Z. Melis Altan (Scientific Sales Consultant, Beckman Coulter), Christian E. Argueta (Postdoctoral Fellow, Brigham and Women's Hospital, Harvard Medical School), Anwar B. Beshir (Assistant Professor in Residence, University of Connecticut), Alem W. Kahsai (Assistant Professor, Duke University), Rizwan Farooqui (Senior Product Marketing Manager, Infection Prevention at CareFusion), Paras Gaur (Biological Research Centre of the Hungarian Academy of Sciences), Péter Germán (Biological Research Centre of the Hungarian Academy of Sciences), Lili Hegedűs (Biological Research Centre of the Hungarian Academy of Sciences), Anniefer N. Magpusao (Postdoctoral Fellow, Case Western Reserve University), Kevin T. Mc Henry (Oncology Medical Science Liaison, AstraZeneca), Matthew L. Rotondi (Postdoctoral Fellow, University of Texas Health Sciences Center), Gaurav Sharma (Biological Research Centre of the Hungarian Academy of Sciences), Shoutian Zhu (Director of Research, Regulus Therapeutics)

M.S. Students: Sarosh Anjum (Project Manager, Perceptive Informatics), Junru Cui (Postdoctoral Fellow, University of Connecticut), Mihae Hong, Michael T. Otley (Postdoctoral Fellow, Northwestern University), Donghui Song (Graduate Research Assistant, University of Connecticut), Priscillia K. Uba-Oyibo

Undergraduates: Christian E. Argueta (Postdoctoral Fellow, Brigham and Women's Hospital, Harvard Medical School), Linda B. Drozdowicz (M.D. from Mayo Clinic College of Medicine), Angel Fung, Daniel J. Hagen, Jenaya L. Goldwag, Shannon A. Heyse (Ph.D. from Boston University), Mateusz Hoppe, Kristi Kearney, Stephen T. Lincoln, Joseph Lucas, Denise D. Maniakouras, Nick Minutolo, Peter D. Morse (Ph.D. from UNC, Chapel Hill), Mark A. O'Brien, Jay Richardson, Amanda L. Soohoo (Ph.D. from Carnegie Mellon University), Anna A. Weiss (Ph.D. from Loyola University, M.S. from Northwestern University), Yekaterina Zavgorodniy

Technicians: Katalin Illésné Kovács (Biological Research Centre of the Hungarian Academy of Sciences), Anna A. Weiss (Ph.D. from Loyola University, M.S. from Northwestern University)

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

Argueta, C.E. Small molecule inhibitors of cell migration and the subcellular localization of Raf kinase inhibitor protein. Unpublished Doctoral Dissertation, University of Connecticut, 2012

Beshir, A.B. Small-Molecule Inhibitors and Their Molecular Targets. Unpublished Doctoral Dissertation, University of Connecticut, 2009

Eddy, N.A. Studies Directed Towards the Total Synthesis of Cucurbitacin I. Unpublished Doctoral Dissertation, University of Connecticut, 2012

Farooqui, R. Mechanics and Mechanism of Epithelial Cell Sheet Migration. Doctoral Dissertation, University of Illinois, Satyendra Mishra 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

Rotondi, M.L. The Influence of DX-52-1 and Phosphorylation on the Interactions of Galectin-3 with Its Binding Partners. Unpublished Doctoral Dissertation, University of Connecticut, 2014

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
2005	Multiple Myeloma Research Foundation/Multiple Myeloma Research Consortium Scientific Advisors Summit Participant

Editor for Scientific Journal

2011 – 2015	Academic Editor, <i>PLoS One</i>
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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 American Heart Association Bioengineering 2 Peer Review Study Group
2007 – 2008 National Science Foundation – Molecular and Cellular Biosciences
2006 National Institutes of Health – Synthetic and Biological Chemistry B Study
Section, *Ad Hoc* Member
2003 – 2006 American Cancer Society
2003 Vahlteich Endowment Research Fund

Miscellaneous

- 2005 – 2015 Faculty of 1000 Member, “Chemical Biology of the Cell” Section of the
Chemical Biology Faculty, Section Heads: Kevan Shokat and Roger Tsien
2006 – 2007 Scientific Advisor and 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

Ph.D. Thesis Advisory Committees

- 2014 Matthew L. Rotondi (Biological Chemistry)
2012 Christian E. Argueta (Biological Chemistry)
2012 Nicholas A. Eddy (Organic Chemistry)
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)
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)

M.S. Thesis Advisory Committees

- 2012 Junru Cui (Biochemistry)
2011 Michael T. Otley (Organic Chemistry)
2010 Donghui Song
2010 Ronald Ramsbhag (Organic Chemistry)
2009 Priscillia K. Uba-Oyibo (Cell Biology)
2008 Pedro Daddario (Organic Chemistry)
2007 Hua Yang (Analytical Chemistry)

- 2006 Sarosh Anjum (Biochemistry)
 2004 Mignon Hernreiter
 2002 Mihae Hong (Biochemistry)

Undergraduate

- 2007 – 2015 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, Honors College, University of Illinois, Chicago

Search Committees

- 2011 Molecular and Cell Biology Faculty Search Committee, University of Connecticut
 2010 Chemistry Grants and Contracts Manager Search Committee, University of Connecticut
 2010 Mass Spectrometry Scientist 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 Analytical Chemistry Faculty Search Committee, University of Illinois, Chicago
 2001 Organic Chemistry Faculty Search Committee, University of Illinois, Chicago

Other Departmental Committees

- 2010 – 2015 Head, Organic Chemistry Division, Department of Chemistry, University of Connecticut
 2010 – 2015 Departmental Advisory Committee, Department of Chemistry, University of Connecticut
 2007 – 2015 Teaching Assistant Affairs Committee, Department of Chemistry, University of Connecticut
 2006 – 2105 Graduate Affairs Committee, Department of Chemistry, University of Connecticut
 2007 – 2009 Advisory Committee, Department of Chemistry, University of 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