# Gabriel Fenteany, Ph.D. – Curriculum vitae

Biological Research Centre, Szeged
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Web: linkedin.com/in/fenteany; Orcid ID: 0000-0001-7407-2195; Scopus: 6602896722;
ResearcherID: F-4944-2018;
Citizenship: Dual USA and Hungary/EU Languages of Fluency: English, French, Hungarian

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## EDUCATION

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| 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, 1987 – 1989) |
| 1985 – 1989 | Reed College, Portland, Oregon |

## PROFESSIONAL EXPERIENCE

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|---|---|
| 2017 – present | Senior Research Scientist (institutional equivalent of professor), Institute of Genetics, Biological Research Centre, Szeged, Hungary |
| 2015 – 2017 | Senior Research Scientist, Division of Endocrinology, Data Sciences Research Center, and Research Administration, New York City Health and Hospitals and New York University Medical Center |
| 2006 – 2015 | Associate Professor of Chemistry, University of Connecticut, Storrs<br>Concurrent appointments: Faculty of the Cell Biology Graduate Program (2008 – 2015); Co-Director of the High-Throughput Screening Facility (2008 – 2015); Faculty of the Structural Biology Partnership (2007 – 2015) |
| 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. Thomas P. Stossel and Paul A. Janmey) |

## DIGITAL CONTENT CREATION

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

## AWARDS AND HONORS

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| 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 Foundation Honors Scholarship

## RESEARCH GRANTS

### Main Competitive Grants

R01GM077622 S2, National Institutes of Health (NIGMS) (dates in DD/MM/YYYY format)
Fenteany, G. (PI), 11/09/2009 – 31/05/2014
Mechanism of Action of New Inhibitors of Cell Migration
Role: PI Amount: $200,451

R01GM077622, National Institutes of Health (NIGMS)
Fenteany, G. (PI), 01/06/2006 – 31/05/2014
Mechanism of Action of New Inhibitors of Cell Migration
Role: PI Amount: $1,295,000

R01GM077622 S1, National Institutes of Health (NIGMS)
Fenteany, G. (PI), 01/06/2006 – 31/05/2011
Mechanism of Action of New Inhibitors of Cell Migration
Role: PI Amount: $174,903

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

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

### Miscellaneous Competitive Grants

University of Connecticut Summer Undergraduate Research Fellowship
Fenteany, G. (PI), Lincoln, S.T (Student), 06/2011 – 08/2011
Role: PI Amount: $3,990

University of Connecticut Summer Undergraduate Research Fellowship
Fenteany, G. and Knecht, D. (Co-PIs), Minutolo, N. (Student), 06/2011 – 08/2011
Role: Co-PI Amount: $4,000

University of Connecticut Major Research Equipment Award
Hadden, K. (PI), 22/10/2010
Initial Establishment of UConn High-Throughput Screening Center
Role: Key Personnel Amount: $221,530

University of Connecticut Summer Undergraduate Research Fellowship
Fenteany, G. (PI), Heyse, S.A. (Student), 06/2010 – 08/2010
Role: PI Amount: $2,500

University of Connecticut Intermediate Research Equipment Award
Yao, X. (PI), 11/12/2009
Nano Liquid Chromatography System
Role: Key Personnel Amount: $99,000

UCHC/Storrs and Regional Campus Incentive Grant
Fenteany, G. and Wright, D. (Co-PIs), 01/09/2008 – 31/08/2009
A High Throughput Screen to Identify Novel Anti-Cancer Agents
Role: Co-PI Amount: $50,000

University of Connecticut Summer Undergraduate Research Fellowship
Fenteany, G. (PI), Morse, P.D. (Student), 06/2009 – 08/2009
Role: PI Amount: $3,000

University of Connecticut Partnership for Excellence in Structural Biology Research Fellowship
Fenteany, G. and Alexandrescu, A.T. (Co-PIs), Beshir, A.B. (Student), 01/01/2008 – 31/05/2008
Role: Co-PI Amount: $12,735

University of Connecticut Partnership for Excellence in Structural Biology Research Fellowship
Fenteany, G. and Gascón, J.A. (Co-PIs), Menikarachchi, L.C. (Student), 01/08/2008 – 31/12/2007
Role: Co-PI Amount: $12,735

University of Connecticut Summer Undergraduate Research Fellowship
Fenteany, G. (PI), Drozdowicz, L.B. (Student), 06/2007 – 08/2007
Role: PI Amount: $3,000

Award #0722948, National Science Foundation
Knecht, D.A. (PI), 01/09/2007
Acquisition of a Confocal Live Cell Imaging System
Role: Senior Personnel Amount: $367,305

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

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

**Startup Funding**

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| University of Connecticut (2006) | Role: PI | Amount: $625,000 |
| University of Illinois (2000) | Role: PI | Amount: $400,000 |

## PEER-REVIEWED PUBLICATIONS

1. Fenteany, G., Sharma, G., Gaur, P., Kiss, E. & Haracska, L. Inhibitors of the Rad6–Rad18 interaction in the ubiquitination of proliferating cell nuclear antigen and consequent DNA damage tolerance. *In prep.* (2020).
2. Gaur, P., Haracska, L. & Fenteany, G. Ubiquitination of proliferating cell nuclear antigen as a cascade of cancer chemotherapeutic targets. *Submitted* (2020).
3. Argueta, C.E. & Fenteany, G. Raf kinase inhibitor protein localizes to the nucleus through a bipartite nuclear localization signal and the nuclear transport factor importin α. *Submitted* (2020).
4. Gaur, P., Fenteany, G. & Tyagi, C. Mode of inhibitory binding of epigallocatechin gallate to the ubiquitin-activating enzyme Uba1. *Submitted* (2020).
5. Fenteany, G., Gaur, P., Sharma, G., Pintér, L., Kiss, E. & Haracska, L. Robust high-throughput assays to assess discrete steps in ubiquitination and related cascades. *BMC Mol. Cell Biol.* **21,** 21 (2020).
6. Fenteany, G., Gaur, P., Hegedűs, L., Dudás, K., Kiss, E., Wéber, E., Hackler, L., Martinek, T., Puskás, L.G. & Haracska, L. Multilevel structure–activity profiling reveals multiple green tea compound families that each modulate ubiquitin-activating enzyme and ubiquitination by a distinct mechanism. *Sci. Rep.* **9,** 12801 (2019).
7. Fenteany, G., Inoue, T., Bahtiyar, G. & Sacerdote, A.S. Association of vitamin D repletion with normalization of elevated serum 17-OH-progesterone. *Med. Case Rep.* **3,** 22 (2017).
8. Powell, D., Inoue, T., Bahtiyar, G., Fenteany, G. & Sacerdote, A. Treatment of nonclassic 11-hydroxylase deficiency with Ashwagandha root. *Case Rep. Endocrinol.* **2017,** 1869560 (2017).
9. Eddy, N.A. & Fenteany, G. Model studies directed to the synthesis of cucurbitacin I C/D rings. *Tetrahedron Lett.* **56,** 5079–5081 (2015).
10. 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.* **10,** 561–569 (2015).
11. 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,** 5041–5044 (2013).
12. 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* **69,** 1010–1020 (2012).
13. 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.* **14,** 498–501 (2012).
14. 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.* **72,** 3091–3104 (2012).
15. 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* **116,** 10176–10181 (2012).
16. 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. *For. Immunopathol. Dis. Ther.* **2,** 47–58 (2011).
17. Eddy, N.A., Morse, P.D., Morton, M.D. & Fenteany, G. Synthesis of oxazolidinone and tosyl enamines by tertiary amine catalysis. *Synlett* **5,** 699–701 (2011).
18. 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.* **17,** 649–654 (2011).
19. Beshir, A.B., Ren, G., Magpusao, A.N., Barone, L.M., Yeung, K.C. & Fenteany, G. Raf kinase inhibitor protein suppresses nuclear factor-κB-dependent cancer cell invasion through negative regulation of matrix metalloproteinase expression. *Cancer Lett.* **299,** 137–149 (2010).
20. 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 Mol. Cell Res.* **1803,** 300–310 (2010).
21. Knecht, D.A., LaFleur, R.A., Kahsai, A.W., Argueta, C.E., Beshir, A.B. & Fenteany, G. Cucurbitacin I inhibits cell motility by indirectly interfering with actin dynamics. *PLoS One* **5,** e14039 (2010).
22. Magpusao, A.N., Desmond, R.T., 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.* **20,** 5472–5476 (2010).
23. 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.* **183,** 7489–7496 (2009).
24. Beshir, A.B., Guchhait, S.K., Gascón, J.A. & Fenteany, G. Synthesis and structure–activity relationships of metal–ligand complexes that potently inhibit cell migration. *Bioorg. Med. Chem. Lett.* **18,** 498–504 (2008).
25. 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.* **283,** 24534–24545 (2008).
26. 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.* **103,** 972–985 (2008).

27. 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.* **312,** 1514–1525 (2006).
28. 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.* (now *Cell Chem. Biol.*) **13,** 973–983 (2006).
29. Stossel, T.P., Fenteany, G. & Hartwig, J.H. Cell surface actin remodeling. *J. Cell Sci.* **119,** 3261–3264 (2006).
30. 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.* **118,** 51–63 (2005).
31. Zhu, S., McHenry, K.T., Lane, W.S., Fenteany, G., 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.* (now *Cell Chem. Biol.*) **12,** 981–991 (2005).
32. 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.* **322,** 56–67 (2004).
33. Fenteany, G. & Glogauer, M. Cytoskeletal remodeling in leukocyte function. *Curr. Opin. Hematol.* **11,** 15–24 (2004).
34. Ankala, S. V. & Fenteany, G. Aryl, alkyl bis-silyl ethers: Rapid access to monoprotected aryl alkyl and biaryl ethers. *Synlett* **6,** 825–828 (2003).
35. Fenteany, G. & Zhu, S. Small-molecule inhibitors of actin dynamics and cell motility. *Curr. Top. Med. Chem.* **3,** 593–616 (2003).
36. Ankala, S. V. & Fenteany, G. Selective deprotection of either alkyl or aryl silyl ethers from aryl, alkyl bis-silyl ethers. *Tetrahedron Lett.* **43,** 4729–4732 (2002).
37. Mc Henry, K.T., Ankala, S. V., Ghosh, A.K. & Fenteany, G. A non-antibacterial oxazolidinone derivative that inhibits epithelial cell sheet migration. *ChemBioChem* **3,** 1105–1111 (2002).
38. Fenteany, G., Janmey, P.A. & Stossel, T.P. Signaling pathways and cell mechanics involved in wound closure by epithelial cell sheets. *Curr. Biol.* **10,** 831–838 (2000).
39. Corey, E.J., Li, W.D.Z., Nagamitsu, T. & Fenteany, G. The structural requirements for inhibition of proteasome function by the lactacystin-derived β-lactone and synthetic analogs. *Tetrahedron* **55,** 3305–3316 (1999).
40. Fenteany, G. & Schreiber, S.L. Lactacystin, proteasome function, and cell fate. *J. Biol. Chem.* **273,** 8545–8548 (1998).
41. 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.* **411,** 119–122 (1997).
42. 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.* **272,** 13437–13445 (1997).
43. Fenteany, G. & Schreiber, S.L. Specific inhibition of the chymotrypsin-like activity of the proteasome induces a bipolar morphology in neuroblastoma cells. *Chem. Biol.* (now *Cell Chem. Biol.*) **3,** 905–912 (1996).
44. 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* **268,** 726–731 (1995).
45. 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* **91,** 3358–3362 (1994).
46. Fenteany, G. & Morse, D.E. Specific inhibitors of protein synthesis do not block RNA synthesis or settlement in larvae of a marine gastropod mollusk (*Haliotis rufescens*). *Biol. Bull.* **184,** 6–14 (1993).

## AWARDED PATENTS

Compound libraries made through phosphine-catalyzed annulation/Tebbe/Diels-Alder reactions (US8624032)
Patent date: 07/01/2014; Filing date: 09/11/2012; Priority date: 09/11/2011
Also published as: US20130143916
Inventors: Ohyun Kwon, Gabriel Fenteany

Inhibitors of animal cell motility and growth (US7390826)
Patent date: 24/06/2008; Filing date: 26/10/2005; Priority date: 12/06/2002
Also published as: US20030236290, US20060063935, WO2003106437A1
Inventors: Gabriel Fenteany, Arun K. Ghosh, Kevin McHenry, Sudha Ankala, Sarosh Anjum, Shoutian Zhu

Lactacystin analogs (US6645999)
Patent date: 11/11/2003; Filing date: 12/04/1996; Priority date: 12/04/1995
PCT number: PCT/US1996/005072. 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

## PUBLISHED MEETING ABSTRACTS

Inoue, T., Soni, L., Bahlol, M., Fenteany, G., Bahtiyar, G., Sacerdote, A. 2018. Worsening and prolonged hypovitaminosis D is associated with biochemical exacerbation of non-classic 11-hydroxylase deficiency. *Endocrine Rev.* 39:Suppl. 2.

Simon, K., Inoue, T., Fenteany, G., Bahtiyar, G., Sacerdote, A. 2018. Ashwagandha root in the treatment of prediabetes. *Endocrine Rev.* 39:Suppl. 2.

Sultana, T., Inoue, T., Gattorno, F., Soni, L., Fenteany, G., Bahtiyar, G., Sacerdote, A. 2018. Empagliflozin use in type 2 diabetes is associated with remission of adrenal hyperandrogenism. *Endocrine Rev.* 39:Suppl. 2.

Fenteany, G., Inoue, T., Bahtiyar, G., Fishman, S., Sacerdote, A.S. 2017. Pulmonary arterial hypertension in patients with hyperthyroid Graves' disease and toxic multinodular goiter. *Endocrine Rev.* 38:Suppl. 3.

Inoue, T. Sacerdote, A.S., Neog, M., Patel, R., Fenteany, G., Patibandla, K., Bahtiyar, G. 2017. Non-classic 11-hydroxylase deficiency presenting as an adrenal incidentaloma with biochemical amelioration associated with weight loss and vitamin D repletion. *Endocrine Rev.* 38:Suppl. 3.

Magpusao, A.N., Peczuh, M.W., Fenteany, G. 2013. Exploring the relationship between inhibition of $Na^+/K^+$ ATPase and inhibition of breast cancer cell migration by correlative SAR. *Mol. Biol. Cell* 24:575.

Rudnitskaya, A.N., Menikarachchi, L.C., Fenteany, G., Gascón, J.A. 2013. Mechanistic study of the reaction between locostatin and Raf kinase inhibitor protein (RKIP). *Abstr. Pap. Am. Chem. Soc.* 242:199-COMP.

Abraham, S.T., Moody C.I., Fenteany, G. 2007. Raf-1 kinase inhibitor protein regulates migration of vascular smooth muscle cells independent of ERK-MAP kinase. *FASEB J.* 21:A1441.

Fenteany, G. What the web can do for the bioscientist: a lesson by example(s). 1999. *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. 1998. Synthetic and biological studies with lactacystin and analogs. *Abstr. Pap. Am. Chem. Soc.* 216:500-ORGN, Part 2.

Nagamitsu, T., Ōmura, S., Li, W., Fenteany, G., Corey, E.J. Total synthesis and structure–activity relationships of lactacystin, a specific inhibitor of proteasome. *Symposium on the Chemistry of Natural Products.* 40:721–726.

Criau, A., Gaczynska, M., Akopian, T., Gramm, C.F., Fenteany, G., Goldberg, A.L., Rock, K.L. 1997. 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.* 99:1030.

Rock, K.L., Criau, A., Gaczynska, M., Akopian, T., Fenteany, G., Goldberg, A.L. 1997. How peptides are generated for MHC class I antigen presentation. *FASEB J.* 11:A860.

## INVITED TALKS

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| 07/11/2019 | Chemical Approaches to Cell Biology, Post-Translational Modifications, and Protein Complex Assembly, Institute of Bioorganic Chemistry of the Polish Academy of Sciences, Poznan, Poland |
| 14/09/2018 | Novel Modulators of DNA Damage Tolerance as Tools and Therapeutics, 9th Central European Genome Stability and Dynamics Meeting, Warsaw, Poland |
| 10/04/2011 | Chemical Biology of Cell Motility, Department of Chemistry, Connecticut College, New London, Connecticut |
| 03/04/2011 | Chemical Biology of Cell Motility, Department of Medicinal Chemistry, College of Pharmacy, University of Minnesota, Minneapolis |
| 09/04/2010 | Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, Brown University, Providence, Rhode Island |
| 18/03/2010 – 20/03/2010 | 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 |
| 23/04/2009 | Chemical Approaches to Understanding and Controlling Cell Migration, Center for Cell Analysis and Modeling, University of Connecticut Health Center, Hartford |
| 01/03/2009 – 04/03/2009 | Indo-American Frontiers of Science Symposium (Indo-U.S. Science and Technology Forum and U.S. National Academy of Sciences), Agra, India |
| 06/04/2008 | Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, Washington State University, Pullman |
| 05/12/2007 | Chemical Biology of Cell Motility, Department of Pharmaceutical Sciences, School of Pharmacy, University of Connecticut, Storrs |
| 04/12/2007 | Identification of Small-Molecule Modulators of Cell Migration, American Society for Cell Biology 47th Annual Meeting, Washington, D.C. |
| 04/10/2007 | Chemical Biology of Cell Motility, Department of Molecular and Cellular Biology, University of Connecticut, Storrs |
| 27/09/2007 | Chemical Biology of Cell Motility, Department of Biochemistry and Cancer Biology, College of Medicine, University of Toledo, Ohio |
| 12/09/2007 | Chemical Approaches to Understanding and Controlling Cell Migration, Department of Physiology and Neurobiology, University of Connecticut, Storrs |
| 14/04/2006 | Chemical Approaches to Understanding and Controlling Wound Healing, University of Wisconsin–Madison |
| 09/02/2006 | Chemical Approaches to Studying Cell Migration. Department of Chemistry, Case Western Reserve University, Cleveland, Ohio |
| 08/02/2006 | Chemical Approaches to Studying Cell Migration. Department of Chemistry, John Carroll University, University Heights, Ohio |
| 05/10/2005 | Chemical Approaches to Understanding Cell Migration. Frontiers of GI Research Seminar, College of Medicine, University of Illinois, Chicago |
| 10/08/2005 | Chemical Proteomics: Deciphering Protein Function, Technical Scientific Workshop Series, Boston, Massachusetts |
| 21/05/2005 | Discovery of Compounds Affecting Cell Movement Using High Throughput Screening, 2005 Annual Meeting of the Wound Healing Society, Chicago, Illinois |
| 13/05/2005 | Chemical Approaches to Understanding Cell Migration, Department of Chemistry, University of California, Irvine |
| 31/03/2005 | Chemical Approaches to Understanding Cell Migration, Department of Chemistry, University of Illinois, Urbana-Champaign |

06/03/2005 Chemical Approaches to Understanding and Controlling Cell Migration, Department of Chemistry, University of Connecticut, Storrs

01/02/2005 Chemical Approaches to Understanding Cell Migration, Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, Texas

10/11/2004 Chemical Approaches to Understanding Cell Migration, Department of Biological, Chemical and Physical Sciences, Illinois Institute of Technology, Chicago

29/09/2004 Chemical Approaches to Understanding Cell Motility and Morphogenesis, Department of Pharmaceutical Sciences, University of Michigan, Ann Arbor

23/07/2004 Molecular Control of Actin Polymerization, Department of Physics, Brown University, Providence, Rhode Island

17/09/2003 Chemical Approaches to Understanding Cell Motility, Department of Pharmacology, University of Illinois, Chicago

18/02/2003 Chemical Approaches to Understanding Cell Motility, Department of Chemistry, University of Illinois, Chicago

07/02/2003 Chemical Approaches to Understanding Cell Motility, Department of Medicinal Chemistry and Pharmacognosy, University of Illinois, Chicago

29/10/1999 – 31/10/1999 Mechanism and Mechanics of Wound Closure by Epithelial Cell Sheets, Life Sciences Research Foundation Annual Meeting, Dallas, Texas

15/10/1999 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

21/07/1998 Mechanism and Mechanics of Wound Closure by Epithelial Cell Sheets, Department of Biology, University of Virginia, Charlottesville

## SELECTED UNPUBLISHED POSTER PRESENTATIONS AT MEETINGS

14/06/2018 – 15/06/2018 Gaur, P., Fenteany, G., Haracska, L. Fighting Fatal Errors: Targeting Translesion DNA Synthesis to Kill Cancer, Economic Development and Innovation Operational Programme Symposium, Debrecen, Hungary

02/03/2009 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

04/12/2007 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.

20/08/2007 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

27/05/2007 – 01/06/2007 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

14/12/2005 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

15/10/2004 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.

17/10/2003 Fenteany, G. Chemical Approaches to Understanding Cell Motility and Morphogenesis, Cytoskeleton in Health and Disease Symposium, Northwestern University, Chicago, Illinois.

29/06/2003 – 04/07/2003 Fenteany, G. Chemical Approaches to Understanding Cell Motility, Gordon Research Conference, Motile and Contractile Systems, Colby-Sawyer College, New London, New Hampshire.

17/06/2001 – 22/06/2001 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.

## 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.

## MENTORSHIP (with present or last-known position)

**Postdoctoral Fellows:** Sudha V. Ankala (Principal Scientist, CoMentis), Anwar B. Beshir (Lecturer, University of Connecticut), Bharat R. Bhattarai (Faculty, American International College), Hari Gobburu (Associate Director of Global Sourcing, Eli Lilly), Nicholas A. Eddy (Faculty, University of Connecticut), Sankar K. Guchhait (Assistant Professor, National Institute of Pharmaceutical Education and Research, India), Satyendra Mishra (Assistant Professor, Indian Institute of Advanced Research), Babajide Okandeji (Product Manager, SCIEX)

**Ph.D. Students:** Z. Melis Altan (Scientific Sales Consultant, Beckman Coulter), Christian E. Argueta (Senior Scientist, Karyopharm Therapeutics), Anwar B. Beshir (Lecturer, University of Connecticut), Nicholas A. Eddy (Faculty, University of Connecticut), Rizwan Farooqui (Senior Product Marketing Manager, Infection Prevention, Becton Dickinson), Paras Gaur (Biological Research Centre, Szeged), Péter Germán (Biological Research Centre, Szeged), Bayan Kharrat (Biological Research Centre, Szeged), Alem W. Kahsai (Assistant Professor, Duke University), Anniefer N. Magpusao (Postdoctoral Fellow, Case Western Reserve University), Kevin T. Mc Henry (Medical Science Liaison, Genentech), Matthew L. Rotondi (Postdoctoral Fellow, University of Texas Health Sciences Center), Gaurav Sharma (Biological Research Centre, Szeged), Shoutian Zhu (Director of Research, Regulus Therapeutics)

**M.S. Students:** Sarosh Anjum (Senior Systems Manager, Astellas Pharmaceutical), Junru Cui (Postdoctoral Fellow, University of Connecticut), Mihae Hong, Michael T. Otley (Scientist, BASF), Donghui Song (Graduate Research Assistant, University of Connecticut), Priscillia K. Uba-Oyibo

**Undergraduates:** Christian E. Argueta (Senior Scientist, Karyopharm Therapeutics; Ph.D. from University of Connecticut), Linda B. Drozdowicz (Resident at Icahn School of Medicine at Mount Sinai; M.D. from Mayo Clinic College of Medicine), Angel Fung, Daniel J. Hagen, Jenaya L. Goldwag, Shannon A. Heyse (Ph.D. from Boston College), Mateusz Hoppe, Kristi Kearney, Stephen T. Lincoln, Joseph Lucas, Denise D. Maniakouras (D.D.S. from University of Illinois), Nick Minutolo, Peter D. Morse (Postdoctoral Fellow, Massachusetts Institute of Technology, Ph.D. from UNC, Chapel Hill), Mark A. O'Brien, Jay Richardson (Senior Engineer, Environmental Energy Services), 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, Szeged), Anna A. Weiss (Ph.D. from Loyola University, M.S. from Northwestern University)

**High School Students (Sponsored by the American Cancer Society):** Mingzhu He (Design Strategist, Wells Fargo; Ed.M. from Harvard Graduate School of Education, M.S. from DePaul University, B.A. from University of Chicago), Alan Vuong (B.S. from 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, Chicago, 2006

Gaur, P. Discovery of Small-Molecule Inhibitors of Uba1 and Development of Step-Specific Assays for PCNA Ubiquitination. Doctoral Dissertation, University of Szeged, 2020

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 |

### Reviewer of Scientific Research Proposals

| | |
|---|---|
| 2011 | National Science Foundation – Division of Chemistry |
| 2009 | National Institutes of Health – Synthetic and Biological Chemistry B Study Section, *Ad Hoc* 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 |

### Editor for Scientific Journal

| | |
|---|---|
| 2011 – 2015 | Academic Editor, *PLoS One/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 & Biology/Cell Chemical 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)
*Indian Journal of Pharmaceutical Sciences* (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/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)

**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

### Faculty 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

### 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 (Biological Chemistry)
2011 Michael T. Otley (Organic Chemistry)
2010 Donghui Song (Biological Chemistry)
2010 Ronald Ramsubhag (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 (Biochemistry)
2002 Mihae Hong (Biochemistry)

**General Undergraduate Advisory Committees**

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

**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

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|---|---|
| 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 |