## Tarek Sammakia

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#### Career

**Interim Chair**, Department of Chemistry (July 2021 – present)

**Professor**, Department of Chemistry and Biochemistry, University of Colorado Boulder (2005 – present)

**Program Director**, National Science Foundation, Division of Chemistry, Chemical Synthesis and Chemical Catalysis Programs, (Rotator from Sept 2017 – August 2019)

**Chair**, Department of Chemistry and Biochemistry, University of Colorado Boulder (July 2012 – June 2015)

**Associate Professor**, Department of Chemistry and Biochemistry, University of Colorado Boulder (1997 – 2005)

**Assistant Professor**, Department of Chemistry and Biochemistry, University of Colorado Boulder (1990 – 1997)

Head of Chemistry, SuviCa (2010 – 2017)

Consultant, Array BioPharma (2009 – 2012)

Consultant, Hauser Chemical Research Inc. (1992 – 1999, 2004 – 2009)

**Visiting Scientist**, Array BioPharma (2005 – 2006)

# **Education and Training**

Harvard University: National Science Foundation Postdoctoral Fellow with Professor David A. Evans (January 1988 – July 1990)

Yale University: Ph.D. in organic chemistry with Professor Stuart L. Schreiber (September 1983 – January 1988)

University of North Carolina at Chapel Hill: B.S. in chemistry (September 1979 – June 1983)

### **Awards and Fellowships**

Novartis Award / Lecturer (1997)

Alfred P. Sloan Research Fellow (1996)

American Cancer Society Junior Faculty Research Award (1994)

Colorado Council on Research and Creative Works Junior Faculty Development Award (1991)

Camille and Henry Dreyfus New Faculty Award (1990)

NSF Postdoctoral Fellow (1988 – 1990)

Berlex Predoctoral Fellow (1985 – 1987)

#### **Research Interests**

Since assuming my faculty position at the University of Colorado in 1990, my coworkers and I have studied a variety of problems in organic chemistry. We have developed new methods for accomplishing problematic organic transformations, studied the mechanisms of these and other methods with an emphasis on understanding the origin of stereoselectivity, and have applied our

methods to the synthesis of complex natural and unnatural products. More recently, in collaborative research, we have studied the rational design and synthesis of inhibitors for biochemical processes including bacterial membrane modification and bacterial colony formation, and the synthesis of molecules to probe the mechanistic requirements for energy transfer in geometrically constrained acene dimers. The common theme of this research is the design and study of molecules for a specific function, whether it be a chemical, biological, or photophysical functions.

### **Publications and Patents**

- 67 Miller, E.G.; Singh, M.; Parkin, S.R., Sammakia, T.\*; Damrauer, N. H.\* "Preparation of a Rigid and nearly Coplanar Bis-Tetracene Dimer through Application of the CANAL Reaction" **2021**, ChemRxiv. Preprint. https://doi.org/10.26434/chemrxiv.14412200.v1
- 66 Gilligan, A. T.; Miller, E. G.; Sammakia, T.; Damrauer, N. H.; "Using Structurally Well-Defined Norbornyl-Bridged Acene Dimers to Map a Mechanistic Landscape for Correlated Triplet Formation in Singlet Fission" *J. Am. Chem. Soc.* **2019**, *141*, 5961–5971.
- 65 Carey, T. J.; Miller, E. G.; Gilligan, A. T.; Sammakia, T.; and Damrauer, N. H. Modular Synthesis of Rigid Polyacene Dimers for Singlet Fission *Org. Lett.* **2018**, *20*, 457.
- 64 Carey, T. J.; Snyder, J. L.; Miller, E. G.; Sammakia, T.; and Damrauer, N. H. Synthesis of Geometrically Well-Defined Covalent Acene Dimers for Mechanistic Exploration of Singlet Fission *J. Org. Chem.* **2017**, *82*, 4866.
- 63 Greenberg, J. A.; Sammakia, T. The Conversion of *tert*-Butyl Esters to Acid Chlorides Using Thionyl Chloride *J. Org. Chem.* **2017**, *82*, 3245.
- 62 Hartwig, W. T.; Sammakia, T. Doubly Vinylogous Aldol Reaction of Furoate Esters with Aldehydes and Ketones *J. Org. Chem.* **2017**, *82*, 759.
- 61 Michael, R. E.; Chando, K. M.; Sammakia, T. Synthesis of *N*-Vinyl Nitrones via 1,4-Conjugate Elimination *J. Org. Chem.* **2015**, 6930.
- 60 Lewis, S. S.; Hutchinson; M. R.; Frick, M. M.; Zhang, Y.; Maier, S. F.; Sammakia, T.; Rice, K. C.; Watkins, L. R. Select steroid hormone glucuronide metabolites can cause toll-like receptor 4 activation and enhanced pain *Brain, Behavior, and Immunity* **2015**, *44*, 128.
- 59 Su, T. T; Gladstone, M. N.; Zhang, G.; Sammakia, T., Bouvardin derivatives and therapeutic uses thereof WO 2013126617 A1 20130829 (2013).
- 58 Gazaille, J. A.; Sammakia, T. The Vinylogous Aldol Reaction of Unsaturated Esters and Enolizable Aldehydes Using the Novel Lewis Acid Aluminum Tris(2,6-di-2-naphthylphenoxide) *Org. Lett.* **2012**, *14*, 2678.
- 57 Gazaille, J. A.; Abramite, J. A.; Sammakia, T. Toward the Synthesis of (+)-Peloruside A via an Intramolecular Vinylogous Aldol Reaction *Org. Lett.* **2012**, *14*, 178.
- 56 Zhang, Y.; Arpin, C. C.; Cullen, A. J.; Mitton-Fry, M. J.; Sammakia, T. Total Synthesis of Dermostatin A *J. Org. Chem.* **2011**, *76*, 7641 (Featured Article).
- 55 Hao, X.; Nguyen, T.; Sammakia, T.; Kearns, D. B.; Fall. R. New Inhibitors of Colony Spreading in *Bacillus subtilis* and *Bacillus anthracis Bioorg. Med. Chem. Lett.* **2011**, *21*, 5583.
- 54 Crane, Z. D.; Nichols, P. J.; Sammakia, T.; Stengel, P. J. Synthesis of Methyl-1-(tert-butoxycarbonylamino)-2-vinylcyclopropanecarboxylate via a Hofmann Rearrangement Utilizing Trichloroisocyanuric Acid as an Oxidant *J. Org. Chem.* **2011**, *76*, 277.
- 53 Mai, C-K; Sammons, M. F.; Sammakia, T α-Arylation of 3-Aryloxindoles *Organic Letters* **2010**, *12*, 2306.

- 52 Mai, C-K.; Sammons, M. F.; Sammakia, T. A Concise Formal Synthesis of Diazonamide A via the Stereoselective Construction of the C10 Quaternary Center *Angew. Chem., Int. Ed.* **2010**, *122*, 2447.
- 51 Seiwert, S. D.; Blatt, L. M.; Andrews, S. W.; Martin, P.; Schumacher, A.; Barnett, B. R.; Eary, T. C.; Kaus, R.; Kercher, T.; Liu, W.; Lyon, M.; Nichols, P.; Wang, B.; Sammakia, T.; Kennedy, A.; Jiang, Y. Novel Macrocyclic Inhibitors of Hepatitis C Virus Replication International Patent WO 2007/015824 A2 (2007).
- 50 Abramite, J. A.; Sammakia, T. Application of the Intramolecular Vinylogous Yamamoto Aldol Reaction to the Synthesis of Macrolides *Organic Letters* **2007**, *9*, 2103.
- 49 Mitton-Fry, M. J.; Cullen, A. J.; Sammakia, T. The Total Synthesis of the Oxopolyene Macrolide RK-397 *Angew. Chem., Int. Ed.* **2007**, *46*, 1066.
- 48 Sammakia, T.; Abramite, J. A.; Sammons, M. F. Enamines In *Science of Synthesis*, Trost, B. M., Molander, G. A., Eds.; Theime: Stuttgart, Germany, 2006; Vol. 33, pp 405.
- 47 Sammakia, T.; Abramite, J. A.; Sammons, M. F. Enamoniums In *Science of Synthesis*, Trost, B. M., Molander, G. A., Eds.; Theime: Stuttgart, Germany, 2006; Vol. 33, pp 443.
- 36 Zhang, Y.; Sammakia, T. Double Diastereoselective Acetate Aldol Reactions with Chiral *N*-Acetyl Thiazolidinethione Reagents *J. Org. Chem.* **2006**, *71*, 6262.
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- 44 Notte, G. T.; Sammakia, T. Kinetic Resolution of α-Acetoxy *N-Acyl Oxaz*olidinethiones by a Chiral O-Nucleophilic Acyl Transfer Catalyst *J. Am. Chem. Soc.* **2005**, *127*, 13502.
- 43 Sammakia, T.; Johns, D. M.; Kim, G.; Berliner, M. A. Remote Asymmetric Induction in an Intramolecular Ionic Diels-Alder Reaction: Application to the Total Synthesis of (+)-Dihydrocompactin *J. Am. Chem. Soc.* **2005**, *127*, 6504.
- 42 Sammakia, T.; Stangeland, E. L.; Whitcomb, M. C. Remote Functionalization of Pyridine Rings via the Halogen Dance Reaction: Application to the Total Synthesis of Caerulomycin and WS75624 B In Strategies and Tactics in Organic Synthesis Academic Press: New York, 2005; Vol 6, pp 415.
- 41 Zhang, Y.; Sammakia, T. Synthesis of a New N-Acetyl Thiazolidinethione Reagent and Its Application to a Highly Selective Asymmetric Acetate Aldol Reaction *Org Lett.* **2004**, *6*, 3139.
- 40 Cullen, A. J.; Sammakia, T. Highly Selective Reduction of Acyclic β-Alkoxy Ketones to Protected *syn*-1,3-Diols *Org Lett.* **2004**, *6*, 3143.
- 39 Zhang, Y.; Phillips, A. J.; Sammakia, T. Highly Selective Asymmetric Acetate Aldol Reactions of an *N*-Acetyl Thiazolidinethione Reagent *Org Lett.* **2004**, *6*, 23.
- 38 Stangeland, E. L.; Sammakia, T. Use of Thiazoles in the Halogen Dance Reaction: Application to the Total Synthesis of WS75624 B *J. Org. Chem.* **2004**, *69*, 2381.
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- 34 Sammakia, T. 1-Diazo-2-Propene. In *Encyclopedia of Reagents for Organic Synthesis*; John Wiley & Sons, Ltd, 2001.

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- 32 Sammakia, T. Phenyldiazomethane. In *Encyclopedia of Reagents for Organic Synthesis*; John Wiley & Sons, Ltd, 2001.
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- 28 Sammakia, T. Diazomethane. In *Encyclopedia of Reagents for Organic Synthesis*; John Wiley & Sons, Ltd, 2001.
- 27 Sammakia, T. 1-(4,5-Dihydro-4-Phenyl-2-Oxazolyl)-2-(Diphenylphosphino) Ferrocene. In *Encyclopedia of Reagents for Organic Synthesis*; John Wiley & Sons, Ltd, 2001.
- 26 Sammakia, T. 2-Diazopropane. In *Encyclopedia of Reagents for Organic Synthesis*; John Wiley & Sons, Ltd, 2001.
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- 21 Sammakia, T.; Stangeland, E. L. Asymmetric Transfer Hydrogenation with Ruthenium Complexes of Chiral Ferrocenyl Oxazolines *J. Org. Chem.* **1997**, *62*, 6104.
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- 16 Sammakia, T.; Berliner, M. A. Asymmetric Diels-Alder Reactions via Cyclic Vinyl-Oxocarbenium Ions *J. Org. Chem.* **1995**, *60*, 6652.
- 15 Sammakia, T; Latham, H. A. On the Use of Ferrocenyl Cations as Chiral Lewis Acids: Evidence for Protic Acid Catalysis *Tetrahedron Lett.* **1995**, *36*, 6867.
- 14 Sammakia, T.; Latham, H. A. Ligand Effects on the Stereochemistry of the Metalation of Chiral Ferrocenyloxazolines *J. Org. Chem.* **1995**, *60*, 6002.

- Sammakia, T.; Latham, H. A.; Schaad, D. R. Highly Diastereoselective Ortho Lithiations of Chiral Oxazoline Substituted Ferrocenes *J. Org. Chem.* **1995**, *60*, 10.
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- 9 Sammakia, T.; Smith, R. S. On the Mechanism of the Lewis Acid Mediated Cleavage of Chiral Acetals *J. Org. Chem.* **1992**, *57*, 2997.
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- Sammakia, T.; Harris, D. L.; Evans, S. A. Jr. Oxygen-17 Nuclear Magnetic Resonance Spectral Investigation of 3-Alkoxy-*trans*-3,4-Disubstituted-Thiolane 1,1-Dioxides and Related Compounds *Organic Magnetic Resonance* **1984**, *22*, 747.

# Seminars, Conferences, and Symposia Presentations

89	American Chemical Society National Meeting & Exposition	(03/31/2019)
88	NOBCChE, Orlando, Florida	(09/22/2018)
87	Florida Annual Meeting and Exposition (FAME) conference	(04/05/2018)
86	GRC, High Throughput Chemistry & Chemical Biology	(06/25/2017)
85	National Science Foundation, Arlington, VA	(05/23/2017)
84	Metropolitan State University of Denver	(09/16/2016)
83	Telluride Science Research Mtg (Accelerating Rxn Discovery)	(08/01/2016)
82	University of Michigan	(03/26/2015)
81	Regis University	(10/17/2014)
80	Yale University	(9/12/2013)
79	University of Texas, San Antonio	(11/09/2012)

78	Albert I. Meyers Memorial Symposium,	
	Colorado State University	(10/27/2012)
77	Gordon Research Conference: Natural Products	(07/22/2012)
76	University of Toronto	(11/11/2011)
75	Denver University	(05/20/2010)
74	Colorado Science Conference	(11/20/2009)
73	Butcher Symposium on Genomics and Biotechnology	(11/6/2009)
72	North Dakota State University	(9/17/2009)
71	21st International Symposium on Chirality	(7/14/2009)
70	Indiana University	(1/12/2009)
69	University of Northern Colorado	(4/18/2008)
68	University of New Mexico	(2/15/2008)
67	Syracuse University	(8/18/2007)
66	University of Iowa	(4/10/2007)
65	Gordon Conference: Organic Reactions and Processes	(7/16/2006)
64	UT Southwestern Medical Center, Dallas, TX	(4/04/2006)
63	Array BioPharma, Boulder, CO	(5/27/2005)
62	Gilead Pharmaceuticals, Foster City, CA	(3/16/2005)
61	Schering Plough, Kenilworth, NJ	(5/12/2004)
60	Marquette University	(3/5/2004)
58	Pfizer, Ann Arbor, MI	(12/12/2003)
59	University of Michigan	(12/11/2003)
57	Dow AgroSciences, Indianapolis, IN	(10/22/2003)
56	Array BioPharma, Boulder, CO	(11/20/2003)
55	Pfizer, Groton, CT	(4/9/2003)
54	Allegheny College	(4/10/2003)
53	University of Nebraska	(3/13/2003)
52	Pharmacia, Skokie, IL	(11/6/2002)
51	University of Arkansas	(11/4/2002)
50	Michigan State University	(9/12/2002)
49	University of Denver	(1/24/2002)
48	University of Pennsylvania	(9/10/2001)
47	Gordon Conference: Organic Reactions and Processes	(7/22-7/26/2001)
46	Roche Biosciences, Palo Alto, CA	(3/9/2000)
45	Stanford University	(3/8/2000)
44	The University of California, Berkeley	(3/7/2000)
43	University of Rochester	(2/4/2000
42	Abbott, North Chicago, IL	(9/22/1999)
41	Swarthmore College	(9/20/1999)
40	NSF Workshop on Organic Chemistry	(5/22 to 5/26/1999)
39	Bristol Meyers-Squibb, Wallingford, CT	(4/8/1999)
39	Carleton College	(4/2/1999)
38	University of Chicago	(4/10/1998)
37	Novartis, Vienna, Austria	(10/10/1997)
36	Novartis, Basel, Switzerland	(10/8/1997)
35	Novartis, Horsham, England	(10/6/1997)
34	University of Delaware	(9/10/1997)
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33 Bristol Meyers-Squibb, Princeton, NJ (3/14/1997)32 Zeneca Pharmaceuticals, Wilmington, DE (1/8/1997)31 The University of Michigan (10/22/1996)30 Gordon Research Conference: Stereochemistry (6/9 to 6/14/1996) 29 CU-Syntex Symposium on Synthetic Chemistry (5/22 to 5/24/1996) 28 Hoffmann-La Roche, Nutley, NJ (5/19/1996) 27 The University of California, Santa Barbara (4/25/1996)26 The University of California, Irvine, CA (4/24/1996)25 The University of California, San Diego (4/23/1996)24 Colorado State University (4/22/1996)23 Ohio State University (3/7/1996)22 The University of Wisconsin, Madison (3/5/1996)21 The University of Utah (2/22/1996)20 The University of Wyoming (2/16/1996)19 Northeastern University (1/18/1996)18 MIT, Cambridge, MA (1/17/1996)17 Boston College (1/16/1996)16 Boston University (1/15/1996)15 Amgen, Boulder, CO (12/12/1995)14 The University of Iowa (10/13/1995)13 Eli Lilly, Indianapolis, IN (5/15/1995)12 University of Minnesota (4/21/1995)11 3M Corporation, St. Paul, MN (4/20/1995)10 University of Texas, Austin (4/7/1995)Texas A&M University (4/6/1995)8 Ciba-Geigy, Summit, NJ (2/16/1995)Yale University (2/15/1995)Michigan State University 6 (1/26/1995)5 NSF Workshop on Organic Chemistry (7/13 to 7/17/1994) Pfizer Inc., Groton, CT 4 (4/7/1994)Wesleyan University 3 (3/25/1994)2 Merck Research Laboratories, West Point, PA (3/22/1994)Gordon Research Conference: Natural Products (7/18 to 7/23/1993)

### **Current External Research Support:**

- National Science Foundation, award 2102713; PI: Niels Damrauer, Co-PI: Tarek Sammakia, Title: CAS: Exploring Multiexciton Dynamics for Triplet Upconversion in Structurally Well-Defined Covalent Dimers; \$510,000 total costs for project period 05/01/2021 to 04/30/2024.
- National Institutes of Health, award 5R01EB025892-02; PI: Tarek Sammakia, Title: Glycoengineering of Therapeutic Peptides for Improved Treatment of Human Diseases; \$1,008,062 total costs for project period 05/01/2019 to 04/30/2022. (Note: I assumed the role of PI on this award in May of 2019 taking over from the original PI, Professor Zhongping Tan, who had departed the University of Colorado and continues as a collaborator on this project. The proposal that was submitted and funded represents his original ideas.).

### **Prior Research Support:**

- National Science Foundation, award 1665375, PI: Niels Damrauer; Co-PI: Tarek Sammakia, SusChEM: Design Principles Inspired by Symmetry for Controlling Singlet Fission in Structurally Well-Defined Covalent Dimers \$480,000 total costs for period May 1, 2017 to April 30, 2021.
- ACS Petroleum Research Fund, award 57843-ND4, PI: Tarek Sammakia; Co-PI: Niels Damrauer, Acene Dimers: Synthesis, Structure, and Photochemical Properties, \$110,000 total costs for period 7/1/2017 through 8/31/2021.
- •National Science Foundation, award 1665375, New Methods for the Synthesis of Hindered Quaternary Carbons, \$425,000 total costs for period May 1, 2013 to April 30, 2017.
- Colorado Clinical and Translational Sciences Institute. PI: Marcelo Sousa; Co-PI: Tarek Sammakia, ArnA inhibitors to defeat Pseudomonas antibiotic resistance in Cystic Fibrosis \$60,000 total costs for period 06/01/2013 05/31/2014.
- University of Colorado Office of Technology Transfer and State of Colorado Bioscience Award, Linda Watkins PI, Tarek Sammakia Co-PI, A Unique Approach for Treating Chronic Pain and Increasing the Clinical Efficacy of Opiods \$125,000 total costs for March 1, 2010 June 30, 2012.
- National Institutes of Health NIGMS, RO1 GM48498 (years 12-15) New Methods for Stereoselective Additions to Carbonyls, \$1,111,432 total costs for period September 2005 to August 2010.
- The Butcher Foundation, Linda Watkins PI, Tarek Sammakia Co-PI, Transforming Clinical Pain Control by Targeting a Novel Non-Neuronal Receptor \$100,000 total costs requested for period June 2008-May 2010
- State of Colorado and University of Colorado Technology Transfer Office Bioscience Discovery Evaluation Grant Program, Natalie Ahn PI, Tarek Sammakia Co-PI, Linda Watkins, Co-PI Pharmacophore Optimization for Targeted Therapeutics, University of Colorado Foundation Sammakia share Direct Costs \$100,000 for period July 2009 October 2010
- University of Colorado/IGP Seed Grant Program, Richard R. Fall PI, Tarek Sammakia Co-PI, Discovery and Synthesis of Novel Antibacterials for Biodefense and New Therapeutics \$50,000 direct costs for period July 2006 to June 2007.
- National Science Foundation Chemistry Research Instrumentation and Facilities (CRIF) Program CHE 0131003, Co-PI with 5 other faculty members, Acquisition of a 400 MHz NMR Spectrometer, \$192,060 total costs for period February, 2002 to January, 2005.
- National Institutes of Health NIGMS, RO1 GM48498 (years 8-11) New Methods for Stereoselective Additions to Carbonyls, \$927,568 total costs for period April 2000 to March 2004.
- Array BioPharma, \$20,000 unrestricted gift, 2001.
- National Institutes of Health NIGMS, RO1 GM48498 (years 4-7) New Methods for Stereoselective Additions to Carbonyls, \$584,260 total costs for period October 1996 to March 2000.
- National Science Foundation Industry University Cooperative Research Center for Separations Using Thin Films, Carl Koval PI, Tarek Sammakia Co-PI, Rich Noble Co-PI, Development of

Novel Acid-Base Facilitated Transport Membranes for Separation of Ketones, Alcohols, and Thiophenes \$105,000 direct costs for period January 1997 to December 1999.

- Novartis Pharmaceuticals, \$30,000 unrestricted gift, 1997.
- Pfizer Inc., unrestricted \$7,500 gift, 1996.
- Alfred P. Sloan Research Fellow, \$35,000 direct costs for period September 1996-September 1998.
- American Cancer Society Junior Faculty Research Award, \$90,500 direct costs for period July 1994 to June 1999.
- National Institutes of Health NIGMS, RO1 GM48498 (years 1-3) New Methods for Stereoselective Additions to Carbonyls \$312,078 direct costs, \$418,096 total costs for period July 1993 to September 1996.
- National Science Foundation Chemistry Research Instrumentation and Facilities (CRIF) Program CHE 9523034, Co-PI with 4 other faculty members, Purchase of a 500 MHz NMR spectrometer, \$312,900 direct costs for period December 1995 to November 1997.
- Petroleum Research Fund, type G award The Design of New Asymmetric Reaction Processes \$18,000 direct costs for period September 1992 to September 1994.
- Camille and Henry Dreyfus Foundation New Faculty Award, \$24,500 direct costs for period August 1990 to August 1995.
- National Science Foundation Chemistry Research Instrumentation and Facilities (CRIF) Program CHE 9115596, Co-PI with 4 other faculty members, Upgrade of a 250 MHz NMR spectrometer \$147,300 direct costs for period November 1991 to March 1993.
- National Science Foundation CHE 9019060, The Design of Chiral Lewis Acids and Chiral Silane Reagents, \$30,000 direct costs for period October 1990 to September 1992.

### **Current and Former Graduate Students / Current Positions**

Austin Bargmann	Current graduate student; matriculated Fall-2020
Brendan Langmack	Current graduate student; matriculated Fall-2020
Brianna Callahan	Current graduate student; matriculated Fall-2018
Duk (Will) Yi	Current graduate student; matriculated Fall-2015
Ethan Miller	Current graduate student; matriculated Fall-2015
Garret Cairo	Ph.D. 2021 Agilent, Boulder CO
Chance Brandt	M.S. 2020, Senior Research Associate, Intellia Th

Chance Brandt M.S. 2020, Senior Research Associate, Intellia Therapeutics Matthew Farmer M.S. 2018, Research Associate, Bolt Threads, Emeryville, CA

Jacob Greenberg Ph.D. 2017, STEM Excellence Tutoring Katelyn Chando Ph.D. 2016, Loxo Oncology at Lilly

Will Hartwig Ph.D. 2014, Legislative Associate at American Chemical Society

Ryan Michael Ph.D. 2013, Pfizer, Boulder, CO

Jeffery Gazaille Ph.D. 2012, Chevron Oronite, Richmond, CA Cheng-Kang Mai Ph.D. 2012, Phenomenex, Torrance, CA

Carolynn Chin Arpin Ph.D. 2012, Associate Professor, California State Univ. Chico

Morin Frick M.S. 2011, Scientist II - Global Blood Therapeutics Xin Hao Ph.D. 2010, Scientist, GlaxoSmithKline, Shanghai, China

Clemente Du Castel M.S. 2009, Chemist, PeptiDream, Inc., Tokyo, Japan

Patricia Bailey M.S. 2009, Senior Program Analyst, US Dept. of Agriculture

Joseph Abramite Ph.D. 2008, Pfizer, La Jolla, CA

Mathew Sammons Ph.D. 2008, Associate Research Fellow, Pfizer, Boston, MA Greg Notte Ph.D. 2006, Executive Director, Gilead, Foster City, CA

Aaron Cullen Ph.D. 2006, Queen's Center for Biomedical Research, Honolulu, HI

Yingchao Zhang Ph.D. 2005, Founder of Elite Ivy Education

Tim Minger Ph.D. 2005, Associate Professor, Mesa State Community College

Dan Parker M.S. 2004, AvidXchange, Salt Lake City, UT

Deidre Johns Ph.D. 2004, Director, Turning Point Therapeutics, San Diego, CA

Christian Clarke M.S. 2004, Eli Lilly, Indianapolis, IN

Mark Whitcomb Ph.D. 2003, Executive Director, Gilead, Foster City, CA

Wendy Richmond M.S. 2002, Investigator II, Novartis Institutes for BioMedical Research,

San Diego, CA

Sarah Strong M.S. 2002, Director of Intellectual Property, Clovis Oncology,

Louisville, CO

Mark Mitton-Fry Ph.D. 2002, Assistant Professor, The Ohio State University

David Soulsby Ph.D. 2001, Professor, University of Redlands

Ganghyeok Kim Ph.D. 2001,

Kjirsten A. Wayman Ph.D. 2000, Professor, Humboldt State University

Jon Jacobs M.S. 2000

Eric L. Stangeland Ph.D. 1999, Numerate, Inc., San Bruno, CA T. Brian Hurley Ph.D. 1999, Novartis, Cambridge, MA

Douglas M. Sammond M.S. 1997,

Saleh N. Al-Busafi M.S. 1994, Professor, Sultan Qaboos University, Oman.

Hallie A. Latham Ph.D. 1996,

Martin A. Berliner Ph.D. 1996, Pfizer, Groton, CT Randall S. Smith Ph.D. 1994, Illumina, San Diego, CA

## Former Postdoctoral Coworkers,

Hallie Latham 1997

David R. Schaad 1993-1994, Ferro Pfanstiehl, Waukegan, IL

Tom Imiolczyk 1994-1995

### Selected Recent Departmental, Campus, and Professional Service

Interim Chair, Dept. of Chemistry (2021 – Present)

Dept. of Chemistry Safety Committee (2020 – Present)

Dept. of Chemistry Executive Committee (2020 – Present)

Dept. of Chemistry Return to Research Committee (2020 – 2021)

CU Wizards outreach (1995 – current)

Program Director (Rotator), National Science Foundation (2017 – 2019)

Ad Hoc Member, National Institutes of Health Special Emphasis Panel (2021)

Member, National Science Foundation review panels (Winter and summer, 2021)

Member, National Science Foundation review panel (Winter 2017)

Member, National Science Foundation review panel (Winter 2016)

University of Colorado Boulder Office of Contracts and Grants Faculty & Administrators Advisory Board (2015 – 2017)

University of Colorado Boulder Vice Chancellor's Advisory Committee (2015 – 2017)

Provost's Faculty Communication Committee (2015 – 2017)

Dept. of Chemistry and Biochemistry IT Committee (2015 – 2017)

Dept. of Chemistry and Biochemistry Governance Committee (2015 – 2017)

Dept. of Chemistry and Biochemistry Organic Faculty Search Committee (2015-2016)

College of Arts and Sciences Chairs and Directors Advisory Committee (2012 – 2016)

Chair, Dept. of Chemistry and Biochemistry (2012 – 2016)

Chair, Dept. of Chemistry and Biochemistry Graduate Admissions (2011 – 2012; 2016 – 2017)

Chair, Dept. of Chemistry and Biochemistry Organic Faculty Search Committee (2012-2013)

Local Chair, ACS Division of Organic Chemistry Graduate Research Symposium (2012)

University of Colorado Prehealth Advisory Committee (2009-2012)

Local Chair, 41st National Organic Chemistry Symposium (2009)

Regular Member, National Institutes of Health Medicinal Chemistry Study Section (2001 – 2005)