

Katherine Nalani Maloney

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ACADEMIC POSITIONS

Point Loma Nazarene University	
<i>Professor of Chemistry</i>	2018-present
<i>Associate Professor of Chemistry</i>	2014-2018
<i>Assistant Professor of Chemistry</i>	2012-2014
Harvey Mudd College	
<i>Assistant Professor of Chemistry</i>	2009-2011

EDUCATION AND EXPERIENCE

Visiting Scholar	2019-2020
Dorrestein Lab, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	
Cancer Therapeutics Training (CT2) Postdoctoral Fellowship	2006-2009
Scripps Institution of Oceanography/UCSD	
Advisor: Professor William Fenical	
Isolation and structure elucidation of bioactive compounds from marine actinomycetes	
Ph.D. in Chemistry and Chemical Biology	2000-2006
Cornell University	
Advisor: Professor Jon Clardy	
Dissertation title: Biologically active natural products from plants and their endophytes	
B.S. in Chemistry, <i>summa cum laude</i>	1996-2000
Pacific Lutheran University	
Advisor: Professor Duane Swank	
Synthesis and characterization of copper halide dimers ligated by substituted pyridines	
Undergraduate Researcher, NSF-REU	Summer 1999
University of Washington	
Advisor: Tomikazu Sasaki	
Multi-step organic synthesis of a modified carbohydrate ligand	

TEACHING

2012-	Point Loma Nazarene University	
	• CHE 103, General, Organic and Biological Chemistry	2018
	• CHE 294L, Organic Chemistry I Laboratory	2012-2015
	• CHE 304, Organic Chemistry II	2012-2019
	• CHE 304L, Organic Chemistry II Laboratory	2012-2017
	• CHE 351, Organic Structure Elucidation	2012-2018
	• CHE 351L, Organic Structure Elucidation Laboratory	2012-2018
	• CHE 370, Instrumental Analysis	2012-2018
	• CHE 370L, Instrumental Analysis Laboratory	2012-2018
2009-2011	Harvey Mudd College:	
	• Chem 23S, General Chemistry: Structure	2010, 2011
	• Chem 199, Seminar	2010-2011
	• Chem 56, Carbon Compounds	2010, 2011
	• Chem 58, Carbon Compounds Laboratory	2010, 2011
	• Chem 111, Organic Chemistry Laboratory	2009-2011
	• Chem 21, General Chemistry	2009
	• Chem 25, General Chemistry Laboratory	2009
2004-2006	<i>Teaching Fellow, 'Molecules of Life' (Science Core course),</i>	Harvard University
2000-2001	<i>Teaching Assistant, 'Organic Chemistry for the Life Sciences,'</i>	Cornell University
1998-2000	<i>Chemistry Tutor and Grader,</i>	Pacific Lutheran University

RESEARCH STUDENT MENTORING*PLNU*

Oscar Alvarado (PLNU Biology-Chemistry '14; <i>DC student at Southern California Univ. of Health Sciences</i>)	2012-2013
Victoria Berry (PLNU Chemistry '19)	2017-2018
Connor Brandenburg ^s (PLNU Philosophy '19)	2017-2019
Kyler Brinton (PLNU Biology-Chemistry '21)	2019-
Diana Corral (PLNU Biology-Chemistry '21)	2019-
Jason Chari (Cornell Univ. Biostatistics '17; <i>PhD student in Chemistry, UCLA</i>)	2016
Brent Chicoine (PLNU Biology-Chemistry '15)	2013
Jennifer Cordoza ^s (PLNU Biology-Chemistry '19)	2018-2019
Taylor Davis ^s (PLNU Biology-Chemistry '14)	2012-2014
Sydney Davis ^s (PLNU Biology-Chemistry '18; <i>MD student at University of Utah</i>)	2016-2018
Lindsey D'Elia (PLNU Biology-Chemistry '17)	2015-2016
Eunice Granados (PLNU Biology-Chemistry '14; <i>Alere Inc.</i>)	2014
Julia Kelly (PLNU Biology-Chemistry '21)	2019-
Lia Lozano (PLNU Chemistry '19)	2018-
Elizabeth Maloney (Pacific Lutheran Univ. Economics, Math, & Computer Science '16; <i>PhD student in Economics, UC Irvine</i>)	2012, 2016
Jeremiah Meloch (PLNU Biology-Chemistry '20)	2018-

Morgan Papineau [§] (PLNU Biology-Chemistry '17; DO student at Idaho College of Osteopathic Medicine)	2015-2017
Jordan Reader (PLNU Biology-Chemistry '15; DO student at Univ. of New England)	2013-2014
Jonathan Sawada (PLNU Biology-Chemistry '17; MD student at Loma Linda)	2015-2016
Lindsay Semmler [§] (PLNU Biology-Chemistry '16)	2015-2016
Matthew Steinhaus (PLNU Biology-Chemistry '15; MD student at UC Irvine)	2013-2014
Samantha Thompson (PLNU Biology-Chemistry '18; PharmD student at UCSD)	2017-2018
Sara Versales (PLNU Chemistry '21)	2019-

[§]Denotes PLNU honors project student

HMC

Thomas Aldrich* (HMC Chemistry '12; NSF GRFP PhD in Chemistry, Northwestern)	2010-2012
Kyle Chakos (HMC Engineering '13)	2010
Alix Chan (HMC Chemistry & Biology '12; PhD student in Chemical Biology, Harvard Medical School)	2011
William Chen (HMC Mathematical Biology '12)	2010
Jonathan 'Chance' Crompton (HMC Chemistry '13)	2011
Brian Fielder (HMC Chemistry '14, Schrödinger, Inc.)	2010-2011
Millie Fung* (HMC Chemistry & Biology '11; PhD in Chemistry, UC Irvine)	2010-2011
Katie Near* (HMC Chemistry '10; NSF GRFP PhD in Chemistry, Stanford)	2009-2010
Bethany Okada (HMC Chemistry '13; PhD in Chemistry, Princeton)	2011
Caitlin Olmsted* (HMC Chemistry '10)	2009-2010
Emily Putnam (HMC Chemistry & Biology '12)	2010
Kim Quach (HMC Chemistry '12; PhD student in Chemistry, Yale)	2011
Jessie Roy* (HMC Chemistry '11; MS in Biology, Georgia Tech)	2010-2011
Kathryn Schmiedicke* (HMC Biology '11)	2010-2011
Vincent Shieh (HMC Chemistry & Biology '12)	2010
Camille Sultana* (HMC Chemistry '10; PhD in Environmental Chemistry, UCSD)	2009-2010

*Denotes HMC senior thesis student

PUBLICATIONS

* Undergraduate student co-authors

1. **Maloney, K.** "In Praise of a Nonelite Education" *Inside Higher Ed*, 22 May 2019. Op-ed.
<https://www.insidehighered.com/advice/2019/05/22/nonelite-colleges-can-give-students-excellent-education-and-phd-grads-chance-grow>
2. Kearney, S. E.; Zahoránszky-Köhalmi, G.; Brimacombe, K. R.; Henderson, M. J.; Lynch, C.; Zhao, T.; Wan, K. K.; Itkin, Z.; Dillon, C.; Shen, M.; Cheff, D. M.; Lee, T. D.; Bougie, D.; Cheng, K.; Coussens, N. P.; Dorjsuren, D.; Eastman, R. T.; Huang, R.; Iannotti, M. J.; Karavadhi, S.; Klumpp-Thomas, C.; Roth, J. S.; Sakamuru, S.; Sun, W.; Titus, S. A.; Yasgar, A.; Zhang, Y.; Zhao, J.; Andrade, R. B.; Brown, M. K.; Burns, N. Z.; Cha, J. K.; Mevers, E. E.; Clardy, J.; Clement, J. A.; Crooks, P. A.; Cuny, G. D.; Ganor, J.; Moreno, J.; Morrill, L. A.; Picazo, E.; Susick, R. B.; Garg, N. K.; Goess, B. C.; Grossman, R. B.; Hughes, C. C.; Johnston, J. N.; Joullie, M. M.; Kinghorn, A. D.; Kingston, D. G. I.; Krische, M. J.; Kwon, O.; Maimone, T. J.; Murphy, B.

- T.; Nagorny, P.; Majumdar, S.; **Maloney, K. N.**; Mohamed, E.; Olson, D. E.; Overman, L. E.; Brown, L. E.; Snyder, J. K.; Porco, J. A., Jr.; Sharma, I.; Shaw, J. T.; Rivas, F.; Ross, S. A.; Sarpong, R.; Xu, Z.; Shen, B.; Shi, W.; Stephenson, C. R. J.; Tang, Y.; Taylor, R. E.; Thomson, R. J.; Wuest, W. M.; Zakarian, A.; Zhang, Y.; Verano, A. L.; Tan, D. S.; Vosburg, D. A.; Wu, J.; Ren, T.; Zuo, Z.; Inglese, J.; Michael, S.; Simeonov, A.; Zheng, W.; Shinn, P.; Jadhav, A.; Boxer, M. B.; Hall, M. D.; Xia, M.; Guha, R.; Rohde, J. M. "Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space" *ACS Cent. Sci.* **2018**, 4, 1727-1741.
3. Kim, D.; Lee, E. J.; Lee, J.; Leutou, A. S.; Shin, Y.-H.; Choi, B.; Hwang, J. S.; Hahn, D.; Choi, H.; Chin, J.; Cho, S. J.; Hong, Y. D.; Ko, J.; Seong, C. N.; **Maloney, K. N.**; Oh, D.-C.; Yang, I.; Hwang, H.; Nam, S.-J. "Antartin, a cytotoxic zizaane-type sesquiterpenoid from a *Streptomyces* sp. isolated from an Antarctic marine sediment." *Marine Drugs* **2018**, 16, 130.
 4. Aldrich, T. J.*; Rolshausen, P.; Roper, M. C.; Reader, J. M.*; Steinhaus, M. J.*; Rapicavoli, J.; Vosburg, D. A.; **Maloney, K. N.** "Radicinin from *Cochliobolus* sp. inhibits *Xylella fastidiosa*, the causal agent of Pierce's Disease of grapevine." *Phytochemistry* **2015**, 116, 130-137.
 5. Sun, P.; **Maloney, K. N.**; Nam, S.-J.; Haste, N. M.; Raju, R.; Aalbersberg, W.; Jensen, P. R.; Nizet, V.; Hensler, M. E.; Fenical, W. "Fijimycins A-C, three antibacterial etamycin-class depsipeptides from a marine-derived *Streptomyces* sp." *Bioorg. Med. Chem.* **2011** 19 (22), 6557-6562.
 6. Udworthy, D. W.; Gontang, E. A.; Jones, A. C.; Schultz, A. W.; Sorrels, C. M.; Winter, J. M.; Yang, J. Y.; Beauchemin, N.; Capson, T. L.; Clark, B. R.; Esquenazi, E.; Eustáquio, A. S.; Freel, K.; Gonzalez, D. J.; Gerwick, L.; Gerwick, W. H.; Liu, W.-T.; Malloy, K. L.; **Maloney, K. N.**; Nett, M.; Nunnery, J. K.; Penn, K.; Prieto-Davo, A.; Simmons, T. L.; Weitz, S.; Wilson, M. C.; Tisad, L. S.; Dorrestein, P. C.; Moore, B. S. "Significant natural product biosynthetic potential of actinorhizal symbionts of the genus *Frankia*, as revealed by comparative genomic and proteomic analyses." *Appl. Environ. Microb.* **2011** 77 (11), 3617-3625.
 7. Choi, Y.; Jermihov, K.; Nam, S.; Sturdy, M.; **Maloney, K.**; Qiu, X.; Main, M.; Mesecar, A. D.; Pauli, G. F.; Fenical, W.; Pezzuto, J. M.; van Breemen, R. R. "Screening natural products for inhibitors of quinone reductase-2 using ultrafiltration LC-MS." *Anal. Chem.* **2011** 83 (3), 1048-1052.
 8. Murphy, B. T.; **Maloney, K. N.**; Fenical, W., **2011**, Natural Products from Marine Microorganisms. In *Natural Products: Phytochemistry and Pharmacognosy*. Pezzuto, J. M.; Kato M. J., Eds.; in Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Paris, France.
 9. Haste, N. M.; Perera, V.; **Maloney, K. N.**; Tran, D. N.; Jensen, P. R.; Fenical, W.; Nizet, V.; Hensler, M. E. "Activity of the streptogramin antibiotic etamycin against methicillin-resistant *Staphylococcus aureus*." *J. Antibiot.* **2010** 63 (5), 219-224.
 10. **Maloney, K. N.**; MacMillan, J. B.; Kauffman, C. A.; Jensen, P. R.; DiPasquale, A. G.; Rheingold, A. L.; Fenical, W. "Lodopyridone, a structurally-unprecedented alkaloid from a marine actinomycete." *Org. Lett.* **2009** 11 (23), 5422-5424.

11. **Maloney, K. N.**; Fujita, M.; Eggert, U. S.; Schroeder, F. C.; Field, C. M.; Mitchison, T. J.; Clardy J. "Actin-aggregating cucurbitacins from *Physocarpus capitatus*." *J. Nat. Prod.* **2008** 71 (11), 1927-1929.
12. **Maloney, K. N.**; Hao, W.; Xu, J.; Gibbons, J.; Hucul, J.; Roll, D.; Brady, S. F.; Schroeder, F. C.; Clardy, J. "Phaeosphaeride A, a selective inhibitor of STAT3-dependent signaling isolated from an endophytic fungus." *Org. Lett.* **2006** 8 (18), 4067-4070.
13. Smith, P. L.; **Maloney, K. N.**; Pothen, R. G.; Clardy, J.; Clapham, D. E. "Bisandrographolide from *Andrographis paniculata* activates TRPV4 channels." *J. Biol. Chem.* **2006** 281 (40), 29897-29904.
14. Hieronymus, H.; Lamb, J.; Ross, K. N.; Clement, C.; Peng, X. P.; Rodina, A.; Nieto, M.; Du, J.; Stegmaier, K.; Raj, S. M.; **Maloney, K. N.**; Clardy, J.; Hahn, W. C.; Chiosis, G.; Golub T. R. "Gene expression signature-based chemical genomic prediction identifies novel class of HSP90 pathway modulators." *Cancer Cell* **2006** 10 (4), 321-330.
15. **Maloney, K. N.** "Book Review: Natural Products Isolation, Second Edition. Satyajit D. Sarker, Zahid Latif, and Alexander I. Gray, Editors. Humana Press." *Chemical Educator* **2006** 11 (2), 146-147.

PATENTS

* Undergraduate student co-authors

1. Rolshausen, P.; Roper, M. C.; Maloney, K. N.; Aldrich, T.* Identification of fungi antagonistic to *Xylella fastidiosa*. (2019) US Patent 10,238,118.
2. Clardy, J. C.; Maloney, K. N.; Schroeder, F. C. Bioplastics based on polymers extracted from cultured media of carbohydrates and a fungus. *PCT Int. Appl.* (2009), WO 2009045719 A2 20090409.

PRESENTATIONS

* Undergraduate student co-authors

1. Maloney, K. N. "Lessons from the S-STEM CS Program at PLNU." Invited oral presentation at the 223rd 2YC3 Conference. San Diego, 23 August, 2019.
2. Brandenburg, C. A.; Lockner, J. W.; Maloney, K. N.; Castro, C.; Blacutt, A.; Roper, M. C.; Rolshausen, P. "Toward the synthesis of radicinin, an inhibitor of Pierce's disease and citrus greening disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019.
3. Berry, V. D.; Cordoza, J. L.; Meloch, J. J.; Blacutt, A.; Roper, M. C.; Rolshausen, P.; Maloney, K. N. "Bioassay-guided isolation of fungal natural products for fighting citrus greening disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019.

4. Lozano Salazar, L.; Cordoza, J. L.; Rolshausen, P.; Roper, M. C.; Maloney, K. N. "Isolation and formulation of radicinin as a microbial biopesticide against Pierce's Disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019.
5. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Seminar presented to the Natural Product Affinity Group (NPAG) at Scripps Institution of Oceanography. La Jolla, 13 July 2018.
6. Davis, S.*; Thompson, S.*; Berry, V.*; Brandenburg, C.*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Isolation and structure elucidation of alteichin, a fungal natural product that inhibits *Xylella fastidiosa*, the bacterium that causes Pierce's Disease." 255th National Meeting, American Chemical Society. New Orleans, 19 March 2018.
7. Maloney, K. N. "Defending the grapevines: Natural product inhibitors of Pierce's Disease from endophytic fungi." Symposium on Organic Synthesis and Chemical Biology at the University of San Diego. San Diego, 2 May 2017.
8. Maloney, K. N. "Hands-on NMR experience without the NMR: Using MestreNova to teach an undergraduate Organic Structure Elucidation course without an on-site high field NMR." 253rd National Meeting, American Chemical Society. San Francisco, 2 April 2017.
9. Papineau, M.*; D'Elia, L.*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Bioassay-guided isolation and structure elucidation of a natural product inhibitor of *Xylella fastidiosa* from the endophytic fungus *Ulocladium* sp." 253rd National Meeting, American Chemical Society. San Francisco, 3 April 2017.
10. Maloney, E. M.*; Chari, J.*; Botts, R.; Davis, T. S.*; Alvarado, O. A.*; Chicoine, B. J. A.*; Brayton, C.*; McFadden, C. S.; Maloney, K. N. "Evaluating the relationship between chemical profiles and cryptic species of *Sarcophyton* soft corals in Palau using both supervised and unsupervised statistical learning." 253rd National Meeting, American Chemical Society. San Francisco, 3 April 2017.
11. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Portland Section Meeting, American Chemical Society. Portland, 1 December 2016.
12. Papineau, M.*; D'Elia, L.*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Bioassay-guided isolation of secondary metabolite inhibitors of *Xylella fastidiosa* produced by endophytic fungi." 251st National Meeting, American Chemical Society. San Diego, 15 March 2016.
13. Semmler, L.*; Sawada, J.*; Steinhaus, M.*; Reader, J.*; Rolshausen, P. E.; Roper, C.; Rapiavoli, J.; Maloney, K. N. "Synthesis of a water-soluble radicinin derivative for use as an antibacterial agent in grapevines." 251st National Meeting, American Chemical Society. San Diego, 14 March 2016.
14. Maloney, K. N. "Saving the wine grapes: Radicinin from the endophyte *Cochliobolus* sp. inhibits *Xylella fastidiosa*, the causal agent of Pierce's Disease of grapevine," Seminar presented to the

Natural Product Affinity Group (NPAG) at Scripps Institution of Oceanography. La Jolla, 8 May 2015.

15. Steinhaus, M.*; Reader, J.*; Rouffet, M.; Aldrich, T.*; Rolshausen, P.; Roper, M.; Maloney, K. "Synthesis of derivatives of the natural product radicinin that inhibit the plant pathogen *Xylella fastidiosa*," 249th National Meeting, American Chemical Society. Denver, 24 March 2015.
16. Davis, T. S.*; Alvarado, O. A.*; Chicoine, B. J. A.*; Okada, B. K.*; Quach, K.*; Brayton, C.*; Maloney, K. N.; McFadden, C. S. "Analysis of secondary metabolites from cryptic species of *Sarcophyton glaucum* suggests a genetic explanation for previously observed variation," 247th National Meeting, American Chemical Society. Dallas, 16 March 2014.
17. Yang, J.-i.; Roper, C.; Borneman, J.; Gloer, J.; Maloney, K.; Rolshausen, P. "Characterization of the fungal microbial community inhabiting grapevine: Identification of a biocontrol agent for Pierce's Disease." 113th General Meeting, American Society of Microbiology. Denver, 21 May 2013.
18. Davis, T.*; Alvarado, O.*; Okada, B.*; Quach, K.*; Shieh, V.*; Brayton, C.*; Maloney, K. N.; McFadden, C. S. "Analysis of secondary metabolite chemistry among the soft coral *Sarcophyton* species *glaucum*, *gemmatum*, and *trocheliophorum*." 38th West Coast Biological Sciences Undergraduate Research Conference. San Diego, 20 April 2013.
19. Aldrich T.*; Maloney, K. N.; Rolshausen, P. E.; Roper, C. "Synthesis and biological evaluation of radicinin derivatives against *Xylella fastidiosa*, a bacterial pathogen of grapevines." 243rd National Meeting, American Chemical Society. San Diego, 26 March 2012.
20. Chan A.*; Brown A.*; Roy J.*; McFadden C. S.; Maloney K. N. "The relative role of physical versus chemical defenses in soft corals of the genus *Sinularia*." 243rd National Meeting, American Chemical Society. San Diego, 26 March 2012.
21. Okada, B.*; Quach, K.*; Brayton, C.*; Shieh, V.*; McFadden, C. S.; Maloney, K. N. "Identification of cryptic species accounts for the seemingly idiosyncratic secondary metabolism of *Sarcophyton glaucum* specimens collected in Palau." 243rd National Meeting, American Chemical Society. San Diego, 26 March 2012.
22. Fielder, B. C.*; Fung, M. H.*; Olmsted, C. M.*; Maloney, K. N. "Isolation and characterization of antibiotic depsipeptides produced by endophytic fungi from *Ribes viburnifolium*." 52nd Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.
23. Aldrich T.*; Rolshausen, P. E.; Roper, C.; Maloney, K. N. "Discovery of natural product inhibitors of *Xylella fastidiosa* from endophytic fungi." 52nd Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.
24. Quach, K.*; Okada, B.*; Brayton, C.*; Shieh, V.*; McFadden, C. S.; Maloney, K. N. "Variation in secondary metabolite chemistry among cryptic species of the soft coral *Sarcophyton glaucum*." 52nd Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.

25. Aldrich T.*; Rolshausen, P. E.; Roper, C.; Maloney, K. N. "Progress toward the discovery of natural product inhibitors of *Xylella fastidiosa* from endophytic fungi." 241st National Meeting, American Chemical Society. Anaheim, 27 March 2011.
26. Roy, J. S.*; Brown, A.*; McFadden, C. S.; Maloney, K. N. "Trade-offs between the physical and chemical defenses of *Sinularia* soft corals." 241st National Meeting, American Chemical Society. Anaheim, 28 March 2011.
27. Fung, M. H.*; Olmsted, C. M.*; Maloney, K. N. "Progress toward the isolation and structure elucidation of antibiotic compounds produced by an endophytic fungus from *Ribes viburnifolium*." 241st National Meeting, American Chemical Society. Anaheim, 28 March 2011.
28. Maloney, K. N. "Mother Nature's medicine cabinet: Discovering new drugs at the bottom of the ocean, in the tallest trees of the rainforest, and everywhere in between." Keynote Speech at BE WiSE Overnight at the Sea Life Aquarium. Carlsbad, 1 May 2009; invited back for Keynote Speech at BE WiSE Overnight at the Birch Aquarium. La Jolla, 30 April 2010.
29. Maloney, K. N.; Nam, S.-J.; Gaudêncio, S.; MacMillan, J. B.; Sturdy, M.; Pegan, S.; Mesecar, A.; Choi, Y.; van Breemen, R.; Fenical, W.; Pezzuto, J. "X-ray crystallography- and mass spectrometry-based screens of natural product mixtures reveal potent and structurally novel quinone reductase 2 inhibitors from marine sediment bacteria." 100th Annual Meeting, American Association for Cancer Research. Denver, 20 April 2009.
30. Maloney, K. N.; MacMillan, J.; Choi, Y.; van Breemen, R.; Kauffman, C. A.; Fenical, W. "Lodopyridone, a selective ligand for quinone reductase 2 from a marine-derived *Saccharomonospora* sp." 42nd Western Regional Meeting, American Chemical Society. Las Vegas, 26 September 2008.
31. Maloney, K. N.; MacMillan, J. B.; Kauffman, C. A.; Jensen, P. R.; Fenical, W. "The lodopyridones: Modified peptides from a marine-derived *Saccharomonospora* sp." 7th Joint Meeting of AFERP, ASP, GA, PSE & SIF. Athens, 7 August 2008.
32. Maloney, K. N. "New medicines from marine bacteria." Saturday Science Club for Girls at the Reuben H. Fleet Science Center. San Diego, 13 October 2007.
33. Maloney, K. N.; Fenical, W.; Clardy, J. "A natural products research program for implementation at a primarily undergraduate institution." 234th National Meeting, American Chemical Society. Boston, 20 August 2007.
34. Maloney, K. N.; Eggert, U.; Mitchison, T. J.; Smith, P. L.; Clapham, D. E.; Bayliss, P.; Roberts, T.; Clardy, J. "Academic screens of plant extracts yield new structures and new probes for biology." 46th Annual Meeting, American Society of Pharmacognosy. Corvallis, July 2005.
35. Maloney, K. N.; Schroeder, F. C.; Fujita, M.; Eggert, U.; Shaw, J.; Clardy, J. "High throughput screening of natural product extracts for cancer drug discovery." Symposium Celebrating Diversity in Organic Chemistry, Pfizer Global Research & Development. Groton, 17 September 2004.

36. Maloney, K. N.; Sasaki, T. "Synthesis of a Multivalent Carbohydrate Ligand." 219th National Meeting, American Chemical Society. San Francisco, 26 March 2000.
37. Maloney, K. N.; Swank, D. "Crystallographic Structure Determination of a CuBr₂•pyridine Complex." Summer Research Symposium, MJ Murdock Charitable Trust. Nampa, 7 November 1998.

EXTERNAL GRANTS

<i>USDA Citrus Disease Research and Extension (CDRE) Program</i>, co-investigator (with PD Caroline Roper and co-Is Robert Turgeon, Georgios Vidalakis, Philippe Rolshausen, Greg McCollum, David Jassby, Pieter Dorrestein, James Borneman and Jonathan Kaplan) Deployment of a Spectrum of Bactericides to Cure and Prophylactically Treat Citrus Huanglongbing. \$5,112,000 (\$131,207 for my part)	2017-2021
<i>CDFA UC Pierce's Disease Research Grant</i>, co-PI (with PI Philippe Rolshausen and co-PIs Caroline Roper and James Borneman, UC Riverside) Greenhouse evaluation of grapevine microbial endophytes and fungal natural products for control of Pierce's Disease. \$94,402 (\$17,759 for my part)	2016-2017
<i>NSF Scholarships in Science Technology Engineering and Math (S-STEM)</i>, PI (with co-PIs Maria Zack, Dawne M. Page, Lorinda Carter, and Paul Schmelzenbach) Scholarships to Support STEM majors Computational Sciences Minors \$576,750	2015-2020
<i>CDFA UC Pierce's Disease Research Grant</i>, co-PI (with PI Philippe Rolshausen and co-PI Caroline Roper, UC Riverside) Greenhouse Evaluation of Grapevine Fungal Endophytes and Fungal Natural Products Antagonistic to <i>Xylella fastidiosa</i> for Control of Pierce's Disease. \$175,007 (\$31,990 for my part)	2014-2016
<i>Research Corporation Multiple Investigator-Cottrell College Science Awards</i>, PI (with Catherine McFadden, HMC Dept of Biology) Variation in secondary metabolite chemistry among cryptic species of the soft coral Sarcophyton, a source of bioactive cembranoids \$75,000	2010-2012
<i>American Society of Pharmacognosy Research Starter Grant</i>, PI Discovery of natural product inhibitors of <i>Xylella fastidiosa</i> from endophytic fungi \$5,000	2010
<i>National Science Foundation Major Research Instrumentation</i>, co-PI MRI: Acquisition of a Liquid Chromatograph-Ion Trap Mass Spectrometer for Undergraduate Research and Research Training \$234,310	2009

HONORS AND FELLOWSHIPS

Cancer Therapeutics Training Fellowship, UCSD Moores Cancer Center	2007-2009
Certificate of Distinction in Teaching, Harvard University	2006, 2005
American Chemical Society Travel Award	2005
American Society of Pharmacognosy Lynn Brady Travel Award	2005
NSF Graduate Research Fellowship	2001-2004
Herman & Margaret Sokol Fellowship	2001
Cornell University Graduate Fellowship	2000-2001
American Institute of Chemists Award (top chemistry senior)	2000
NSF REU Fellowship, University of Washington	1999
Barry Goldwater Scholarship	1998-2000
Olsen Fellowship for Undergraduate Research, PLU Department of Chemistry	1997-1998
Robert C. Byrd Scholarship	1996-2000
PLU Academic Scholarship	1996-2000

SERVICE

2018-2020	Councilor, ACS Division of Organic Chemistry Executive Committee (<i>member of Awards, Membership, and Nomination Committees</i>)
2017-2019	Diversity Committee, PLNU (<i>selected as Chair for 2018-19 academic year</i>)
2013-	Pre-Health Committee, PLNU (<i>conduct sophomore and junior pre-med interviews; provide feedback on application materials</i>)
2013-	Goldwater Faculty Representative, PLNU (<i>assist PLNU students applying for the Barry Goldwater Scholarship and coordinate final application submission</i>)
2012-	Honors Project Committees • 2018-19, Jennifer Cordoza • 2018-19, Connor Brandenburg (advisor Jonathan Lockner) • 2017-18, Sydney Davis • 2016-17, Morgan Papineau • 2015-16, Marcela Bucardo (advisor Dale Shellhamer) • 2015-16, Lindsay Semmler • 2015-16, Connor Voss (advisor Matthieu Rouffet) • 2014-15, Hannah Quinn (advisor Mike McConnell) • 2013-14, Taylor Davis • 2013-14, William Frye (advisor David Cummings) • 2012-13, Zachary Sedillo and Jack Rusing (advisor Mike Dorrell)
2008-	Manuscript Reviewer: <i>Journal of Natural Products; Marine Drugs; Organic Letters; Phytochemistry</i>
2018, 2019	Ad hoc reviewer (NSF S-STEM program, Citrus Research Board)
2015-2017	Alternate Councilor, ACS Division of Organic Chemistry Executive Committee (<i>member of Awards, Membership, and Nomination Committees</i>)
2015-2016	2016 Organic Chemistry Examination Committee, ACS Division of Chemical Education Examinations Institute (<i>write 2016 ACS Organic Chemistry examination</i>)
2015-2016	Faculty Development Committee, PLNU (<i>one year appointment</i>)
2015	NSF Panelist (S-STEM program)

2015	Expert Reviewer: ACS Petroleum Research Fund Undergraduate New Investigator Research Grant program; North Carolina Biotechnology Center Biotechnology Research Grant program
2015	Enrollment Management Committee, PLNU (<i>one year appointment</i>)
2015	Commencement Honor Guard, PLNU
2015	Student Success Collaborative (SSC) Department Representative, PLNU
2013-2014	Faculty Status Committee, PLNU (<i>elected for one-year position</i>)
2012-2014	Member-At-Large, ACS Division of Organic Chemistry Executive Committee (<i>Chaired Membership Committee; member of Graduate Fellowship, Membership, and Communications Committees; headed up Social Media initiative</i>)
2013	Faculty Mentor, PLNU First Year Experience
2010-2011	Academic Affairs Committee, Harvey Mudd College
2010-2011	Assessment Committee, Harvey Mudd College
2010-2011	Seminar Coordinator, HMC Department of Chemistry
2008-2011	Workshop Leader, WEST Conference, Harvey Mudd College
2010	NSF Panelist (MRI program)
2009, 2010	Keynote Speaker, BE WiSE Overnight
2006-2009	Program Co-Chair, San Diego Expanding Your Horizons Conference
2009	Judge (AWIS), Greater San Diego Science and Engineering Fair
2007, 2008	Assistant Event Captain, San Diego Science Olympiad
2007, 2008	Volunteer, National Ocean Sciences Bowl
2007	Presenter, Reuben H. Fleet Saturday Science Club for Girls
2004-2005	Mentor, Boston Latin School Science Mentor Program
2003-2005	Emergency Department Volunteer, Brigham & Women's Hospital
2001, 2002	Transportation Chair, Cornell Expanding Your Horizons Conference
2000	Session Leader, Cornell University Materials Science Workshop
1998	Volunteer Tutor, Keithley Middle School 'Extra Innings' Program

PROFESSIONAL MEMBERSHIPS

American Chemical Society (Division of Organic Chemistry Executive Committee, Organic Chemistry Examination Committee)
 American Society of Pharmacognosy (Younger Members Committee)
 Council on Undergraduate Research