

## Michael F. Cohen

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Assistant Professor  
Sonoma State University  
Department of Biology, Darwin 222  
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### HIGHER EDUCATION

*September 1990 to June 1996*

**Ph.D. Microbiology**

University of California at Davis

*August 1986 to May 1990*

**B.A. Biology, Microbiology option**, Magna cum laude  
California State University at Northridge

### PROFESSIONAL EXPERIENCE

*Aug. 2005 to present*

**Assistant Professor of Biology**, Sonoma State University

*Sept. 2004 to present*

**Affiliate Assistant Professor** University of Washington, College of Forest Resources, Box 352100, Seattle, WA 98195-2100

*Aug. 2002 to Jul. 2005*

**Research Plant Pathologist** (postdoctoral research); USDA-Agricultural Research Service, Tree Fruit Research Laboratory; Supervisor, Mark Mazzola  
Research on biologically-based integrated management systems for control of soilborne diseases of deciduous fruit trees.

*Apr. 1999 to Jul. 2002*

**Post-doctoral Researcher**; University of the Ryukyus; Supervisor, Dr. Hideo Yamasaki  
Research on applied and basic aspects of *Azolla* water fern interactions with bacteria.

*Aug. 1998 to Jul. 2001*

**Lecturer in Biology**; University of Maryland, Asian Division, Supervisor: Dr. Allan Berg

*Nov. 1997 to Aug. 1998*

**Health Science Specialist** (Postdoctoral Researcher); VA Medical Center; Laboratory of Cardiovascular Molecular Biology; 16111 Plummer St., Sepulveda, CA 91343  
Characterization and cloning of mammalian folate and pantothenic acid transporters.

*Sept. 1996 to Oct. 1997*

**General Science & Medical Microbiology Instructor;** United States Peace Corps; United States Peace Corps/Nepal

*Aug. 1995 to May 1996*

**Full-time Instructor;** (one-year replacement); Department of Biology, California State University, Fresno

*Sept. 1990 to Jun. 1995*

**Graduate Researcher and Part-time Instructor;** University of California, Davis; Section of Microbiology, Supervisor, Dr. Jack Meeks  
Characterized a symbiotic interaction between the N<sub>2</sub>-fixing cyanobacterium *Nostoc punctiforme* and a bryophyte plant host.

### **Fellowships and Awards**

- Association of California Water Agencies Theodore Roosevelt Environmental Award, “Wastewater to Fuel” project (Dec. 1, 2009)
- Pearson Sustainable Solutions Award, “Wastewater to Fuel” project, \$1,000 (Dec. 22, 2008)
- Interstate Renewable Energy Council Innovation Award, “Aquatic Biomass to Fuel” project (Oct. 13, 2008)
- International Council for Local Environmental Initiatives (ICLEI) 2008 Climate Innovation Invitational Award, “Aquatic Biomass to Fuel” project, \$1,000 (May 15, 2008)
- USDA Performance Bonus Award, \$1,500 (2003)
- Japan Society for the Promotion of Science Fellowship, \$100,000 (*Nov. 2000 to July 2002*)
- Schwall Medical Research Fellowship, \$50,000 (*Sept. 1990 to July 1995*)

### **Grants at SSU**

Mazzola M, **Cohen MF**, “Active management of soil microbial communities to limit soilborne disease development in strawberry production systems” California Strawberry Commission. Proposal for 2<sup>nd</sup> year of funding \$46,090 (*Feb. 2010 – Jan. 2011*), submitted Oct. 2009

**Cohen MF**, Care C, Kozlowski J “Wastewater to fuel project” internship fund, City of Santa Rosa, \$25,000 (*July 2009 – June 2010*).

Mazzola M, **Cohen MF**, “Active management of soil microbial communities to limit soilborne disease development in strawberry production systems” California Strawberry Commission research grant. \$44,475 (*Feb. 2009 – Jan. 2010*)

**Cohen MF**, “Aquatic Biomass to Fuel,” California Energy Commission, Energy Innovations Small Grants (EISG) Program. \$70,938 (*Jun. 2009 – May 2010*).

**Cohen MF**, Fukuto J, Chen L, “Integrated Wastewater Scrubbing and Biogas Production,” CSUPERB Joint Ventures Matching Grants Program. \$25,000 (*Jul. 2008 – Dec. 2009*).

**Cohen MF**, “Aquatic Biomass to Fuel,” Bay Area Air Quality Management District, \$75,000 (July 2008 – Jun. 2010).

**Cohen MF** “Applied Environmental Microbiology Fund,” SSU Academic Foundation (established March 2007) \$5,500 in donations received since fund established.

**Cohen MF**, “The potential of leaf-colonizing microorganisms for biocontrol of *Phytophthora ramorum*,” US Forest Service Sudden Oak Death Research Program Award, \$14,805 (Sept. 2007 – Dec. 2008).

**Cohen MF**, Duckworth RS, “Building, monitoring and analysis of experimental channelized aquatic wastewater scrubbers,” City of Santa Rosa, \$50,000 (Jul. 2007 – Jun. 2009).

**Cohen MF**, “Plant Byproduct Utilization by Microbial Cultures: Strategies for bolstering the economic feasibility of various biotechnological applications,” SSU Research, Scholarship and Creative Activity Program. \$2,358 (Mar. 2006 – Jun. 2007).

**Cohen MF**, “Control of *Phytophthora ramorum* through foliar application of a surfactant producing plant-colonizing bacterium,” US Forest Service Sudden Oak Death Research Program Award, \$15,000 (Oct. 2005 – Dec. 2006).

### **Peer-Reviewed Publications**

1. Yamasaki H, Itoh RD, Bouchard JN, Dghim AA, **Cohen MF** (2010) Nitric oxide synthase-like activities in plants. *In: Nitrogen Metabolism plants in the Post-Genomic Era. Vol. 2.* C Foyer, H Zhang, Eds. Wiley-Blackwell. Oxford, UK. *In press*, 352 p.
2. Hossain KK, Itoh RD, Yoshimura G, Tokuda G, Oku H, **Cohen MF**, Yamasaki H (2010) Effects of nitric oxide scavengers on thermoinhibition of seed germination in *Arabidopsis thaliana*. *Russ J Plant Physiol* 57:(2):222-232
3. **Cohen MF**, Lamattina L, Yamasaki H (2010) Nitric oxide signaling by plant-associated bacteria. *In: Nitric oxide in plant physiology.* S Hayat, M Mori, J Pichtel, A Ahmad, Eds. Wiley-Vch, Germany. p. 161-172.
4. Mazzola M, de Bruijn I, **Cohen MF**, Raaijmakers JM (2009) Protozoa-induced regulation of cyclic lipopeptide biosynthesis is an effective predation defense mechanism in *Pseudomonas fluorescens*. *Appl Environ Microbiol.* 75(21):6804-6811.
5. Mazzola M, Zhao, Z, **Cohen MF**, Raaijmakers, JM (2007) Cyclic lipopeptide surfactant production by *Pseudomonas fluorescens* SS101 is not required for suppression of complex *Pythium* spp. populations. *Phytopathology* 97:1348-1355.
6. Mazzola M, Brown J, Izzo AD, **Cohen MF** (2007) Mechanism of action and efficacy seed meal-induced pathogen suppression differ in a Brassicaceae species and time-dependent manner. *Phytopathology* 97:454-460.
7. Arita NO, **Cohen MF**, Tokuda G, Yamasaki H (2006) Fluorometric detection of nitric oxide with diaminofluoresceins (DAFs): applications and limitations for plant NO research. *In: Nitric Oxide in Plant Growth, Development and Stress Physiology, Springer Book Series: Plant Cell Monographs.* L. Lamattina, J.C. Polacco, Eds., Springer, Plant Cell Monogr 6:269-280.

8. Yamasaki H, **Cohen MF** (2006) NO signal at the crossroads: polyamine-induced nitric oxide synthesis in plants? *Trends Plant Sci* 11(11):522-524.
9. **Cohen MF**, Mazzola M (2006) Effects of *Brassica napus* seed meal amendment on soil populations of resident bacteria and *Naegleria americana*, and the unsuitability of arachidonic acid as a protozoan-specific marker. *J Protozool Res* 16:16-25.
10. **Cohen MF**, Mazzola M (2006) Resident soil bacteria, nitric oxide emission and particle size modulate the effect of *Brassica napus* seed meal on disease incited by *Rhizoctonia solani* and *Pythium* spp. *Plant Soil* 286:75-86.
11. **Cohen MF**, Yamasaki H, Mazzola M (2006) Nitric oxide research in agriculture: Bridging the plant and bacterial realms. *In: Abiotic Stress Tolerance in Plants: Toward the improvement of global environment and food*. A.K. Rai and T. Takabe, Eds., Springer Verlag, p. 71-90.
12. Mazzola M, Brown J, Izzo A, Abi-Ghanem R, **Cohen MF** (2006) Progress towards development of biologically-based strategies for the management of apple replant disease. *Phytopathologia Polonica* 39:11-18.
13. **Cohen MF**, Yamasaki H, Mazzola M (2005) *Brassica napus* seed meal soil amendment modifies microbial community structure, nitric oxide production and incidence of *Rhizoctonia* root rot. *Soil Biol Biochem* 37(7):1215-1227.
14. **Cohen MF**, Han HY, Mazzola M (2004) Molecular and physiological comparison of *Azospirillum* spp. isolated from *Rhizoctonia solani* mycelia, wheat rhizosphere and human skin wounds. *Can J Microbiol* 50:291-297.
15. **Cohen MF**, Mazzola M (2004) A reason to be optimistic about biodiesel: Seed meal as a valuable soil amendment. *Trends Biotechnol* 22(5):210-211.
16. **Cohen MF**, Yamasaki H, Mazzola, M (2004) Bioremediation of soils by plant-microbe systems. *Int J Green Energy* 1(3)301-312.
17. **Cohen MF**, Meziane T, Yamasaki H (2004) Photocarotenogenesis by a *Rhodococcus* isolated from the symbiotic fern *Azolla*. *Endocytobiosis Cell Res* 15, 350-355.
18. **Cohen MF**, Yamasaki H (2003) Involvement of nitric oxide synthase in sucrose-enhanced hydrogen peroxide tolerance of *Rhodococcus* sp. strain APG1, a plant-colonizing bacterium. *Nitric Oxide* 9(1):1-9.
19. **Cohen MF**, Williams J, Yamasaki H (2002) Biodegradation of diesel fuel by an *Azolla*-derived bacterial consortium. *J Environ Sci Health A37(9):1593-1606*.
20. **Cohen MF**, Meziane T, Tsuchiya M, Yamasaki H (2002) Feeding deterrence of *Azolla* in relation to deoxyanthocyanin and fatty acid composition. *Aquatic Bot* 74:181-187.
21. **Cohen MF**, Sakihama Y, Takagi YC, Ichiba T, Yamasaki H (2002) Synergistic effect of deoxyanthocyanins from the symbiotic fern *Azolla* on *hrmA* gene induction in the cyanobacterium *Nostoc punctiforme*. *Mol Plant-Microbe Interact* 15(9):875-882.
22. Sakihama Y, **Cohen MF**, Grace SC, Yamasaki H (2002) Plant phenolic antioxidant and prooxidant activities: phenolics-induced oxidative damage mediated by metals in plants. *Toxicology* 177(1)67-80.

23. **Cohen MF**, Sakihama, Y, Yamasaki H (2001) Roles of plant flavonoids in interactions with microbes: from protection against pathogens to the mediation of mutualism. *Recent Res Devel Plant Physiol* 2:157-173.
24. **Cohen MF**, Yamasaki H (2000) Flavonoid induced expression of a symbiosis-related gene in the cyanobacterium *Nostoc punctiforme*. *J Bacteriol* 182:4644-4646.
25. **Cohen MF**, Cai Y, Wolk CP, Meeks JC (1998) Transposon mutagenesis of heterocyst-forming filamentous cyanobacteria. *Methods Enzymol* 297:3-17.
26. **Cohen MF**, Meeks JC (1997) A hormogonium regulating locus, *hrmUA*, of the cyanobacterium *Nostoc punctiforme* strain ATCC 29133 and its response to an extract of a symbiotic plant partner *Anthoceros punctatus*. *Mol Plant-Microbe Interact* 10:280-289.
27. Campbell EL, **Cohen MF**, Meeks JC (1997) A polyketide-synthase-like gene is involved in the synthesis of heterocyst glycolipids in *Nostoc punctiforme* strain ATCC 29133. *Arch Microbiol* 167:251-258.
28. Campbell EL, Hagen KD, **Cohen MF**, Summers ML, Meeks JC (1996) The *devR* gene product is characteristic of receivers of two-component regulatory systems and is essential for heterocyst development in the filamentous cyanobacterium *Nostoc* sp. strain ATCC 29133. *J Bacteriol* 178:2037-2043.
29. **Cohen MF**, Wallis JG, Campbell EL, Meeks JC (1994) Transposon mutagenesis of *Nostoc* sp. strain ATCC 29133, a filamentous cyanobacterium with multiple differentiation alternatives. *Microbiology* 140:3233-3240.

### **Conference Proceedings**

**Cohen MF**, Yamamoto E<sup>†</sup>, Condeso E, Anacker BL, Rank N, Mazzola M (2008) Microbial- and isothiocyanate-mediated control of *Phytophthora* and *Pythium* species. Eds. Frankel SJ, Kliejunas J, Palmieri T, Katharine M. pp. 337-340 *In*, Proceedings of the Sudden Oak Death Third Science Symposium. PSW-GTR-214. U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. Albany, CA. 491 p.

Sherron V<sup>\*</sup>, Rank NE, **Cohen MF**, Anacker BL, Meentemeyer RK. 2007. Geographic variation in effects of temperature on phenotypic characteristics of *Phytophthora ramorum* isolates from eastern Sonoma County. Eds. Frankel SJ, Kliejunas J, Palmieri T, Katharine M. pp. 447-448 *In*, Proceedings of the Sudden Oak Death Third Science Symposium. General Technical Report PSW-GTR-214. U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. Albany, CA. 491 p.

Mazzola M, **Cohen MF** (2005) Suppression of Rhizoctonia root rot by *Streptomyces* in *Brassica* seed meal-amended soil. pp. 111.1-111.3, *In*, Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. MBAO, Fresno, CA.

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<sup>†</sup> SSU Graduate Student

## **Popular Press and Non Peer-Reviewed Professional Publications**

### **Author of article:**

**Cohen MF**, Lauria C\* (August 23, 2006) Algae-based fuel: Transforming wastewater into green gold. *The Press Democrat*, p. B7.

**Cohen MF**, Mazzola M, Yamasaki H (2006) Nitrogen oxidations in plant-bacterium interactions. *Microbe* 1(8):247.

**Cohen MF** (2005) Nitrate and virulence. *ASM News* 71(3):106.

### **Subject of report:**

Pohlman S (Sept. 22, 2009) Graduate student earns national honor for work on wastewater to fuel project. *The Sonoma State Star*, p. 10.

<http://media.www.sonomastatestar.com/media/storage/paper846/news/2009/09/22/News/Graduate.Student.Earns.National.Honor.For.Work.On.Wastewater.To.Fuel.Project-3784466-page3.shtml>

Abbott JP (Feb. 2009) Algae: America's Next Super Fuel? *Northbay Biz Magazine*

[http://www.northbaybiz.com/General\\_Articles/General\\_Articles/Algae\\_Americas\\_Next\\_Super\\_Fuel.php](http://www.northbaybiz.com/General_Articles/General_Articles/Algae_Americas_Next_Super_Fuel.php)

Daly S (Oct. 1, 2008) As clean as mud. *North Bay Bohemian*. Santa Rosa. p. 32.

<http://www.bohemian.com/bohemian/10.01.08/cover-spas-0840.html>

Coombs A (Sept. 12, 2008) Episode 40: Agriculture. *Chemical Heritage Foundation Distillations* (<http://distillations.chemheritage.org/?cat=5>)

Coombs A (July 11, 2008) Recycling to reduce pesticide use. *Living on Earth* (distributed by National Public Radio). <http://www.loe.org/shows/shows.htm?programID=08-P13-00028>

Coombs A (Mar. 28, 2008) Biodiesel leftovers heat up race for alternatives. *San Francisco Business Times*. pp. 32-33.

Robinson B (aired Feb. 11, 2008) Interviewed for report on collaborative work on anaerobic digesters with City of Santa Rosa. *KCRB Radio*. Cotati.

Coombs A (Nov. 24, 2007) Methyl bromide still finds its way into U.S. fields. *San Francisco Chronicle*. <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2007/11/24/HO5BTBGR0.DTL>

Rivers E (Sept. 25, 2007) Wastewater algae treatment experiment. *KFTY TV50*. Santa Rosa.

de Persiis Vona G (Sept. 12, 2007) Algae Action: Prof teams up with Santa Rosa to scrub our water clean with . . . green. *North Bay Bohemian*. Santa Rosa. p. 12.

<http://www.bohemian.com/bohemian/09.12.07/green-zone-0737.html>

Barnes M (Sept. 5, 2007) Going low-tech for big solutions. *The Sonoma State Star*, p. 10.

<http://media.www.sonomastatestar.com/media/storage/paper846/news/2007/09/05/News/Going.LowTech.For.Big.Solutions-2951769.shtml>

Schaub J (Sept. 4, 2007) North bay researchers hope to turn algae into fuel. *CBS 5 News, KPIX TV*. San Francisco.

<http://cbs5.com/video/?id=26431@kpix.dayport.com>

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\* SSU Undergraduate student.

McCoy M (Sept. 3, 2007) SR wastewater may become biofuel: City considers using algae growing in sewage treatment tanks to generate energy. *The Press Democrat*, p. B1.  
<http://www1.pressdemocrat.com/apps/pbcs.dll/article?AID=/20070903/NEWS/709030306/1033/NEWS01>

Staff (Aug. 16, 2007) Algae to the rescue! *West County Gazette*, 4(8): p. 13.  
[http://www.westcountygazette.com/editions/wcg200708\\_013.pdf](http://www.westcountygazette.com/editions/wcg200708_013.pdf)

Robinson B (aired Aug. 15, 2007) Interviewed for report on the experimental wastewater scrubbers at the City of Santa Rosa Laguna Treatment Plant. *KCRB Radio*. Cotati.

Sanders S (Aug. 2007) California Cities Tackle Climate Change. *Western City Magazine*.  
<http://www.westerncity.com/Western-City/August-2007/California-Cities-Tackle-Climate-Change/>

Bright G (aired Jan. 2007) Interviewed for report on the state of biotechnology in Sonoma Co. *KSRO Radio*. Santa Rosa.

The Press Democrat Editorial Board (July 21, 2006) Sudden hope: Could a hungry amoeba help save local oak forests? *The Press Democrat*, p. B4.  
<http://www1.pressdemocrat.com/apps/pbcs.dll/article?AID=/20060721/NEWS/607210346/1043/OPINION01>

Norberg B (July 19, 2006) Amoeba may eat sudden oak death fungus. *The Press Democrat*, p. B1.  
<http://www1.pressdemocrat.com/apps/pbcs.dll/article?AID=/20060719/NEWS/607190330/1033/NEWS01>

Suszkiw J (Apr. 2006) Brassica's pest control role in apple orchards clarified. *Agricultural Research* 54(4):22. <http://www.ars.usda.gov/is/AR/archive/apr06/apple0406.htm>

#### Scientific Society Memberships:

Japan Society for the Promotion of Science USA Alumni Association

American Society for Microbiology

International Phycological Society

International Society for Mangrove Ecosystems

#### Grant Review:

Reviewer for the Netherlands Organisation for Scientific Research and the Dutch Ministry of Economic Affairs STW Open Technologies Programme, October 2009.

Reviewer for the United States – Israel Bionational Agricultural Research and Development Fund, Food Product-Safety, Security, Quality Panel, Feb. 2, 2009.

Reviewer for the CSUPERB 2008 Faculty-Student Collaborative Research Grant Program Seed Proposal Review Panel. Nov. 22, 2008.

#### Editing:

Kamamizu-Katoh S (2004, 2007) "English Conversation at the Lab for Bioresearch", English Language Ed., **Cohen MF**, Yodosha Co. Ltd., Tokyo.

Itokazu D, Wilcox B, **Cohen MF**, Wilcox C, Ashimine K, Eds. (2001) Okinawa International Conference on Longevity, Book of Abstracts, J Okinawa Chubu Hospital, vol. S27, 34 pages.

## **Invited Speaker**

“Integrating Vineyard Pathogen Control with Sustainable Nutrient and Energy Management,” 44<sup>th</sup> Annual Meeting of the Association of Applied IPM Ecologists. Napa, CA. February 2, 2010.

“The Chemistry of Biofumigation & Brassicaceae Seed Meals,” AAIE Nematode Seminar. Napa, CA. December 18, 2009

“Integrating Invasive Weed and Nutrient Management with Bioenergy Production,” State of the Laguna Conference and Science Symposium. Rohnert Park, CA. October 14, 2009.

“Biodigesters and Scrubbers,” Sonoma State University Biology Department Colloquium, Darwin 103, February 10, 2009.

“Closing the Nutrient Loop,” Sebastopol Science Buzz Café #67, Tarsier Community Room, 1003 N. Gravenstein Hwy. December 18, 2008.

“Biofumigation and Suppressive Soil Basics,” California Association of Pest Control Advisers (CAPCA) Fall Continuing Education Meeting, Rohnert Park CA, November 13, 2008.

“Promotion of systemic disease resistance by resident *Streptomyces*,” 54<sup>th</sup> Annual Soil Fungus Conference, Hansen Agricultural Center, Santa Paula, CA, March 27, 2008.

“Biological suppression of diseases: From roots to leaves,” Department of Biology Colloquium, California State University, Chico, December 7, 2007.

“Integrated algae-based wastewater scrubbing and biofuel production,” Presented to the City of Santa Rosa Board of Public Utilities, Santa Rosa, CA, August 16, 2007.

“Effluent polishing by algae and aquatic plants,” Presented at a meeting of the City of Santa Rosa Utilities Department, Santa Rosa, CA, June 19, 2007.

“*Phytophthora ramorum*-consuming amoebas from Annadel State Park,” Workshop on forest management in western Sonoma County: Sudden Oak Death (*Phytophthora ramorum*) and other issues for small landowners, Guerneville, CA, July 20, 2006.

“Remediating contaminated environments with the water fern *Azolla*,” Sonoma State University Biology Department Colloquium, Stevenson 1002, September 29, 2005.

“Suppression of root rot diseases by *Brassica* spp. seed meal amendments,” University of the Ryukyus, Center of Molecular Biosciences, 21<sup>st</sup> Century Center of Excellence, Third Invited Seminar, Dec. 14, 2004.

## **Posters Presented at Recent Meetings**

Mazzola M, Zhao X, **Cohen MF**. Resident biology restricts *Macrophomina phaseolina* in Brassicaceous seed meal amended soil. 2009. Annual International Research Conference On Methyl Bromide Alternatives and Emission Reduction. San Diego, CA (Nov. 10-13).

Hare C, Kozlowski J, Schneider L<sup>\*</sup>, McCormick R, Chen L, Nelson T, Tredinnick D, **Cohen MF**. 2009. An integrated system for wastewater scrubbing and bioenergy production. State of the Laguna Conference and Science Symposium. Rohnert Park, CA (Oct. 14-16).

Hare C, Kozlowski J, Schneider L<sup>\*</sup>, McCormick R, Chen L, Nelson T, Tredinnick D, **Cohen MF**. 2009. An integrated system for wastewater scrubbing and bioenergy production. Sixth Annual California Climate Change Symposium. Sacramento, CA (Sept. 8-10).

Maltz M<sup>†</sup>, Patocchi C<sup>\*</sup>, **Cohen MF**. 2009. A polykingdom approach to bioremediation. Botany & Mycology 2009, Snowbird, UT (Jul. 25-29).

Kozlowski JJ<sup>†</sup>, **Cohen MF**. 2008. Optimization of methane productivity and rate of production by microbe complexes in dairy manure solids. Twentieth CSU Biotechnology Symposium, Oakland, CA (Jan. 11-13).

Yamamoto E<sup>†</sup>, Mazzola M, **Cohen MF**. 2007. A mycophagous amoeba-flagellate isolated from a *Phytophthora ramorum*-infected lesion of California bay laurel. XIIth International Meeting on the Biology and Pathogenicity of Free-living Amoebae. Wako, Japan, Aug. 27-30.

Yamamoto E<sup>†</sup>, Mazzola M, **Cohen MF**. 2007. Characterization of a mycophagous amoeba-flagellate isolated from a *Phytophthora ramorum*-infected lesion of California bay laurel. Annual Meeting of the International Society of Protistologists. Providence, RI, Aug. 5-9.

Lauria CH<sup>\*</sup>, Robertson T<sup>\*</sup>, Kozlowski J<sup>\*</sup>, Britton W, **Cohen MF**. 2007. Polishing of municipal wastewater Effluent by an algal assemblage and production of fuel from harvested biomass Annual Meeting of the Phycological Society of America. Providence, RI, Aug. 5-9.

Mazzola M, Zhao X, **Cohen MF**, Raaijmakers JM (2007) Cyclic lipopeptide surfactant production by *Pseudomonas fluorescens* SS101 is not required for suppression of complex *Pythium* spp. populations. Annual Meeting of the American Phytopathological Society. San Diego (July 28 – Aug. 1). *Phytopathology*, 97:S72.

Lauria CH<sup>\*</sup>, Robertson T<sup>\*</sup>, Kozlowski J<sup>\*</sup>, Britton W, **Cohen MF** (2007) Nutrient removal from municipal wastewater effluent by an algal assemblage and production of fuel from harvested biomass. 17<sup>th</sup> Annual Meeting of the Northern California Regional Chapter of the Society of Environmental Toxicology and Chemistry. Berkeley, CA, May 9.

**Cohen MF**, Yamamoto E<sup>†</sup>, Rank N, Mazzola M. 2007. Microbial- and isothiocyanate-mediated control of *Phytophthora* and *Pythium* species. Sudden Oak Death Symposium. Santa Rosa, CA, Mar. 7.

Sherron V<sup>\*</sup>, Rank NE, **Cohen MF**, Anacker BL, Meentemeyer RK. 2007. Geographic variation in effects of temperature on phenotypic characteristics of *Phytophthora ramorum* isolates from eastern Sonoma County. Sudden Oak Death Symposium. Santa Rosa, CA, Mar. 7.

Lauria CH<sup>\*</sup>, **Cohen MF** (2007) Development of an algal-mat bioreactor for municipal wastewater treatment and biofuel production. RSCAP Symposium, Feb. 28.

Lauria CH<sup>\*</sup>, **Cohen MF** (2007) Development of an algal-mat bioreactor for municipal wastewater treatment and biofuel production. Nineteenth CSU Biotechnology Symposium, Los Angeles, CA (Jan. 12-14).

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<sup>†</sup> SSU Graduate Student

<sup>\*</sup> SSU Undergraduate student

**Cohen MF**, Condeso E, Anacker BL, Rank N, Mazzola M (2006) Biologically-based means for control of oomycete phytopathogens. The Sixth California Oak Symposium. Rohnert Park, CA, Oct. 9 –12.

Mazzola M, Hoagland L, Carpenter-Boggs L, Abi-Ghanem R, **Cohen MF** (2006) Contribution of resident soil microorganisms to brassicaceae seed meal-induced disease and weed suppression. Second International Biofumigation Symposium. University of Idaho, Moscow, June 25 – 29.

**Cohen MF**, McLaughlin K\*, Luther D\*, Ritz L\*, Mazzola M (2006) Glycerol-byproduct utilization by *Pseudomonas*: A strategy to bolster biodiesel and biological control. AgBiotech2006, Fish Camp, CA, March 17-19.

**Cohen MF**, Lauria C\*, Mazzola M (2006) Controlling oomycete phytopathogens with a surfactant-producing bacterium. Eighteenth CSU Biotechnology Symposium, San Jose, CA. Book of Abstracts, A35.

**Cohen MF**, Mazzola M (2005) Suppression of Rhizoctonia root rot by *Streptomyces* in *Brassica napus* seed meal-amended soil. Annual Meeting of the American Society of Plant Biologists, Seattle, WA. Book of Abstracts, A348.

**Cohen MF**, Brown J, Mazzola M (2005) Infectivity of *Pythium* toward apple seedlings in soil amended with low-glucosinolate *Brassica napus* seed meal. Annual Meeting of the American Phytopathological Society, Anaheim, CA. Phytopathology, 95:S20.

**Cohen MF**, Yamasaki Y, Mazzola M (2004) Suppression of Rhizoctonia root rot and increased recovery of NOS+ *Streptomyces* spp. in rapeseed meal amended soils. Annual Meeting of the American Phytopathological Society, Anaheim, CA. Phytopathology, 94:S20.

**Cohen MF**, Yamasaki H (2004) Mutual interactions between plant and plant-colonizing bacterium through NO production. The 3<sup>rd</sup> International Conference on the Biology, Chemistry, and Therapeutic Applications of Nitric Oxide. Nara, Japan. Nitric Oxide, 11:60-61.

**Cohen MF**, Yamamoto E, Arita N, Yamasaki Y, Mazzola M (2004) Stimulation of bacterial nitric oxide production and suppression of fungal root disease of apple following soil amendment with *Brassica napus* seed meal. Annual Meeting of the American Association for the Advancement of Science, Seattle, WA. Book of Abstracts, A105.

**Cohen MF**, Yamasaki H, Mazzola M (2003) Role of enhanced nitric oxide production by soil bacteria in suppression of the fungal plant pathogen *Rhizoctonia solani*. 10th Annual Meeting of the Society for Free Radical Biology & Medicine, Seattle, WA. Supplement to Free Radic Biol Med, 35:S177.

**Cohen MF**, Meziane T, Yamasaki H (2001) Symbiotic relevance of traits including sucrose-enhanced H<sub>2</sub>O<sub>2</sub> tolerance in a nitrifying bacterium isolated from the fern *Azolla*. Eighth International Congress on Endocytobiology and Symbiosis, Nagoya, Japan. Book of Abstracts, 150.