KATEEL G. SHETTY
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EDUCATION

Ph.D., Plant Pathology	Kansas State University, USA, 1994
M.S., Agricultural Microbiology	University of Agricultural Sciences, Bangalore, India, 1984
B.Sc., Agriculture	University of Agricultural Sciences, Bangalore, India, 1980

PROFESSIONAL EXPERIENCE

2000 – Present: Assistant Research Professor - Earth and Environmental Department, Florida International University, Miami, Florida:

1997 – 2000: Postgraduate Researcher - Department of Plant Pathology, (University of California, Davis) and USDA-ARS, Salinas:
1994 – 1997: Post–Doctoral Research Associate, Department of Plant Pathology, Kansas State University, Manhattan, Kansas:
1991 – 1994: Graduate Research Assistant, Department of Plant Pathology, Kansas State University, Manhattan, Kansas:
1983 – 1991: Research Associate, ICRISAT (International Crops Research Institute for the Semi – Arid Tropics), India:
1980 – 1983: Research Scholar, Department of Agricultural Microbiology, University of Agricultural Sciences, Bangalore, India:

TEACHING EXPERIENCE

Sustainable Agriculture (Spring 2011- Spring 2016), Soil Microbiology (Fall 2016), Integrated Pest Management (Fall 2016), Agroecology (Fall 2012), Sustainable Bioenergy (Fall 2012), Food Security and food safety (Fall 2013), Introduction to Environmental Science and sustainability (2012 - 2016), Energy Resources (Spring 2015 – Spring 2016), Colloquium - Root and tuber crops management (Fall 2013), Food Safety (Fall 2014), Independent Studies.

RESEARCH INTERESTS AND EXPERTISE:

• Biological control of weeds and invasive plant species.
• Management of plant pathogens using biofumigants and using biocontrol agents.
• Biological control of insect pests.
• Bioenergy – plant based and algae based biofuel, microbial hydrogen production
• Isolation and characterization of endophytes in plants.
• Emerging plant pathogens and their origin.
• Crop plant - arbuscular-mycorrhizal (AM) fungi interactions.
• Crop plant – rhizobium interactions.
• Impact of nanomaterials and chemicals on plants and on beneficial soil microorganisms.
• Marine and freshwater toxins and microbial degradation
• Pathogens tracking and remediation measures.
• Bioremediation (plant - microbe based system) of heavy metal /organic contaminants.
• Restoration ecology.
• Nutrient cycling and soil quality in wetland and upland systems.

• Microbial diversity and activity in surface and subsurface soils.

RESEARCH GRANTS (As Co-PI)

1. Innovative Curriculum for Agriculture Training and Career for Hispanics
Sept 2016 – Aug 2020, $2,049,601 USDA-NIFA-HSI.

2. Broadening Agriculture Science Education (BASE) for Hispanic Students through Florida – Texas – New Mexico Consortium, Aug 2015 – July 2019, $1,000,000, USDA-NIFA-HSI.

3. Florida-Caribbean Consortium for Agriculture Education and Hispanic Workforce Development, August 2011 – July 2015, $3,200,000, USDA-NIFA-HSI.

4. Infusing Food Security, Food Safety, Energy in the Environmental Studies Graduate Program at Florida International University, Jan 2013 – Jan 2018, $246,000, USDA-NNF.

5. Interdisciplinary Training for Multicultural Undergraduate Scholars in Agroecology and Sustainable Sciences at Florida International University, Jan 2014 – Jan 2019, $200,000, USDA. Co-PI

6**.** Biofuel Science Education for Under-Represented Students at Florida International University, August 01, 2010 – July 31, 2015. USDA-NIFA-HSI. $290,000.00.

7**.** Development and evaluation of native microbial biological control agents for managing old world climbing fern in the South Florida natural areas (05/01/2009 - 10/31/2009 $100,000)

8**.** Brazilian Pepper Suppression in the Soil Disposal Mounds in the Hole-in-the-Donut Pilot Restoration Program, Discovery and development of potential microbial bio-control agents for Brazilian pepper suppression in the Everglades National Park. Everglades National Park, Department of Interior. (2002 – 2008) $485,000.00.

9**.** Microbial biodegradation of brevetoxins -Isolation and screening of marine bacteria (NIH-FIU-ARCH-PILOT 09/01/06-08/31/09 $187,500)

10**.** Rotations with broccoli – A sustainable alternative to soil chemical fumigants. USDA-CSRS Sustainable Agriculture Research and Education Program. $142,000. (1999)

11**.** Rotations with broccoli for soilborne disease management in conventional and organic strawberry production systems. Pest Management Grants – Applied research projects, California Department of Pesticide Regulation. $30,000. (1999)

EDUCATIONAL GRANTS

Integrating advanced instructional technology into field and laboratory studies in agroecology. (FIU Tech Fee Instructional Proposal Grant. $59,695. (2015).

RESEARCH MENTORING

Undergraduate students: Jose Pacheco (2007); Nina De La Rosa (2011), Eric Betancourt (2011), Manuel Mendez (2012), Luke Thema- Biodiesel (2012-13), Melanie Vasquez- Vermicompost (2013),

Adis Alvarez- Biogas (2013), Stephanie Perez- Nanomaterials on plant mycorrhizal symbiosis (2012-13), Nikki Onuoha- Nanomaterials on plant growth (2012-13), William Scully – (2014 -) – Biomethane, Randy Juste and Sarah Acada (2013-) – Biodiesel.

M.S. students: David Berthold (2014-16), Nina De La Rosa (2012-14), Herma Pierrie (2012 – 2015), Daria Boglaienko (2012-13), Eric Betancourt (2012-2015), Yujie Hua (2013 – 14), Anusha Ramani (2011).

SYNERGISTIC ACTIVITIES: Co-Project director - "The Education Effect: Aquaponics and Vegetable Garden Sub-Component" at Miami Northwestern Senior High (serving minority student population) - a Florida International University-community partnership to support educational achievement in Liberty City - responsible for integration of the garden project into the curriculum. Mentor summer science research projects by high school students. Mentor undergraduate students in USDA Multicultural scholars program. Served as judge - Science fair competition middle and high school, and at regional, state and national level Science Olympiad. Participated as a judge for Environmental science and for the special event Agroecology and Biofuel in the 2016, 2015, 2014 and 2013 Miami-Dade STEM EXPO - South Florida Regional Science and Engineering Fair competitions for Middle and High School students held at Miami Dade College, North Campus. Participated as a judge for Future Farmers of America chapter events in local middle and high schools (2014 and 2015).

PUBLICATIONS

Berthold, D., Nina De la Rosa, Jayachandran, K., Gantar, M., **Shetty, K.G.** (2016). Omega-7 Producing Alkaliphilic Diatom *Fistulifera* sp. 154-3 from Lake Okeechobee, Florida. (*Manuscript in preparation*).

Shetty, K. G., D.V., Rivadeneira, K., Jayachandran, and D.M. Walker. 2016. Isolation and molecular characterization of fungal endophytes from conventionally and organically grown avocado trees in South Florida. Mycological Progress15:977–986.

Beglaienko, D., P. Soti, **K.G. Shetty**, and K. Jayachandran. 2014. Buckwheat as a Cover Crop in Florida: Mycorrhizal Status and Soil Analysis. Journal of Agroecology and Sustainable Food Systems. 38:1033-1046

Ramani, A., **Shetty, K. G**., Rein, K., Cai., Y., K. Jayachandran. 2011. Microbial Degradation of Microcystin in Florida's Freshwaters. Biodegradation. 23: 35-45.

Shetty, K.G., D. Minnis, A.Y. Rossman and K. Jayachandran. 2010. The Brazilian peppertree seed-borne pathogen, *Neofusicoccum batangarum*, a potential biocontrol agent. Biological Control. 56: 91-97.

Shetty, K.G., J.V. Huntzicker, K.S. Rein, and K. Jayachandran. 2010. Biodegradation of polyether algal toxin – Isolation of potential marine bacteria. Journal of Environmental Science and Health A, 45: 1850-1857.

Shetty, K. G., Krish Jayachandran, Katherine Quinones, Kevin E. O'Shea, Teresita A. Bollar and Michael R. Norland. 2007. Allelopathic Effects of Ragweed Compound Thiarubrine-A on Brazilian Pepper. Allelopathy Journal**,** 20: 371-378.

Robert T. Griffith, Krishnaswamy Jayachandran**, K. G. Shetty**, William Whitstine and Kenneth G. Furton. 2007 Differentiation of Toxic Molds via Headspace SPME-GC/MS and Canine Detection. Sensors, 7:1496-1508.

Clarke, T., **K.G. Shetty**, Jayachandran, K., and M.R. Norland. 2006. *Myrothecium verrucaria* - a potential biological control agent for the invasive "old world" climbing fern, *Lygodium microphylum*. Biocontrol, 52:399-411

Jayachandran, K. and **K.G. Shetty.** 2003. Growth response and phosphorus uptake by arbuscular mycorrhizae of wet prairie sawgrass. Aquatic Botany 76(4): 281-290.

Bull**,** C.T. **K.G. Shetty,** and K.V. Subbarao. 2002. Interactions between myxobacteria, plant pathogenic fungi, and biocontrol agents. Plant Disease 86 (8): 889 – 896.

Shetty, K.G., O.C. Huisman, K.V. Subbarao, and J.C. Hubbard. 2000. Mechanism of broccoli-mediated Verticillium wilt Reduction. Phytopathology. 90: 305 –310.

K.G. Shetty, K. V. Subbarao, and F. N. Martin. Management of Verticillium wilt in strawberry using vegetable crop rotation. Phytopathology 89:S72

K.G. Shetty and K. V. Subbarao. Melanolytic activity of microorganisms and antagonism to Verticillium dahliae . Phytopathology 89:S72.

K.G. Shetty, K. V. Subbarao, and C. T. Bull. Effects of myxobacteria on plant pathogenic fungi and biocontrol agents. Phytopathology 90:S72.

Shetty, K.G., B.A.D. Hetrick and A.P. Schwab. 1995. Effects of mycorrhizae and fertilizer amendments on plant zinc tolerance. Environmental Pollution. 88: 307-314.

Shetty, K.G., B.A.D. Hetrick , D.A.H. Figge and A.P. Schwab. 1994. Effects of mycorrhizae and other soil microbes on revegetation of heavy metal contaminated mine spoil. Environmental Pollution 86: 181 – 188.

Shetty, K.G., M.K. Banks, B.A.D. Hetrick and A. P. Schwab. 1995. Biological characterization of a Southeast Kansas mining site. Water, Air and Soil Pollution. 78: 169 – 177.

Thakur, R.P. and **K.G. Shetty**. 1993. Variations in pathogenicity among single oospore isolates of *Sclerospora graminicola*, the causal organism of downy mildew in pearl millet. Plant Pathology (UK) 42: 715-721.

Thakur, R.P., **K.G. Shetty** and S.B. King. 1992. Selection for host-specific virulence in asexual Populations of *Sclerospora graminicola*. Plant Pathology (UK) 41: 626-632.

Krishna, K.R., **K.G. Shetty**, P. J. Dart and D.J. Andrews. 1985. Genotype dependent variation in Mycorrhizal colonization and response to inoculation of pearl millet. Plant and Soil 86: 113 – 125.

Book chapters

Shetty, K.G. and K. Jayachandran. 2015. Potential for Biological Control of Invasive Plants in the Everglades Ecosystem using Native Microorganisms. In *Microbiology of the Everglades ecosystem*. J. A. Entry, A. D. Gottlieb, K. Jayachandran and A. Ogram (Editors). *pp* 413-430. CRC Press.

Jayachandran, K. and **Shetty, K.G**. 2015. Algal toxin degradation by indigenous bacterial communities in the Everglades region. . In *Microbiology of the Everglades ecosystem*. J. A. Entry, A. D. Gottlieb, K. Jayachandran and A. Ogram (Editors). *pp* 431-443. CRC Press.

Invited Lectures

Shetty, K.G. Bioremediation through rhizosphere technology. International Advanced Course and Minisymposium on Bio- and Ecotechnological Methods in Restoration. December 15 –18, 1996, Kuopio, **Finland**.

Shetty, K.G. Mechanisms of metal-tolerance in mycorrhizal fungi. International Advanced Course and Minisymposium on Bio- and Ecotechnological Methods in Restoration. December 15 – 18, 1996, Kuopio, **Finland**.

Government Reports and Monographs:
(Includes grants and research reports)

Jayachandran, K. and **K.G. Shetty**. 2010. Final Report to South Florida Water Management District on "Discovery, Development and Evaluation of Native Microbial Biological Control Agents for Managing Invasive Old World Climbing Fern (*Lygodium microphyllum*) in the South Florida Natural Areas" – 150 pages

Jayachandran, K., and **K.G Shetty**. 2009. Final report for NIEH-ARCH program "Discovery of marine bacteria to degrade marine toxin" – 10 pages

Jayachandran, K., and **K.G. Shetty**. 2009. Final Report to Everglades National Park on "Discovery of Biocontrol Agent in the Hole-in-the Donut Pilot Restoration Program" – 120 pages.

Jayachandran, K., and **K.G. Shetty**. 2009. Final Report to South Florida Water Management District on "Discovery, Development and Evaluation of Native Microbial Biological Control Agents for Managing Invasive Old World Climbing Fern (*Lygodium microphyllum*) in the South Florida Natural Areas" – 140 pages

Jayachandran, K., and **K.G. Shetty**. 2008. Progress report for NIEH- ARCH program to renew "Discovery of marine bacteria to degrade marine toxin" 2008 – 10 pages

Jayachandran, K., and **K.G. Shetty**. 2006. Discovery and Development of Potential Microbial Bio-Control Agents for Brazilian Pepper Suppression in the Everglades National Park. Annual Report. 35 Pages

Jayachandran, K., and **K.G. Shetty**. 2005. Discovery and Development of Potential Microbial Bio-Control Agents for Brazilian Pepper Suppression in the Everglades National Park. Annual Report. 42 pages

Jayachandran, K., and **K.G. Shetty**. 2003. Discovery and Development of Potential Microbial Bio-Control Agents for Brazilian Pepper Suppression in the Everglades National Park. Annual Report. 18 pages.

Stanley B. King, **K.G. Shetty** and S.D. Singh. International Pearl Millet Downy Mildew Nursery (1988)

Stanley B. King**, K.G. Shetty** and S.D. Singh. Pearl Millet Disease Monitoring Nursery, AICPMIP (1988)

Stanley B. King, **K.G. Shetty**, S.S. Navi and S.D. Singh. International Pearl Millet Rust Nursery (1988)

Conference Presentations:

Berthold, D.E., **K. G. Shetty**, K. Jayachandran, and M. Gantar. 2015. Using Mixed Cultures of Microalgae and Yeast for High Biomass and Lipid Production. American Society for Microbiology Annual Conference, New Orleans, LA. May 30 - June 2, 2015.

Nina De La Rosa, Krish Jayachandran, and **Kateel G. Shetty**. Isolation and characterization of alkaline-tolerant freshwater microalgae from Lake Okeechobee for algae-based biofuel production. American Society for Microbiology Annual Conference, Boston, Massachusetts, May 17-20, 2014.

Mahadev Bhat, Krish Jayachandran, Stephany Alvarez-Ventura, Dora Pilar Maul, Angela Gonzalez, Loretta Adoghe, Suzanne Koptur, **Kateel G. Shetty**, Hong Liu, Mr. Vladimir Diaz, and Stewart Reed. 2014. Florida-Caribbean Consortium for Agricultural Science Education (FCCAgE) and Hispanic Workforce Development - FIU. Agri-Science Education for the 21st Century: Diversity-Access-Success. Coconut Grove, FL. November 19-22, 2014

Biofuels and its promise for the future. Sarah Acado, Randy Juste, Krish Jayachandran and **Kateel G. Shetty**. The Agroecology Movement in Addressing Food Security 2014 Agroecology Symposium, FIU, Miami, FL.

Experiential and Experimental Learning Approaches for Undergraduate Education in Agroecology. Krishnaswamy Jayachandran, Mahadev Bhat, Stephany Alvarez, and **Kateel G. Shetty**. 2014. ASA, CSSA, SSSA International Annual Conference, Nov 2-5, Long Beach, CA.

Kateel G. Shetty, Krish Jayachandran, and Mahadev Bhat. 2013. Models for Teaching Interdisciplinary Biofuels Science: A Multi-pronged Approach. 59th Annual North American Colleges and Teachers of Agriculture Conference. June 25-29, 2013, Blacksburg, VA.

Krish Jayachandran, **Kateel G. Shetty**, Tainya C. Clarke, Shili Miao, LeRoy Rodgers, and Robert Johnson. 2010. Potential for use of native phytopathogens as biocontrol agents for invasive plant species. Greater Everglades Ecosystem Restoration, The Greater Everglades: A Living Laboratory Change – Planning, Policy, and Science Meeting, July 12-16, 2010, Naples, FL

Krish Jayachandran, **Kateel G. Shetty**, LeRoy Rodgers, Shili Miao, and Robert Johnson. 2010. Potential for use of native phytopathogens as biocontrol agents for Old World Climbing fern (Lygodium microphyllum). Florida Exotic Pest Plant Council Symposium, April 5-8, 2010, Crystal River, FL

Krish Jayachandran, **Kateel G. Shetty**, and Lynne Feiber. 2009. Microbial Biodegradation of Brevetoxins – Isolation and Screening of Potential Marine Bacteria. March 9-10, 2009, ARCH Meeting, Florida International University

Krish Jayachandran and Kateel G. Shetty. 2009. Native phytopathogens as biocontrol agents: Problems and potentials in the management of invasive exotic species. Weed Science Society of America National Conference February 9 – 13, 2009 Orlando, FL

Krish Jayachandran, **Kateel G. Shetty**, and Lynne Feiber. 2008. Microbial Biodegradation of Brevetoxins – Isolation and Screening of Potential Marine Bacteria. March 3-4, 2008, ARCH Meeting, Florida International University

Krish Jayachandran, Tainya C. Clarke, and **Kateel G. Shetty**. 2008. A Potential Biological Control Agent for Invasive Plant Species, Old World Climbing Fern (*Lygodium microphyllum*). 23rd Annual Symposium, Florida Exotic Pest Council, April 21- 24, 2008, Jacksonville, FL. Invited Speaker

Jayachandran, Krish., **Kateel G. Shetty**, Michael R. Norland and Craig S. Smith. 2006. Development of microbial biocontrol agent for Brazilian Pepper Management. Plant Biologists of South Florida Annual Meeting. April 1, 2006, Fairchild Tropical Garden Research Center, Miami, FL

Kateel G. Shetty, Krish Jayachandran, and Michael R. Norland. 2005. Development of techniques for assessing biocontrol potential of indigenous pathogens on invasive Brazilian Pepper (Schinus terebinthifolius Raddi) in the Everglades National Park. Soil Science Society of America Annual Meeting, Nov. 6-10, 2005, Salt Lake City, UT

Krish Jayachandran, Michael R. Norland, **Kateel G. Shetty**, Tainya C. Clarke, and Robert T. McMullen. 2004. Development of Strategies to Manage Biological Invasion by Exotic Plant Species in Everglades National Park. National Conference on Ecosystem Restoration, Dec. 05-10, 2004, Orlando, FL

Jayachandran, K., **K.G. Shetty**, L.J. Scinto, R.D. Jones, D.L. Childers, and J.C. Trexler. 2001. Effect of low level phosphorus dosing on microbial activity in the everglades soils. Soil Science Society of America Annual Meetings, Oct. 21-25, 2001, Charlotte, NC

K.G. Shetty, Jayachandran, K., L.J. Scinto, L.J. Stockman, and R.D. Jones. 2002. Determination of microbial phosphorus in the Everglades flocculent detritus. American Soil Science Society Annual Meeting, Nov. 8 to 12, Las Vegas, Nevada.

Jayachandran, K., L.J. Scinto, **K.G. Shetty**, R.D. Jones, D.L. Childers, and J.C. Trexler. 2001. Changes in microbial phosphorus in response to phosphorus addition in the Everglades peat soils. American Soil Science Society Annual Meeting, Nov. 8 to 12, Las Vegas, Nevada

Shetty, K.G., Subbarao, K.V., Martin, F.N. and Koike, S.T. Management of verticillium wilt in

strawberry using vegetable crop rotation. 1999 Annual Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA (USA), 1-4 Nov 1999.

K.G. Shetty, J. C. Hubbard, K. V. Subbarao, and O. C. Huisman. Mechanism of Broccoli-Mediated Verticillium Wilt Reduction. 1998 American Phytopathological Society Annual Meeting, Nov. 8 to 12, Las Vegas, Nevada.

K.G. Shetty, K. V. Subbarao, and F. N. Martin. Management of Verticillium wilt in strawberry using vegetable crop rotation. 1999 American Phytopathological Society/Canadian Phytopathology Society joint Annual Meeting, Aug 7 to 11, Montreal, Quebec, Canada.

K.G. Shetty and K. V. Subbarao. Melanolytic activity of microorganisms and antagonism to Verticillium dahliae. 1999 American Phytopathological Society/Canadian Phytopathology Society joint Annual Meeting, Aug 7 to 11, Montreal, Quebec, Canada.

K.G. Shetty, K. V. Subbarao, and C. T. Bull. Effects of myxobacteria on plant pathogenic fungi and biocontrol agents. 2000 American Phytopathological Society Annual Meeting, Aug 12 to 16, New Orleans, Louisiana.

Shetty, K. G., B. A. D. Hetrick and A. P. Schwab. Effects of mycorrhizae and fertilizer amendments on plant zinc tolerance. Poster presented at 9th North American Conference on Mycorrhizae, Guelph, Ontario, Canada, 1993.

Shetty, K. G., I. Abdelsaheb, B. A. D. Hetrick, A. P. Schwab, and M. K. Banks. Biological and chemical characterization of mine tailings in Southeast Kansas. Poster presented at the EPA Bioremediation Conference, Gull Lake, MI, 1991.

Shetty, K. G., B. A. D. Hetrick, and A. P. Schwab. 1995. Effects of mycorrhizae and fertilizer amendments on plant zinc tolerance. 9th North American Conference on Mycorrhizae, Guelph, Ontario, Canada, 1993.

Shetty, K. G., I. Abdelsaheb, B. A. D. Hetrick, A. P. Schwab and M. K. Banks, Biological and chemical characterization of Mine tailings in Southeast Kansas. EPA Bioremediation Conference, Gull Lake, MI, 1991.

Shetty, K. G., I. Abdelsaheb, B. A. D. Hetrick, A. P. Schwab and M. K. Banks, Biological and chemical characterization of Mine tailings in Southeast Kansas. Hazardous Waste Research, Manhattan, KS, 1991.

V.P. Rao, **K.G. Shetty**, and R.P. Thakur. 1994. Evaluation for sexual compatibility among field isolates of Sclerospora graminicola. Annual Conference of Indian Phytopathological Society. January 27 – 29, Coimbatore, India.

Krishna, K. R., Dart, P.J., Papavinasasundaram, K.G., and **Shetty, K.G**. Growth and phosphorus uptake response of sorghum to mycorrhizal inoculation. Proceedings of the 6th North American Conference on Mycorrhizae : June 25-29, 1984, Bend, Oregon / compiled and edited by Randy Molina ; sponsoring institutions, Oregon State University, College of Forestry, and USDA. p. 404.

Krishna, K.R., **Shetty, K.G**., Dart, P.J., and Andrews, D. J. Growth and phosphorus uptake responses to mycorrhizal inoculation is plant genotype dependent. Proceedings of the 6th North American Conference on Mycorrhizae : June 25-29, 1984, Bend, Oregon / compiled and edited by Randy Molina ; sponsoring institutions, Oregon State University, College of Forestry, and USDA. p. 403.

Krishna, K.R., **Shetty, K.G**., Dart, P.J., and Andrews, D. J. Plant genotype dependent differences in mycorrhizal colonization rates. Proceedings of the 6th North American Conference on Mycorrhizae : June 25-29, 1984, Bend, Oregon / compiled and edited by Randy Molina ; sponsoring institutions, Oregon State University, College of Forestry, and USDA. p. 402.

Upadhyaya, M. N., **K. G. Shetty**, S. V. Hegde, P. V. Rai, and S. P. Wani. Root associated nitrogen fixation in finger millet and rice. Working Group Meeting on Cereal Nitrogen Fixation, October 9 –12, 1984, ICRISAT, Patancheru, India

Accepted abstracts for conference poster presentations:

Nina De La Rosa, Krish Jayachandran, and **Kateel G. Shetty**. 2014. Isolation and Characterization of Alkaline-tolerant Freshwater Microalgae From Lake Okeechobee For Algae-based Biofuel Production. American Society for Microbiology Annual Conference May 17 - 20, 2014, Boston, Massachusetts, May 17-20, 2014.

Anusha. Ramani, Krish Jayachandran, Kathleen Rein, and **Kateel Shetty**. 2009. Microbial Degradation of Microcystin in Florida Fresh Waters. American Society for Microbiology Annual Conference, May 17 - 21, 2009, Philadelphia, PA

Kateel G. Shetty, K.S. Rein, L. E. Fleming, and K. Jayachandran. 2009. Isolation of Brevetoxin Biodegrading Marine Bacteria. American Society for Microbiology Annual Conference, May 17 - 21, 2009, Philadelphia, PA

Binod Pandey, **Kateel G. Shetty**, Shili Miao, and Krish Jayachandran. 2009. Survey of naturally occurring diseases of Lygodium microphyllum in South Florida natural areas: Prevalence and potential for biocontrol agents. Weed Science Society of America National Conference February 9 – 13, 2009 Orlando, FL

Krish Jayachandran, **Kateel G. Shetty**, Tainya C. Clarke, Craig S. Smith, Shili Miao, and LeRoy Rodgers. 2008. Development of potential biological control agents for invasive plant species using native pathogens in South Florida. Greater Everglades Ecosystem Restoration, For Everglades Restoration 2050: Advancing the Science to Achieve Success – Planning, Policy, and Science Meeting, July 28 – August 1, 2008, Naples, FL

Kateel G. Shetty, J. V. Huntzicker, K.S. Rein, L. E. Fleming, Y. Cai, L. Fieber, and K. Jayachandran. 2008. Isolation of Potential Polyether Algal Toxin Biodegrading Marine Bacteria using Salinomycin. American Society for Microbiology Annual Conference, May 17 - 21, 2008, Boston, MA

Kateel G. Shetty, Krish Jayachandran, Jose A. Pacheco-Soto, and Craig S. Smith. 2008. Potential for

use of Natural Plant Pathogens of Brazilian Pepper (Schinus terebinthifolius Raddi) in the Everglades National Park.23 Annuall Symposium, Florida Exotic Pest Council, April 21- 24, 2008, Jacksonville, FL

Min Gao, **Kateel G. Shetty**, Bernd Simoneit, Krishnaswamy Jayachandran, and Rudolf Jaffé 2007. Preliminary Results on the Occurrence, Origin and Environmental Implication of Ent-Kaurenes in the Everglades Freshwater Wetlands. FCELTER All Scientists Meeting, March 19-20, Fairchild Tropical Garden, Miami, FL

Jose Pacheco, **Kateel G. Shetty**, Krish Jayachandran, and Craig Smith. 2007. Biological Control of Invasive Plants in South Florida. Cell and Molecular Biology Symposium, St. Thomas University

Jose Pacheco, **Kateel G. Shetty**, Mahadev Bhat, and Krish Jayachandran. 2007. Biological Control of Brazilian Pepper. Hispanic Students Leadership Conference, Washington, DC.

Jackie V. Huntzicker, **K.G. Shetty**, K.S. Rein, and K. Jayachandran. 2006. Biodegradation of Polyether Algal Toxins – Isolation of Potential Marine Bacteria. 106th American Society for Microbiology Annual Conference, May 21-25, 2006, Orlando, FL

Griffith, Robert T., Jayachandran, Krishnaswamy, **Shetty, Kateel**, **G**., Whitstine, William, Furton, Kenneth G. 2005. Hazardous Indoor Molds Detection Application in Forensic Sciences. 105th American Society for Microbiology Annual Conference, June 5-9, 2005, Atlanta, GA

Teresita Bollar, Biology 4th year student. 2005. Allelopathic effects of Ragweed compound Thiarubrin-A on Brazilian pepper (Shinus terebinthifolius). Poster presented at First Student Research and Artistic Initiatives Annual Conference, March 10, MARC Building, FIU. Mentors: Krish Jayachandran, **Dr. Shetty** and Dr. Kevin O' Shea.

Jackie Huntizicker, Liberal Studies, 3rd year. 2005. Studies on Okadaic Acid Biotranformation/Biodegradation – Isolation and Screening of Potential Marine Bacteria. Poster presented at First Student Research and Artistic Initiatives Annual Conference, March 10, MARC Building, FIU. Mentors: Krish Jayachandran, **Dr. Shetty** and Dr. Kelly Rein.

Kateel G. Shetty, Krish Jayachandran, and Michael R. Norland. 2004. Natural Plant Pathogens of Brazilian Pepper (Schinus terebinthifolius Raddi) in the Everglades National Park: Potential for Biological Control. Soil Science Society of America Annual Meeting, Oct. 31-Nov. 4, 2004, Seattle, WA

Tainya C. Clarke, Krish Jayachandran, **Kateel G. Shetty**, and Michael R. Norland. 2004. A Biological Control Agent for Invasive Plant Species, Old World Climbing Fern (Lygodium microphyllum). National Conference on Ecosystem Restoration, Dec. 05-10, 2004, Orlando, FL

Kateel G. Shetty, Krish Jayachandran, and Michael R. Norland. 2004. Natural Plant Pathogens of Brazilian Pepper (Schinus terebinthifolius Raddi) in the Everglades National Park: Potential for Biological Control. National Conference on Ecosystem Restoration, Dec. 05-10, 2004, Orlando, FL

Shetty, K.G., K. Jayachandran, L.J. Scinto, R.D. Jones. 2001. Determination of microbial Biomass

Phosphorus in the Everglades Wetland Flocculent Detritus. Soil Science Society of America Annual Meetings, Oct. 21-25, 2001, Charlotte, NC

Jayachandran, K., L. Scinto, **K.G. Shetty**, R.D. Jones, D. Childers, and J. Trexler. 2000. Changes in microbial phosphorus in response to phosphorus addition in the everglades peat soils. Soil Science Society of America Meetings, Nov. 5-9, Minneapolis, MN