**LEE HWANG LEE**

19 Revere Blvd. Edison, NJ 08820

(732) 382-2717

**EDUCATION**

Ph.D., Biology, The City University of New York. Jan. 1980

M.S., Biology, Hunter College, CUNY. Feb. 1977

B.S., Plant Pathology and Entomology, National Taiwan University Jun. 1972

**POSITIONS HELD**

9/94 – present Professor, Montclair State University, NJ

9/89 – 8/94 Associate Professor, Montclair State College, NJ

9/82 – 8/89 Assistant Professor, Montclair State College, NJ

9/81 – 8/82 Assistant Professor, Brooklyn College, NJ

**TEACHING EXPERIENCE**

**Graduate Courses**

Topics in Modern Genetics

Graduate Seminar in Biology

Topics in Microbiology

Microbial Physiology

Graduate Research in Biology

Research in Biological Literature

Thesis Research in Biology

**Undergraduate Courses**

Biological Sciences

Biology for survival

Corporate Education

Human Biology

Human Anatomy and Physiology

Biology of Human Life

Applied Microbiology

Survey of Microbiology

Microbiology

Medical Microbiology

Senior Seminar

Biology Literature Search

Independent Study

**University Distinguished Teacher Award proposed and taught GER course**

# Emerging Diseases

**PUBLICATIONS**

1. Chu T, Lee LH, Yussof A, Lopez S, Herrera G, Luna P, Uddin M, Wu L, Murzaku J Dickinson D. and Hsu S. (2020) “Enhanced Sporicidal Activity of Alcohol and Epigallocatechin-Palmitate-Based Hand Hygiene Formulations Comprised of Plant-Derived Compounds”. J. of Biosciences and Medicines, 8, 89-99
2. Rossi A, Wolde, BT Lee LH. Lee and Wu M. (2020) “Prediction of recreational water safety using Escherichia coli as an indicator: case study of the Passaic and Pompton rivers, New Jersey. Science of the Total Environment 714. 136814
3. Chu T, Lee LH, Hsu S, Aponte T, Lopez S, Lalata G, Herrera G, Yussof A, and Dickinson D. (2019) “Effect of Novel Formulations containing Lipophilic Epigallocatechin-3-Gallate on Bacterial Spore Germination,” Microbio Infect Dis. 3 (3):1-6.
4. Yussof, A.; Habiba, U.; Liaw, D.; Chu, T**.**; Lee, LH. (2019) “Epigallocatechin Gallate-Stearate Enhances the Efficacy of Antibiotics,” Open Journal of Medical Microbiology, 9(3): 77-94.
5. Hsu T., Lee, LH., Rossi, A., Yussof, A., Lawler, N. and Wu, M. (2019) Evaluating Microbial Water Quality and Potential Sources of Fecal Contamination in the Musconetcong River Watershed in New Jersey, USA. *Advances in Microbiology*, **9**, 385-397. doi: [10.4236/aim.2019.94023](https://doi.org/10.4236/aim.2019.94023).
6. Patel, S., Adams, S. and Lee, LH. (2018) Inhibition of Herpes Simplex Virus-1 by the Modified Green Tea Polyphenol EGCG-Stearate. *Advances in Bioscience and Biotechnology*, **9**, 679-690. doi: [10.4236/abb.2018.912046](https://doi.org/10.4236/abb.2018.912046).
7. Melok, A.L., Lee, LH., Mohamed Yussof, S.A., Chu, T**.** (2018) “Green Tea Polyphenol Epigallocatechin-3-Gallate-Sterate Inhibits the Growth of *Streptococcus mutans*: A Promising New Approach in Caries Prevention,” *Dentistry Journal.* 6(3), 38
8. Newby R., Lee LH, Perez J., Xin Tao X., Chu TC (2017). Characterization of zinc stress response in Cyanobacterium *Synechococcus sp. IU 625*. Aquatic Toxicology 186: 159–170
9. Ali B., Lee LH, N. Laskar, N. Shaikh, H. Tahir, S. D. Hsu, R. Newby Jr., J. Valsechi-Diaz, T.C. Chu. (2017).Modified Green Tea Polyphenols, EGCG-S and LTP, Inhibit Endospore in Three *Bacillus* spp. Advance in Microbiology (3): 175-187
10. Daniel J. Flores, Lee LH. Lee, Sandra D. Adams (2016). Inhibition of Curcumin-Treated Herpes Simplex Virus 1 and 2 in Vero Cells. Advances in Microbiology, 2016, 6, 276-287
11. Zhao M, Zheng R, Jiang J, Dickinson D, Fu B, Chu TC, Lee LH, Pearl H, and Hsu S. (2015). Topical Lipophilic Epigallocatechin-3-Gallate on Herpes Labialis: A Phase II Clinical Trial of AverTeaX formula. Oral surgery, Oral Medicine, Oral Pathology and Oral Radiology. Oral Surg Oral Med Oral Pathol Oral Radiol 120:717-724
12. Oliveira A, Prince D, Lo CY, Lee LH and Chu TC. (2015). Antiviral activity of theaflavin digallate against herpes simplex virus type 1. Antiviral Research 118: 56-67
13. Lee LH., Wu M, Peri A and Chu TC. (2014). Method evaluations for *Escherichia coli* and coliforms detection in Northern New Jersey water bodies. GSTF Journal of BioSciences (JBio) 3 (1): 40-45
14. Chu TC, Wu M, Pohren ., Haghjoo BC. Soman C, and Lee LH. (2014) Molecular Identification of a Fungal Pathogen Batrachochytrium dendrobatidis and Its Impact on Urbanized New Jersey. *Advances in Microbiology* 4: 1164-1173
15. Murray D, Patel J, Feldman C., Lee LH and Fissinger A. (2014). Phase II Study of the Safety of Ready-to Eat Foods Served in Privately Owned Delicatessens: A Confirmatory Examination. J. J Nutr Health Food Eng 1(4): 00023
16. Chu TC, Adams SD, and Lee LH. (2014). Tea Polyphenolic Compounds on Herpes Simplex Viruses. In S.P. Gupta (Ed), Cancer Causing Viruses and Their Inhibitors, *CRC Press, Taylor and Francis Group.* ISBN 9781466589773. pp. 321-344.
17. Haghjoo B, Lee LH, Habiba U, Tahir H, Olabi M, and Chu TC. (2013) “The Synergistic Effects of Green Tea Polyphenols and Antibiotics Against Potential Pathogens”. *Advances in Bioscience and Biotechnology*, 4, 959-967
18. Murray, D., Feldman, C., Lee, L., and Schuckers, C. (2013). An exploratory study of food safety and food handling: Examining ready-to-eat foods in independent delicatessen operations. *Advances in Bioscience and Biotechnology, Special Issue: E. coli Theories and Perspectives,* 4(4A), 430-436
19. Lee LH, Garrett RD, Slusarczyk A, Perez JL, and Chu TC. (2013) “Bioinformatics Analyses of Chromium Tolerant Genes in Cyanobacteria and Identification of Their Operon in *Synechococcus* sp. IU 625”. *Proceedings of The 2013 International Conference on Bioinformatics & Computational Biology (BIOCOMP 2013).* Vol. I: 129-135.
20. Murray, D., Feldman, C., Lee, LH, and Schuckers, C. (2103). An exploratory study of food safety and food handling: Examining ready-to-eat foods in independent delicatessen operations. *Advances in Bioscience and Biotechnology, Special Issue: E. coli Theories and Perspectives,* 4(4A), 430-436
21. Nohomovich B, Nguyen BT, Quintanilla M, Lee LH, Murray SR, and Chu TC. (2013) “Physiological Effects of Nickel Chloride on the Freshwater Cyanobacterium *Synechococcus* sp. IU 625”. *Advances in Bioscience and Biotechnology.* 4(7A2): 10-14.
22. de Oliveira A, Lee LH, Adams SD, Murray SR, Hsu SD, Hammond JR, Dickinson D, Chen P, and Chu TC.(2013) “Inhibition of Herpes simplex virus type 1 with the modified green tea polyphenol palmitoyl-epigallocatechin gallate.” Food and Chemical Toxicology. 52, 207-215
23. Lee LH, Okafor C, Rienzo MJ and Chu TC. (2012) “Bioinformatic Analysis of Cyanobacterial Mercuric Resistance Genes and Identification of *Synechococcus* sp. IU 625 Putative Mercuric Resistance Genes”. *Proceedings of The 2012 International Conference on Bioinformatics & Computational Biology (BIOCOMP 2012)* Vol. I: 178-183.
24. Chu TC, Murray SR, Todd J, Perez W, Yarborough JR, Chiedozie O and Lee LH. (2012) “Adaption of *Synechococcus* sp. IU 625 to growth in the presence of mercuric chloride.”[*Acta Histochem.*](javascript:AL_get(this,%20'jour',%20'Acta%20Histochem.');)*,* 114(1): 6-11
25. Chu TC, Murray SR, Hsu SF, Vega Q and Lee LH. (2011). “Temperature-induced activation of freshwater Cyanophage AS-1 prophage.” [*Acta Histochem.*](javascript:AL_get(this,%20'jour',%20'Acta%20Histochem.');)*,* Vol. 113(3), 294-299 \*\* Evaluated and recommended by Faculty of 1000, Post-Publication Peer Review. <http://f1000.com/3671957>
26. Chu TC,Jimenez J, Strawn L,Reed M, Pohren L, and Lee LH (2010) “Molecular probes for the detection of Cyanophage AS-1 and its cyanobacterial hosts “*Proceedings of The 2010 International Conference on Bioinformatics & Computational Biology (*BIOCOMP 2010***)*** Vol. I: 356-362
27. Chu TC, Oliveira A, Rana R, and Lee LH. (2009) “Identification of *Synechococcus* sp. IU 625 phycocyanin gene and bioinformatic Analyses of cyanobacterial phycocyanin” *Proceedings of The 2009 International Conference on Bioinformatics & Computational Biology (*BIOCOMP 2009*)* Vol. I: 376-381
28. Lee LH and TC Chu (2008). Microbiology Laboratory Manual. Hayden-McNeil Publishing. ISBN-13: 978-0-7380-3085
29. Lustigman BK, Lee LH, Ganger M. and Chu TC. (2007) “Epiphytic bacteria of the surface of marine macroalgae collected from the NY/NJ coast USA” IN VIVO, 28(3): 12-20
30. Chu TC, Lee LH, Gaynor JJ , Vega QC, Lustigman BK and Srinivasan S. (2007) “Identification of *Synechococcus* sp. IU 625 metallothionein gene and its evolutionary relationship to the metallothionein gene of other cyanobacteria” Proceedings of The 2007 International Conference on Bioinformatics & Computational Biology (BIOCOMP 2007) Vol. I: 201-207
31. Lee LH, Lui D, Platner PJ, Hsu SF**,** Chu TC**,** Gaynor JJ, Vega QC and. Lustigman.BK (2006) “Induction of temperate cyanophage AS-1 by heavy metal - copper” BMC Microbiology, 6:17
32. Chu TC, Lee LH and Srinivasan S. (2005) Bioinformatic Analysis of the Metal-Binding Protein Families and Heavy Metal Resistance amongst Cyanobacteria. Proceedings of ICISIP(International Conference of Intelligent Sensing and Information Processing), 05:32-36
33. Chu TC, Lee LH, Srinivasan S, Gaynor JJ, Vega QC and Lustigman. BK (2005) CGKB- Cyanogroup Genomics Knowledge Base. Proceedings of METMBS (Mathematics and Engineering Techniques in Medicine and Biological Sciences)’05: 18-24
34. Awad S, Chu TC, Lustigman BK and Lee LH. (2005) Effect of cadmium on the growth of *Chlamydomonas reinhardtii*. Journal of Young Investigators, 13(3): 416-420
35. Lustigman BK and Lee LH (2002) “Algae Biotechnology” Chapter in Encyclopedia of Applied Microbiology. P.189-204
36. Lee LH and Lustigman BK and Murray SR. (2002) Effect of Mercuric Chloride and Selenium Dioxide on the Growth of Cyanobacteria, *Anacystis nidulans*. Bull of Environ Contam and Toxicol. 69: 900-907
37. Lustigman BK, Lee LH, Morata J and Khan F. (2000) Effect of Thallium on the Growth of *Anacystis nidulans* and *Chlamydomonas reinhardtii.* Bull. Environ. Contam. Toxicol. 64: 565-573
38. Lee LH, Lustigman BK, Murray SR and Koepp S. (1999) Effect of Selenium on the Growth of the Cyanobacterium *Anacystis nidulans*. Bull. Environ. Contam. Toxicol. 62: 591-599
39. Weiss-Magasic C, Lustigman BK and Lee LH (1997) Effect of Mercury on the Growth of *Chlamydomonas reinhardtii*. Bull. Environ. Contam. Toxicol. 59: 823-833
40. Lee LH, Lustigman BK. (1996) Effect of Barium and Nickel on the Growth of *Anacystis nidulans*. Bull. Environ. Contam. Toxicol. 56: 985-992
41. Lustigman BK, Lee LH and Weiss-Magasic C. (1995) Effect of Cobalt and pH on the Growth of *Chlamydomonas Reinhardtii*. Bull. Environ. Contam. Toxicol**.** 55: 65-72
42. Lustigman BK, Lee LH and Khalil A. (1995) Effect of Nickel and pH on the Growth of *Chlorella Vulgaris*. Bull. Environ. Contam. Toxicol. 55: 73-80
43. Lee LH, Lustigman BK and Dandorf D. (1994) Effect of manganese and zinc on the growth of *Anacystis nidulans*. Bull. Environ. Contam. Toxicol**.** 53: 158-165
44. Lee LH, Lustigman BK. (1993) Effect of copper on the growth of *Anacystis nidulans*. Bull. Environ. Contam. Toxicol. 50: 600-607
45. Lee LH, Lustigman BK. (1992) Effect of lead and cobalt on the growth of *Anacystis nidulans.*Bull. Environ. Contam. Toxicol. 48: 230-236
46. Lee LH, Lustigman BK. (1992) Effect of mercury and cadmium on the growth of *Anacystis nidulans*. Bull. Environ. Contam. Toxicol. 49: 272-278
47. Lustigman BK, Lee LH (1992) Production of Antibacterial substances by macroalgae of the New York/New Jersey Coast, USA. Bull. Environ. Contam. Toxicol. 49: 743-749
48. Lee LH, Lustigman BK. (1991) Effect of aluminum and pH on the growth of *Anacystis nidulans*. Bull. Environ. Contam. Toxicol. 46: 720-726
49. Lee LH, McGowan R and Blamire J. (1985) DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (VI) UV-induced alteration of the AS-1/*A. nidulans* lytic cycle. Microbios**.** 43: 245-259
50. Lee LH, McGowan R and Blamire J. (1985) DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (VII) The effect of hydroxyurea and nalidixic acid on the development of cyanophage AS-1. Microbios. 43: 277-295
51. Lee LH, McGowan R and Blamire J. (1983). DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (II): Characterization of the unique species of DNA. Microbios. 35: 111-118
52. Lee LH, John Blamire and Cottrell S. (1983). A rapid procedure for the isolation of yeast mitochondria DNA suitable for restriction fragment analysis. Analytical Biochemistry. 128: 47-53
53. Lee LH, McGowan R and Blamire J. (1983) DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (III) Alternative precursors and host/phage system for PIL-DNA. Microbios. 36:93-99
54. Lee LH, Blamire J and McGowan R. (1983) DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (IV). Studies on the source of PIL-DNA. Microbios. 36: 101-111
55. Lee LH, McGowan R.and Blamire J. (1983) DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (V). Biophysical characterization of PIL-DNA. Microbios. 36: 191-208
56. Lee LH, McGowan R. and Blamire J. (1982). Altered permeability of cyanobacteria *Anacystis nidulans* as a result of cyanophage AS-1 infection. Microbios. 34: 141-152
57. Lee LH, Blamire J and McGowan R. (1982). DNA metabolism during infection of *A. nidulans* by cyanophage AS-1 (1): Identification of a unique species of DNA. Microbios. 35: 49-62
58. Cottrell S and Lee LH (1981). Mitochondria DNA replication: evidence for some degree of synchrony during the yeast cell cycle. J. Cell Biology. 91: 91-93
59. Cottrell S and Lee LH. (1981). Evidence for the synchronous replication of mitochondria DNA during the yeast cell cycle. Biochem. Biophs. Res. Communication**.** 101: 1350-1356

**Co-authored Laboratory Manuals**

* Lee, L**.,** Krumins, J.., and Chu, T. (2020) Microbiology Laboratory Manual (e-book). Sixth Edition. Hayden-McNeil Publishing. ISBN: 978-1-5339-3154-2. August 2020.
* Lee, L, Reggio, J. and Chu, T. J Biology of Human Life lab Manual (e-book). Fifth Edition. Hayden-McNeil Publishing. ISBN: 978-1-5339-1201-5. August 2020.
* Lee, L**.,** Krumins, J.., and Chu, T. (2018) Microbiology Laboratory Manual. Fifth Edition. Hayden-McNeil Publishing. ISBN: 978-1-5339-0087-6. August 2018.

### Published Abstracts

There are more than **400 abstracts** have been published in the abstract book of American Society of Microbiology (ASM) General Meeting (peer-reviewed abstracts); Bull. New Jersey Academy of Science; In Vivo, the publication of the Metropolitan Association of College and University Biologist (MACUB) and abstract book of Sigma Xi Student conference and Annual Student Research Symposium at MSU. Most of the abstracts were published with graduate and undergraduate students.

**PRESENTATIONS**

**International Presentations:**

1. Lee H. Lee (2019) “Cyanobacteria and Cyanophage” National Cheng Kung University Global Water Quality Research Center Binational Seminar, Tainan, Taiwan.
2. Lee H. Lee and Meiyin Wu (2016). Is Global Climate Change Real?

Chinese Culture University, Taiwan.

1. Lee H. Lee and Meiyin Wu (2015). Study Design: Planning Your Projects for Different Types of Research. Chinese Culture University, Taiwan.
2. Lee H. Lee and Meiyin Wu (2015). Managing Non-point Source Pollutions: Identifying Sources of Pathogens. Chinese Culture University, Taiwan.

**National Meeting Presentations (America Society for Microbiology-ASM)**

1. T. Chu and L.H. Lee (2020) Detection, Identification and Community Composition of Cyanobacteria and Cyanophage in Barnegat Bay, New Jersey. Chicago, June, (2020)
2. T. Chu, C.J. Rios-Ruiz, J. L Perez and L.H. Lee (2019) Seasonal Monitoring of Cyanobacterial Harmful Algal Blooms and Their Toxin in Recreational Water in New Jersey," AES-1122. American Society for Microbiology, Moscone Convention Center, San Francisco, June 23, 2019
3. Lee H. Lee, Shrameeta Shinde and Tin-Chun Chu (2018). Using a Small Molecule EGCG-S, Modified Green Tea Polyphenol, as Synergistic Agent to Enhance Antibacterial Activities Antibiotics on Bacterial Biofilm. ASM 118th General Meeting.
4. Lee H. Lee and Christopher Chen (2016). [Targeting Common Staphylococci Species in Prosthetic Joint Infections with Tea Polypheno**l**](http://www.abstractsonline.com/pp8/#%21/4060/presentation/14930). ASM 116th General Meeting.
5. Ayuni Mohamed-Yussof, Amy Melok, Tin-Chun Chu and, Lee H. Lee Sandra (2016) Green tea Polyphenols as Synergistic Agents to Enhance Antibacterial Activity of Erythromycin. ASM 116th General Meeting.
6. Bushra Ali, Lee H. Lee and Tin-Chun Chu (2016). Lipophilic Green Tea Polyphenols as Potential Inhibitor of Endospore Germination in *Bacillus spp*. ASM 116th General Meeting.
7. Ayuni Yussof, and L. H. Lee (2015) “Green Tea Polyphenols Enhances the Activity of Antibiotics” ASM 115th General Meeting.
8. Lee H. Lee, Hassan Tahir and Chris Chen (2015) “Inhibition of *Pseudomonas aeruginosa* and *Staphylococcus aureus* Biofilm Accumulation by Different Green Tea Polyphenols”
9. Nozrin Laskar, Hassan Tahir, Tin-Chun Chu and Lee H. Lee. (2014) “Effects of Green Tea Polyphenols on Endospore Germination in *Bacillus cereus*, *B. megaterium* and *B. subtilis*”. ASM 114th General Meeting.
10. James Stamos, Daniel Flores, Shivani Patel, Lee H. Lee and Sandra D. Adams (2014) “Inhibition of Herpes Simplex Virus in Vero and A549 cells by plant polyphenols”. ASM 114th General Meeting.
11. HassanTahir, Lee H. Lee and Tin-Chun Chu (2014) “Green Tea Polyphenols and Modified Lipophilic Tea Polyphenols Inhibit Biofilm Formation in *Pseudomonas aeruginosa* and *Pseudomonas fluorescence*”. ASM 114th General Meeting.
12. Lee H. Lee and Tin-Chun Chu (2013) “Synergistic Effect of Epigallocatechin Gallate (EGCG) and (EGCG)-Stearate with Ampicillin on Bacterial Growth Inhibition*” The 113rd General Meeting of the American Society for Microbiology, Denver Co.*
13. Lee H. Lee (2013) “Bioinformatics analyses of chromium tolerant genes in cyanobacteria and identification of their operon in *Synechococcus* sp. IU 625” *The 2013 World Congress in Computer Science, Computer Engineering and Applied Computing.*
14. Lee H. Lee (2012) “Bioinformatic Analysis of Cyanobacterial Mercuric Resistance Genes and Identification of *Synechococcus* sp. IU 625 Putative Mercuric Resistance Genes” *The 2012 World Congress in Computer Science, Computer Engineering and Applied Computing.*
15. Lee H. Lee (2009) "Increased Copy Number of Plasmid pANL in *Synechococcus sp. IU 625*is associated with Increased Resistance to Mercuric Chloride*”at 109th General Meeting of the American Society for Microbiology, Philadelphia, PA.*
16. Lee H. Lee (2009) *"*Identification of *Synechococcus sp.* IU 625 Phycocyanin Gene and Bioinformatic Analyses of Cyanobacterial Phycocyanin” at The World Congress in Computer Science, Computer Engineering and Applied Computing.

**Student Research Presentations**

There are more than **400 presentations** at different scientific meetings by the graduate and undergraduate students. The meetings include American Society of Microbiology (ASM) General Meeting; Theobald Smith, New Jersey branch of ASM; Bulletin, New Jersey Academy of Science; Metropolitan Association of College and University Biologist (MACUB); Sigma Xi Student Conference and Annual Student Research Symposium at MSU.

**Master Thesis Advised**

1. Summer Elsayed, The potential Synergistic Effect OF EGCG-S and antibiotics on the ESKAPE pathogens. May 2019
2. Haleigh Sullivan, Curcumin and Hispolon as Potential Antibacterial Agents. May 2019
3. Theresa Aponte, Green Tea Polyphenol EGCG-S as an Antimicrobial Agent. May 2018
4. Shanice Otieno, A Promising Novel Method Targeting Prosthetic Joint Infection. July 2018
5. Shrameeta Shinde, A Small Molecule EGCG-S, Modified Green Tea Polyphenol, as Synergistic Agent to Enhance Antibacterial Activity of Antibiotic on Bacterial Biofilm, May 2017
6. Giselle Lalata, Green Tea Polyphenols as Potential anti-endospore Agents in Targeting *Bacillus Spp*. May 2017.
7. Jessica Rajchel, Establishing a Method of MicroRNA Profiling in Addition to Comprehensive Chromosome Screening in the Same Trophectoderm biopsy, May 2017.
8. Amy Melok, Green Tea Polyphenols Inhibit Biofilm Formation in the Dental Cavity causing Bacteria *Streptococcus mutans* May 2016.
9. Siti Ayuni Mohamed Yussof, Green Tea Polyphenols - Potential Antibiotic Synergistic Agents for Combatting Antibiotic Resistant Bacteria, May 2016.
10. Christopher Chen, A Novel Solution Targeting Prosthetic Joint Infection, May 2016
11. Hassan Tahir, The Effect of crude and Pure Green Tea Polyphenols on Tacteria Biofilm formation and Endospore Germination, May 2015
12. Anna Slusarczyk, Priming and Sequencing the Plasmid in *Synechococcus sp*. IU 625 and Identification of Stress Responsive, May 2014.
13. Richard Garrett, The effects of chromium on cellular viability and chromium tolerant gene expression within *Synechococcus* sp. IU 625, May 2013.
14. Umme Habiba, Study of Natural and Modified Green Tea Polyphenols; GTP, LTP, EGCG, and EGCG-Steatate on Endospores Germination, Biofilm Formation and Synergistic Effect of Antibiotics, May 2013.
15. Alexandra Peri, Evaluation of Different Methods for Detection and Enumeration of Indicator Organisms in Water Bodies of Northern New Jersey, May 2013.
16. Jagruti Patel, Antioxidant Effect of Selenium upon Exposure of Zinc and World Trade Center Particulate Matter in Prokaryotic and Eukaryotic Systems, May 2013.
17. Bobak Haghjoo, The synergistic effect of modified green tea Polyphenols (GTP), epigallocatechin-3-gallate (EGCG), Lipid-based tea Polyphenols (LTP), curcuminoids, and red algae polysaccharides on antibiotics against potentially pathogenic bacteria, August 2011
18. Dozie Okafor, Observation of Growth Characteristics and Characterization of MercuricResistance Genes in Cyanobacterium Synechococcus sp. IU 625, May 2010
19. Jose Perez, Heavy Metals Zinc and Cadmium Resistance and Metal Effects on Synechococcus sp. IU 625, Aug. 2010
20. Winder Perez, A study on the Mechanisms of Mercury Tolerance in the Cyanobacterium, *Synechococcus sp*. IU 625, May 2009
21. Suzen Awad, The effects of Heavy Metals on the Cyanobacterium *Anacystis nidulans,* May 2008
22. Patricia Platner, Genome Project of Cyanophage AS-1 and Cyanobacteria *Anacystis nidulans*. May 2003
23. Shi-Fang Hsu, Genome Project of Cyanophage AS-1 and Cyanobacteria *Anacystis nidulans*. May 2003

# HONORS AND AWARDS

# Special Awards

**Faculty Service Award (2004)**

# Judy and Josh Weston and Family Mentor Faculty Fellow Award (2002)

In Recognition of Scientific Research Mentorship and Future Promise as a Teacher, Mentor and Researcher for the Students at Montclair Public High Schools

# University Distinguished Teacher Award (2000)

Montclair State University (MSU)

**Excellence in Education Award (1995)**

Student Government Association, MSU

# Margaret and Herman Sokol Faculty Fellow Award (1994) $25,000

College of Science and Mathematics, MSU.

In Recognition of Past Excellence and Future Promise as a Teacher, Scholar and Colleague

**SERVICE**

**Consultant**

Camillex, health care product company (2010- 2020). Innovative colligative research to develop antimicrobial agent

Work with Pharmaceutical Innovations, Inc. to carry out sterility test and fabric test for the samples (2008 -2012)

Workshop for Chinese Officials from the Department of Agriculture on

“New Technology for food production” June 1999. Organize and Run a one-week workshop.

Workshop for managers from China pharmaceutical companies “ New

Drug Development”. May 1999. Organize and Run a one-week workshop

Workshop for Chinese Managers on “New Technology for Drug Development, 1998-1999

International Consultant to China – Through Chinese-American Science and Technology (CAST) on Application of Biotechnology. Good Manufacturing Practice Training workshop 1994 –1995

Consultant for The Information and Consulting Center of Chinese Association for Science and Technology (CAST) spring 1993- 1995

International Consultant for Biocraft Pharmaceutical 1991

Consultant for Multicultural Workshop 1991

Lab Testing International (with Dr. Lustigman) 1988-1990

**Contracts**

Academic partner, "Evaluating Legionella detection rates and occurrence by distribution system characteristics in a community water system," Sponsored by Water Research Foundation, $132,268.00.

(July 2018 - September 2019).

Delaware Watershed Research Fund ($340,000). M. Wu, PI.  L. Lee, Co-PI. (2017-2019)

Musconetcong River Watershed Association, “Tracking pathogen sources for Musconectcong River.” ($20,800). M. Wu, PI.  L. Lee, Co-PI. (2014-2015)