

C.V. for Dr. Fawzia Abdel-Rahman,
Professor, Department of Biology
College of Science, Engineering and Technology
Texas Southern University,
3100 Cleburne Ave.
Houston, TX 77004
Phone: 713-313-1030
Fax: 713-313- 7932
Email: abdelrahman_fh@tsu.edu

EDUCATION:

**University of California, Davis. Ph. D.
Entomology, 1981.**
**University of California, Davis. M. S.
Entomology, 1978**
**University of Cairo, Egypt. B. S. (With Honors)
Agricultural Science
[Plant Protection (Entomology/plant Pathology)],
1970**
**Post Doctoral Fellow: University of California
Davis, 1986-1987.**

**Ph. D. Dissertation Title: Taxonomy, Morphology, and Biology of Two New Species
of Nematodes Parasitic on Sedge, *Scirpus robustus* Pursh.**

AREAS OF SPECIALIZATION: Entomology, Nematology, Plant Pathology, Ecology,
and Environmental Science.

PROFESSIONAL WORK EXPERIENCE AT TEXAS SOUTHERN UNIVERSITY:

September 2000-Present
Department of Biology
Texas Southern University
Houston, Texas 77004

Tenured Professor

September 1996- August 2000
Department of Biology
Texas Southern University
Houston, Texas 77004

Tenured Associate Professor

September 1990-August 1996
Department of Biology,
Texas Southern University
Houston, Texas 77004

Assistant professor

TEACHING EXPERIENCE Taught and Teaching Different biology classes at both undergraduate and graduate levels:

Under Graduate Classes:

Organismic Biology (Biol. 341)
General biology for non science majors, (Biol. 143)
Biological science I (Biol. 131)
Biological science II (Biol. 132)
Biological Science Laboratory I (Biol. 121)
General Parasitology (Biology 432)
Parasitology (Biol. 451)
Environmental Biology (Biol. 343)
Ecology (Biol. 343)
Laboratory Methods in the Biological Sciences (Biol. 442)
Seminar for Health Related Professions (Biol. 300)
Undergraduate Research (Biol. 401)

Graduate Classes:

Entomology, (Biol. 534)
Environmental Science (ES 703)
Experimental Biology (Biol. 647)
Experimental Biology Lab. (Biol. 647L)
Experimental Biology (Boil. 648)
Experimental Biology Lab. (Biol. 648 L)
Ecology for Environmental Toxicology Ph. D. program (ES. 903)
Limnology for Environmental Toxicology Ph. D. program (ES 907)
Research Problems I (Biol. 861)
Research Problems II (Biol. 862)
Research and dissertation ES. 925
ES. 724

RESEARCH EXPERIENCE

Use of *C. elegans* as a model animal for biological, aging, and toxicology research. Study of the effect of Microgravity and radiation on the reproduction, survival, life cycle, behavior and longevity of the nematode *C. elegans*. The use of Natural Products as Antioxidant to counteract the harmful effects of various environmental factors. Ecological studies, Plant-parasites interactions, monitoring environmental pollutants by using biomonitors/bioindicators. Taxonomical and morphological studies including the use of Scanning Electron Microscope (SEM). Microbiological studies including investigation of different natural products for their antifungal and antibacterial properties. Investigating the Pesticidal activities of different natural products, as alternatives of synthetic organic pesticides. Nematological research including, nematode biology, life cycles, population dynamics, bioindicators, parasitism on plants, morphology, taxonomy, identification and describing new species. Biological control, using natural products from plants, algae, fungi and bacteria. Applying the use of Scanning Electron Microscope and Nanoanalysis to Biological research.

ACADEMIC SERVICE:

Served as the major advisor for several students in the biology Master's program, and the Environmental Toxicology Master and Ph.D. programs:

1. Biological Effects of Low, Medium, and High Blue-Enriched White Light in Light Emitting Diode (LED) on *Caenorhabditis elegans*. **Aldana Aldawsari. Graduated fall 2017.**
2. Biological Assessment Of *Caenorhabditis Elegans* As A Model For Evaluating Exposure To Led Lights. **Bethel Okeremgbo. Graduated Summer 2017.**
3. *Caenorhabditis elegans* As A Model To Study The Impact Of Exposure To Light Emitting Diode (Led) Domestic Lighting. **Fatimah Hassan Alhamadah. Graduated Spring 2017**
4. *Caenorhabditis elegans* as a model for fatty acid biomarkers of exposure to environmental stressors. **Parise Sequelle Henry. Graduating fall 2016 with Master's degree in Environmental Toxicology**
5. The cytotoxic effect of natatorium water (pool water) on *caenorhabditis elegans*. **Hadijat Wemmy Audu. Graduated Summer 2015.**
6. Exposure of *Caenorhabditis elegans* to X-ray radiation and its effects on reproduction, lifespan and behavior. **Shawn Ledet. Graduated Spring 2014**
7. Effect of Microgravity on the embryonic and postembryonic development of *C. elegans*. **Tyquincia Boyd. graduated Spring 2014.**
8. The effect of selected Azo dyes on *Caenorhabditis elegans* biology. **Anson North. Graduated Fall 2013.**
9. The effect of Epigallocatechin gallate (EGCG) on *Caenorhabditis elegans* exposed to Modeled Microgrvity. **Sianna M. Blackwood. Graduated spring 2013.**
10. Using silymarin and its isomers as an antioxidative agent against environmental stress. **Elvedina Mansoor. Graduated December 2012.**
11. Toxicity and Biological effects of Azo dyes on *Caenorhabditis elegans*. **Dominique Sapp. Graduated December 2012.**
12. The Humble Nematode *Caenorhabditis elegans* Conditions under Simulated Microgravity. **Sedigheh Heydari, graduated summer 2012.**
13. Simulated Microgravity and *Caenorhabditis elegans*. **Nina Alaniz, graduated Spring 2012**
14. Antagonistic effects of selected Essential Oils on the growth of Microorganisms Collected from Different Surfaces. **Torrye Hooper, graduated August 2007, M. S. in biology.**
15. The Inhibitory Effects of Seeds of the Family Apiaceae (Umbelliferae). **Jennifer Walker, graduated May 2006, M.S. in biology.**
16. Lead And Arsenic Mixture- Induced Toxicity in neuronal Cells. **Yasmeen Rizvi, graduated May 2005. M. S. in biology.**
17. The Effect of Manganese on Oxidative DNA Damage in Mesencephalic Cells. **Ching-Ping Shih. Graduated May 2004, M. S. in biology.**
18. Toxicological Assessment Using Several biological Markers: Case Study Results Using an Integrated Approach. **Shawn E. Simmons graduated May 2003. Ph.D. in Environmental Toxicology.**

19. A Study of the biological activity of some soil microorganisms' metabolites. **Rami Hussein Nsaif. Graduated August 1997, M. S. in biology.**
20. Biodiversity and seasonal variation of Houston Ship Channel Phytoplankton. **Nadia Aithmitti, August 1998, M. S. in biology.**
21. The Effect of Root-Knot Nematode and *Fusarium oxysporium* on the growth of some vegetable crops. **An International Student Heba Abdel-Nabey who finished her research in my Laboratory and under my supervision and then awarded her Ph. D degree from Egypt through the Universities linkage program supported by USAID, 2000.**

Served as a thesis committee member for many students in the Master's and Ph. D. in biology, Environmental Toxicology, Pharmacy, and Chemistry programs.

Currently serving as the major advisor for the following Biology and Environmental Toxicology MS and Ph.D. graduate students:

1. Sakha Jamadar, Ph.D. Environmental and interdisciplinary Science
2. Anthon North, Ph.D. Environmental and interdisciplinary Science

PROFESSIONAL AFFILIATIONS

The Society of Nematologists
The American Phytopathological Society
American Chemical Society, Division of Agrochemical
Texas Academy of Science
Egyptian Plant Pathological Society

RESEARCH GRANTS

- NASA/ Texas Southern University Research Center, NASA URC (CBER), Co P.I., 2008-2014. Center for Bionanotechnology and Environmental Research (\$6000000).
- NASA/ Texas Southern University Research Center, NASA URC, Co P. I., 2003-2008. Utilization of Antimicrobial Natural Products for Management of Microorganisms in Space Life Support Systems (\$5000000).
- The utilization of Nematicidal Activities of Microbial Metabolites to Manage Plant-Parasitic Nematode Populations. USAID, P.I. 1996-1998 (200,000).

HONORS/AWARDS

1st Place Award, student oral presentation Research Week April 5-8, 2011

3rd Place Award, Student Poster presentation. At the 38th Annual Meeting of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE). Houston, Texas, April 19-22, 2011

1st Place Award, faculty Poster presentation Research Week 2007, Texas Southern University

1st Place Award, faculty Poster presentation Research Week 2005, Texas Southern University

3rd Place Award, student oral presentation Research Week 2007, Texas Southern University for my graduate student Torrye Hopper.

PRESENTATIONS: In the last 15 years only:

1. Abdel-Rhman, Fwzia, Aldana Aldawsari, Kevin Anthony, Mahmoud A. Saleh. using the nematode *Caenorhabditis elegans*, to study the biological effects of exposure to light emitting diode (LED). Texas Southern University's (TSU's) annual Research Week, March 25-29, 2019.
2. Jamadar, Sakha, F. Abdel-Rahman, T. Nguyen, K. Anthony, and M. A. Saleh. *Caenorhabditis elegans* Triacylglycerols as Biomarker for Exposure to Pesticides. Environmental Toxicology Research Colloquium. Texas Southern University. College of Science, Engineering and Technology. Friday, February 8, 2019. 9:00 AM - 5:00 PM
3. Abdel-Rahman, Fawzia, S. Jamadar, T. Nguyen, K. Anthony, and M. A. Saleh. *Caenorhabditis Elegans* Triacylglycerols As Biomarker for Exposure to Pesticides. 57th Annual Meeting of the Society of Nematologists. July 22–25, 2018. Albuquerque, New Mexico.
4. Fawzia H. Abdel-Rhman, Aldana Aldawsari, Kevin Anthony, Mahmoud A. Saleh. Effects of exposure to light emitting diode (LED) using the model organism *Caenorhabditis elegans*. 255th ACS National Meeting, New Orleans, LA, March 18-22,2018.
5. Fawzia H. Abdel-Rhman, Demilade Adisa, Olufunmilayo Owopetu, Parise S. Henry, Sakha Jamadar, Kevin Anthony, Thao Nguyen, Bobby L. Wilson, Mahmoud A. Saleh. Fatty acids of *Caenorhabditis elegans* profiling as a biomarker of exposure to pesticides. 255th ACS National Meeting, New Orleans, LA, March 18-22,2018.
6. Abdel-Rahman, Fawzia H. Chemical Dehydration Of Nematodes For Scanning Electron Microscopy Observations. Society of Nematologists, 56th Annual Meeting Williamsburg, Virginia. August 13 – 16, 2017.
7. Sakha Jamadar, Kevin Anthony, and Fawzia Abdel-Rahman. Characterization of the effects of phenyl mercuric acetate exposure on the lipid profiling of *Caenorhabditis elegans*. Society of toxicology annual meeting. 12-17 March. 2017 Baltimore, MD, USA, 2017
8. Sakha Jamadar, Fawzia Abdel-Rahman, Mahmoud Saleh. Characterization of The Effects of Selenium on The Lipid Profiling Induced by Phenyl Mercuric Acetate Exposure in *Caenorhabditis elegans*. Society of Environmental Toxicology and

Chemistry World Congress (SETAC) North America 37th Meeting. November 6-10, 2016, Orlando, FL, USA. 2016

9. Sakha Jamadar, Fawzia Abdel-Rahman and Mahmoud A. Saleh. Characterization of the effects of selenium on the lipid profiling induced by phenylmercuric acetate exposure in *Caenorhabditis elegans*. Texas Southern University, Research week, March 29 – April 1, 2016.
10. Demilade K. Adisa, Fawzia Abdel-Rahman, and Mahmoud Saleh. FATTY ACID PROFILING AND OXIDATIVE DAMAGE ASSESSMENT OF *CAENORHABDITIS ELEGANS* AS AN INDICATOR FOR EVALUATING EXPOSURE TO PENTACHLOROPHENOL. Texas Southern University, Research week, March 29 – April 1, 2016.
11. Elvedina Mansoor, Abdel-Rahman, F. Using silymarin and its analogs as an antioxidants agent against environmental stress. Texas Southern University, Research week, April 2-5, 2013.
12. Abdel-Rahman, Fawzia, Nina Alaniz, Sedigheh Heydari, Elvedina Mansoor, and Mahmoud Saleh. Space-Like Environment and the Health of *Caenorhabditis elegans*. Presented at the 13th RCM International Symposium on the Health Disparities. December 9-13, 2012. San Juan, Puerto Rico.
13. Abdelrahman, Fawzia, Nina Alaniz, Sedigheh Heydari, and Brandi Wilson. Effects of space-like environment on the biology of *Caenorhabditis elegans*. Presented at the Society of Nematologists 51st Annual Meeting. Savannah, Georgia, August 12-15, 2012.
14. Abdel-Rahman, F. H., N. M. Alaniz, S. Heydari, E. Mansoor, and D. Sapp. 2012. Impact of Simulated Microgravity on Survival, Reproduction, and Lifespan of *Caenorhabditis elegans*. Presented at NASA Human Research Program Investigators' Workshop. ISS Assembly complete: Gateway to New Destinations. February 14-16, 2012. Houston, Texas.
15. Nina Alaniz, Brandi Wilson, and F. Abdel-Rahman. **2011**. Effects of Microgravity on *Caenorhabditis elegans*. Presented at 82nd Annual National Technical Association (NTA) Conference. Held at Howard University, Washington DC, September 14-16, 2011.
16. Nina Alaniz, Brandi Wilson, Sedigheh Heydari, Elvedina Mansoor and Dominique Sapp, and Abdel-Rahman, F. H. 2011. Impact of Microgravity on the Survival, Reproduction and Development of *Caenorhabditis elegans*. Presented by Nina Alaniz at the Regional Undergraduate Chemistry and Biochemistry Cell & Biology Symposium. Rice University, Department of Biochemistry and Cell Biology. Houston, Texas. October 22, 2011.

17. Abdel-Rahman, Fawzia H., N. M. Alaniz, Brandi Wilson, E. Mansoor S. Deolu-Sobogun and M. A. Saleh. Nematicidal Effect of Monoterpene Constituents of Essential Oils to *Caenorhabditis elegans*. Presented at the 50th Annual Meeting of Society of Nematologists. CH2M Hill Alumni Center, Oregon State University. Corvallis, Oregon. July 17-20, 2011
18. Brandi Wilson, Nina Alaniz, Tyquincia Boyd, and Fawzia Abdel-Rahman. 2011. Effect of Microgravity on Reproduction and life cycle of *Caenorhabditis elegans*. Presented by Brandi Wilson at the 38th Annual Meeting of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE). Houston, Texas, April 19-22, 2011. Ms Wilson the Third Place Award in Poster Presentation.
19. Nina Alaniz, Brandi Wilson, Tyquincia Boyd, and Rodney Elmore, and Fawzia Abdel-Rahman. 2011. Impact of Simulated Microgravity on *Caenorhabditis elegans* Growth and Reproduction. Presented by Nina Alaniz at Texas Southern University Research week, April 5-8, 2011. Ms. Alaniz won the First Place Award in Oral Presentation
20. Brandi Wilson, Nina Alaniz, Elvedina Mansoor, Rodney Elmore, Dominique Sapp, Sedigheh Heydari, Michael Spidle, Florence Dozier, Fawzia Abdel-Rahman, and Mahmoud Saleh. 2011. Presented by Brandi Wilson at Texas Southern University Research week, April 5-8, 2011.
21. Fawzia Abdel-Rahman, Nina Alaniz, Brandi Wilson*. 2011. Effect of Microgravity on Reproduction and life cycle of *Caenorhabditis elegans*. Presented by Brandi Wilson (Undergraduate) at Texas Academy of Sciences. 114th Annual Meeting, St. Edward's University in Austin, Texas. March 3 -5, 2011. Ms. Wilson won an honorable mention award for her presentation.
22. Fawzia Abdel-Rahman, Nina Alaniz, Elvedina Mansoor, Brandi Wilson, Rodney Elmore, Mona Khalil, and Mahmoud Saleh. 2011 Biological activity of essential oils against *C. elegans*. Presented by Nina Alaniz (graduate) at Texas Academy of Sciences. 114th Annual Meeting, St. Edward's University in Austin, Texas. March 3 -5, 2011.
23. Nina Alaniz, Brandi Wilson, and Fawzia Abdel-Rahman. 2010. Effect of simulated microgravity on the reproduction of *Caenorhabditis elegans*. Presented by Nina Alaniz (graduate) at 12th RCMI International Symposium on Health Disparities. December 6-9, 2010. Nashville, Tennessee.
24. Abdel-Rahman, Fawzia, Nina Alaniz, and Brandi Wilson. 2010. Effect of Microgravity on Reproduction of *Caenorhabditis elegans*. Presented at Texas Southern university Research Week, April, 2010.

25. Brandi Wilson, Kimberly Millar, Kursten Berry, Elvedina Mansoor and Fawzia Abdel-Rahman. 2009. Culturing of *Caenorhabditis elegans* the model organism for studying the effect of radiation and microgravity and the genetics of ageing and longevity. Presented at Texas Southern university Research Week 2009. March 30 - April 6, 2009.
26. Abdel-Rahman, Fawzia H. 2009. *C. elegans* AS A MODEL ORGANISM FOR STUDYING RADIATION AND MICROGRAVITY EFFECTS. Presented at a symposium on bionanotechnology and environmental research at the annual meeting of Texas Academy of Science. March 5-7,2009, at Texas Tech University at Junction, Texas
27. Saleh, M. A., S. Clark, B. Woodard and F. Abdel-Rahman. 2008. Antioxidants and free radical scavenging activities of botanical essential oils. Presented at the 11th RCM International Symposium on Health Disparities. December 1-4, 2008, Honolulu, Hawaii.
28. Zhang, WenLuo, Fawzia Abdel-Rahman, and Mahmoud Saleh. 2008. Antimicrobial activity of Rose Petals. Presented at Cambridge Healthtech Institute Annual conference. The Challenges of Antibacterial Drug Development. Integrating Chemistry and Biology. April 23-24, 2008. San Diego, California.
29. Abdel-Rahman, Fawzia, and Mahmoud Saleh. 2008. Scanning Electron Microscope Investigation of Selected Fruits of the Family Apiaceae. Presented at the 2008 Research Week at TEXAS SOUTHERN UNIVERSITY, March 31, 2008-April 4, 2008.
30. Abdel-Rahman, Fawzia, and Mahmoud Saleh. 2008. Comparative Ultrastructure and X-Ray Elemental Analysis of Fruits within Family Apiaceae. Presented at 111th Annual Meeting of the Texas Academy of Science. March 6-9, 2008. Texas A&M University-Corpus Christy, Corpus Christi, Texas.
31. Wenluo zhang, Fawzia H. Abdel Rahman, and Mahmoud A. Saleh. 2008. Presented at 111th Annual Meeting of the Texas Academy of Science. March 6-9, 2008. Texas A&M University-Corpus Christy, Corpus Christi, Texas.
32. Hooper Torrye, Fawzia Abdel-Rahman, Mahmoud Saleh. 2007. Antimicrobial Properties of Essential Oils of Selected Seeds of the Family Apiaceae. Presented at the Research week of TEXAS SOUTHERN UNIVERSITY, April 2-5, 2007. 3rd place award winner for Student oral presentation.
33. Abdel-Rahman, Fawzia, Torrye Hopper, Brooke Woodard, Wenluo Zhang, James Nance, Jennifer Walker, and Mahmoud Saleh. 2007. Nanoanalysis of Herbal Seeds of the Apiaceae Family. Presented at the Research week of TEXAS SOUTHERN UNIVERSITY, April 2-5, 2007. 1st place award winner for faculty poster presentation.
34. Charlotte A. Smith-Baker, Fawzia Abdel-Rahman, James H. Nance, and Mahmoud Saleh. 2007. Human Hair as an Indicator of Exposure to Environmental Toxicants.

- Presented at 110th Annual Meeting of the Texas Academy of Science. March 1-3, 2007. Baylor University. Waco, Texas.
35. Zhang Wenluo, Florence Doziel, Fawzia Abdel-Rahman, and Mahmoud A. Saleh. 2007. Biological Activity of Roses. Presented at 110th Annual Meeting of the Texas Academy of Science. March 1-3, 2007. Baylor University. Waco, Texas.
 36. Hooper, Torrye D. , Fawzia H. Abdel-Rahman, and Mahmoud Saleh. 2007. Antifungal Properties of Essential Oils of Selected Seeds of the Family Apiaceae. Presented at 110th Annual Meeting of the Texas Academy of Science. March 1-3, 2007. Baylor University. Waco, Texas.
 37. Abdel-Rahman, Fawzia, Torrye Hopper, Jennifer Walker, Brooke Woodard, Wenluo Zhang, James Nance, and Mahmoud Saleh. 2007. Nanoanalysis of Herbal Seeds of the Apiaceae Family. Presented at 110th Annual Meeting of the Texas Academy of Science. March 1-3, 2007. Baylor University. Waco, Texas.
 38. Abdel-Rahman, Fawzia, Shavon Clark, Brooke Woodard, and Mahmoud Saleh. 2006. Nematicidal activity of free fatty acids and furfural metabolites. Presented at a Symposium “Alternatives to the use of Methyl Bromide in Pre-Plant soil Fumigation and Stored Commodities: Chemical Alternatives, Flux, Modeling, and Risk Assessment”. American Chemical Society, Division of Agrochemicals 232nd ACS National Meeting, San Francisco, California, September 10-14, 2006.
 39. Saleh Mahmoud A., Fawzia Abdel-Rahman, Brooke Woodard, Shavon Clark, Cecil Wallace, Wen Luo Zhang, and Jennifer Walker. 2006. Presented at Symposium “Recent Advances in Immunochemistry and their Applications to Agrochemicals: Antibodies and Biological Reagent Development. American Chemical Society, Division of Agrochemicals 232nd ACS National Meeting, San Francisco, California, September 10-14, 2006.
 40. Abdel-Rahman, Fawzia. 2006. Nematicidal Activity of Marine Algal Natural Products. Presented at American Chemical Society, Division of Agrochemicals 232nd ACS National Meeting, San Francisco, California, September 10-14, 2006.
 41. Abdel-Rahman, F., and M. A. Saleh. 2006. Nematicidal Activity of Phytochemicals from Some Arid Land Plants. Presented at 45th Annual Meeting of the Society of Nematologists, Lihue, Hawaii, 18-21 June 2006.
 42. Abdel-Rahman, Fawzia, and Mahmoud Saleh. 2006. Bioactive Phytochemicals from Selected Arid Land Flora. Presented at the Research week of TEXAS SOUTHERN UNIVERSITY, April 3-7, 2006.
 43. Shavon Clark, Brooke Woodard, Cecil Wallace, Fawzia Abdel-Rahman, and Mahmoud Saleh. 2005. Pesticidal activity of phytochemicals produced by arid land flora. Presented at the American chemical Society Division of Agrochemicals 230th ACS National Meeting August 28-September 1, 2005, Washington, DC.

44. Abdel-Rahman, F. H., and M. A. Saleh. 2005. Biological Control Agents from Microbial Origin. Presented at the Research week of TEXAS SOUTHERN UNIVERSITY, April 25-29, 2005. 1st place award winner for faculty poster presentation.
45. Abdel-Rahman, F., M. H. El-Hamawy, and M. Saleh. 2005. Bioactive Phytochemicals from Selected Arid Land Flora. Presented at the 44th Annual Meeting of the Society of Nematologists. July 9-13, 2005. Fort Lauderdale, Florida.
46. Abdel-Rahman, F. H., R. H. Nsaif and I. Massoud. 2004. Nematicidal Activity of Soil Microorganisms' Metabolites. Presented at 43rd Annual Meeting of the Society of Nematologists, August 7-11, 2004, Estes Park, Colorado.
47. Abdel-Rahman, F. H. 2004. Biological Control agents from Microbial Origin. Presented at the XXVII ESN International Symposium. Rome, Italy. 14-18 June, 2004.
48. Abdel-Rahman, F. H., and Rohia Salah. 2003. Toxic and Antagonistic Effects of the Marine Algal Natural-Products on the Embryonic-development, Larval-Development, and Survival of Nematodes. Presented at 42nd Annual Meeting of the Society of Nematologists, July 12-17, 2003, Cornell University, Ithaca, New York.

Workshops Attendance: 2013

“Bioinformatics & Data Management Strategies Workshop” and “the 3rd Next Generation Sequencing Conference”. San Francisco, CA June 19-21, 2013.

Workshops Attendance: 2007

Biolog's Microlog Microbial Identification System Training Workshop, Hayward, CA June 19-21, 2007.

Workshops Attendance: 2008

1. NASA writing and proposal preparation for HBCU, New Orleans, Louisiana, April 2008.
2. Quality Education for Minorities (QEM) Network, National Science Foundation NSF's) Major Research Instrumentation (MRI) program proposal Development Workshop. New Orleans, LA. October 24-25, 2008.
3. Quality Education for Minorities (QEM) Network, QEM proposal Development Workshop, National Science Foundation's Directorate for Biological Science (BIO), Washington, DC, November 14-15, 2008.

PUBLICATIONS:

1. Fawzia Abdel-Rahman, Bethel Okeremgbo, Fatimah Alhamadah, Sakha Jamadar, Kevin Anthony, Mahmoud A. Saleh. 2016. *Caenorhabditis elegans* as a model to study the impact of exposure to light emitting diode (LED) domestic lighting.

- Journal of Environmental Science and Health, Part A. Vol. 52,NO. 5, 433-439.
2. Duma Hlangothi, Fawzia Abdel-Rahman, Thao Nguyen, Kevin Anthony, and Mahmoud Saleh. 2016. Distribution of Silymarin in the Fruit of *Silybum marianum* L. *Pharmaceutica Analytica Acta*. Vol. 7(11) 1-4.
 3. Henry, Parise, Olufunmilayo Owopetu, Demilade Adisa, Thao Nguyen, Kevin Anthony, David Ijoni-Animadu, Sakha Jamadar, **Fawzia Abdel-Rahman & Mahmoud A. Saleh**. 2016. Fatty acids composition of *Caenorhabditis elegans* using accurate mass GCMS-QTOF. *Journal of Environmental Science and Health, Part B*. Pesticides, Food Contaminants, and Agricultural Waste. VOL. 51, NO. 8, 546–552.
 4. Abdel-Rahman, Fawzia H., Nina M. Alaniz, and Mahmoud A. Saleh. 2013. Nematicidal activity of terpenoides. *Journal of Environmental Science and Health, Part B*. 48,16-22.
 5. Abdel-Rahman, Fawzia, N.M. Alaniz, S. Heydari, and B.A. Wilson. D. (2012).Effect of space-like environment on the biology of caenorhabditis elegans. *Journal of Nematology* 44(4):447.
 6. Zhang, W., F. H. Abdel-Rahman and M. A. Saleh. 2011. Natural resistance of rose petals to microbial attack. *Journal of Environmental Science and Health, Part B*. Pesticides, Food Contaminants, and Agricultural Waste. *Journal of Environmental Science and Health Part B*. 46:381-393.
 7. Shahat, A., A.Y. Ibrahim, S. F. Hendawy, E. A. Omar, F. M. Hammouda, F. H. Abdel-Rahman and M. A. Saleh. 2011. Chemical Composition, Antimicrobial and Antioxidant Activities of Essential Oils from Organically Cultivated Fennel Cultivars. *Molecules*. 16:1366-1377.
 8. Abdel-Rahman, Fawzia H., S. Clark, and M. A. Saleh. 2008. Natural organic compounds as alternatives to methyl bromide for nematodes control. *Journal of Environmental Science and health, Part B*. 43, 680-685.
 9. Saleh, M. A. Mahmoud, Fawzia H. Abdel-Rahman, Brooke B. Woodard, Shavon Clark, Cecil Wallace, Adetoun Aboaba, Wenluo zhang and James H. Nance. 2008. Chemical, microbial and physical evaluation of commercial bottled waters in greater Houston area of Texas. *Journal of Environmental Science and Health Part A* 43, 335-347.
 10. Shahat, A., El-Barouty, G., Hassan, R., Hammouda, Abdel-Rahman, F., and Saleh M. A., 2008. Chemical composition and antimicrobial activities of the essential oil from the seeds of *Enterolobium contortisiliquum* (Leguminasae), *Journal of Environmental Science and Health, Part B*; Pesticides, Food Contaminants, and Agricultural Wastes, 43, 519-525.

11. Abdel-Rahman, Fawzia, and M. A. Saleh. 2006. Nematicidal Activity of phytochemicals From Arid Land Plants. *Journal of Nematology* 38(2):258.
12. Abdel-Rahman, F., M. h. El Hamawy, and M. Saleh. 2005. Bioactive phytochemicals from Selected Arid Land Flora. 2005. *Journal of Nematology* 37(3):354.
13. Abdel-Rahman, F. H., R. H. Nsaif, and S. I. Massoud. 2004. Nematicidal Activity of Soil Microorganisms' Metabolites. *Journal of Nematology* 36(3):303.
14. Abdel-Rahman, Fawzia. H., and Rawhiah Salah. 2003. Toxicity and antagonistic Effect of Marine Algal Extracts on Embryonic-Development and Survival of Nematodes. *Journal of Nematology* 35(3) 322.
15. Abdel-Rahman, Fawzia. 1999. Soil Microorganisms as potential Biological Agents to Manage Plant-Parasitic nematode Populations. *Egyptian Journal of Nematology* 3(1 / 2): 1-35.
16. Abdel-Rahman, Fawzia. 1999. The Antagonistic Effect of Soil Microorganisms in the Reduction of the Root-Knot Populations. *Egyptian Journal of Agronematology* 3 (1 / 2): 37-55.
17. Abdel-Rahman, Fawzia. H., and Rawhiah Salah. 2003. Toxicity and antagonistic Effect of Marine Algal Extracts on Embryonic-Development and Survival of Nematodes. *Journal of Nematology* 35(3) 322.
18. Saleh, M. A., M. A. Zeid, Z. A. Mohamed, and Fawzia Abdel-Rahman. 1996. Serum Protein Profile: A Possible Biomarker for Exposure to insecticides. In *Biomarkers for Agrochemicals and Toxic Substances, Application and Risk Assessment*. Edited by, J. N. Blancato, R. N. Brown, C. C. Dary, And M. A. Saleh. ACS Symposium Series 643. P 106-113. (Book)
19. El-Sebae, A. K., Z. A. Mohamed, Fawzia Abdel-Rahman, and A. Kamel. 1996. Possible Biomarkers for Assessing Health Risks in Susceptible Individuals Exposed to Agrochemicals with Emphasis on developing countries. In *Biomarkers for Agrochemicals and Toxic Substances, Application and Risk Assessment*. Edited by, J. N. Blancato, R. N. Brown, C. C. Dary, And M. A. Saleh. ACS Symposium Series 643. P 49-67. (Book).
20. Elsebae-A. K. H., M. M. A. Zeid, F. H. Abdel-Rahman, and M. A. Saleh. 1994. Binding of Aluminum to human serum transferrin, human-albumin and rat serum-proteins. *Journal of Environmental Science and Health, Part B, Pesticides Food Contaminants and Agricultural Wastes*. Vol.29(2) 303-321.
21. Rahman, Fawzia H. A. 1994. Morphological studies of some predaceous Nematodes (Mononchidae), from Texas. *J. Nematol.* 26: (1) , 117.

22. Abdel-Rahman, Fawzia H., Mohammed M. Abou Zeid, and Joseph Jones. 1994. Morphological Studies Comparing the Use of Digital Image Analysis and the Conventional Microscopic Procedures in Taxonomy. Texas Southern University Research Journal. Vol. (4)1, 54-65.
23. Abdel-Rahman, Fawzia H. 1994. Morphology and Taxonomy of a New Species of *Hoplotylus* (Nematoda: Pratylenchidae) with SEM Observations. Texas Southern University Research Journal, vol.(4)1, 81-94.
24. Saleh, Mahmoud A. , M. Abou Zied, G. EL- Baroty, E. Abdel-Reheim, Fawzia Abdel-Rahman, C. Wallace, A. H. El-Sebae, and Jerry N. Blancato. 1993. Gamma Aminobutyric Acid Radioreceptor-Assay A Possible Biomarker for Human Exposure to Certain Agrochemicals. J. Environ. Sci. Health, B28(6), 687-699.
25. Abdel- Rahman, F. H. 1993. SEM Observations and Description of *Plectus cylindricus* sp. n. (Nematoda: Plectidae), from California, USA. Nematologia Mediterranea.21: 59-62.
26. Maggenti A. R., F. Abdel Rahman and I. Cid. Del Perado Vera. 1992. New species of *Rhabdochona* Railliet, 1916, (Nemata: Rhabdochonidae) from Rainbow Trout in California Streams. J. Nematol. 24(3): 379-390.
27. Maggenti, P. A., A. R. Maggenti, and Fawzia Abdel-Rahman. 1990. Description of a new species of *Plectus* Bastain 1865 (Nemata: Plectidae) from Mendocino County, California, USA with SEM observations. Revue De Nematologie, 13(1):89-927.
28. Abdel Rahman, Fawzia, and A. R. Maggenti. 1988. *Gracilacus elongata* n. sp. (Nemata: Criconematoidea) parasitic on *Juncus ensifolius* from Mendocino, California. Revue Nematol. 11 (3) :303-306.
29. Massoud, Samia I., Fawzia H. Abdel-Rahman and A. I. Ghorab. 1988. Studies on *Heterodera Daverti* on Egyptian Clover *Trifolium Alexandrium*. Nematol. medit. 16:7-11.
30. El-Sherif, Ebtisam, M., Shohla, G. S., El-Wakil, A. A., and Abdel Rahman, Fawzia, H. 1988. The Combined Effect of Nematode and Certain Fungi on Soybean, Lentil and Chickpea. AnnalsAgric.Sci.Moshtohor.26(2) 1309-1322.
31. Abdel-Rahman, F H. and A. R. Maggenti. 1987. *Meloidogyne californiensis*. n. sp. (Nemata:Meloidogyninae) Parasitic on Bulrush, *Scirpus robustus* Pursh. J. Nematol. 19(2) 207-217.
32. Abdel-Rahman, F. H. and A. R. Maggenti 1987. Embryonic and postembryonic Development of *Meloidogyne Californiensis* Abdel-Rahman & Maggenti, 1987 Journal of Nematology. 19(4): 505-508.

33. Abdel-Rahman, F. H. and A. R. Maggenti. 1987. *Hirschmanniella pomponiensis* n. sp. (Nemata: Pratylenchidae), Parasitic on Bulrush, *Scirpus robustus* Pursh. J. Nematol. 19(2):147-151.
34. Saleh, Mahmoud Abbas, Fawzia H. Abdel-Rahman, Nagy A. Ibrahim, and Nadia M. Taha. 1987. Isolation and structure Determination of New Nematicidal Triglyceride From *Argemone maxicana* J. Chem. Ecol. 1361-1370.
35. Shohla, Galal S., Fawzia H. Abdel-Rahman, and S. I. Massoud. 1986 Susceptibility of five water melon *Citrullus vulgarrs L.* cultivars to the Root-Knot Nematode *Meloidogyne incognita* Bull. Fac. of Agric. Univ. of Cairo, Vol. 37(1):509-516.
36. Abdel-Rahman, Fawzia H., Galal S. Shohla, and Mahmoud A. Saleh. 1986. Nematicidal substances from plants. Bull. Fac. of Agric. Univ. of Cairo, Vol. 37(2) 112-120.
37. Abdel-Rahman, Fawzia H., Samia I. Massoud and G. S. Shohla. 1986. Screening and host suitability studies of five flax (*Linum usitatissimum L.*) Cultivars to the root-knot nematode *Meloidogyne incognita*. Bull. Fac. of Agric. Univ. of Cairo, Vol. 37(1):541-549.