CURRICULUM VITAE

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Professor of Chemistry

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EDUCATION AND PROFESSIONAL TRAINING:

Ph.D. in Chemistry, University of California, Davis, USA, 1971
M.Sc. in Biochemistry, University of Cairo, Egypt, 1965
B.Sc. in Agricultural Chemistry, University of Cairo, Egypt, 1963
Remote Sensing and GIS Associate Diploma, Houston Community College 1999.
Arc View application Associate Diploma Houston Community College 2000

PROFESSIONAL EXPERIENCE:

September 1990-Present
Professor of Chemistry, Texas Southern University
September 1987-1990
Professor of Chemistry and Director of the Organic Group, Environmental Research Center, University of Nevada, Las Vegas NV.
June 1986-September 1987
Visiting Professor, Pesticide Chemistry and Toxicology, University of California, Berkeley
September 1980-June 1986
Professor of Chemistry, Faculty of Agriculture, University of Cairo, Cairo, Egypt
July 1975-September 1980
Specialist, Pesticide Chemistry and Toxicology, University of California, Berkeley
March 1972-June 1975
Assistant Professor, of Chemistry, University of Cairo, Egypt
August 1971-March 1972
Postdoctoral Fellow, University of California, Davis, California

PROFESSIONAL AFFILIATIONS:

American Chemical Society, Egyptian Chemical Society and Egyptian Society of Toxicology.

RESEARCH BACKGROUND:

Natural Products and Ecological Chemistry
Isolation and identification of phytochemicals, natural products from desert plants and marine organisms. Chemical interaction between plants and pests. Chemistry of marine algae, corals, and invertebrates. Utilization of desert plants and marine algae for producing energy or useful chemicals.

Environmental and Analytical Chemistry

Methods development and residue analysis of complex mixtures of environmental toxicants and their metabolites in air, water, and foodstuff. Instrumentation including high field NMR, GC/MS, FTIR, HPLC, capillary GC, atomic absorption and selective ion electrodes. Application of field monitoring and sampling. Impact and dynamics of pesticides and agrochemicals on the environment, wildlife, and fish production. Sampling and analysis of organic and inorganic pollutants in surface and in ground water. Fate of crude oil spills, and its effect on ocean biota.

Pesticides Chemistry and Biochemistry

Organic synthesis of pesticides and their metabolites including radio labeling. Chemical, photochemical, and biological degradation of pesticides. Metabolisms of pesticides in animals and plants. Isolation and structure determinations of metabolites. The use of isotopes in metabolic studies. Mode of action of pesticides at the receptors level and the relationships between chemical structures and biological activity. Bioassay of insecticides, nematicide, fungicides, and metabolic inhibitors. Mutagenic assays of pesticides and other pollutants. Reaction mechanisms and kinetics of organic reactions.

Remote Sensing & Geographical Information Sciences

Application of remote sensing for monitoring environmental events and environmental pollution. GIS and digital mapping for natural resources, biodiversity, and wild life evaluation. Image analysis and data interpretation.

Other research experience includes supervising research groups, and organizing and conducting field expeditions in remote areas of deserts and sea.

RESEARCH ACTIVITY:

Involved in active research programs with the following Universities and Research Institutes: University of Cairo; University of Alexandria, National Research Center, Ministry of Environments (EEAA), Egypt; University of California; University of Nevada; Rutgers University; Texas Southern University, USEPA, USA

AWARDS:

Texas Southern University Research Scholar of the year 1992 and 1997

First Degree Award of Scientific Achievement in Environmental Research, Egypt (two times) 1980 and 1986.

PUBLICATIONS:

Author or co-author of 185 published technical articles and technical reports.

Books

1. Biomarkers of Human Exposure to Pesticides; ACS Symposium Series 542, M. **Saleh**, J. Blancato and C. Nauman. American Chemical Society, Washington, DC 1994.

2. Biomarkers for Agrochemicals and Toxic Substances/Applications and Risk Assessment; ACS Symposium Series 643, J. Blancato, R. Brown, C. Dary and M. **Saleh**. American Chemical Society, Washingt
3. on, DC 1996.

Refereed Journal Article Publications

Thai Nguyen, Mario Aparicio and Mahmoud A. Saleh, Gas Phase Ionization of Toluene: Benzylium versus Tropylium Pathway, Current Physical Chemistry, 2019, 9, 1-13.

Thao Nguyen and **Mahmoud A. Saleh**. Effect of exposure to light emitted diode (LED) lights on essential oil composition of sweet mint plants. Journal of Environmental Science and Health, Part A. 2019, Published online: 11 Jan 2019.

Nguyen, Thao L; Hlangothi, Duma; **Saleh, M. A**. Characterization of *Silybum marianum* triacylglycerol regioisomers u sing accurate mass quadrupole time of flight mass spectrometry, ***Journal Cogent Chemistry***, 05/2018, Volume 4, Issue 1 (2018).

Duma Hlangothia, Fawzia Abdel-Rahman, Thao Nguyen, Kevin Anthony and Mahmoud A Saleh. Distribution of Silymarin in the Fruit of *Silybum marianum* L. Pharmaceutica Analytica Acta, 2017, 7:11.

Thao Nguyen, Mario Aparicio and Mahmoud A. Saleh. Lipid Profiling of the Carob Fruit (*Ceratonia Siliqua* L.) Using GC/LC/QTOF Accurate Mass Spectrometry. 2017 SOJ Chromatograph Sci 1(1): 6.

Thao Nguyen and Mahmoud A. Saleh. Exposure of women to trace elements through the skin by direct contact with underwear clothing. Journal of Environmental Science and Health, Part A. 2017, 1–6.

Fawzia abdel-rahman, bethel okeremgbo, fatimah alhamadah, sakha jamadar, kevin anthony and **Saleh, M.A**. 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. 1, no. 1, 1–7, (2017).

Nguyen T, Aparicio M and Saleh MA. *Corchorus Olitorius* Linn: A Rich Source of Ω3-Fatty Acids. Pharmaceutica Analytica Acta. 2016, 7: 6-10.

Parise Henry, Olufunmilayo Owopetu, Demilade Adisa, Thao Nguyen, Kevin Anthony, David Ijoni-Animadu, Sakha Jamadar, Fawzia Abdel-Rahman and Mahmoud A. Saleh. Fatty acids composition of *Caenorhabditis elegans* using accurate mass GCMS-QTOF. Journal of Environmental Science and Health Part B Pesticides Food Contaminants and Agricultural Wastes. 2016, 1–7.

Thao Nguyen and Mahmoud A. Saleh. Detection of azo dyes and aromatic amines in women undergarment. Journal of Environmental Science and Health, Part A. 2016, 1–10.

Afolabi Adisa, Angelica Jimenez, Cara Woodham, Kevin Anthony, Thao Nguyen, Mahmoud A Saleh. Determination of polycyclic aromatic hydrocarbons in dry tea. Journal of Environmental Science and Health Part B Pesticides Food Contaminants and Agricultural Wastes 50(8):552-559 2015, PMID: 26065515.

Thao Nguyen, Mario Aparicio and Mahmoud A**. Saleh**. Accurate Mass GC/LC-Quadrupole Time of Flight Mass Spectrometry Analysis of Fatty acids and Triacylglycerols of Spicy Fruits from the Apiaceae

Family. Molecules **2015**, 20, 21421–21432.

Shams, K. A.; Abdel-Azim, Tawfik, W.A.; Hassanein, H.D.; Hammouda, F.N.; **Saleh**, M.A. Green extraction techniques: Effect of extraction method on lipid contents of three medicinal plants of Apiaceae. Journal of Chemical and Pharmaceutical Research, **2015**, 7(4):1080-1088.

Abdel-Halim, S. A.; Abou-Setta, L.M.; Ibrahim, M.T.; Abdelhady, N.M.; **Saleh**, M.A.; Shams, K.S.; El-Missiry, M.M. Green Extraction: Evaluation of Lipid Contents of Chicory (Cichorium Intybus) Seeds Extracted By Four Different Extraction Methods Using GC/MS and HPTLC. Research Journal of Pharmaceutical, Biological and Chemical Sciences. 07**/; 2015**; 6(4) 1122-34.

Shams, K. A.; Abdel-Azim, Tawfik, W.A.; Hassanein, H.D.; Hammouda, F.N.; **Saleh**, M.A. Comparative analysis of biological activity of Silybum marianum. Food supplements available on market: in vitro study. International Journal of Pharmacy and Pharmaceutical Sciences Vol 7 Issue 10, November **2015**.

Jimenez A., Adisa A., Woodham C. and **Saleh M.A**. Determination of polycyclic aromatic hydrocarbons in roasted coffee. *Journal of Environmental Science and Health*, **2014**, 49(11), 828-835.

Hassanein H.D., Nazif N.M., Shahat A.A., Hammouda F.M., Aboutable E.A. and **Saleh M.A**. Chemical Diversity of Essential Oils from *Cyperus articulatus, Cyperus esculentus and Cyperus papyrus*. *Journal of Essential Oil Bearing Plants* TEOP. **2014**,17(2), 251-264.

Hammouda F.M., **Saleh M.A.**, Abdel-Azim N.S., Shams K.A., Ismail S., Shahat A.A., Saleh I.A. Evaluation of the essential oil of Foeniculum vulgare Mill (Fennel) fruits extracted by three different extraction methods by GCMS. *Afr. J. Tradit. Complement. Altern. Med.* **2013**,11(2), 277-279.

Abdelaaty A. Shahat and Ibrahim A. Saleh. **(2013)** Evaluation of the Essential Oil of *Foeniculum Vulgare* Mill (Fennel) Fruits Extracted By Three Different Extraction Methods By GC/MS. *Afr J Tradit Complement Altern Med. 11*(2):277-279.

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Thao Nguyen, Duma Hlangothi, Raul A. Martinez III, Durelle Jacob, Kevin Anthony, Herb Nance And Mahmoud A. **Saleh** (**2013**) Charcoal Burning As A Source Of Polyaromatic Hydrocarbons In Waterpipe Smoking. Journal of Environmental Science and Health, Part B 48, 1097-1102.

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Abdel-Rahman, F. H., Alaniz, N.M., **Saleh M.A.** (2013) Nematicidal activity of terpenoids. J. of Environmental Science and Health, Part B. 48:16-22.

Anthony, K., Deolu-sobogun, Suziat and **Saleh, M. A**. (2012) Comprehensive Assessment of Antioxidant Activity of Essential Oils. Journal of Food Science. (77),8, C839-C843.

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Wenluo Zhang, Fawzia H. Abdel-Rahman and Mahmoud A. Saleh., Natural resistance of rose petals to microbial attack., Journal of Environmental Science and Health, Part B (2011) 46, 381-393

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M. A. Saleh, Assessment of mangrove vegetation on Abu Minqar Island of the Red Sea., *Journal of Arid Environments*, (2007) 68, 331-336.

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A. Moustafa, A. Khodair and Mahmoud Saleh, phytochemical investigation and toxicological studies of lipid constituents isolated from *Leptadenia pyrotechnica*., Journal of Pharmacology and Toxicology 2(8), 681-697 (2007).

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M.A. Saleh, Curtis C. Dary, Jerry N. Blancato. Detection of malathion in dermally treated rats using electronic autoradiography and FTIR microscopy, *J. Trace Microprobe Techniques*, 18, 121-135, (2000).

Kamel, A and Saleh, MA., Recent Studies on the Chemistry and Biological Activities of the organosulfur compounds of Garlic (Allium sativum), *Studies in Natural Products Chemistry*, 23:455- 485. (2000)

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M.A. Saleh, Wilson BL. Monitoring Wadi El Raiyan lakes of the Egyptian desert for inorganic pollutants by ion-selective electrodes, ion chromatography, and inductively coupled plasma spectroscopy. *Ecotoxicol Environ Saf.* ; 45(3):310-316. (2000).

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M.A.Saleh and J. Blancato. Gamma Aminobutyric Acid Radioreceptor Assay: A Confirmatory Quantitative Assay for Toxaphene in Environmental and Biological Samples. *Chemosphere*, 27(10), 1907-1914, (1993).

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110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas. In the list of authors the red color represents graduate students and the blue color for undergraduate students.

Brooke B. Woodard and Mahmoud A. Saleh, *Quantitative Structure-Activity Relationship (QSAR) Of Quorum-Sensing Inhibitors as a Novel Approach for Controlling Microorganisms.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Kristina R. Casmire*, Brooke Woodard, Ezekeil Hudson II, Fawzia Abdel-Rahman, Wenlou Zhang, and Mahmoud A. Saleh, *Comparative Chemical And Antimicrobial Properties Of The Chinese Star Anise And Anise Essential Oils.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Charlotte A. Smith-Baker*, Fawzia Abdel-Rahman, James H. Nance and Mahmoud A. Saleh, *Human Hair As An Indicator Of Exposure To Environmental Toxicants.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Wenluo Zhang*, Florence Doziel, Fawzia H. Abdel-Rahman and Mahmoud A. Saleh, *Biological Activity of Roses.*110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Torrye D. Hooper*, Fawzia H. Abdel-Rahman and Mahmoud A. Saleh, *Antifungal Properties of Essential Oils of Selected Seeds of the Family Apiaceae.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Adedotun Adebowale*, Adetoun Aboaba, Herb Nance and Mahmoud A. Saleh, *Water/Sediment Analysis of the Houston Ship Channel.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

Fawzia Abdel-Rahman*, Torrye Hooper, Jennifer Walker, Brooke Woodard, Wenlou Zhang, Kristina Casmire, Ezekeil Hudson II, Herb Nance and Mahmoud Saleh, *Nano Analysis Of Herbal Seeds Of The Apiaceae Family.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

The 10th RCMI International Symposium on Health Disparities took place on December 13 - 16, 2006 at the Caribe Hilton Hotel in San Juan, Puerto Rico.

Brooke B. Woodard* and Mahmoud A. Saleh, *Quantitative Structure-Activity Relationship (QSAR) Of Quorum-Sensing Inhibitors As A Novel Approach For Controlling Microorganisms.* 110th Annual Meeting of the Texas Academy of Science, March 1-3, 2007 Baylor University Waco, Texas.

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