CURRICULUM VITAE

Mustafa I. Selim, Ph.D.

Professor
East Carolina University
Department of Pharmacology and Toxicology
Brody School of Medicine
600 Moye Blvd
Greenville, NC 27834

Office: (252) 737-1933
Email: **selimm@ecu.edu**

EDUCATION:

Year	*Degree/Training*	*Institution*
1981	**PhD in Analytical Chemistry**	University of Mississippi, Oxford, MS
1980	**Postdoctoral Training in Pharmaceutical Research**	Research Institute of Pharmaceutical Sciences (RIPS), University of Mississippi, Oxford, MS
1975	**MS in Physical Chemistry**	University of Cairo, Cairo, Egypt
1970	**BS (Honors) in Chemistry**	University of Cairo, Cairo, Egypt

Continuing Education Courses/Certificates (Selected out of 40):

Pharmacology in Drug Discovery and Development (Prof. T. Kenaklin, UNC School of Medicine); **Phamacogenomics as an Adjunct for Certifying Drug Toxicity in Forensic Toxicology** (Society of Forensic Scientists: SOFT); Club Drugs and Drug Facilitated Sexual Assault (SOFT); **Statistically Valid Detection Limits and Quantification Limits** (The Pittsburgh and Exposition on Analytical Chemistry and Applied Spectroscopy: Pittcon); **Uncertainty Calculations in Chemical Measurements (Pittcon); Assessment of Laboratory Quality Systems** (The Australian National Association of Testing Authorities); **Laboratory Internal Audit** (American Association for Laboratory Accreditation); **Good Laboratory Practices** (ACS); **ISO 9000 Standards for Chemical Laboratories** (The American Chemical Society: ACS); **Environmental Laboratories Data Quality Assurance** (ACS); **Federal Insecticide, Fungicide, and Rodenticide Act Good Laboratory Practices– FIFRA GLP Regulations** (USEPA); Several courses on **the basic theory and hands-on operation** of GC, LC, **GC/MS and LC/MS analytical instruments; Analytical Instrument Validation** (American Association of Pharmaceutical Scientists) **Quality Assurance of Chemical Measurements** (ACS)

WORK EXPERIENCE (After PhD)

Sept. 2012 – Present **Professor of Pharmacology and Toxicology,** Brody School of Medicine, Brody School of Medicine (BSOM), East Carolina University (ECU), Greenville, North Carolina.

Aug.2007 – Aug 2012 **Professor and Director of the Environmental Health Sciences Laboratories,** Department of Health Education and Promotion, Division of Environmental Health Science and Technology (EHST), College of Health & Human Performance (HHP), ECU.

Jan.1999 - 2007 **President and Executive Director of Selim Laboratories, Inc.,** University of Iowa Technology Innovation Center, Oakdale Campus, Iowa City, Iowa. Selim Laboratories, Inc.

1988 - Apr.2000 **Assistant Professor- Promoted to Associate Professor of Preventive Medicine and Environmental Health,** Department of Preventive Medicine and Environmental Health (PM&EH), College of Medicine, University of Iowa (UI). PM&EH is now, College of Public Health, UI. Additional assignments include:

- Director of the Analytical Toxicology Laboratory (ATL);
- Director of the Core Laboratory for the Center for Agricultural Disease, Injury Research, Education and Prevention (CADIREP – National Institute for Occupational Safety and Health: NIOSH, CDC, NIH)
- Co-Director of the Environmental Assessment & Control Core of the Environmental Health Sciences Research Center (Funded by the National Institute of Environmental Health: NIEH, NIH).

1984 - 1988 **Assistant Professor of Chemistry and Director of the Chemical Services Laboratory (CSL),** Department of Chemistry, Murray State University (MSU), Murray, KY.

1983 - 1984 **Research Associate and Adjunct Assistant Professor of Chemistry,** Department of Chemistry, McNeese State University, Lake Charles, LA.

1981 - 1983 **Project Coordinator - Promoted to Senior Research Associate,** Mississippi State Crime Laboratory, Jackson, MS. Directed a major research project for the Governor's Highway Safety Committee on the incidence of Alcohol, Marijuana, and Abused Drugs on Highway Safety and Crime Cases in the State of Mississippi (Project #81-07-03-CX-308-01-01, State of Mississippi, 1983) listed under published work, below.

Jan. 1980 - July 1980 **Post-doctoral Research Associate,** Research Institute of Pharmaceutical Sciences, School of Pharmacy, University of Mississippi, Oxford, MS.

RESEARCH INTEREST AND EXPERIENCE:

My laboratory research interest is focused on three areas: 1) Investigating the toxic and detoxification mechanisms of hazardous and cancer causing chemicals, such as pesticides and mycotoxins (particularly aflatoxin B1), with the goal of developing technology for treatment or mitigation of exposure to such chemicals. 2) Method development and application of biochemical and analytical methods (e.g. SFE, GC/MS & LC/MS) for investigating: the effect of air pollutants on cardiovascular and upper respiratory diseases. 3) Assessing the genetic and toxicological risks associated with human exposure to endocrine disrupting chemicals in drinking water, foods, and consumer products.

Current Research Projects Include:

1. Investigating the health risk associated with exposure to endocrine disrupting chemicals in pharmaceuticals and personal care products (PPCPs) in surface and waste waters - Funded by the Office of Research and Development, East Carolina University.
2. Investigating the Effects of Ambient Particulate Matter from Kuwait on the Pulmonary and Upper Respiratory Diseases – Funded by the Public Authority for Applied Education and Training, Kuwait.
3. Investigating the toxic and detoxification mechanisms of the carcinogenic chemicals (e.g. aflatoxin B_1) for mitigating their toxic effects and developing a treatment antidote.

Completed Research Projects Include:

Occupation Exposure to Pesticides & Other Hazardous Chemicals:

1. Assessment of the cancer risk associated with exposure to fungal toxins (particularly, the cancer causing aflatoxin B_1) in airborne dust – *Funded by the National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control (CDC), National Institute of Health (NIH*).
2. Exposure to biocides, fungicides, and disinfectants in household commercial products – *Funded by the Chemical Manufacturing Association (CMA) under the supervision of the US Environmental Protection Agency (USEPA).*
3. Dermal and inhalation exposure of painters to biocides and volatile organics – *funded by the Rohm & Haas Company.*
4. Occupational exposure to metal cutting fluids in the automotive industry - *Funded by Chrysler Corporation and United Autoworkers (UAW) joined committee.*
5. *Toxicology of Metal Cutting Fluids – Funded by General Motors Corporation (GM) and UAW joined committee.*
6. *Farmers' Exposure to Pesticides During on Farm Application – Funded by the National Cancer Institute (NCI).*

7. Farm Family Surveillance (Exposure to: Mycotoxins, Pesticides, Ammonia, Hydrogen sulfide & Diesel fumes) – *Funded by NIOSH-CDC*

Analysis of pesticides and other toxic chemicals in Air, food, and water

1. Iowa State-wide survey of pesticides in groundwater - *USEPA & IA DNR).*
2. Pesticides in food and drinking in Malaysia - *CIREH, Millipore Corp & Ministry of Health Malaysia*
3. Pesticides in the Nile River, Egypt - *funded by the Center for International Rural and Environmental Health (CIREH), University of Iowa*
4. Analysis fungal Mycotoxins in soil and soil dust - *funded by the Center for International Rural and Environmental Health (CIREH), University of Iowa*
5. Aflatoxin B_1 & other toxins in common foods in Egypt – *CIREH*
6. Water quality in Kuwait - *Kuwait Foundation for the Advancement of Science (KFAS)*
7. Assessment of Indoor Air Quality in Large Office Buildings in Kuwait - - *Kuwait Foundation for the Advancement of Science (KFAS)*

Analysis of drugs and pharmaceutical formulations in biological fluids and tissue.

1. Assessing the incidence of alcohol, marijuana, and other abused drugs in highway traffic fatalities in the state of Mississippi – *Funded by the Governor's Highway Safety Commission, Jackson, MS. (Project #81-07-03-CX-308-01-01, State of Mississippi, 1983)*
2. Analysis of poison Ivey and poison oak in and their pharmaceutical formulation in animal tissue – Pharmaceutical research and drug development project at the RIPS, Ole Miss.

TEACHING EXPERIENCE:

- Developed and taught many undergraduate and graduate (MS & PhD) level courses in: general chemistry, analytical chemistry, advanced instrumental analysis, toxicology, analytical toxicology, clinical analytical chemistry, environmental health, air pollution and engineering control, chemical safety, and advanced research techniques.
- Directed laboratory research and training of many undergraduates, laboratory analysts, research technicians, post-doctoral trainees, visiting scholars, and successful students (MS and PhD).
- Developed and taught many continuing education short courses attended by practicing laboratory scientists, laboratory directors, and university professors. Topics include: Quality Control and Quality Assurance of Analytical Measurements, Statistical Analysis of Laboratory Data, and Applications of GC/MS in Forensic and Environmental Analyses,

PROFESSIONAL AFFILIATIONS (Selected out of 15):

Year	*Affiliation*
2013 – Present	Society of Toxicology (SOT)
2002 - 2007	Society of Forensic Toxicologists (SOFT)
2002 - 2006	Association of Pharmaceutical Scientists (AAPS)
1993 -1997	American Society for Quality Control (ASQC)
1983 - 2007	International Association of Official Analytical Chemists (IAOAC)
1981 – Present	American Society for Mass Spectrometry (ASMS)
1978 – Present	American Chemical Society (ACS)

CONSULTING EXPERIENCE:

Year — *Activity*

2008 **Consulted for the Institute of Medical Research, Ministry of Health, Malaysia, for:**
- Developing and implementing of the international Good Laboratory Practices Standards of the Organization for Economic Co-operation and Development (OECD –GLPs).
- Reviewed, assessed, and provided implementation plans for the international standards of laboratory safety and health (WHO).

2004 **Consulted for the College of Health Sciences, Public Authority for Applied Education and Training (PAAET), Kuwait.** Organized and chaired scientific peer review for the evaluation of three new academic programs: 1) Environmental Health Sciences (EHS), 2) Industrial Hygiene and Safety (IHS), and 3) Environmental Planning and Management (IPM).

2003–04 **Consulted for College of Health Sciences and the College of Technological Studies, Public Authority for Applied Education and Training (PAAET), Kuwait**. Provided detailed plans and recommendations for developing a new central laboratory facility.

2004 **Consulted for the In-Service Training Center, Public Authority for Applied Education and Training (PAAET), Kuwait.**
Was involved in two projects:
1) Developed and taught three one-week courses on chromatography and mass spectrometry, laboratory quality assurance and quality control standards, laboratory safety, health, and hazardous waste management. Course participants included supervisors, lab directors,

and QA/QC officers from the petrochemical industry and various government laboratories (e.g. Central Crime Evidence Lab, Kuwait EPA, Department of Health). Courses taught in May-June and repeated in Sept-Oct., 2004.

2) Conducted site visits, and assessment of training needs for the Central Crime Evidence Laboratories in Kuwait. Developed a comprehensive program for training laboratory analysts and establishing QA&QC standards to meet ISO 17025 certification (proposal pending).

1991-2003 **Peer reviewer for the Agency for Toxic Substances and Disease Registry (ATSDR), Centers for Disease Control (CDC), National Institutes of Health (NIH)**. Participated in reviewing grant applications, on-reports, and publications.

2002. **Consulted for the Gulf Training Institute, Kuwait.** Conducted one-week (30 hrs.) course on Laboratory Quality Control and Quality Assurance: Theory, Practice and Regulations.

1995 **Consulted for the World Health Organization (WHO)** and The Malaysian Institute of Medical Research. Work done: 1) Conducted nationwide review and evaluation of the clinical, environmental, food quality testing, and other analytical toxicology laboratories in Malaysia; 2) Organized discussion workshop involving lab directors, university professors, and government representatives; 3) Developed detailed published report assessing available laboratories, analytical capabilities and their upgrading needs; 4) Conducted a three-day (August 1-3, 1995) course on Analytical Toxicology in Kuala Lumpur, Malaysia. The course was attended by university professors, physicians, clinical laboratory directors, and bio-medical researchers.

1994 **Consultant to the Malaysian Ministry of Health and the Ministry of Science and Technology.** I was one of three international consultants that led the workshop for developing a National Plan for environmental health research and monitoring. Was instrumental in proposing and drafting the workshop recommendations that lead to the establishment of the Malaysian National Institute for Environmental Health..

1993 **Consulted for the Ministry of Health, Malaysia.** Supervised a field study for the assessment of the health risks of conventional water treatment plants in Malaysia. The study resulted in an effective water quality monitoring and assessment program that was modeled by the WHO for assessing water quality systems in Southeast Asia.

1991-92 **Consulted for the Egyptian Cabinet of Ministers and the Egyptian Environmental Affairs Agency.** Work done: 1) Led the workshop component on environmental health assessment. 2) Participated in lecturing

and panel discussions, which lead to the development of the National Environmental Master Plan. 3) Reviewed proposals for the master plan, and 4) Developed a seven million dollar proposal that was a successful part of the master plan.

1983 – 1994 Consulted for defense attorneys on forensic drug testing and environmental cases.
Some cases involved testifying in court as expert witness on drug and alcohol analysis.

BIBLIOGRAPHY:

A. Publications in peer-reviewed journals

Al-Khulaifi, NM; Al-Mudhaf, HF; Alenezi, R; Abu-Shady, AI; **Selim, MI**. Seasonal and temporal variations in volatile organic compounds in indoor and outdoor air in Al-Jahra city, Kuwait. *Environmental Pollution 5 (4)*: 310-326, 2014

Corrigendum for "Al-Mudhaf, HF; Abu-Shady, AI; Al-Kholaifi, NM; **Selim, MI.** Indoor and Outdoor Volatile Organic Compounds at Office Buildings in Kuwait. *CLEAN - Air, Water, and Soil* 7: 75-75, 2014

Al-Mudhaf, HF, Al-Hayan, MN, **Selim, MI**, Abu-Shady, AI. Mineral content of bottled and desalinated household drinking water in Kuwait", is acceptable for publication in CLEAN – Soil, Air, Water 39(12): 1068-1080, 2011.

Al-Mudhaf, HF, **Selim, MI**, Astel, AM, Abu-Shady, AI. Spatial Variation of Haloacetic Acids in the Indoor and Outdoor Desalinated Household Drinking Water in Kuwait, CLEAN – Soil, Air, Water 39(9): 833-843, 2011

Selim, MI. Mycotoxins: a global public health concern for agricultural workers. *NC Med J* 71(5): 438-441, 2010

Al-Mudhaf, HF, Astel, AM**, Selim, MI**, Abu-Shady, AI. Self-organizing map approach in assessment spatiotemporal variations of trihalomethanes in desalinated drinking water in Kuwait. *Desalination 252*(1-3): 97-105, 2010.

Selim, M. I. & Popendorf, WJ. Pesticide Contamination of Surface Water in Egypt. *CATRINA* (by the Egyptian Society for Environmental Sciences) 4 (1): 1-9, 2009.

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Starr, J. M. & **Selim, M. I.** (2008). Supercritical fluid extraction of aflatoxin B1 from soil. *J Chromatogr* 1209 (1-2):37-43, 2008.

Selim MI, Popendorf WJ, Juchems AM. Assessing Airborne aflatoxin during on-farm grain handling activities. *Am Ind Hyg Assoc J* 59:252-6, 1998.

Reynolds SJ, Chao DY, Thorne PS, Subramanian P, Waldron PF, **Selim MI**, Whitten PS, Popendorf WJ. Field Comparison of methods for evaluation of vapor /particle phase distribution of ammonia in livestock buildings. *JASH* 4:81-93, 1998.

Selim MI, Juchems AM, Popendorf WJ. Potential predictors of airborne concentrations of aflatoxin B_1. *J Agromedicine* 4:91-8, 1997.

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Selim MI, Popendorf WJ, Ibrahim MS, EL-Sharkawy S, EL-Kashory S. Aflatoxin B_1 in common Egyptian foods. *J AOAC Intl.* 79(5):1124-9, 1996.

Selim MI, EL-Sharkawy S, Popendorf WJ. Supercritical fluid extraction of fumonisin B_1 from grain dust. *J Agric Food Chem* 44:3224-9, 1996.

Popendorf WJ, Miller ER, Sprince NL, **Selim MI**, Thorne PS, Davis CS, Jones ML. Utility of preliminary surveys to detect the cause of acute metal working fluid hazard. Am J Ind Med. *Am J Ind Med.* 30:744-749, 1996.

Selim MI, Achutan CP, Starr JM, Jiang T, Young B. Comparison of enzyme immunoassay and GC, HPLC/MS analysis of pesticides in surface water. Immunochemical Technology for Environmental Applications. Aga DS, Thurman EM. (Eds.) American Chemical Society Symposium Series 657, American Chemical Society, Washington, DC, pp. 234-244, 1996.

Popendorf WJ, **Selim MI**. Exposures while applying commercial disinfectants. *Am Ind Hyg Assoc J* 56:1111-1120, 1995.

Selim MI, El-Sebae AH. Pesticide regulations in Egypt. *Egyptian Bulletin of Public Health* 25:77-94, 1995.

Popendorf WJ, **Selim MI**, Lewis MQ. Exposure while applying industrial antimicrobial pesticides. *Am Ind Hyg Assoc J* 56:993-1001, 1995.

Selim MI, Ibrahim MS. Effect of aflatoxin B_1 on steroid hormones in young male rats. *J Envir Sci* 7:125-140, 1994.

Ibrahim MS, **Selim MI**. Effect of aflatoxin B_1 on thyroid hormones metabolism in young male albino rats. *J Envir Sci* 7:141-158, 1994.

Salem MI, **Selim MI**. Determination of aflatoxin B_1 in some Egyptian foodstuffs and medicinal plants. *Mans Sci Bull* 21:121-133, 1994.

Selim MI, Wang J. Fate of atrazine in biologically active granular activated carbon. *Envir Tox & Chem* 13:3-8, 1994.

Pillay MS, **Selim MI**, Siru D. Drinking water quality monitoring and surveillance needs of developing countries. *Waterlines (UK)* 13:8-10, 1994.

Ibrahim MS, **Selim MI**. Effect of aflatoxin B_1 on the carbohydrate metabolism and growth hormone in young male rats. *J Egypt Ger Soc Zool* 14:317-337, 1994.

Selim MI, Ibrahim MS. Effect of cadmium toxicity on thyroid hormones in young male albino rats. *J Envir Sci* 8:107-119, 1994.

Selim MI, Tsuei MH. Development and optimization of a supercritical fluid extraction method for the analysis of aflatoxin B_1 in grain dust. *Am Ind Hyg Assoc J* 54(4):135-141, 1993.

Bishara SE, Barrett RD, **Selim MI.** Biodegradation of orthodontic appliances. Part II. Changes in the blood level of nickel. *Am J Orthodontics* 103:115-119, 1993.

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Kross BC, Hallberg G, **Selim MI**, et al. Iowa state-wide rural well water survey: an initial analysis report. Iowa Department of Natural Resources, Technical Information Series No. 19, 1991, 142 p.

El-Sharkawy SH, **Selim MI**, Afifi MS, Halawish FT. Microbial transformation of zearalenone IV - formation of zearalenone sulfate. *Appl Envir Microbiol* 57:549-552, 1991.

Selim MI, Strubinger J. Partition of supercritical n-pentane into SE-54 and SE-3O stationary phases in capillary supercritical fluid chromatography. Fresenius Zeitschriff fur *Aalytische Chemie* 330:246-249, 1988.

Selim MI. Detection of ethyl alcohol, marijuana, and abused drugs in vehicle operators. Report to the Governor's Highway Safety Commission, Project #81-07-03-CX-308-01-01, State of Mississippi, 1983.

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Selim MI, Yassin AA, Ateya BG. The corrosion kinetics of mild steel in presence of cyanoguanidinne formaldehyde resins. *Corros Sci* 17:923, 1977.

B. Book Chapters, Manuals, Proceedings & Reports:

Selim MI, Siru, D. Situational Analysis for Implementation of the Good Laboratory Practices Standards of the Organization for Economic Co-operation and Development (GLP - OECD), Institute of Medical research, Ministry of Health, Kuala Lumpur, Malaysia. February 2008.

Selim MI. Toward a Universal System of Quality for Environmental, Industrial and Research Monitoring. Proceedings of Conference on Quality, Public Authority for Applied Education and Training, Kuwait, March 10 –13, 2002.

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Popendorf W, **Selim MI**. Biocides in paint exposure assessment. Rohm and Haas Company, Spring House, PA, May 1992. (University of Iowa Report No. QB66; Rohm and Haas Report No. B92-137.)

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Selim MI. Application of supercritical technology to the analysis and treatment of hazardous waste. Proceedings of the Conference on Hazardous Waste Research, Manhattan, KS, 1990, 1:123-127.

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C. Abstracts:

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Al-Mudhalf, HF, **Selim MS**, Astel A, Abu-Shady AI. Spatial Variation of Haloacetic Acids in the Indoor and Outdoor Drinking Water in Kuwait. The Fifth International Conference on Environmental Science and Technology 2010, Houston, TX, page 10, July 12-16, 2010

Selim MI, Juchems AM, Popendorf W, Dawson J. Levels and distribution of aflatoxin B_1 in aerosolized grain dust. Third Annual NIOSH Agricultural Health and Safety Conference, page 60, March 26, 1996.

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Selim MI, Popendorf W, Juchems AM. Levels and Distribution of Aflatoxin B_1 in Grain Dust. Agricultural Safety and Health: A National Conference on Detection, Prevention and Intervention, Columbus, OH, August 24-26, 1994, p 12.

Reynolds SJ, Cho DY, Thorne PS, Waldron PF, **Selim MI**, Whitten PS, Popendorf WJ. Vapor/Particle Phase Distribution of Ammonia in Enclosed Livestock Buildings. American Industrial Hygiene Conference Exposition, May 21-27, 1994, Abstract #149, p 33.

Bishara SE, Barrett RD, Quinn J, Jackson JR, **Selim MI**. Biodegradation of Orthodontic Appliances in Vitro. Journal of Dental Research, Abstract #2117, 72:368, 1993.

Selim MI. Matrix Effects in the SFE of Mycotoxins. 4th International Symposium on Supercritical Fluid Chromatography and Extraction, Cincinnati, OH, May 20-22, 1992, pp. 191-192 (Invited).

Selim MI, El-Sharkawy SH, Padanilam BM. Supercritical Fluid Extraction of Fumonisins from Grain and Contaminated Dust. Midwest AOAC, Champaign, IL, June 8-11, 1992, No. 12, p 7 (Invited).

Selim MI. Assessment of Farmers' Exposure to Mycotoxins Grain Dust. American Industrial Hygiene Conference and Exposition, Boston, MA, June 1-5, 1992.

Selim MI, Dhawan SK. Application of SFE to the Extraction of Mycotoxins from Contaminated Grains. 105th Association of Official Analytical Chemist (AOAC) Meeting and Exposition in Phoenix, AZ, August 12-14, 1991, Abstract #288, p 161.

Selim MI, Weinrich AJ, Popendorf WJ. Occupational Exposures to Aflatoxins in Agricultural Workers. American Industrial Hygiene Conference, Orlando, FL, May 13-18, 1990, Abstract #60, p 40.

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D. Selected National and International Invited Presentations and Keynote Lectures:

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Selim MI. An Overview of Agricultural Chemicals and the Rural Health. International Symposium and Workshops on Food Contamination - Mycotoxins and Phytotoxins, Cairo, Egypt, November 4-15, 1990.