

CURRICULUM VITAE

Mohamed M. A. Salim

Salim, M. M.

Address: **Current:**
Dept. of Pharmaceutical Analytical Chemistry,
Faculty of Pharmacy, Mansoura University,
Mansoura 35516, Egypt.

Previous:
Department of Chemistry, Georgia State University,
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[Scopus](#)



1. PERSONAL DATA

Nationality: Egyptian
Place of Birth: Mansoura city, Egypt
Date of Birth: October 01, 1981
Language: Arabic: Mother tongue
English: Writing, Listening, and Speaking (Excellent)
Marital status: Married, Three kids
Military service: Exempted

2. RESEARCH INTEREST

The main topics of research interests are:

1. Analysis of drugs in multi-component mixtures, such as antibiotics, multivitamins, antihypertensive preparations,.....etc. Combined therapy is frequently recommended to potentiate the action (synergistic effect) of some drugs.
2. Analysis of drugs in the presence of their degradation products in stability and forced degradation studies according to official guidelines.
3. Analysis of drugs in presence of their metabolites in biological fluids, such as blood, plasma, urine....etc in pharmacokinetic and pharmacodynamic studies.

4. Determination of drugs in presence of their synthetic impurities. Structure elucidation of the degradation products on the basis of spectroscopic (NMR) and spectrometric (mass) experiments.

Conducting the researches using CE, LC-MS, NMR, HPLC, fluorometric, spectrophotometric, polarographic, potentiometric, conductometric and titrimetric methods.

3. EDUCATION

- 2011 – 2014:** **Ph.D. in pharmaceutical Analytical Chemistry (Channel System)**
1- Prof. Dr. G. Patonay lab., Chemistry Department, Georgia State University, Atlanta, Georgia 30303, USA.
2- Pharmaceutical Analytical Chemistry Dept., Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
Dissertation title: “Determination of some hepatic and/or cardiovascular drugs using advanced analytical techniques”.
- 2003 – 2009:** **M.Sc. in Pharmaceutical Analytical Chemistry**
Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
Thesis title: “Advanced Analytical Techniques for Determination of Trace Components in Pharmaceuticals”
- 1998– 2003:** **B.Sc. in Pharmaceutical Sciences**
Mansoura University, Mansoura, Egypt (Very good with honor)

4. EXPERIENCES

4.1. Academic Positions

- 2014 – Now:** **Assistant Professor**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- 2012 – 2014:** **Research/ Graduate Assistant**
Chemistry Department, Georgia State University, Atlanta, Georgia 30303, USA.
- 2011– 2014:** **Study Leave**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt
- 2009-2014:** **Assistant Lecturer**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt
- 2003-2009:** **Demonstrator**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt

4. 2. Teaching

4.2.1. Undergraduate

2014 – 2015: Pharmaceutical Analytical Chemistry 2 (Analytical Chemistry for Second Year pharmacy students)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Pharmaceutical Analytical Chemistry 1 (Analytical Chemistry for First Year pharmacy students)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Pharmaceutical Analytical Chemistry II (PC 306) (Clinical pharmacy, P2 students, semester 3)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Instrumental Analysis (PC 407) (Clinical pharmacy, P2 students, semester 4)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Quality control (PC 808) (Clinical pharmacy, P4 students, semester 8)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

2013 – 2014: Separation in Biosciences (Chemistry 4015/6015)

Department of Chemistry, Georgia State University, Atlanta, GA, 30303, USA

2007 – 2010: Physical & Inorganic Chemistry (PC 101) (Labs, Clinical pharmacy, P1 students, semester 1)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Pharmaceutical Analytical Chemistry 1(PC 205) (Labs, Clinical pharmacy, P1 students, semester 2)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Pharmaceutical Analytical Chemistry II (PC 306) (Labs, Clinical pharmacy, P2 students, semester 3)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Instrumental Analysis (PC 407) (Labs, Clinical pharmacy, P2 students, semester 4)

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

2003 – 2010: **Applied analysis (analysis of water, oils, fats & pharmaceutical preparations) (Labs, Second year pharmacy students)**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Instrumental Analysis (Labs, Second year pharmacy students)
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Quantitative Chemical Analysis (Labs, First and Second year pharmacy students)
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Qualitative Inorganic Analysis (Labs, Pre-pharmacy students)
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

4.2.2. Graduate

2014 – 2015: **Advanced Food Analysis (Clinical Pharmacy Diploma students)**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

2007 – 2010: **Instrumental Analysis (Labs, Quality Control Diploma students)**
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Food Analysis (Labs, Clinical Pharmacy Diploma students)
Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

5. TRAINING COURSES AND PROGRAMS

A. Technical Training Courses:

- Training in Mansoura city public pharmacies (**1999-2003**).
- Laboratory Safety and Hazardous Waste Initial Training (Department of Chemistry, Georgia State University, USA, Jan.**2012**).
- The use of information resources on GSU Library Panthercard ID# 002-00-3316, Georgia State University, USA, Feb. **2012**.
- Searching SciFinder[®] Online Library; American Chemical Society (ACS), Department of Chemistry, Georgia State University, USA, Feb. **2012**.
- Basics, Operating and Data Acquisition for Capillary Electrophoresis (CE) on Beckman P/ACE (MDQ, 5510 and 5500) (Department of Chemistry, Georgia State University, USA, March **2012**).
- Basics, Operating and Data Acquisition for HPLC-MS (Department of Chemistry, Georgia State University, USA, April **2012**).

- Chematix Training (Department of Chemistry, Georgia State University, USA, Feb. **2012**).
- Basics, Operating and Data Acquisition for ^1H and ^{13}C NMR Spectra on the Bruker Avance 400 NMR Spectrometer (Department of Chemistry, Georgia State University, USA, Jan.**2013**).
- Laboratory Safety and Hazardous Waste Refresher Training (Department of Chemistry, Georgia State University, USA, March **2013**).
- The use of EndNote[®] X7 program, Georgia State University Library, USA, Nov. **2013**.
- Introduction to **Nanotechnology**, Mansoura University Nanotechnology Center, Egypt, Sept. **2015** (20 Hours).

B. Quality Improvement and Skills Development Training Programs at Faculty and Leadership Development Center/ University development Center/ Mansoura University:

- Strategic planning (13-14 December **2015**, 15 Hours)
- The Scientific Research Team Leadership (26-27 January **2015**, 15 Hours)
- Conference Organization (15-16 June **2014**, 15 Hours)
- Credit Hours System (8-10 January **2012**, 18 Hours)
- International and National Research Projects (1-3 January **2012**, 18 Hours)
- Scientific Research Ethics (10 -12 October **2010**, 18 Hours)
- International publishing of scientific research (28 February- 2 March **2010**, 18 Hours)
- Quality Standards in the Education Process (7–9 June **2009**, 18 Hours)
- Microsoft E-Content Development Training (Microsoft Expression Web) (August **2008**)
- University code of ethics (12-14 October **2008**, 18 Hours)
- Critical thinking skills (17-19 December **2006**)
- Presentation skills (9-12 April **2006**, 18 Hours)
- Communication skills (26-28 March **2006**, 18 Hours)
- Scientific research methodology (5-8 February **2006**, 18 Hours)

C. Conferences:

- Al-Azhar 5th international conference of pharmaceutical and biological sciences, 13-14 Oct. **2008**, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt.
- 1st International Pharmaceutical Sciences Conference "Pharmacy Education and Community Expectations", 18-19 November **2009**, Faculty of Pharmacy, Tanta University, Tanta, Egypt.
- 1st Scientific Conference, 10 July **2010**, Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

6. SCHOLARSHIPS, FELLOWSHIPS, VISITS

- **Graduate Joint Scholarship for Ph.D Study**, Georgia State University, Atlanta, GA 30303, USA: 2012 JAN- 2014 APRIL.
- **Training summer course on Recent Advances in Instrumental Analysis (Foreign Scholarship) in** Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University Islam Antarabangasa Malaysia (UIAM); International Islamic University Malaysia (IIUM), Malaysia: 2011 APRIL-2011 OCTOBER.

7. MEMBERSHIP OF SCIENTIFIC SOCIETIES

- American Chemical Society (ACS)
- The Egyptian Pharmacists' syndicate.
- Who's Who in the World.
- Monitoring & Evaluation of New Programs Project, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- Quality Assurance & Accreditation Unit, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- E-learning Unit, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- Academic Advisor for Undergraduate Clinical students, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- Academic Advisor for International students, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

8. List of publications for Mohamed M. Salim, Ph.D. Faculty of Pharmacy – Mansoura University

I. PAPERS PUBLISHED IN PEER REVIEWED JOURNALS

- Kinetic Spectrophotometric Determination of Biotin in Pharmaceutical Preparations. M.I. Walsh, M. Rizk, Z.A. Sheribah, **M.M. Salim. Int. J. Biomed. Sci. 2008**, 4(3), 238.
- Development and Validation of Spectrofluorimetric Method for Determination of Biotin in Bulk and Pharmaceutical preparations via its oxidation with cerium (IV). M.I. Walsh, M. Rizk, Z.A. Sheribah, **M.M. Salim. Int. J. Biomed. Sci. 2010**, 6(3), 268.
- Derivative Spectrophotometric Analysis of Benzophenone (as an impurity) in Phenytoin. M.I. Walsh, M. Rizk, Z.A. Sheribah, **M.M. Salim. Chemistry Central Journal 2011**, 5(1), 85.
- Simultaneous Determination of Sitagliptin and Metformin in Pharmaceutical Preparations by Capillary Zone Electrophoresis and its Application to Human Plasma Analysis. **M. M. Salim**, N. El-Enany, F. Belal, M. Walsh and G. Patonay. **Anal. Chem. Insights 2012**, 7, 31-46.

- Micelle-enhanced spectrofluorimetric method for determination of sitagliptin and identification of potential alkaline degradation products using LC-MS. **M. M. Salim**, N. El-Enany, F. Belal, M. Walsh and G. Patonay. **Luminescence**. **2014**, 29, 65-73.
- Simultaneous determination of aliskiren hemifumarate, amlodipine besylate, and hydrochlorothiazide in their triple mixture dosage form by capillary zone electrophoresis. **M. M. Salim**, W. M. Ebeid, N. El-Enany, F. Belal, M. Walsh and G. Patonay. **J Sep Sci**. **2014**, 37, 1206-1213.
- Hydroxylated near-infrared BODIPY fluorophores as intracellular pH sensors. **M. M. Salim**, E. A. Owens, T. Gao, J. H. Lee, H. Hyun, H. S. Choi and M. Henary. **Analyst**. **2014**, 139, 4862-4873.
- Simultaneous determination of valsartan, amlodipine besylate and hydrochlorothiazide using capillary zone electrophoresis (CZE). W. Ebeid, **M. Salim**, E. Elkady, A. Elzahr, R. El-Bagary and G. Patonay. **Pharmazie** **2015**, 70, 368–373.

II. BOOKS, REVIEWS, AND THESIS

- **M. M. Salim**, “*Advanced Analytical Techniques for Determination of Trace Components in Pharmaceuticals*”, Master thesis, Mansoura, Egypt, **2009**.
- **M. M. Salim**, “*Determination of some hepatic and/or cardiovascular drugs using advanced analytical techniques*”, Ph.D. Dissertation, USA and Egypt (Channel System), **2014**.

III. PAPERS AND POSTERS PRESENTED IN CONFERENCES

- M.I. Walsh, M. Rizk, Z.A. Sheribah, **M.M. Salim**. Development and Validation of Spectrofluorimetric Method for Determination of Biotin in Bulk and Pharmaceutical preparations *via* its oxidation with cerium (IV). Al-Azhar 5th international conference of pharmaceutical and biological sciences, 13-14 Oct. 2008, Faculty of Pharmacy, Al- Azhar University, Cairo, Egypt.
- M.I. Walsh, M. Rizk, Z.A. Sheribah, **M.M. Salim**. Spectrophotometric Determination of Biotin *via* Oxidation with Potassium Persulfate. 1st International Pharmaceutical Sciences Conference "Pharmacy Education and Community Expectations", November 18-19 (2009), Faculty of Pharmacy, Tanta University, Tanta, Egypt.

IV. SUPERVISION

- Extern student, Faculty of Pharmacy, Mansoura University (Pharmacist: Sally Ashraf)
 - Research Project (Analytical study of some veterinary drugs).

V. SCIENTIFIC ACTIVITIES

- **Reviewing papers for the following journals:**
 - Journal of Association of Official Analytical Chemistry (AOAC).
 - Journal of Fluorescence (JOF).
 - African Journal of Pharmacy and Pharmacology (AJPP).
 - Current Analytical Chemistry.
 - DARU Journal of Pharmaceutical Sciences.
 - European Journal of Chemistry (EurJChem).
 - Journal of Liquid Chromatography & Related Technologies.
 - Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.
 - Journal of Chromatographic Science.
- **Speaker in the 1st Capillary Electrophoresis Workshop**, Unit of Drug Analysis and Pharmaceutical preparations, Faculty of Pharmacy, Mansoura University, May 12th – 14th, **2015** (total 3 credit Hours).

VI. COMMUNITY SERVICE

1. Member in Student Union Selection committee
2. Head of Holy Quran Recitation and Memorization Competition committee

VII. REFERENCE SCIENTISTS

Fathalla F. Belal

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