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Education

- PhD – Pharmaceutical Chemistry- Faculty of Pharmacy – Cairo University 2011 - 2014

Application of advanced chromatographic techniques to pharmaceutical analysis

- Master's Degree - Pharmaceutical Chemistry- Faculty of Pharmacy – Cairo University
2007 – 2010

Analytical study of hypoglycemic agents

- International pharmacy graduate program (Canadian pharmaceutical skills) 2010

University of Toronto through Ahrum Canadian University

- Certified International Trade and Marketing specialist (CITMS)
2009

International import and export institute; Dunlop-stone University.

- Bachelor's Degree:
1999 - 2004

Faculty of Pharmacy, Cairo University.

Grade: Excellent with honor, Year of graduation: 2004

Publications and conferences

1. **Farouk F**, Essam S, Abdel-Motaleb A, El-Shimy R, Fritzsche W, Azzazy HM. Fast detection of bacterial contamination in fresh produce using FTIR and spectral classification. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. 2022 Sep 5; 277:121248.2.
2. **Farouk F**, Kabil F. Zinc oxide chitosan nano-composite membrane for enhancing transplants production in strawberry nurseries via targeting chitin elicitor receptor kinase. International Nano Letters. 2022 Jul 6:1 2.
3. **Farouk F**, Hathout R, Elkady E. Resolving analytical challenges in pharmaceutical process monitoring using multivariate analysis methods: Applications in process understanding, control and improvement. Spectroscopy. Accepted.
4. **Farouk F**, Khalil RM, Abdelbary A, El Arini SK, Basha M, El-Hashemy HA. Bioanalytical comparison of transdermal delivery of tizanidine from different nanovesicular carriers. Journal of Pharmaceutical Innovation. 2021, Jun;16(2):384-90.



5. Khalil RM, Abdelbary A, Arini SK, Basha M, El-Hashemy HA, **Farouk F**. Development of tizanidine loaded aspasomes as transdermal delivery system: Ex-vivo and in-vivo evaluation. *Journal of liposome research*. 2021 Jan 2;31(1):19-29.
6. **Farouk F., et al.** Detection of Acinetobacter baumannii in fresh produce using modified magnetic nanoparticles and PCR *Analytical Biochemistry* 609 (2020): 113890.
7. **Farouk F. et al.** ioanalytical Comparison of Transdermal Delivery of Tizanidine from Different Nanovesicular Carriers. *Journal of Pharmaceutical Innovation* (2020): 1-7.
8. **Farouk F** and Niessen WM. Enhancing electrode sensitivity for detection of antibiotic contamination in water using functionalized magnetic nanoparticles. *SN Applied Sciences*. 2020 Mar; 2(3):1-9.
9. Ahmed IS, Rashed HM, Fayez H, **Farouk F**, Shamma RN. Nanoparticle-Mediated Dual Targeting: An Approach for Enhanced Baicalin Delivery to the Liver. *Pharmaceutics*. 2020 Feb; 12(2):107.
10. **Farouk F**, Abdelmageed M, Ansari MA, Azzazy HM. Synthesis of magnetic iron oxide nanoparticles using pulp and seed aqueous extract of Citrullus colocynth and evaluation of their antimicrobial activity. *Biotechnology Letters*. 2020 Feb 1;42(2):231-40.
11. ElKady EF, Abo-Elwafa AA, Farouk F. Bio-analytical methods for investigating the effect of age, body mass index and gender on the PK/PD ratio of antibiotics. *Biomedical Chromatography*. 2019 Nov 6:e4733.
12. **Farouk F, et al.** "Development and Validation of a New LC–MS/MS Analytical Method for Direct-Acting Antivirals and Its Application in End-Stage Renal Disease Patients." *European Journal of Drug Metabolism and Pharmacokinetics* 45.1 (2020): 89-99.
13. Khalil RM, Abdelbary A, Arini SK, Basha M, El-Hashemy HA, **Farouk F**. Development of tizanidine loaded aspasomes as transdermal delivery system: ex-vivo and in-vivo evaluation. *Journal of liposome research*. 2019 Nov 7:1-1.
14. El-Nabarawi MA, Shamma RN, **Farouk F**, Nasralla SM. Bilosomes as a novel carrier for the cutaneous delivery for dapsone as a potential treatment of acne: preparation, characterization and in vivo skin deposition assay. *Journal of Liposome Research*. 2020 Jan 2;30(1):1-1.
15. **Farouk F**, Shamma R. Chemical structure modifications and nano-technology applications for improving ADME-Tox properties, a review. *Archiv der Pharmazie*. 2019 Feb;352(2):1800213.
16. ElKady, Ehab F., and **Faten Farouk**. "Optimized bio-analytical methods development and comparative pharmacokinetic studies of four antidepressants in Egyptian population based on gender difference." *Journal of Chromatography B* 1102 (2018): 135-142.
17. Mahmoud, Azza A., **Faten Farouk** et al. "Bioavailability Enhancement of Aripiprazole Via Silicosan Particles: Preparation,



- Characterization and In vivo Evaluation." *AAPS PharmSciTech* (2018): 1-12.
18. Samir Shamma, **F. Farouk**, Hassan Azzazy, *Understanding Preanalytical Factors Affecting INR Results in Egyptian Patients on Maintenance Warfarin Therapy*. Understanding Preanalytical Factors Affecting INR Results in Egyptian Patients on Maintenance Warfarin Therapy
 19. Ghanem, N. M., **Farouk, F.**, George, R. F., Abbas, S. E., & El-Badry, O. M. (2018). Design and synthesis of novel imidazo [4, 5-b] pyridine based compounds as potent anticancer agents with CDK9 inhibitory activity. *Bioorganic chemistry*, 80, 565-576.
 20. **Farouk, F.**, Nabhan, S., Niessen, W. M., & Azzazy, H. M. (2018). LC–MS/MS assay for assessing medical adherence in patients under warfarin maintenance therapy. *Microchemical Journal*, 141, 135-140.
 21. Mahmoud, A. A., Salama, A. H., Shamma, R. N., & **Farouk, F.** (2018). Bioavailability Enhancement of Aripiprazole Via Silicosan Particles: Preparation, Characterization and In vivo Evaluation. *AAPS PharmSciTech*, 1-12.
 22. ElKady, E. F., Abo-Elwafa, A. A., & **Farouk, F.** (2018). Optimized bio-analytical methods development and comparative pharmacokinetic studies of four antidepressants in Egyptian population based on gender difference. *Journal of Chromatography B*.
 23. El-Nabarawi, M. A., Shamma, R. N., **Farouk, F.**, & Nasralla, S. M. (2018). Dapsone-Loaded Invasomes as a Potential Treatment of Acne: Preparation, Characterization, and In Vivo Skin Deposition Assay. *AAPS PharmSciTech*, 1-11.
 24. Rania Ibrahim Shebl, **F. Farouk**, Hassan Azzazy. *Effect of surface charge and hydrophobicity modulation on the antibacterial and antibiofilm potential of magnetic iron nano-particles*. *Journal of Nanomaterials*. (2017) 2017.
 25. **F. Farouk**, E.F. El Kady, H. Azzazy. *Simultaneous UPLC-MS/MS determination of antiepileptic agents for dose adjustment*. *Biomedical Chromatography*. 2016;e3921
 26. R. El Bagary, H. Azzazy, E. F. El Kady & **F. Farouk**, *Simultaneous determination of metformin, vildagliptin and 3-amino-1-adamantanol in human plasma: Application to pharmacokinetic studies*, *Journal of Liquid Chromatography & Related Technologies*, 39,4, 2016, 195-202.
 27. **F. Farouk**, H. M. E. Azzazy, E. El-Kady and Wilfried Niessen, *Challenges in determination of aminoglycosides antibiotics, a review*, *Analytica Chimica Acta*, 890, 2015, 21–43
 28. R. Elbagary, H. M. E. Azzazy, E. El-Kady and **F. Farouk**, *Simultaneous determination of sildenafil citrate and some nitric oxide*



- releasing drugs in human plasma using UPLC MS/MS; Clinical Biochemistry; 47(7-8)2014; 654–656.*
29. R. Elbagary, H. M. E. Azzazy, E. El-Kady and **F. Farouk**; *UPLC-MS/MS Determination of Aceclofenac and Diclofenac in Bulk, Dosage forms and in At-line Monitoring of Aceclofenac Synthesis*; British journal of Pharmaceutical research; 4 (11) 2014; 1311 – 31.
30. **F. Farouk**, B. A. Moussa and H. M. E. Azzazy; *visible spectrophotometric determination of repaglinide and rosiglitazone maleate using p-chloranilic acid in bulk and pharmaceutical dosage form* ;International journal of pharmacy and pharmaceutical sciences; 3(2); 2011; 142-145.
31. **F. Farouk**, H. M. E. Azzazy and Bahia Moussa; *FT-IR methods for the quantitative determination of repaglinide, rosiglitazone maleate, pioglitazone HCl, and metformin HCl in bulk and pharmaceutical dosage form*; Spectroscopy biomedical applications ; 26;2011; 297–309.
32. N. Demir and **F. Farouk**; *is designing a graduate level course challenging enough? ;* Procedia social and behavioral sciences; 9; 2010; 1220-1225.
33. B. A. Moussa, **F. Farouk**, H. M. E. Azzazy; *Validated RP-HPLC determination of recombinant human insulin in bulk and pharmaceutical dosage form*; E J Chem; 7(S1); 2010; 449-457.
34. F. Farouk; *Multivariate regression analysis for optimization of spectroscopic date and its application on anti-diabetic drugs*; under review.
35. other Publications and conferences
36. R. El Bagary, E. El-Kady, H. Azzazy, **F. Farouk**,; *Simultaneous determination of antidiabetic agents and their degradation products in tablets and plasma*; PBA annual symposium, Bologna, Italy, July 2013; poster presentation.
37. R. El Bagary, E. El-Kady, H. Azzazy, **F. Farouk**,; *Simultaneous determination of Sildenafil citrate and drugs affecting NO cycle in human plasma ;* PBA annual symposium, Bologna, Italy, July 2013; poster presentation.
38. N. Demir, **F. Farouk**, W. Wahbi; *Observing quality changes in Spanish mackerel steaks treated with various modified atmosphere conditions*; IFT annual meeting, New Orleans, LA from June 11 – June 14, 2011; poster presentation.
39. N. Demir and **F. Farouk**; *is designing a graduate level course challenging enough*; World conference on learning, teaching and administration; Egypt; 2010; poster presentation.