Cairo University
Faculty of Pharmacy

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Education

• Academic Degrees

PhD
In Analytical Chemistry, 2014, Faculty of Pharmacy, Cairo University.

Master
In Analytical Chemistry, 2010, Faculty of Pharmacy, Cairo University.

Bachelor
In Pharmacy, 2004, Faculty of Pharmacy, Cairo University.

• Research interest

Under my domain Pharmaceutical Anlytical Chemistry my field of experience includes spectrophotometry, chemometrics, Chromatography (HPLC), potentiometry and voltammetry. One of the main areas I focused is the employment of simple spectrophotometric technique for resolving multicomponent mixtures and development of simple yet affordable solutions other than commonly used costly HPLC, thus developing of new methods such as ratio difference, DWRS, ratio difference at isoabsorptive and coabsorptive points. Application of chemometrics to enhance selectivity of spectrophotometry and thus permit selective spectrophotometric determination of multicomponent mixtures. Fabrication of sensors utilizing electrochemistry including both; potentiometry (Ion-Selective electrode) and voltammetry, for the determination of drugs in different matrices and improvement of their selectivity via different techniques such as electrochemical deposition of doped polyaniline for surface modification. However still HPLC and its continually growing successor such as UF/HPLC and UPLC keeping their position in pharmaceutical analysis, especially in complex matrices such as biological, food and environmental analysis.

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Teaching

	Course Title
Undergraduate Courses (General Program)	601 General and Physical Chemistry, (Cairo University)
	602 Analytical Chemistry I, (Cairo University)
	603 Analytical Chemistry II, (Cairo University)
	604 Analytical Chemistry III, (Cairo University)
	605 Instrumental Analysis, (Cairo University)
	115 Quality Control and Quality Assurance, (Cairo University)
Undergraduate Courses (Clinical Program)	PC 101 Physical and Inorganic Chemistry, (Cairo University)
	PC 205 Pharmaceutical Analytical Chemistry-1, (Cairo University)
	PC 306 Pharmaceutical Analytical Chemistry-2, (Cairo University)
	PC 407 Instrumental Analysis, (Cairo University)
	PCE 12 Advanced Spectroscopic Analysis, (Cairo University)
Undergraduate Courses Lectures at *Other Universities*	
Ain Shams University (ASU)	
	PHA 12 Pharmaceutical Analytical Chemistry-I **(Ain Shams University) 2016**
	PHA 23 Pharmaceutical Analytical Chemistry-II **(Ain Shams University) 2016**
October 6 University (O6U)	
	PHC 101 General Chemistry **(October 6 University, Cairo, Egypt O6U) 2016**
	PHC 103 Pharmaceutical Analytical Chemistry-I **(October 6 University, Cairo, Egypt) 2016**
Badr University in Cairo (BUC)	PHC 1202 Qualitative Analytical Chemistry **(Badr University in Cairo BUC) 2016**

Postgraduate Courses	Teaching Diploma and Premaster courses for postgraduate students.
Scientific Workshop Training	High Performance Liquid Chromatography (HPLC) workshop (practical sessions) at Biotechnology center (BTC), Cairo University. Solid Phase Extraction (SPE) workshop (practical sessions) at Center of advanced research and application sciences (CARAS), Cairo University (2016). Liquid Chromatography- Method development session for R&D, QC, postgraduate and postdoc attendees at Center of advanced research and application sciences (CARAS), Cairo University (2016) repeated (2017).

Career History and Professional Experience

Titles	Lecturer of Analytical Chemistry, Faculty of Pharmacy, Cairo University. Lecturer of Analytical Chemistry, Faculty of Pharmacy, October 6th University. Faculty of Pharmacy Cairo University **Website** Committee Manger (2016).
Awards	Best Poster presentation (second place) in international conference "6th Black Sea Basin Conference on Analytical Chemistry" Best PhD thesis in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University, 2013.

International Publications and Journal Presentations [1–19][20–22][23][24][22, 23, 25–28]

1. Badawy AM, El-Aleem ABA, Saad AS (2010) Stability-indicating spectrophotometric methods for determination of tazarotene in the presence of its alkaline degradation product by derivative spectrophotometric techniques. Drug Test Anal 2:130–136. https://doi.org/10.1002/dta.109

2. Saad AS, Darwish HW, Badawy AM, El-aleem ABAEBA (2010) Stability-indicating chemometric methods for the determination of tazarotene. Drug Test Anal 2:357–361. https://doi.org/10.1002/dta.138

3. Saad AS, Elzanfaly ES, Abd-Elaleem A-EB (2013) A new application of the recently developed ratio difference spectrophotometric method for the determination of ternary mixtures with overlapping spectral data. In: 6th Black Sea Basin Conference on Analytical Chemistry. Trabzon, Turkey

4. Saad AS (2015) Novel spectrophotometric method for selective determination of compounds in ternary mixtures (dual wavelength in ratio spectra). Spectrochim Acta A Mol Biomol Spectrosc 147:257–61. https://doi.org/10.1016/j.saa.2015.03.095

5. Saad AS, Abo-Talib NF, El-Ghobashy MR (2015) Novel ratio difference at coabsorptive point spectrophotometric method for determination of components with wide variation in their absorptivities. Spectrochim Acta A Mol Biomol Spectrosc 152:480–484. https://doi.org/10.1016/j.saa.2015.07.099

6. Saad AS, Attia AK, Alaraki MS, Elzanfaly ES (2015) Comparative study on the selectivity of various spectrophotometric techniques for the determination of binary mixture of fenbendazole and rafoxanide. Spectrochim Acta - Part A Mol Biomol Spectrosc 150:682–690. https://doi.org/10.1016/j.saa.2015.05.098

7. Saad AS, Ismail NS, Soliman M, Zaazaa HE (2016) Validated stability-indicating RP-HPLC method for simultaneous determination of clorsulon and ivermectin employing plackett-burman experimental design for robustness testing. J AOAC Int 99:. https://doi.org/10.5740/jaoacint.15-0128

8. Saad AS, Hamdy AM, Salama FM, Abdelkawy MM (2016) Enhancing prediction power of chemometric models through manipulation of the fed spectrophotometric data: A comparative study. Spectrochim Acta A Mol Biomol Spectrosc 167:12–18. https://doi.org/10.1016/j.saa.2016.05.006

9. Darwish HW, Elzanfaly ES, Saad AS, Abdelaleem AE-B (2016) Full spectrum and selected spectrum based multivariate calibration methods for simultaneous determination of betamethasone dipropionate, clotrimazole and benzyl alcohol: development, validation and application on commercial dosage form. Spectrochim Acta Part A Mol Biomol Spectrosc Accepted M: https://doi.org/10.1016/j.saa.2016.06.001

10. Saad AS, Hamdy AM, Salama FM, Abdelkawy MMM (2016) Validated UPLC and TLC-densitometry stability indicating methods for determination of rafoxanide in presence of its degradation products. J Chromatogr Sci 54:1661–1669. https://doi.org/10.1093/chromsci/bmw112

11. Elzanfaly ES, Saad AS (2017) Green in-line ion selective electrode potentiometric method for determination of amantadine in dissolution media and in pharmaceutical formulations. ACS Sustain Chem Eng acssuschemeng.7b00421. https://doi.org/10.1021/acssuschemeng.7b00421

12. Badawy AM, Saad AS, Abd El-Aleem AE-AB (2010) Simultaneous determination of retinoic acid and hydroquinone in pharmaceutical formulations using spectrophotometric methods. In: 2nd Scientific Conference of Faculty of Pharmacy, Cairo University “Quality Assurance in Pharmacy Education.” Cairo, Egypt.

13. Darwish HW, Saad AS, Badawy AM, Abd El-Aleem AE-AB (2010) Stability indicating chemometric methods for determination of tazarotene in ternary mixture with its degradation products. In: 2nd Scientific Conference of Faculty of Pharmacy, Cairo University “Quality Assurance in Pharmacy Education.” Cairo, Egypt.

14. Elzanfaly ES, Saad AS, Abd El-Aleem AE-AB (2011) A simple validated spectrophotometric method for simultaneous determination of binary mixtures. In: Egyptian Pharmaceutical Society XXXII Conference of Pharmaceutical Sciences

15. Elzanfaly ES, Saad AS, Abd Elaleem AB (2012) Simultaneous determination of retinoic acid and hydroquinone in skin ointment using spectrophotometric technique (ratio difference method). Saudi Pharm J 20:249–253. https://doi.org/10.1016/j.jsps.2012.03.004

16. Elzanfaly ES, Saad AS, Abd Elaleem AB, et al (2012) A smart simple spectrophotometric method for simultaneous determination of binary mixtures. J Pharm Anal 2:382–385. https://doi.org/10.1016/j.jpha.2012.04.004

17. Elzanfaly ES, Saad AS, Abd-Elaleem A-EB (2012) Combining the isoabsorptive point in the ratio spectrum and the smart ratio difference methods for a single step determination of compounds with overlapped spectra. Spectrochim Acta - Part A Mol Biomol Spectrosc 95:. https://doi.org/10.1016/j.saa.2012.04.096

18. Elzanfaly ES, Saad AS, Abd Elaleem AB (2012) A novel simple method for resolving overlapped spectral data with a wide range of applicability , and its application as a stability indicating method for determination of tazarotene. Pharm Anal Acta 3:153–156. https://doi.org/10.4172/2153-2435.1000153

19. Elzanfaly ES, Saad AS, Abd El-Aleem AE-AB (2013) A green validated RP-HPLC method for simultaneous determination of brimonidine tartarate and timolol maleate in combined dosage form. In: 4th International Scientific Conference of Faculty of Pharmacy Entiteld “Pharmacy Education and Community Expectations.” Cairo, Egypt.

20. Saad AS, Mohamed MA, Koshek SH, El- MR (2017) Assessment of the oxidative degradation pathways for trifluoperazine hydrochloride and isopropamide iodide through a validated spe-hplc methods and application in human plasma. J Appl Pharm Biol Res 2:10–19

21. Saad AS, Naguib IA, Draz ME, et al (2017) Validated Analytical Methods for the Determination of Drugs Used in the Treatment of Hyperemesis Gravidarum in Multiple Formulations. J AOAC Int. https://doi.org/10.5740/jaoacint.17-0069

22. Attia AK, Saad AS, Alaraki MS, Elzanfaly ES (2017) Study of thermal analysis behavior of fenbendazole and rafoxanide. Adv Pharm Bull 7:. https://doi.org/10.15171/apb.2017.039

23. Saad AS, Alamein AMAA, Galal MM, Zaazaa HE (2018) Novel Green Potentiometric Method for the Determination of Lidocaine Hydrochloride and its Metabolite 2, 6-Dimethylaniline; Application to Pharmaceutical Dosage Form and Milk. Electroanalysis 30:. https://doi.org/10.1002/elan.201800132

24. Mohamed MA, Saad AS, Koshek SH, Elghobashy MR (2018) Smart Electrochemical Sensing Platform for the Simultaneous Determination of Psychotic Disorders Drugs Isopropamide Iodide and Trifluoperazine Hydrochloride. New J Chem. https://doi.org/10.1039/C8NJ01600C

25. Saad AS, Naguib IA, Draz ME, et al (2018) Validated Analytical Methods for the Determination of Drugs Used in the Treatment of Hyperemesis Gravidarum in Multiple Formulations. J AOAC Int 101:. https://doi.org/10.5740/jaoacint.17-0069

26. Abdalla OM, Abdel-Megied AM, Saad AS, Soliman SS (2018) Simultaneous spectrophotometric determination of compounds having relatively disparate absorbance and concentration ranges; application to antidiabetic formulation of linagliptin and metformin. Spectrochim Acta - Part A Mol Biomol Spectrosc 203:. https://doi.org/10.1016/j.saa.2018.05.064

27. Abou Al Alamein AM, Saad AS, Galal MM, Zaazaa HE (2018) A comparative study of different chromatographic techniques for determination of toxic impurities of some commonly used anesthetics. J Planar Chromatogr - Mod TLC 31:. https://doi.org/10.1556/1006.2018.31.4.3

28. Saad AS, AlAlamein AMA, Galal MM, Zaazaa HE (2018) Traditional versus advanced chemometric models for the impurity profiling of paracetamol and chlorzoxazone: Application to pure and pharmaceutical dosage forms. Spectrochim Acta - Part A Mol Biomol Spectrosc 205:. https://doi.org/10.1016/j.saa.2018.07.046