

Curriculum Vitae

Name: Mohamed Refaat EL-Sayed El-Ghobashy
Title: Professor Dr.
Department: Analytical Chemistry
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Education

• Academic Degrees

PhD

Ph. D. degree of Pharmaceutical Science (Analytical chemistry), (2006), Faculty of Pharmacy, Cairo University. The Title of thesis: Analytical study on some smooth muscle relaxant drugs.

Master

Master degree (M. Sc.) of Pharmaceutical Science (Analytical chemistry), (2003), Faculty of Pharmacy, Cairo University. The Title of thesis: Analytical study on some anti-inflammatory non-steroidal drugs.

Bachelor

Degree of Bachelor in Pharmaceutical Science (B. Pharm. Sci., 1996), excellent with honor degree, Faculty of Pharmacy, Cairo University.

• Research interest

Analysis of Pharmaceutical compounds utilizing different analytical techniques as Spectrophotometry, High performance liquid Chromatography, TLC-Densitometry and Ion selective electrodes.

Teaching

	Course Title
Undergraduate Courses (General Program)	602 Analytical Chemistry I
	601 General and Physical Chemistry
	603 Analytical Chemistry II
	604 Analytical Chemistry III
	605 Instrumental Analysis
	115 Quality Control and Quality Assurance
Undergraduate Courses (Clinical Program)	PC 205 Pharmaceutical Analytical Chemistry-1
	PC 306 Pharmaceutical Analytical Chemistry-2
	PC 101 Physical and Inorganic Chemistry
	PC 407 Instrumental Analysis
Postgraduate Courses	Advanced methods of instrumental analysis I, 1602 Diploma of Quality Control
	Advanced instrumental analysis II, 1604 Diploma of Quality Control
	Advanced methods of instrumental analysis, 2601 (Master)
	Separation Analysis Techniques, Code: 2604 (Master)
	Stability Indicating Methods of Analysis ,Code 2605 (Master)
	Functional Group Analysis, 2607 (Master)

Career History and Professional Experience

Titles

- Instructor in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University from 17/11/1996 to 5/8/2003.
- Teaching Assistant in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University from 6/8/2003 to 27/12/2006.
- Lecturer in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University from 27/12/2006 to 21/1/2012.
- Assistant Professor in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University from 21/1/2012 to 24/4/2017.
- Professor in Analytical Chemistry Department, Faculty of Pharmacy, Cairo University from 24/4/2017 until now.
- Professor in Analytical Chemistry Department, Faculty of Pharmacy, October 6 University from 1/10/2017 till now.
- Vice Dean for Graduate Studies & Research, Faculty of Pharmacy, October 6 University from 1/10/2018 till 5/7/2022.
- Acting Dean, Faculty of Pharmacy, October 6 University from 28/12/2020 till 31/1/2022.
- Dean, Faculty of Pharmacy, October 6 University from 1/2/2022.

Awards

Projects

Publications and Presentations

1. Y. S. El-Saharty, M. Refaat and S. Z. El-Khateeb "Stability-Indicating Spectrophotometric and Densitometric Methods for Determination of Aceclofenac." *Journal of Drug Development and Industrial Pharmacy*, (2002) Vol. 28 No. (5) page 571-582.
2. Y. S. El-Saharty, M. Refaat and S. Z. El-Khateeb "Simultaneous determination of Diclofenac Sodium and Diflunisal." *Bull. Fac. Pharm. Cairo Univ.*, (2002) Vol. 40 No. 3 page 47-64.
3. Y. S. El-Saharty, F.H. Metwaly, M. Refaat and S. Z. El-Khateeb "Application of a new membrane selective electrodes for the determination of drotaverine hydrochloride in tablets and plasma." *Journal of Pharmaceutical and Biomedical Analysis*, (2006) Vol. 41 page 720–724.

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4. Y. S. El-Saharty, F.H. Metwaly, M. Refaat and S. Z. El-Khateeb "Simultaneous determination of Hyoscine butylbromide and Ketoprofen in pharmaceutical preparations by spectrophotometric and HPLC methods." *Journal of AOAC INTERNATIONAL*, (2007) Vol. 90 No. 1 page 102-112.
5. F.H. Metwaly, Y. S. El-Saharty, M. Refaat and S. Z. El-Khateeb "Application of derivative, derivative ratio, multivariate spectral analysis and TLC-densitometric methods for determination of a ternary mixture containing drotaverine hydrochloride, caffeine and paracetamol." *Journal of AOAC INTERNATIONAL*, (2007) Vol. 90, No. 2 page 391-404.
6. Y. S. El-Saharty, F.H. Metwaly, M. Refaat and S. Z. El-Khateeb "Development of membrane electrodes for the selective determination of hyoscine butylbromide." *Talanta*, (2007) Vol. 72 No. 2 page 675-681.
7. F.H. Metwaly, Y. S. El-Saharty, M. Refaat and S. Z. El-Khateeb " Spectrophotometric Methods and Application of a New Membrane Selective Electrodes for the Simultaneous Determination of Mebeverine Hydrochloride and Sulpiride." *Bull. Fac. Pharm. Cairo Univ.*, (2007) Vol. 45 No. 3 page 13-29.
8. Nesrin Khamis, Hala El-Sayed Zaazaa, Maha Hegazy, Mohamed Refaat "Stability indicating TLC densitometric and chemometric methods for the simultaneous determination of etofibrate in its alkaline induced degradation products." *Az. J. Pharm. Sci.*, (2007) Vol. 36 page 23-37.
9. Mohamed R. El-Ghobashy, Nisreen F. Abo-Talib. "Application of derivative ratio and TLC-densitometric methods for determination of a ternary mixture containing metronidazole, diloxanide furoate and mebeverine hydrochloride." *Bull. Fac. Pharm. Cairo Univ.*, (2008) Vol. 46 No. 1 page 75-86.
10. M. R. El-Ghobashy, A. M. Yehia, and A. A. Mostafa " Stability indicating methods for the determination of pioglitazone hydrochloride in presence of its degradation product." *Bull. Fac. Pharm. Cairo Univ.*, (2008) Vol. 46 No. 2 page 25-34.
11. M. R. El-Ghobashy, A. M. Yehia, and A. A. Mostafa "Application of Membrane-Selective Electrodes for the Determination of Pioglitazone Hydrochloride in the Presence of Its Acid Degradant or Metformin Hydrochloride in Tablets and Plasma." *Analytical letters*, (2009) Vol. 42 No. 1 page 123-140.
12. Samah Sayed Abbas, Hala El-Sayed Zaazaa, Mohamed Refaat El-Ghobashy, Yasmin Mohammed Fayez*, Soheir Abdel Fattah "Stability Indicating Methods For Determination Of Ziprasidone Hydrochloride." *Analytical Chemistry: An Indian J.*, (2009) Vol. 8 No. 2.
13. Maha A. Hegazy, Mohamed R. El-Ghobashy, Ali M. Yehia and Azza A. Mostafa "Simultaneous determination of metformin hydrochloride and pioglitazone hydrochloride in binary mixture and in their ternary mixture with pioglitazone acid degradate using spectrophotometric and chemometric methods". *Drug Testing and Analysis J.*, (2009) Vol. 1 No. 7 page 339-349.
14. Nisreen F.Abo-Talib, Mohamed R.El-Ghobashy "Simultaneous Determination Of Pipenzolate Bromide And Phenobarbitone In Pharmaceutical Preparations By HPLC Method." *Analytical Chemistry: An Indian J.*, (2009) Vol. 8 No. 4 page 511-515.
15. Samah Sayed Abbas, Hala El-Sayed Zaazaa, Mohamed Refaat El-Ghobashy, Yasmin Mohammed Fayez, Soheir Abdel Fattah "Stability indicating methods for determination of nafronyl oxalate". *Analytical Chemistry: An Indian J.*, (2009) Vol. 8 No. 4 page 613-620.
16. Mohamed R. El-Ghobashy, Hala E. Zaazaa "Membrane electrodes for determination of two antihypertensive drugs in pharmaceutical formulations of either single or binary mixtures and in biological fluids". *Drug Discoveries & Therapeutics*, (2010) Vol. 4 No. (3) page 217-222.
17. Nouruddin W. Ali, Mohamed R. El-Ghobashy, Mohammed Gamal, Mohammed Abdelkawy "TLC-Spectrodensitometric And Microemulsion RP-HPLC Chromatographic Methods For Determination Of Orphenadrine And Paracetamol". *Analytical Chemistry: An Indian J.*, (2010) Vol. 9 No. 2 page 298-304.

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18. Mohamed R. El-Ghobashy, Nisreen F. Abo-Talib. "Spectrophotometric methods for the simultaneous determination of binary mixture of metronidazole and diloxanide furoate without prior separation". *Journal of Advanced Research*, (2010) Vol. 1 No. 4 page 323-329.
19. Nouruddin W. Ali, Mohamed R. El-Ghobashy, Mohammed Gamal, Mohammed Abdelkawy "SPECTROPHOTOMETRIC AND SPECTROFLUORIMETRIC METHODS FOR DETERMINATION OF RACECADOTRIL". *Pak. J. Pharm. Sci.*, (2011) Vol. 24, No.1 page 19-23.
20. Samah Sayed Abbas, Hala El-Sayed Zaazaa, Mohamed Refaat El-Ghobashy, Yasmin Mohammed Fayez, Soheir Abdel Fattah "Stability indicating methods for determination of Naftidrofuryl Oxalate". *Analytical Chemistry: An Indian J.*, (2012) Vol. 11 No. 11, 12 page 329-334.
21. Samah S. Abbas, Mohamed R. Elghobashy, Rafeek F. Shokry, Lories I. Bebawy "Stability indicating HPLC and spectrophotometric methods for the determination of bupropion hydrochloride in the presence of its alkaline degradates and related impurity" *Bull. Fac. Pharm. Cairo Univ.*, (2012) Vol. 50 No. 1 page 49-59.
22. Samah Sayed Abbas, Hala El-Sayed Zaazaa, Mohamed Refaat El-Ghobashy, Yasmin Mohammed Fayez, Soheir Abdel Fattah "Application of Membrane-Selective Electrodes for the Determination of Naftidrofuryl Oxalate in the Presence of Its Alkaline Degradant in Tablets and Plasma" *Portugaliae Electrochimica Acta.*, (2012) Vol. 30 No. 3 page 177-188.
23. Ghada AbdElHamid, Mohamed Refaat ElGhobashy, Eman Saad ElZanfaly, Sawsan Mohamed Amer and Sonia Zaki ElKhateeb "Ion Selective Membrane Electrodes for Stability-Indicating Determination of Amisulpride" *Anal. Bioanal. Electrochem.*, (2012) Vol. 4, No. 6 page 579 - 592.
24. Mohamed Refaat Elghobashy, Osama Mohamed Badran, Maissa Yacoub Salem and Khadiga Mohamed Kelani "Application of Membrane Selective Electrodes for the Determination of Azelastine Hydrochloride in the Presence of its Alkaline Degradant in Eye drops and Plasma" *Anal. Bioanal. Electrochem.*, (2013) Vol. 5, No. 3 page 325 - 340.
25. Mohamed Refaat Elghobashy, Osama Mohamed Badran, Maissa Yacoub Salem and Khadiga Mohamed Kelani "Simultaneous UV- spectrophotometric techniques for determination of chlorpheniramine maleate and naphazoline hydrochloride in eye drops". *Analytical Chemistry: An Indian J.*, (2013) Vol. 13 No. 2, page 69-76.
26. Mohamed R. Elghobashy, Lories I. Bebawy, Samah S. Abbas, Rafeek F. Shokry "Stability-Indicating HPLC and RP-TLC Determination of Cefpirome Sulfate with Kinetic Study" *Chromatographia*, (2013) Vol. 76, No.17-18, page 1141-1151.
27. Mohamed R. Elghobashy and Mamdouh R. Rezk "Comparative Study of Different Ionophores in Ion Selective Electrodes for Stability indicating Determination of Moxifloxacin" *Anal. Bioanal. Electrochem.*, (2014) Vol 6, No. 4, page 461-474
28. Mohamed Refaat Elghobashy, Osama Mohamed Badran, Maissa Yacoub Salem and Khadiga Mohamed Kelani "Stability indicating spectrophotometric and chromatographic methods for the determination of azelastine hydrochloride in presence of its alkaline degradant" *Analytical Chemistry: An Indian J.*, (2014) Vol. 14 No. 4.
29. Maha M. Abdelrahman, Ibrahim A. Naguib, Mohamed R. El Ghobashy, Nesma A. Ali "Quantitative determination of Zopiclone and its impurity by four different Spectrophotometric methods" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscop (SAA)*, (2015) Vol. 137, page 617-624.

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30. Mohamed R. Elghobashy, Amr M. Mahmoud, Mamdouh R. Rezk, and Mohamed K. Abd El-Rahman "Strategy for Fabrication of Stable Tramadol Solid-Contact Ion-Selective Potentiometric Sensor Based on Polyaniline Nanoparticles" *J. Electrochem. Soc.*, (2015) Vol. 162, No. 1, page H1-H5.
31. Mohamed K. Abd El-Rahman, Mamdouh R. Rezk, Amr M. Mahmoud and Mohamed R. Elghobashy "Design of a Stable Solid-Contact Ion-Selective Electrode based on Polyaniline Nanoparticles as Ion-to-Electron Transducer for Application in Process Analytical Technology as a Real-Time Analyzer" *Sensors and Actuators B: Chemical*, (2015) Vol. 208, No. 3, pages 14–21.
32. Nesma A. Ali, Maha M. Abdelrahman, Ibrahim A. Naguib and Mohamed R. Elghobashy "Development of membrane electrode for the selective determination of bromazepam in tablets and plasma " *Anal. Bioanal. Electrochem.*, (2015) Vol. 7, No. 2, page 242-253.
33. Samah S. Abbas, Mohamed R. Elghobashy, Lories I. Bebawy and Rafeek F. Shokry "Stability-indicating chromatographic determination of hydroquinone in combination with tretinoin and fluocinolone acetonide in pharmaceutical formulation with photodegradation kinetic study" *RSC Advances*, (2015) Vol. 5, No. 54, page 43178-43194.
34. Ibrahim A. Naguib, Maha M. Abdelrahman, Mohamed R. El Ghobashy and Nesma A. Ali "HPTLC Method for Quantitative Determination of Zopiclone and Its Impurity" *Journal of Chromatographic Science*, (2015) Vol. 53, No. 8, page 1395-1399.
35. Amr M. Mahmoud, Mohamed K. Abd El-Rahman, Mohamed R. Elghobashy and Mamdouh R. Rezk "Carbon nanotubes versus polyaniline nanoparticles; which transducer offers more opportunities designing a stable solid contact ion-selective electrode" *Journal of Electroanalytical Chemistry*, (2015) Vol. 755, page 122-126.
36. Ahmed S. Saad, Nisreen F. Abo-Talib and Mohamed R. El-Ghobashy "Novel ratio difference at coabsorptive point spectrophotometric method for determination of components with wide variation in their absorptivities" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (SAA)*, (2016) Vol. 152, page 480-484.
37. Mohamed R. Elghobashy, Lories I. Bebawy, Rafeek F. Shokry and Samah S. Abbas "Successive ratio subtraction coupled with constant multiplication spectrophotometric method for determination of hydroquinone in complex mixture with its degradation products, tretinoin and methyl paraben" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (SAA)*, (2016) Vol. 157, page 116-123.
38. Lories I. Bebawy, Mohamed R. Elghobashy, Samah S. Abbas, and Rafeek F. Shokry "Chromatographic Determination of Aminoacridine Hydrochloride, Lidocaine Hydrochloride and Lidocaine Toxic Impurity in Oral Gel" *Journal of Chromatographic Science*, (2016) Vol. 54, No. 4, page 492-499.
39. Mohamed R. Elghobashy, Yasmine M. Fayez, Zeinab M. Goda, Mostafa A. Shehata "HPLC and TLC chromatographic methods for simultaneous determination of binary mixture of isoconazole nitrate and diflucortolone valerate" *Bull. Fac. Pharm. Cairo Univ.*, (2016), Vol. 54 No. 1 page 33-37.
40. Yasmine M. Fayez, Mohamed R. Elghobashy, Zeinab M. Goda, Mostafa A. Shehata "Comparative study on four spectrophotometric methods manipulating ratio spectra for simultaneous determination of binary mixture of diflucortolone valerate and isoconazole nitrate" *Bull. Fac. Pharm. Cairo Univ.*, (2016), Vol. 54 No. 1 page 39-47.
41. Ibrahim A. Naguib, Maha M. Abdelrahman, Mohamed R. El Ghobashy and Nesma A. Ali "Least squares regression and spectral residual augmented classical least squares chemometric models for stability indicating analysis of agomelatine and its degradation products: A comparative study" *Journal of AOAC INTERNATIONAL*, (2016) Vol. 99, No. 2 page ..

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42. Ahmed Aqeel Al-Shibly, Hany Hunter Monir, Mohamed Refaat El-Ghobashy and Sawsan Mohamed Amer "Determination of binary mixture of ibuprofen and famotidine by different spectrophotometric methods" *European Journal of Chemistry*, (2016) Vol. 7, No. 2, page 161-165.
43. Nehal Farid Farid, Ibrahim Ahmed Naguib, Radwa Saeed Moatamed and Mohamed Refaat El-Ghobashy "Development and validation of spectrofluorimetric method for determination of diflunisal and its impurity" *European Journal of Chemistry*, (2016) Vol. 7, No. 2, page 2011-205.
44. Mohamed R. Elghobashy, Nancy W. Nashat, Samah S. Abbasa and Azza A. Moustafaa "Determination of aliskiren hemifumarate and amlodipine besylate in their combined dosage form by different spectrophotometric methods" *Current Pharmaceutical Analysis*, (2016) Vol. 12, No. 4 page 391-398.
45. Mohammed Gamal, Nouruddin W. Ali, Mohammed R. Elghobashy and Mohammed Abdelkawy "Simultaneous Determination of Ternary Mixture of Aspirin, Caffeine and Orphenadrine Citrate by Simple RP-TLC Spectrodensitometric Method" *British Journal of Pharmaceutical Research* (2016) Vol. 14, No. 4 page 1-11.
46. Maya Shaaban Eissa, Eman Darweish, Mohammed Refaat Elghobashy, Mostafa Abdelaty Shehata "UV spectrophotometric methods for the simultaneous determination of amoxicillin and flucloxacillin." *Az. J. Pharm. Sci.*, (2016) Vol. 54 page 176-189
47. Maya Shaaban Eissa, Israa Mamdouh Nour, Mohammed Refaat Elghobashy, Mostafa Abdelaty Shehata "Validated spectrophotometric methods for simultaneous determination of brinzolamide and timolol maleate in their pure form and ophthalmic preparation." *Az. J. Pharm. Sci.*, (2016) Vol. 54 page 190-204
48. Nehal Farid Farid, Ibrahim Ahmed Naguib, Radwa Saeed Moatamed and Mohamed Refaat El-Ghobashy "TLC-Densitometric and RP-HPLC Methods for Simultaneous Determination of Dexamethasone and Chlorpheniramine Maleate in the Presence of Methylparaben and Propylparaben." *Journal of AOAC INTERNATIONAL* (2017) Vol. 100, No. 1 page 51-58.
49. Nisreen F. Abo-Talib, Mohamed R. El-Ghobashy, Marwa H. Tammam "Spectrophotometric Methods for Simultaneous Determination of Sofosbuvir and Ledipasvir (HARVONI Tablet): Comparative Study with Two Generic Products" *Journal of AOAC INTERNATIONAL* (2017) Vol. 100, No. 4 page 976-984.
50. Rafeek F. Shokry, Lories I. Bebawy, Mohamed R. Elghobashy, Samah S. Abbas "Comparative stability-indicating chromatographic methods for determination of 4-Hexylresorcinol in pharmaceutical formulation and shrimps." *Journal of Pharmaceutical and Biomedical Analysis* (2017) 145 page 386–398.
51. Ahmed S. Saad, Mona A. Mohamed, Sara H. Koshek, Mohamed R. El-Ghobashy "Assessment of the oxidative degradation pathways for Trifluoperazine hydrochloride and isopropamide iodide through a validated SPE-HPLC methods and application in human plasma." *International journal of Applied Pharmaceutical and Biological Research* (2017) Vol.2 No. 5 page 10–19.
52. Maya Shaaban Eissa, Israa Mamdouh Nour, Mohammed Refaat Elghobashy, Mostafa Abdelaty Shehata "Validated TLC-densitometry method for simultaneous determination of brinzolamide and timolol maleate in their ophthalmic preparation." *Analytical Chemistry letters*, (2017) Vol.7 No. 6 page 805-812.
53. Mohamed R. El-ghobashy, Ali M. Yehia, Aya H. Helmy, Nadia F. Youssef "Application of normal fluorescence and stability-indicating derivative synchronous fluorescence spectroscopy for the determination of gliquidone in presence of its fluorescent alkaline degradation product". *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (SAA), (2018) Vol. 188, page 619-625.
54. Maha M. Abdelrahman, Ibrahim A. Naguib, Mohamed R. El Ghobashy, Nesma A. Ali "Stability indicating HPLC and HPTLC methods for determination of agomelatine and its degradation products" *Journal of Chromatographic Science*, (2018) Vol. 56, No. 4, page 317-326.

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55. Sherif M. Eid, Mohamed K. Abd El-Rahman, Mohamed R. Elghobashy, Khadiga M. Kelani "Attenuated Total Reflectance Fourier Transformation Infrared Spectroscopy Fingerprinted Online monitoring of the kinetics of Circulating Butyrylcholinesterase enzyme during metabolism of bambuterol." *Analytica Chimica Acta*, (2018) Vol. 1005, page 70-80.
56. Maya Shaaban Eissa, Eman Darweish, Mohammed Refaat Elghobashy, Mostafa Abdelaty Shehata "Analytical Application of Different Spectrophotometric Methods for Simultaneous Determination of Norfloxacin and Tinidazole in their Pure Forms and their Pharmaceutical Preparation." *Der Pharma Chemica*, (2018) Vol. 10, No. 2, page 79-86
57. Maya Shaaban Eissa, Eman Darweish, Mohammed Refaat Elghobashy, Mostafa Abdelaty Shehata "Rapid Selective TLC-Densitometry Method for Simultaneous Determination of Amoxicillin and Flucloxacillin in their Pure Forms or in their Pharmaceutical Preparation." *Analytical Chemistry letters*, (2018) Vol.8 No. 2 page 188-194.
58. Ali M. Yehia, Mohamed Refaat El-ghobashy, Aya Hosam Helmy, Nadia F. Youssef "Chromatographic separation of vildagliptin and L-proline as in-process impurity with application of Youden's test and statistical analysis for robustness testing of HPLC method". *Separation Science Plus*,(2018) Vol.1 No. 5 page 395-403.
59. Ali M. Yehia, Mohamed R. El-ghobashy, Aya H. Helmy, Nadia F. Youssef "Stability testing followed by manipulating mean centering of ratio spectra and derivative ratio spectrophotometric methods for the determination of gliquidone in presence of its induced degradation products." *Analytical Chemistry letters* (2018) Vol.8 No. 3 page 348-360.
60. Mohamed Refaat El-ghobashy, Ali Mohamed Yehia, Aya Helmy Helmy, Nadia Fayek Youssef "Forced degradation of gliquidone and development of validated stability-indicating HPLC and TLC methods". *Brazilian Journal of Pharmaceutical Sciences*, (2018) Vol.54 No. 3 page e00223
61. Mona A. Mohamed, Ahmed S. Saad, Sara H. Kosheka, Mohamed R. El-Ghobashy "Smart Electrochemical Sensing Platform for the Simultaneous Determination of Psychotic Disorders Drugs Isopropamide Iodide and Trifluoperazine Hydrochloride". *New Journal of Chemistry*, (2018) Vol.42 No.12 page 9911-9919.
62. Ahmed S. Saad, Mohamed R. El-Ghobashy, Nada S. Ayish, Badr A. El-Zeanya "ISE-potentiometric sensor for the determination of zolmitriptan: Application in plasma, pharmaceutical formulation and in-vitro release profile". *New Journal of Chemistry*, (2018) Vol.42 No.18 page 15263-15269.
63. Ali Mohamed Yehia, Mohamed Refaat El-ghobashy, Aya Hosam Helmy, Nadia Fayek Youssef "Functionalized β -cyclodextrin-based Potentiometric Membrane for the Selective Determination of Vildagliptin in Presence of its In-process Impurity". *Anal. Bioanal. Electrochem.*, (2018) Vol. 10, No. 11 page 1414- 1425.
64. Mohamed K. Abd El-Rahman, Sherif M. Eid, Mohamed R. Elghobashy, Khadiga M. Kelani "Inline potentiometric monitoring of Butyrylcholinesterase activity based on metabolism of bambuterol at the point of care" *Sensors and Actuators B: Chemical*, (2019) Vol. 285, pages 216–223.
65. Ahmed S. Saad, Mohamed R. El-Ghobashy, Nada S. Ayish, Badr A. El-Zeany "Greenness assessment as per Eco-scale and AMVI metrics for the chromatographic assay of selected drugs in a semisolid dosage form and in tissues" *Chemical Papers*, (2019) Vol. 73, No. 3 page 683-691.
66. Ibrahim A. Naguib, Nesma Abo Elyazeed, Fadwa A. Elroby, Mohamed R. El-Ghobashy "Stability indicating spectrophotometric methods for quantitative determination of Carbamazepine and its degradation product, Iminostilbene, in pure form and pharmaceutical formulations". *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (SAA)*, (2019) Vol. 214, page 21-31.

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67. Khadiga M. Kelani, Mamdouh R. Rezk, Osama M. Badranb, Mohamed R. Elghobashy “Determination of pioglitazone, its metabolite and alogliptin in human plasma by a novel LC-MS/MS method; application to a pharmacokinetic study”. *Journal of Chromatography B*, (2019) Vol. 1132, 121803
68. Sherif M. Eida, Shymaa S. Soliman, Mohamed R. Elghobashy, Ola M. Abdalla “ATR-FTIR coupled with Chemometrics for quantification of vildagliptin and metformin in pharmaceutical combinations having diverged concentration ranges”. *Vibrational Spectroscopy* (2020) Vol. 106, 102995
69. Faisal K. Algethami, Sherif M. Eid, Khadiga M. Kelani, Mohamed R. Elghobashy, Mohamed K. Abd El-Rahman “Chemical Fingerprinting and quantitative monitoring of the doping drugs bambuterol and terbutaline in human urine samples from ATR-FTIR data using PLSR chemometric tool”. *RSC Advances*, (2020) Vol. 10, No. 12, page 7146-7154.
70. Sherif M. Eid, Khadiga M. Kelani, Osama M. Badran, Mamdouh R. Rezk, Mohamed R. Elghobashy “Surface enhanced infrared absorption spectroscopy (SEIRA) as a green analytical chemistry approach: Coating of recycled aluminum TLC sheets with citrate capped silver nanoparticles for chemometric quantitative analysis of ternary mixtures as a green alternative to the traditional methods.” *Analytica Chimica Acta*, (2020) Vol. 1117, page 60-73.
71. Hany W. Darwish, Nesma A. Ali, Ibrahim A. Naguib, Mohamed R. El Ghobashy, Abdullah M. Al-Hossaini, Maha M. Abdelrahman “Stability Indicating Spectrophotometric Methods for Quantitative Determination of Bromazepam and its Degradation Product”. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (SAA)*, (2020) Vol. 238, 118433.
72. Maya S. Eissa, Eman Darweish, Mohammed R. Elghobashy, Mostafa A. Shehata “Chromatographic Separation of the Novel Hypoglycemic Drug Mitiglinide in its Bulk Powder and Pharmaceutical Formulation: Forced Degradation and Validated Stability-Indicating HPTLC/Densitometry and HPLC/UV Methods”. *Journal of AOAC INTERNATIONAL* (2020) Vol. 103, No. 3 page 736-742.
73. Said A. Hassan, Nancy W. Nashat, Mohamed R. Elghobashy, Samah S. Abbas, Azza A. Moustafa “Stability indicating RP- HPLC and CE methods for simultaneous determination of bisoprolol and perindopril in pharmaceutical formulation: A comparative study”. *Journal of Chromatographic Science*, (2020) Vol. 58 No. 8, page 747-758.
74. Ibrahim A. Naguib, Nesma A. Ali, Fadwa A. Elroby, Mohamed R. El Ghobashy, Fatma F. Abdallah “Validation and Eco-scale assessment of Stability Indicating HPTLC method for Quantitative Analysis of Carbamazepine and its related substance; Iminostilbene, in Pure forms, Pharmaceutical Preparations and Spiked Human Plasma”. *JPC - Journal of Planar Chromatography*, (2020) Vol. 33 No. 3, page 219-229.
75. Ibrahim A Naguib, Nesma A Ali, Fadwa A Elroby, Mohamed R El Ghobashy, Fatma F Abdallah “US FDA-validated green GC–MS method for analysis of gabapentin, tramadol and/or amitriptyline mixtures in biological fluids”. *Bioanalysis*, (2020) Vol. 12 No. 21, page 1521-1533.
76. Atiah H. Almalki, Nesma A. Ali, Fadwa A. Elroby, Mohamed R. El Ghobashy, Aml A. Emam, Ibrahim A. Naguib “ESI–LC–MS/MS for therapeutic drug-monitoring of binary mixture of Pregabalin and Tramadol: Human Plasma and Urine Applications”. *Separations*, (2021) Vol. 8 No. 2 (21), page 1-20.
77. Ibrahim A. Naguib, Nesma A. Ali, Fadwa A. Elroby, Mohamed R. El Ghobashy, Fatma F. Abdallah “Ecologically-evaluated and FDA-validated HPTLC Method for Assay of Pregabalin and Tramadol in Human Biological Fluids”. *Biomedical Chromatography*, (2021) Vol. 35 No. 4, page 1-10.
78. Hany W. Darwish, Nesma A. Ali, Ibrahim A. Naguib, Mohamed R. El Ghobashy, Abdullah M. Al-Hossaini, Maha M. Abdelrahman “Development and Validation of a Stability Indicating RP-HPLC-DAD Method for the Determination of Bromazepam”. *PLOS ONE*, (2021) 3, page 1-12. <https://doi.org/10.1371/journal.pone.0244951>.

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