



[wafaa.mohamed@pharm.bsu.edu.eg](mailto:wafaa.mohamed@pharm.bsu.edu.eg)

[wrabeeaz@yahoo.com](mailto:wrabeeaz@yahoo.com)

Mobile: +201002930616

Website:

[https://www.researchgate.net/profile/Wafaa\\_Mohamed5/info](https://www.researchgate.net/profile/Wafaa_Mohamed5/info)

## Wafaa Rabee Mohamed, Ph.D

### Personal Data

*Nationality* Egyptian  
*Date of Birth* 10 August 1983  
*Contact address* 260 Samira Mosa St. – The First District – East of the Nile- Beni- Suef, Egypt

### Education

- 2012 – 2015 Ph.D, Beni-Suef University, Faculty of Pharmacy**  
 PhD degree in Pharmaceutical Sciences, Title: "Pharmacological Study on the Possible Protective Effects of Certain Antioxidants against Cisplatin-Induced Hepatotoxicity and Nephrotoxicity".
- 2007 – 2012 M.Sc., Beni-Suef University, Faculty of Pharmacy**  
 Master degree in Pharmaceutical Sciences, Pharmacology and Toxicology. Title: "Pharmacological study of the possible interaction between certain antidiabetic and antianxiety drugs in experimentally-induced diabetic animals".
- 2006 – 2007 Pre-Master Courses, Cairo University, Faculty of Pharmacy**  
 Successfully completed the general Pre-Master courses (Statistics, Computer Sciences, and English Language) and special courses of Pharmacology and Toxicology department (Pathophysiology, Immunopharmacology, Bioassay, Toxicometrics) with a general grade of "Excellent"
- May 2005 B.Sc., Cairo University, Beni-Suef campus, Faculty of Pharmacy**  
 Bachelor degree of Pharmaceutical Sciences with a general grade of "Excellent with Honors".

### Work & Research Experience

- 2024-current** Dean of Laser Institute for Research and Applications, Beni-Suef University, Egypt.
- 2022-2024** Vice-Dean of Postgraduate Studies and Research Affairs at Laser Institute for Research and Applications, Beni-Suef University, Egypt.
- 2020-2022** Vice-Dean of Community Service and Environmental Development Affairs at Laser Institute for Research and Applications, Beni-Suef University,

Egypt.

2020-2022	Pharm D program coordinator at Faculty of Pharmacy, Beni-Suef University, Egypt.
2020 -current	Associate Professor - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Beni-Suef University, Egypt
2015 – 2020	Lecturer of Pharmacology and Toxicology Faculty of Pharmacy, Beni-Suef University, Egypt.
2012– 2015	Assistant Lecturer of Pharmacology and Toxicology at Beni-Suef University, Faculty of Pharmacy , Egypt
2005 –2012	Instructor and teaching assistant of Pharmacology & Toxicology Faculty of Pharmacy, Cairo University, Beni-Suef campus, Egypt.

## Teaching Experience

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Participated in teaching the following classes organized by the Pharmacology and Toxicology Department For:

### Postgraduate pharmacy students:

- Pathophysiology
- Pharmacometrics
- Toxicometrics
- Experimental Pharmacology
- Clinical Pharmacology
- Biostatistics

### Undergraduate Pharmacy Students:

- Medical Terminology
- Basic pharmacology
- Pharmacology 1
- Pharmacology 2
- Pharmacology 3
- Toxicology
- Chemotherapeutic, hormones and anticancer drugs
- Drug Interactions
- Clinical Pharmacology
- Bioassay and Biostatistics
- First Aid
- Biological Standardization

Participated in teaching the following courses organized by the Laser Institute for Research and Applications for Laser Diploma and Master Students

- Photobiology

- Biostatistics

## Skills & Activities

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*Research Skills* Cancer Biology, Cell Signaling, Cancer Chemoprevention, Clinical Toxicology, Cell Culture, Western blot, PCR, Gene Expression, Apoptosis, Molecular Mechanisms of Pharmacological Action, In Vitro Pharmacology, Clinical Pharmacology, Medicinal Plants and Herbs, Laser Applications in Biology, and Nanotechnology.

*Languages* Arabic (native)  
English (fluent)

*Scientific Memberships* The General Syndicate of Pharmacists in Egypt  
The Egyptian Association of Pharmacists  
Cairo University Staff Association.

*Areas of Professional Interests* Diabetes mellitus and anti-diabetic agents  
Molecular mechanisms of anticancer drugs  
Molecular pharmacology as a basis for drug development  
Oxidative stress and antioxidant implication in the pathophysiology of many clinical disorders  
Neuropharmacology  
Laser applications in biology  
Nanotechnology application in biology

*Activities*

- Member of Community Service and Environmental Development Affairs Committee, Faculty of Pharmacy, Beni-Suef University from 2018- 2020.
- Member of Student and Education Affairs Committee, Faculty of Pharmacy, Beni-Suef University from 2020- 2022.
- Director of Crisis and Disaster Management Unit, Faculty of Pharmacy, Beni-Suef University from 2018- 2020
- Member of Institutional Animal Care and Use Committee, Faculty of Pharmacy, Beni-Suef University from 2018- now
- Member of Performance Evaluation and Quality Assurance unit, Faculty of Pharmacy, Beni-Suef University from 2018- now
- Supervisor of Laser Applications in Biology laboratory, Laser Institute for Research and Applications, Beni-Suef University from February 2020- now

## Thesis

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1. **Wafaa R. Mohamed (2012).** "Pharmacological study of the possible interactions between certain antidiabetic and antianxiety drugs in experimentally-induced diabetic animals". Thesis Submitted for M. Sc. degree, Faculty of Pharmacy, Beni-Suef University.
2. **Wafaa R. Mohamed (2015).** "Pharmacological Study on the Possible Protective Effects of Certain Antioxidants against Cisplatin-Induced Hepatotoxicity and Nephrotoxicity". Thesis Submitted for PhD degree, Faculty of Pharmacy, Beni-Suef University.

## Publications

Research interest score: 592.0

Citation Metrics	Bibliographic Database	
	Scopus <sup>(Link)</sup>	Google Scholar <sup>(Link)</sup>
Sum of times cited	943	1158
<i>h</i> -index	16	17

## Research Publications

1. Ali GF, Hassanein EHM, **Mohamed WR**. Molecular mechanisms underlying methotrexate-induced intestinal injury and protective strategies. *Naunyn Schmiedeberg's Arch Pharmacol*. 2024 Nov;397(11):8165-8188.
2. Sleem M, Aboubakr EM, **Mohamed WR**, Khalil AM, Messiha BAS, Taye A. Potential roles for eNOS and Nrf2 /HO-1 signaling in the ameliorative effect of lixisenatide on diabetes-induced kidney injury in rats and its amplification by ticagrelor co-administration. *Pharmazie*. 2024 Oct 1;79(9):187-194.
3. Sleem M, Aboubakr EM, **Mohamed WR**, Messiha BAS, Taye A. Ameliorative effect of lixisenatide on diabetic cardiovascular damage and its enhancement via ticagrelor co-administration in rats: possible role of eNOS and Nrf2 /HO-1 signaling. *Pharmazie*. 2024 Jun 1;79(6):101-108.
4. Abdel-Reheim MA, Ali GF, Hassanein EHM, **Mohamed WR**. Role of Nrf2/HO-1, PPAR- $\gamma$ , and cytoglobin signals in the pathogenesis of methotrexate-induced testicular intoxication in rats and the protective effect of diacerein. *Naunyn Schmiedeberg's Arch Pharmacol*. 2024 Jun;397(6):4235-4246.
5. Arafa EA, Hassanein EHM, Ibrahim NA, Buabeid MA, **Mohamed WR**. Involvement of Nrf2-PPAR- $\gamma$  signaling in Coenzyme Q10 protecting effect against methotrexate-induced testicular oxidative damage. *Int Immunopharmacol*. 2024 Mar 10;129:111566.
6. Shafiey SI, Ahmed KA, Abo-Saif AA, Abo-Youssef AM, **Mohamed WR**. Galantamine mitigates testicular injury and disturbed spermatogenesis in adjuvant arthritic rats via modulating apoptosis, inflammatory signals, and IL-6/JAK/STAT3/SOCS3 signaling. *Inflammopharmacology*. 2024 Feb;32(1):405-418.
7. Mahmoud N, **Mohamed WR**, Mohamed T, Femtosecond laser-induced fluorescence for rapid monitoring of cardiac troponin 1 as a cardiovascular disease biomarker. *Spectrochim Acta A Mol Biomol Spectrosc*. 2024; 305:123491.
8. Mores MG, Fikry EM, El-Gendy AO, **Mohamed WR**, Badary OA, Probiotics mixture and taurine attenuate L-arginine-induced acute pancreatitis in rats: Impact on transient receptor potential vanilloid-1 (TRPV-1)/IL-33/NF- $\kappa$ B signaling and apoptosis. *Tissue Cell*. 2023; 85:102234.

9. Mahdy MS, Azmy AF, Dishisha T, **Mohamed WR**, Ahmed KA, Hassan A, Aidy SE, El-Gendy AO, Irinotecan-gut microbiota interactions and the capability of probiotics to mitigate Irinotecan-associated toxicity, *BMC Microbiol.*, 2023; 23(1):53.
10. Abdel-Fattah MM, Abo-El Fetoh ME, Afify H, Ramadan LAA, **Mohamed WR**, Probenecid ameliorates testosterone-induced benign prostatic hyperplasia: Implications of PGE-2 on ADAM-17/EGFR/ERK1/2 signaling cascade. *J Biochem Mol Toxicol*, 2023; 37(11):e23450.
11. Abo-El Fetoh ME, Abdel-Fattah MM, Afify H, Ramadan LAA, **Mohamed WR**, Review on EGFR-ERK1/2 signaling cascade: implications on cell proliferation in health and disease. *Egyptian Pharmaceutical Journal*, 2023; 22(4): 535–544
12. Abdel-Fattah MM, **Mohamed WR**, Hassanein EHM, Arab HA, Arafa EA, Role of NF- $\kappa$ B/ICAM-1, JAK/STAT-3, and apoptosis signaling in the anticancer effect of tangeretin against urethane-induced lung cancer in BALB/c mice. *Life Sci*, 2023; 325:121749.
13. Arafa EA, Elgendy NO, Elhemely MA, Abdelaleem EA, **Mohamed WR**, Diosmin mitigates dexamethasone-induced osteoporosis in vivo: Role of Runx2, RANKL/OPG, and oxidative stress. *Biomed Pharmacother.* 2023; 161:114461.
14. Abdel-Fattah MM, Hassanein EHM, Sayed AM, Alsufyani SE, El-Sheikh AAK, Arab HH, **Mohamed WR**, Targeting SIRT1/FoxO3a/Nrf2 and PI3K/AKT Pathways with Rebamipide Attenuates Acetic Acid-Induced Colitis in Rats. *Pharmaceuticals*, 2023; 16(4):533.
15. Hassanein EHM, **Mohamed WR**, Hussein RM, Arafa EA, Edaravone alleviates methotrexate-induced testicular injury in rats: Implications on inflammation, steroidogenesis, and Akt/p53 signaling. *Int Immunopharmacol.*, 2023; 117:109969.
16. Taha S, **Mohamed WR**, Elhemely MA, El-Gendy AO, Mohamed T, Tunable femtosecond laser suppresses the proliferation of breast cancer in vitro. *J Photochem Photobiol B.*, 2023; 240:112665.
17. Abo-El Fetoh ME, Abdel-Fattah MM, **Mohamed WR**, Ramadan LAA, Afify H, Cyclooxygenase-2 activates EGFR-ERK1/2 pathway via PGE2-mediated ADAM-17 signaling in testosterone-induced benign prostatic hyperplasia. *Inflammopharmacology*, 2023; 31(1):499-516.
18. Hussein RM, Arafa EA, Raheem SA, **Mohamed WR**, Thymol protects against bleomycin-induced pulmonary fibrosis via abrogation of oxidative stress, inflammation, and modulation of miR-29a/TGF- $\beta$  and PI3K/Akt signaling in mice, *Life Sci.*, 2023; 314:121256.
19. Shafiey SI, Abo-Saif AA, Abo-Youssef AM, **Mohamed WR**, Protective effects of rivaroxaban against cisplatin-induced testicular damage in rats: Impact on oxidative stress, coagulation, and p-NF- $\kappa$ B/VCAM-1 signaling. *Food Chem Toxicol*, 2022; 169:113419.
20. Mohamed AE, Mahmoud AM, **Mohamed WR**, Mohamed T, Femtosecond laser attenuates oxidative stress, inflammation, and liver fibrosis in rats: Possible role of PPAR $\gamma$  and Nrf2/HO-1 signaling. *Life Sci.*, 2022; 15(307):120877.

21. Hassanein EHM, **Mohamed WR**, Ahmed OS, Abdel-Daim MM, Sayed AM, The role of inflammation in cadmium nephrotoxicity: NF- $\kappa$ B comes into view, *Life Sciences*, 2022; 308: 120971
22. Ahmed LA, Sayed RH, **Mohamed WR**, Arafa EA, Safety of Polyphenolic Compounds and Their Role in Cardiovascular Diseases. *Frontiers in Cardiovascular Medicine*, 2022; 9: 940967.
23. Mohamed YT, Naguib IA, Abo-Saif AA, Elkomy MH, Alghamdi BS, **Mohamed WR**, Role of ADMA/DDAH-1 and iNOS/eNOS signaling in the gastroprotective effect of tadalafil against indomethacin-induced gastric injury. *Biomedicine & Pharmacotherapy*, 2022; 150: 113026.
24. Tawfik NG, **Mohamed WR**, Mahmoud HS, Alqarni MA, Naguib IA, Fahmy AM, Ahmed OM. Isatin Counteracts Diethylnitrosamine/2-Acetylaminofluorene-Induced Hepatocarcinogenesis in Male Wistar Rats by Upregulating Anti-Inflammatory, Antioxidant, and Detoxification Pathways. *Antioxidants (Basel)*. 2022 Apr 1;11(4):699.
25. **Mohamed WR**, Mahmoud N, Samad FA, Ahmed E, Hamblin MR, Mohamed TA, Rapid monitoring of serum albumin as a biomarker of liver and kidney diseases using femtosecond laser-induced fluorescence. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022; 268:120646
26. Khalaf MM, Hassanein EHM, Shalkami AS, Hemeida RAM, **Mohamed WR**, Diallyl Disulfide Attenuates Methotrexate-Induced Hepatic Oxidative Injury, Inflammation and Apoptosis and Enhances its Anti-Tumor Activity. *Current Molecular Pharmacology*, 2022; 15(1): 213-226
27. Ali GF, Omar HA, Hersi F, Abo-Youssef AM, Ahmed OM, **Mohamed WR**, The protective role of etoricoxib against diethylnitrosamine/2-acetylaminofluorene-induced hepatocarcinogenesis in Wistar rats: The impact of NF- $\kappa$ B/COX-2/PGE2 signaling. *Current Molecular Pharmacology*, 2022; 15:252-262.
28. Sayed AM, Abdel-Fattah MM, Arab HH, **Mohamed WR**, Hassanein EHM, Targeting inflammation and redox aberrations by perindopril attenuates methotrexate-induced intestinal injury in rats: Role of TLR4/NF- $\kappa$ B and c-Fos/c-Jun pro-inflammatory pathways and PPAR- $\gamma$ /SIRT1 cytoprotective signals. *Chemico-Biological Interactions*, 2022; 351:109732.
29. Mohamed YT, Naguib IA, Abo-Saif AA, **Mohamed WR**, Protective effects of perindopril against indomethacin-induced gastric mucosal damage through modulation of DDAH-1/ADMA and ACE-2/ANG-(1-7) signaling pathways. *Drug and Chemical Toxicology*, 2022; 45(6) (2509-2518).
30. Shalkami AS, Hassanein EHM, Sayed A, **Mohamed WR**, Khalaf MM, Hemeida RAM, Hepatoprotective effects of phytochemicals berberine and umbelliferone against methotrexate-induced hepatic intoxication: experimental studies and in silico evidence. *Environmental Science and Pollution Research International*, 2021; 28(47): 67593-67607
31. Abdel-Fattah MM, Elgendy AM., **Mohamed WR**, Xanthenone, ACE2 activator, counteracted gentamicin-induced nephrotoxicity in rats: Impact on oxidative stress, and ACE2/Ang-(1-7) signaling. *Life Sciences*, 2021; 275: 119387

32. Hassanein EHM, **Mohamed WR**, Khalaf MM, Shalkami AS, Sayed A, Hemeida RAM, Diallyl Disulfide ameliorates Methotrexate-Induced nephropathy in rats: Molecular studies and network pharmacology analysis. *Journal of Food Biochemistry*, 2021, 45(6): e13765
33. Elhennawy MG, Abdelaleem EA, Zaki AA, **Mohamed WR**, Cinnamaldehyde and hesperetin attenuate TNBS-induced ulcerative colitis in rats through modulation of the JAK2/STAT3/SOCS3 pathway. *Journal of Biochemical and Molecular Toxicology*, 2021; 35(5): e22730.
34. Ahmed HS, **Mohamed WR**, Moawad AS, Owis AI, Ahmed RR, AbouZid, SF, Cytotoxic, hepatoprotective and antioxidant activities of *Silybum marianum* variety albiflorum growing in Egypt. *Natural Product Research*, 2020; 34(24):3540-3544
35. Hussein RM, Khalaf MM, **Mohamed WR**, Hesperidin and eugenol attenuate cadmium-induced nephrotoxicity via regulation of oxidative stress, Bax/Bcl2 and cleaved caspase 3 expression. *Turk J Biochem*, 2020; 45(6): 767-775
36. Arafa EA, **Mohamed WR**, Zaher DM, Omar HA, Gliclazide attenuates acetic acid-induced colitis via the modulation of PPAR $\gamma$ , NF- $\kappa$ B and MAPK signaling pathways. *Toxicology and applied pharmacology*, 2020; 391:114919.
37. **Mohamed WR**, Kotb AS, Abd El-Raouf OM, Fikry EM, Apigenin alleviated acetaminophen-induced hepatotoxicity in low protein fed rats: Targeting oxidative stress, STAT-3 and apoptosis signals. *Journal of Biochemical and Molecular Toxicology*, 2020; e22472.
38. Hassanein EHM, Shalkami AS, Khalaf MM, **Mohamed WR**, Hemeida RAM, The impact of Keap1/Nrf2, P38MAPK/NF- $\kappa$ B and Bax/Bcl2/caspase-3 signaling pathways in the protective effects of berberine against methotrexate-induced nephrotoxicity. *Biomedicine & Pharmacotherapy*, January 2019; 109: 47–56
39. Shafiey SI, **Mohamed WR**, Abo-Saif AA, Paroxetine and rivastigmine mitigates adjuvant-induced rheumatoid arthritis in rats: Impact on oxidative stress, apoptosis and RANKL/OPG signals. *Life Sciences*, September 2018; 212:109–118.
40. Hussein RM, **Mohamed WR**, Omar HA, A neuroprotective role of kaempferol against chlorpyrifos-induced oxidative stress and memory deficits in rats via GSK3 $\beta$ -Nrf2 signaling pathway. *Pesticide Biochemistry and Physiology*, August 2018; 152: 29–37
41. Hassanein EHM, **Mohamed WR**, Shalkami AS, Khalaf MM, Hemeida RAM, Renoprotective effects of umbelliferone on methotrexate-induced renal injury through regulation of Nrf-2/Keap-1, P38MAPK/NF- $\kappa$ B, and apoptosis signaling pathways. *Food and Chemical Toxicology*, June 2018; 116: 152-160.
42. **Mohamed WR**, Mehany ABM, Hussein RM, Alpha lipoic acid protects against chlorpyrifos-induced toxicity in Wistar rats via modulating the apoptotic pathway. *Environmental Toxicology and Pharmacology*, 2018; 59: 17–23.

43. Arab HH, **Mohamed WR**, Barakat BM, Arafa el-SA. Tangeretin attenuates cisplatin-induced renal injury in rats: Impact on the inflammatory cascade and oxidative perturbations. *Chem Biol Interact.* 2016 Oct; 258:205-13.
44. Omar HA, **Mohamed WR**, Arafa el-SA, Shehata BA, El Sherbiny GA, Arab HH, Elgendy AM. Hesperidin alleviates cisplatin-induced hepatotoxicity in rats without inhibiting its antitumor activity. *Pharmacological Reports*, 2016 April; 68(2): 349–356
45. Omar HA, **Mohamed WR**, Arab HH, Arafa el-SA. Tangeretin alleviates cisplatin-induced acute hepatic injury in rats: Targeting MAPKs and apoptosis. *PloS One*, 2016 Mar; 11(3): e0151649.
46. Abdelgawad MA, Bakr RB, Alkhoja OA, **Mohamed WR**. Design, synthesis and antitumor activity of novel pyrazolo[3,4-d]pyrimidine derivatives as EGFR-TK inhibitors. *Bioorganic Chemistry*, 2016 Jun; 66:88-96
47. **Mohamed WR**, Arafa el-SA, Shehata BA, El Sherbiny GA, Elgendy AM. Beneficial effects of hesperidin against cisplatin-induced nephrotoxicity and oxidative stress in rats. *British Journal of Pharmacology and Toxicology*, 2015 July; 6(3): 56-63.
48. **Mohamed WR**, El-Sherbiny GA., Zaki HF., El Sayed ME. Possible modulation of the antidiabetic effect of rosiglitazone by buspirone. *Bulletin of Faculty of Pharmacy, Cairo University*, 2012 June 50 (1): 73-79.
49. **Mohamed WR**, El-Sherbiny GA., Zaki HF., El Sayed ME. Modulation of the antidiabetic effect of glimepiride by diazepam in diabetic rats. *British Journal of Pharmacology and Toxicology*, 2012; 3(5): 190-196.

## Conferences Proceedings

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1. Hayam S. Ahmed, **Wafaa R. Mohamed**, Abeer S. Moawad, Asmaa I. Owis, Sameh F. AbouZid. Studies on silymarin produced from *Silybum marianum* variety albiflorum. 18<sup>th</sup> Symposium of Natural Products Research Network for Eastern and Central Africa (NAPRECA), "Natural Products for the Health and Welfare of Africans, Heliopolis University, Egypt, 2019
2. Emad H.M. Hassanein, Marwa M. Khalaf, **Wafaa R. Mohamed**, Abdel-Gawad S. Shalkami, Ramadan A.M. Hemeida. Mechanistic insights into the hepatoprotective effects of berberine, diallyl disulfide and umbelliferone on methotrexate-induced hepatotoxicity in rats. Pharmaceutical Scientific conference, Faculty of Pharmacy, Beni-Suef University, Egypt, 2019
3. Sara I. Shafiey, **Wafaa R. Mohamed**, Ali A. Abo-Saif, Paroxetine and rivastigmine mitigates adjuvant-induced rheumatoid arthritis in rats: Impact on oxidative stress, apoptosis and RANKL/OPG signals. Pharmaceutical Scientific conference, Faculty of Pharmacy, Beni-Suef University, Egypt, 2019
4. Amr S. Kotb, **Wafaa R. Mohamed**, Ebtehal Mohammed F., Ola Abd Al-Raouf. Apigenin alleviated acetaminophen-induced hepatotoxicity in low protein fed rats: Targeting oxidative stress and



apoptosis. *Biochemistry & Molecular Biology in the 21<sup>st</sup> Century*. German University in Cairo, Egypt, 2018

5. Arafa el-SA, **Mohamed WR**, Arab HH, Shehata BA, Hassan HM, Raslan M, El Sherbiny GA, Elgendy AM. Quercitrin protects rats against cisplatin-induced renal and hepatic injury without hindering its beneficial cytotoxic activity. *Experimental Biology*. Chicago, IL, USA. April, 2017

## Attended Conferences and Workshops

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- Invited Speaker at Health Care - Egypt vision 2030, NAHDA University, Beni-Suef; Laser Applications in Biology: Liver fibrosis, Cancer Research ,and Microbiology
- Foundations of Teaching Excellence in Pharmacy Education (2021 Teaching Excellence in Pharmacy Education Program) workshop by Knowledge E, December 2021.
- Preparation of the test item for the medical sector, as a part of the implementation plan of the national system for electronic exams, May 2021.
- Corse specs updating for the academic year 2021-2022 according to the external evaluator comments, Faculty of Pharmacy, Beni-Suef University, Egypt. September 2021.
- Qualitative and technical internal audit, Faculty of Pharmacy, Beni-Suef University, Egypt. July 2021.
- Corse specs updating according to the National Academic Reference Standards (NARS) 2017, October 2020
- Competency-based education. Faculty of Pharmacy, Beni-Suef University, October 2020.
- The microbial pharmacy within us: role of gut bacterial metabolic activity in the gut brain homeostasis. Faculty of Pharmacy, Beni-Suef University. Jan 2020
- Innovative Technologies of Stem Cells & Gene Editing in Different Types of Therapeutics, Center for Genetic Engineering-Faculty of Science, Al-Azhar University, Egypt. September 2019
- Quality in Research: From Research Topic Identification to Publishing, Offered by Egyptian Knowledge Bank and Clarivate Analytics, Beni-Suef University, Egypt. Feb 2018
- First aid and emergency rescue methods, Faculty of Pharmacy, Beni-Suef University, Egypt. March 2019.
- Modern methods of teaching, Faculty of Pharmacy, Beni-Suef University, Egypt. February 2019.
- Ethical Code and Intellectual Property Guide, Faculty of Pharmacy, Beni-Suef University, Egypt. February 2018.
- Student Evaluation, Faculty of Pharmacy, Beni-Suef University, Egypt. November 2017.
- Course specs Updating, Faculty of Pharmacy, Beni-Suef University, Egypt. October 2017.
- Effective strategic planning, Faculty of Pharmacy, Beni-Suef University, Egypt. October 2017.
- How to prepare research projects: steps for writing and financing, Faculty of Pharmacy, Beni-Suef University, Egypt. October 2016.
- Active teaching and learning strategies, Faculty of Pharmacy, Beni-Suef University, Egypt. October 2016.
- Scientific Research Development Forum at Beni Suf University, Beni-Suef University, Egypt. September 2016.

- Academic standards awareness, Faculty of Pharmacy, Beni-Suef University, Egypt. August 2016.
- Information Technology, Faculty of Pharmacy, Beni-Suef University, Egypt. August 2016.
- Recent Techniques in Molecular Biology, Beni-Suef University, Egypt. May 2014.
- Advanced Microsoft office (Word- Excel- Access- PowerPoint), Beni-Suef University, Egypt 2012.
- Recent Advances in pharmaceutical Research, Beni-Suef University, Egypt. January 2011.
- ICDL course, Beni-Suef University, Egypt. March 2006.

## Master & Ph.D Thesis Supervision:

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**Ph.D** Candidate: Emad Hassanein Mohamed Hassanein

Title: "Study the protective effects of berberine, diallyl disulphide and umbellifrone on methotrexate-induced hepatorenal toxicity in rats and study their antitumor efficacy using some cancer cell Lines."

Status: Granted 2019

**Master** Candidate: Sara Ishak Abdel Rahman

Title: "Study on the possible beneficial effects of certain drugs on experimentally-induced rheumatoid arthritis in rats."

Status: Granted 2019

**Ph.D** Candidate: Hayam Salah Hamed

Title: "Phytochemical and biological study of Silybum marianum (L.) Family: Asteraceae, growing in Egypt."

Status: Granted 2020

**Master** Candidate: Gaber Fathi Gaber

Title: "Study of the possible anticarcinogenic effects of eertain drugs on diethylnitrosamine/ 2-acetylaminofluorene-induced hepatocarcinogenesis in experimental rats."

Status: Granted 2021

**Master** Candidate: Yasmin Taha Mohamed

Title: "Study on the possible protective effects of certain drugs on experimentally-induced peptic ulcer in rats."

Status: Granted 2022

**Master** Candidate: Mayada Gamal Ahmed

Title: "Study of the possible protective effects of certain agents against experimentally-induced colitis in rats."

Status: Granted 2022

**Master** Candidate: Nouran Osama Mostafa

Title: "Study of the possible protective effects of certain antioxidants against dexamethasone-induced osteoporosis in rats."

Status: Granted 2023

**Ph.D** Candidate: Sara Ishak Abdel Rahman

Title: "Role of certain agents against testicular impairment and disrupted spermatogenesis induced experimentally."

Status: Granted 2023

**Master** Candidate: Safaa Taha Moawd

Title: "Exploring the effects of different Laser parameters on breast cancer cells."

Status: Granted 2023

**Master** Candidate: Aya Eid Mohamed

Title: "Studying the possible role of Nrf2 signaling in the protective effect of femtosecond laser light on liver fibrosis in rats."

Status: Granted 2023

**Ph.D** Candidate: Mohammed Ezzat Abo-El Fetoh

Title: "Pharmacological Study of the Potential Modulatory Effect of Cyclooxygenase Inhibition on EGFR – ERK1/2 Signaling Cascade in Testosterone-Induced Benign Prostatic Hyperplasia in Rats."

Status: Granted 2023

**Master** Candidate: Nora Mahmoud Osman Ahmed

Title: "Using Femtosecond Laser-Induced Fluorescence for Rapid Monitoring of Certain Serum Biomarkers."

Status: Granted 2023

**Master** Candidate: Marvy Gorge Moris

Title: "Pharmacological effects of selected Lactobacillus species on acute pancreatitis induced by L-arginine in rats."

Status: Granted 2024

**Ph.D** Candidate: Mostafa Mohamed Ahmed

Title: "Effects of Ticagrelor and Lixisenatide on Vascular and Renal Complications of Type 2 Diabetes in Rats."

Status: Granted 2024

**Ph.D** Candidate: Gaber Fathi Gaber

Title: "Study of the Possible Protective Effects of Selected Agents on Methotrexate-Induced Intestinal and Testicular Toxicity in Experimental Rats."

Status: Granted 2024

**Master** Candidate: Alaa Hosein Ibrahim

Title: "The Protective Effect of Some Selected Drugs against Cyclophosphamide-Induced Acute Hepatotoxicity in Rats."

Status: Running

**Master** Candidate: Aya Eid Mohamed

Title: "Studying the effect of femtosecond laser light on lung and breast cancer and possible modulation of the efficiency of a certain chemotherapeutic agent."

Status: Running

**Master** Candidate: Ihab Anwar Ibrahim

Title: "Pharmacological Study of the Potential Protective Effects of Selected Agents on L-Arginine Induced Acute Pancreatitis in Rats."

Status: Running

**Master** Candidate: Fatma Mohammed Mohammed

Title: "Study of the Possible Protective Effects of Diosmin and Farnesol on Cisplatin-Induced Cardiac Injury in Rats."

Status: Running

**Master** Candidate: Ghofran Mohamed Nagieb Ahmed

Title: "Study of the Possible Protective Effects of Selected Drugs on Methotrexate-Induced Intestinal Toxicity in Rats."

Status: Running

**Ph.D** Candidate: Yasmin Taha Mohamed

Title: "The Protective Effects of Certain Drugs against Cisplatin-Induced Hepatotoxicity and Cardiotoxicity in Rats."

Status: Running

**Ph.D** Candidate: Safaa Taha Moawd

Title: "Photochemotherapy of breast and colon cancer cells using femtosecond laser in combination with metal nanoparticles."

Status: Running

**Ph.D** Candidate: Aya Eid Mohamed

Title: "Studying the effect of femtosecond laser light on lung and breast cancer and possible modulation of the efficiency of a certain chemotherapeutic agent."

Status: Running

**Master** Candidate: Hegazi Hammad Hegazi Mohamed

Title: "The Possible Protective Effects of Selected Drugs on Doxorubicin-Induced Testicular Toxicity in Rats."

Status: Running

**Master** Candidate: Dina Emad Gbril Ahmed

Title: "The possible protective effects of a selected drug on methotrexate-induced hepatorenal toxicity in rats."

Status: Running

**Master** Candidate: Marwa Tantawy Said Mohamed

Title: "Pharmacological Study on the Potential Protective Mechanisms of Certain Agents on Cadmium-Induced Organs Toxicity in Rats."

Status: Running

**Master** Candidate: Aisha Mohammed Hassan Mohammed

Title: "Detection of Selected Serum Vitamins and Hormones Using Femtosecond Laser-Induced Fluorescence."

Status: Running

**Master** Candidate: Mira Abd ElMalak Mounir Ghaly

Title: "Employing femtosecond laser-induced fluorescence (LIF) for sensitive detection of certain tumor biomarkers."

Status: Running

**Master** Candidate: Queen Emil Kamal Kamel

Title: "Investigating the Effect of Femtosecond Laser and Laser-ablated Nanoparticles Against Hydatid Cyst Protoscolices ."

Status: Running

**Master** Candidate: Amira Abd Elatty Goda Mohamed

Title: "Exploring the Potential Therapeutic Potential Effect of Femtosecond Laser on Schistosomiasis-Induced Liver Fibrosis."

Status: Running

**Ph.D** Candidate: Mayada Gamal Ahmed

Title: "Pharmacological Investigating of the Potential Effects of Various Agents on Experimentally -Induced Fibromyalgia in Rats."

Status: Running

## Master & Ph.D Thesis External Examination:

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**Master** Candidate: Saba Mamoun Hammad

Pharmacology Department, College of Pharmacy, University of Sharjah, Sharjah, UAE

Title: "Regulation of the drug efflux transporter P-glycoprotein by miR- 27a-3p at the brain endothelial barrier."

Status: Granted 2021

**Master** Candidate: Dua Mohammad Yousef Hammash

Pharmacology Department, College of Pharmacy, University of Sharjah, Sharjah, UAE

Title: "The Role of miR-623 in Extravasation of Brain Metastatic TripleNegative Breast Cancer Cells."

Status: Granted 2022

**Master** Candidate: Ekhlal Mustafa Mohamed

Pharmacology and Toxicology Department, Faculty of Medicine, Beni-Suef University, Egypt

Title: "Evaluation of the effect of administration of tadalafil on gentamicin-induced nephrotoxicity in rats."

Status: Granted 2021

**Ph.D** Candidate: Samar Mohamed Hassan

Pharmacology and Toxicology Department, Faculty of Pharmacy, Beni-Suef University, Egypt

Title: "Ameliorative effects of carvacrol and scopoletin against vancomycin-induced renal damage in experimental animals."

Status: Granted 2023

**Ph.D** Candidate: Selvia Maher Farag

Clinical Pharmacy Department, Faculty of Pharmacy, Beni-Suef University, Egypt

Title: "Efficacy of amlodipine and candesartan combination in comparison to amlodipine and valsartan combination on blood pressure variability and pulse wave velocity."

Status: Granted 2024

**Ph.D** Candidate: Daa EL-Deen El-Sayed

Pharmacology and Toxicology Department, Faculty of Pharmacy, Beni-Suef University, Egypt

Title: "The possible role of selected agents in the protection of liver against ischemia / reperfusion injury in rats."

Status: Granted 2023

**Ph.D** Candidate: Zaynab Osaid Mohamad Adeeb Kailani

Pharmacology Department, College of Pharmacy, University of Sharjah, Sharjah, UAE

Title: "Breast Cancer Brain Metastasis: Investigating the Impact of cell-conditioned media on the adhesion of TNBC to the brain endothelium."

Status: Granted 2024

## Other Postgraduate Certificates and Courses:

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### Successfully Completed Beni-Suef University Courses of:

- Use of Current Technology in Teaching
- Communication Skills
- Preparation of Faculty and Leadership members
- International Publishing of Scientific Research
- Managing Time and Meetings
- Research Ethics
- University Management
- Legal and Financial aspects in the University environment
- Presentation skills
- Ethical conduct and code of ethics
- Integrity, transparency and anti-corruption
- Leadership of the research team

## Awards

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- Best PHD Thesis in Pharmaceutical Sciences Award, Beni-Suef University, Egypt, 2017.
- Best Research Award, Beni-Suef University, Egypt, 2017.
- Prof. Dr. M. Zaid El Meleegy prize for computer, Faculty of Pharmacy, Cairo University, Egypt. April 2008
- Honoring in Science Day by the Egyptian President for being ranked First Student in the bachelor degree at Beni-Suef University, Egypt. December 2005

## Grants

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- "Study on the possible protective effects of certain antioxidants against cisplatin-induced hepatotoxicity and nephrotoxicity". A research grant from the Scientific Research Development Center, Beni-Suef University, Beni-Suef, Egypt, January 2012.
- "Evaluation of the effects of certain antioxidants on chlorpyrifos-induced Alzheimer's disease symptoms". A research grant from the Scientific Research Development Center, Beni-Suef University, Beni-Suef, Egypt, January 2016.
- "Protective effects of Coenzyme Q10 on methotrexate-induced testicular injury in experimental rats". A research grant from the University of Sharjah, UAE, 2022.
- "Biochemical, histological, and genetic study for investigating a novel protective effect of Lisinopril against Cisplatin-induced renal and hepatic toxicities". A research grant from the University of Sharjah, UAE, 2024.
- "Evaluation of the possible protective effects of thymol on methotrexate-induced intestinal toxicity in experimental rats". A research grant from the University of Sharjah, UAE, 2024.

## Professional Service Record

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### Associate Editor for:

- Pharmacology of Anti-Cancer Drugs, Frontiers Pharmacology, Lausanne, Switzerland [Link](#)
- Guest Associate Editor for a Special Issue in Frontiers in Cardiovascular Medicine entitled "Safety of Polyphenolic Compounds and Their Role in Cardiovascular Diseases" [Link](#)

### Invited Journal Reviewer for:

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- Toxicology Reports
- Beni-Suef University Journal of Basic and Applied Sciences
- Drug and Chemical Toxicology