

Curriculum Vitae

<u>Personal Information</u>	Name	Asmaa Mostafa Ahmed Bayoumi
	Date of Birth	20/November/1982
	Gender	Female
	Marital Status	Married
	Nationality	Egyptian
	Current Position	Professor, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt
	Home Address	Egypt, Minia, Taha Hussein Street, University Buildings, Building (Geem), Apartment (42)
	E-mail	asmaa_bayoumi@mu.edu.eg
	Phone	+2-010-2206-2259
<u>Academic Qualifications</u>	<ul style="list-style-type: none"> • Mar 2011: Ph.D. in Molecular Biology and Pharmaceutical Sciences (Biochemistry & Molecular Biology), Graduate School of Pharmaceutical Sciences, Kyushu University, Japan. Ph.D. Thesis Title: “CysB, a LysR-type transcriptional regulator, interacts specifically with DARSSs, genomic sequences of <i>E. coli</i> that promote replication initiation”. • Dec 2007: M.Sc. in Pharmaceutical Sciences (Biochemistry), Faculty of Pharmacy, Minia University, Egypt. M.Sc. Thesis Title: “Role of β-Hydroxy-γ-Trimethyl ammonium Butyrate and Ubiquinone in Combating the Deteriorative Effect Induced by CCl₄ in Rat’s Liver”. • May 2004: B.Sc. in Pharmaceutical Sciences, Faculty of Pharmacy, Minia University, Egypt. B.Sc. Grade: Excellent with honors degree (92.04%). 	
<u>Academic Positions</u>	<ul style="list-style-type: none"> • May 2025 - Present: Professor, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Nov 2019 – Apr 2025: Associate Professor, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Aug 2011 - Nov 2019: Assistant Professor, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Jan 2008 - Aug 2011: Assistant Lecturer, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Oct 2004 - Jan 2008: Demonstrator, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. 	

**Published
Papers**

1. **Modulation of keap-1/Nrf2/HO-1 and NF- κ B/caspase-3 signaling pathways by dihydromyricetin ameliorates sodium valproate-induced liver injury.** Emad D, Bayoumi AMA, Gebriel SM, Ali DME, Waz S. *Arch Biochem Biophys*. **2024** Aug; 758: 110084. doi: 10.1016/j.abb.2024.110084.
2. **Sacubitril/valsartan alleviates sepsis-induced myocardial injury in rats via dual angiotensin receptor-neprilysin inhibition and modulation of inflammasome/caspase 1/IL1 β pathway.** Refaie MMM, El-Hussieny M, Bayoumi AMA, Abdelraheem WM, Abdel-Hakeem EA, Shehata S. *Eur J Pharmacol*. **2024** Jul 20; 979: 176834. doi: 10.1016/j.ejphar.2024.176834.
3. **Cardioprotective role of diacerein in diabetic cardiomyopathy via modulation of inflammasome/caspase1/interleukin1 β pathway in juvenile rats.** Refaie MMM, Mohammed HH, Abdel-Hakeem EA, Bayoumi AMA, Mohamed ZH, Shehata S. *Naunyn Schmiedebergs Arch Pharmacol*. **2024** Jul; 397(7): 5079-5091. doi: 10.1007/s00210-023-02921-8.
4. **Sacubitril/valsartan protective effect on induced intestinal ischemia/reperfusion injury via immune modulation of IL6/STAT1 pathway.** Refaie MMM, Amin EF, Hassan MN, Rifaai RA, Bayoumi AMA, Kamel MY. *J Pharm Pharmacol*. **2024** Mar 27; 76: 788-797. doi: 10.1093/jpp/rgae031.
5. **Sacubitril/valsartan cardioprotective effect against cisplatin-induced cardiotoxicity via modulation of VEGF/eNOS and TLR4/TNF α /IL6 signalling pathways.** Mahmoud Refaie MM, Ahmed Rifaai R, Bayoumi AMA, Shehata S. *J Pharm Pharmacol*. **2023** Sep 1; 75(9): 1237-1248. doi: 10.1093/jpp/rgad049.
6. **Resveratrol slows down epithelial-mesenchymal transition in hepatocellular carcinoma via modulation of Akt/GSK3 β /SNAIL1 signaling pathway.** Bayoumi AMA, Khalifa EMMA, Sayed-Ahmed MM, Sharaky M, Nazmy MH. *Eur Chem Bull*. **2023**; 12(Special issue 8): 7788-7803. doi: 10.48047/ecb/2023.12.Si8.659.
7. **Role of hypoxia inducible factor/vascular endothelial growth factor/endothelial nitric oxide synthase signaling pathway in mediating the cardioprotective effect of dapagliflozin in cyclophosphamide-induced cardiotoxicity.** Mahmoud Refaie MM, Bayoumi AMA, Mokhemer SA, Shehata S, Abd El-Hameed NM. *Hum Exp Toxicol*. **2023** Jan-Dec; 42: 9603271231193392. doi: 10.1177/09603271231193392.
8. **Ketogenic diet restores hormonal, apoptotic/proliferative balance and enhances the effect of metformin on a letrozole-induced polycystic ovary model in rats.** Ahmed AF, Sharkawi SS, AbdelHameed SS, Bayoumi AMA, Moussa RS, Alhakamy NA, Al Sadoun H, Mansouri RA, El-Moselhy MA, El-Daly M, Anter AF. *Life Sci*. **2023** Jan 15; 313: 121285. doi: 10.1016/j.lfs.2022.121285.
9. **Identification, expression, and purification of DNA cytosine 5-methyltransferases with short recognition sequences.** Miura F, Miura M, Shibata Y, Furuta Y, Miyamura K, Ino Y, Bayoumi AMA, Oba U, Ito T. *BMC Biotechnol*. **2022** Nov 4; 22(1): 33. doi: 10.1186/s12896-022-00765-3.
10. **The IL-6/STAT Signaling Pathway and PPAR α Are Involved in Mediating the Dose-Dependent Cardioprotective Effects of Fenofibrate in 5-Fluorouracil-Induced Cardiotoxicity.** Refaie MMM, Shehata S, Bayoumi AMA, El-Tahawy NFG, Abdelzاهر WY. *Cardiovasc Drugs Ther*. **2022** Oct; 36(5): 817-827. doi: 10.1007/s10557-021-07214-x.
11. **Simvastatin cardioprotection in cyclophosphamide-induced toxicity via the modulation of inflammasome/caspase1/interleukin1 β pathway.** Refaie MM, El-Hussieny M, Bayoumi AMA, Shehata S, Welson NN, Abdelzاهر WY. *Hum Exp Toxicol*. **2022** Jan-Dec; 41: 9603271221111440. doi: 10.1177/09603271221111440.

12. **Aescin Protects against Experimental Benign Prostatic Hyperplasia and Preserves Prostate Histomorphology in Rats via Suppression of Inflammatory Cytokines and COX-2.** Raafat M, Kamel AA, Shehata AH, Ahmed AF, Bayoumi AMA, Moussa RA, Abourehab MAS, El-Daly M. *Pharmaceuticals* (Basel). **2022** Jan 22; 15(2): 130. doi: 10.3390/ph15020130.
13. **Molecular mechanisms underlying the effect of diacerein on trichloroacetic acid-induced hepatic pre-neoplastic lesions in rats.** Ibrahim YF, Refaie MM, Kamel MY, Ahmed SM, Moussa RA, Bayoumi AMA, Ibrahim MA. *Hum Exp Toxicol.* **2021** Dec; 40(12_suppl): S788-S803. doi: 10.1177/09603271211056331.
14. **Dose-Dependent Cardioprotective Effect of Hemin in Doxorubicin-Induced Cardiotoxicity Via Nrf-2/HO-1 and TLR-5/NF- κ B/TNF- α Signaling Pathways.** Refaie MMM, Shehata S, Ibrahim RA, Bayoumi AMA, Abdel-Gaber SA. *Cardiovasc Toxicol.* **2021** Dec; 21(12): 1033-1044. doi: 10.1007/s12012-021-09694-7.
15. **Canagliflozin, an SGLT-2 inhibitor, ameliorates acetic acid-induced colitis in rats through targeting glucose metabolism and inhibiting NOX2.** Morsy MA, Khalaf HM, Rifaai RA, Bayoumi AMA, Khalifa EMMA, Ibrahim YF. *Biomed Pharmacother.* **2021** Sep; 141: 111902. doi: 10.1016/j.biopha.2021.111902.
16. **Dabigatran mitigates cisplatin-mediated nephrotoxicity through down regulation of thrombin pathway.** Ewees MGE, Abdel-Bakky MS, Bayoumi AMA, Abo-Saif AA, Altowayan WM, Alharbi KS, Messiha BAS. *J Adv Res.* **2021** Jan 5; 31: 127-136. doi: 10.1016/j.jare.2020.12.014.
17. **Role of nitric oxide donor in methotrexate-induced testicular injury via modulation of pro-inflammatory mediators, eNOS and P-glycoprotein.** Abdelzaher WY, Khalaf HM, El-Hussieny M, Bayoumi AMA, Shehata S, Refaie M. *Hum Exp Toxicol.* **2020** Dec; 39(12): 1700-1709. doi: 10.1177/0960327120940361.
18. **Resveratrol reduces gentamicin-induced EMT in the kidney via inhibition of reactive oxygen species and involving TGF- β /Smad pathway.** Beshay ON, Ewees MG, Abdel-Bakky MS, Hafez SMNA, Abdelrehim AB, Bayoumi AMA. *Life Sci.* **2020** Oct 1; 258: 118178. doi: 10.1016/j.lfs.2020.118178.
19. **Ameliorative effect of 2-methoxyestradiol on radiation-induced lung injury.** Elzayat MA, Bayoumi AMA, Abdel-Bakky MS, Mansour AM, Kamel M, Abo-Saif A, Allam S, Salama A, Salama SA. *Life Sci.* **2020** Aug 15; 255: 117743. doi: 10.1016/j.lfs.2020.117743.
20. **Protective effect of febuxostat in sepsis-induced liver and kidney injuries after cecal ligation and puncture with the impact of xanthine oxidase, interleukin 1 β , and c-Jun N-terminal kinases.** Ibrahim YF, Fadl RR, Ibrahim S, Gayyed MF, Bayoumi AMA, Refaie M. *Hum Exp Toxicol.* **2020** Jul; 39(7): 906-919. doi: 10.1177/0960327120905957.
21. **Amelioration of Sepsis-Induced Liver and Lung Injury by a Superoxide Dismutase Mimetic; Role of TNF- α and Caspase-3.** Ahmed AF, Bayoumi AMA, Eltahir HM, Abdel Hafez SMN, Abouzied MM. *JABPS.* **2020** Jul; 3(3): 31 - 39.
22. **Cardioprotective effect of hemin in isoprenaline-induced myocardial infarction: role of ATP-sensitive potassium channel and endothelial nitric oxide synthase.** Refaie MMM, Rifaai RA, Bayoumi AMA, Shehata S. *Fundam Clin Pharmacol.* **2020** Jun; 34(3): 302-312. doi: 10.1111/fcp.12529.
23. **Tempol, a superoxide dismutase mimetic agent, reduces cisplatin-induced nephrotoxicity in rats.** Ewees MG, Messiha BAS, Abdel-Bakky MS, Bayoumi AMA, Abo-Saif AA. *Drug Chem Toxicol.* **2019**; 42(6): 657-664. doi: 10.1080/01480545.2018.1485688.

	<p>24. Natural polyphenols target the TGF-β/caspase-3 signaling pathway in CCl₄-induced liver fibrosis in rats. Abu-Baih RH, <u>Bayoumi AMA</u>, Ibrahim ARN, Ewees MG, Abdelraheim SR. <i>JABPS</i>. 2019 Oct; 2(4): 129-134.</p> <p>25. Tocilizumab attenuates acute lung and kidney injuries and improves survival in a rat model of sepsis via down-regulation of NF-κB/JNK: a possible role of P-glycoprotein. Ibrahim YF, Moussa RA, <u>Bayoumi AMA</u>, Ahmed AF. <i>Inflammopharmacology</i>. 2019 Aug 22. doi: 10.1007/s10787-019-00628-y.</p> <p>26. Impact of renal ischemia/reperfusion injury on the rat Kupffer cell as a remote cell: A biochemical, histological, immunohistochemical, and electron microscopic study. Abdel Hafez SMN, Rifaai RA, <u>Bayoumi AMA</u>. <i>Acta Histochem</i>. 2019 Jul; 121(5): 575-583. doi: 10.1016/j.acthis.2019.04.008.</p> <p>27. Role of ATP-sensitive potassium channel (K_{ATP}) and eNOS in mediating the protective effect of nicorandil in cyclophosphamide induced cardiotoxicity. Refaie MMM, Shehata S, El-Hussieny M, Abdelraheem WM, <u>Bayoumi AMA</u>. <i>Cardiovascular Toxicology</i>. 2019 Jun 22. doi: 10.1007/s12012-019-09535-8.</p> <p>28. Mechanisms mediating the cardioprotective effect of carvedilol in cadmium induced cardiotoxicity. Role of eNOS and HO1/Nrf2 pathway. Refaie MMM, El-Hussieny M, <u>Bayoumi AMA</u>, Shehata S. <i>Environ Toxicol Pharmacol</i>. 2019 May 28; 70: 103198. doi: 10.1016/j.etap.2019.103198.</p> <p>29. Interference with Coagulation Cascade as a Novel Approach to Counteract Cisplatin-Induced Acute Tubular Necrosis; an Experimental Study in Rats. Ewees MG, Messiha BAS, Abo-Saif AA, <u>Bayoumi AMA</u>, Abdel-Bakky MS. <i>Front Pharmacol</i>. 2018 Oct 11; 9: 1155. doi: 10.3389/fphar.2018.01155.</p> <p>30. Evaluating The Role of Curcumin and CoQ10 in CCl₄- induced Liver Fibrosis. Abu-Baih DHMA, <u>Bayoumi AMA</u>, Okasha AMM. <i>MJMR</i>. 2018 Jan; 29 (1): 111-114.</p> <p>31. Curcumin ameliorates CCl₄-induced liver injury in a rat model; a deeper insight into the mechanism of action. <u>Bayoumi AMA</u>. <i>MJMR</i>. 2017 Mar; 28 (3): 154-158.</p> <p>32. Protective effect of L-carnitine and coenzyme Q₁₀ on CCl₄-induced liver injury in rats. Ali SA, Faddah L, Abdel-Baky A, <u>Bayoumi AMA</u>. <i>Sci Pharm</i>. 2010 Aug; 78 (4): 881-896. doi: 10.3797/scipharm.1006-02.</p>
<u>Google Scholar</u>	<ul style="list-style-type: none"> • Link: https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=GZbRSYoAAAAJ&pagesize=80 • Citations: 500 • H-index: 14
<u>Published Books</u>	<ul style="list-style-type: none"> • L-carnitine and CoQ₁₀ role in combating deteriorative effect of CCl₄: β-Hydroxy-γ-Trimethylammonium Butyrate and Ubiquinone in combating the deteriorative effect induced by CCl₄ in rat. Sanaa Ahmed Ali, Lilla M. Faddah, <u>Asmaa Bayoumi</u>. 2012 Jul 11. <ul style="list-style-type: none"> – Paperback: 260 pages – Publisher: LAP LAMBERT Academic Publishing (July 11, 2012) – Language: English – ISBN-10: 3659165514 - ISBN-13: 978-3659165511 – Product Dimensions: 5.9 x 0.6 x 8.7 inches https://www.amazon.com/L-carnitine-combating-deteriorative-effect-%CE%B2-Hydroxy-%CE%B3-Trimethylammonium/dp/3659165514

<p><u>Activities</u></p>	<ul style="list-style-type: none"> • May 2004 - Present: Member at the Egyptian General Syndicate of Pharmacists. • Dec 2009 - Present: Member at the Molecular Biology Society of Japan (MBSJ). • Sep 2017 – Aug 2020: Member at The Unit of Combating Violence against Women, Minia University. • Sep 2018 – Dec 2023: Director of Molecular Biology Unit, Faculty of Pharmacy, Minia University. • Jan 2023 - Present: Evaluator of Capstone Projects at STEM (Science, Technology, Engineering and Math) High Schools.
<p><u>Presentations at International Scientific Conferences</u></p>	<ul style="list-style-type: none"> • Molecular mechanism of Empagliflozin protective effect in intestinal ischemia/reperfusion injury via modulation of sodium glucose co-transporter and hypoxia inducible factor/vascular endothelial growth factor pathway. Marwa Monier Mahmoud Refaie, Entesar Farghly Amin, Marwa Nadi Hassan, Rehab Ahmed Rifaai, <u>Asmaa M.A. Bayoumi</u>, Maha Yehia Kamel. <i>Minia Pharmacy Scientific Conference (MPSC 2024), Minia, Egypt, Sep 25-26, 2024.</i> • Natural polyphenols reduce carbon tetrachloride induced liver fibrosis. <u>Asmaa M.A. Bayoumi</u>, Rania H. Abu-Baih. <i>The 1st African Health Summit, Cairo, Egypt, Jan 29 - Feb 1, 2019.</i> • Tempol: An Effective Prophylactic and Therapeutic Agent in a Murine Model of Septic Shock. <u>Asmaa M.A. Bayoumi</u>, Al-Shaimaa F. Ahmed, Mekky M. Abouzied. <i>The 6th International Conference of The Arab Society for Medical Research, Luxor, Egypt, Feb 20-24, 2018.</i> • Identification of DARS regulators in <i>E. coli</i>. <u>Asmaa Bayoumi</u>, Kazuyuki Fujimitsu, Shogo Ozaki, Kazutoshi Kasho and Tsutomu Katayama. <i>The 7th 3R Symposium, Toyama, Japan, Oct 27-31, 2010.</i> • CysB protein binds specifically to DARS2, a genomic sequence of <i>E.coli</i> that promotes replicational initiation by directly reactivating ADP-DnaA. <u>Asmaa Bayoumi</u>, Kazuyuki Fujimitsu and Tsutomu Katayama. <i>The 32nd Annual Meeting of the Molecular Biology Society, MBSJ2009, Yokohama, Japan, Dec 9-12, 2009.</i> • Role of β-hydroxy-γ-trimethylammonium butyrate and ubiquinone in combating the deteriorative effect induced by CCl₄ in rat's liver. <u>Asmaa M. Bayoumi</u>, Atef E. Abd El-Baky, Sanaa A. Ali and Laila M. Faddah. <i>Egypt-Japan International Symposium on Science and Technology, EJISST2008, Tokyo, Japan, Jun 8-10, 2008, page 74.</i>
<p><u>Fellowships & Scholarships</u></p>	<ul style="list-style-type: none"> • Dec 2020 - May 2021: Postdoctoral Fellowship (Granted from The Egyptian Government, Ministry of Higher Education) for Scientific Research at the Department of Biochemistry, Graduate School of Medical Sciences, Kyushu University, Japan. • Feb 2015 - Sep 2015: Postdoctoral Fellowship (Granted from The Egyptian Government, Ministry of Higher Education) for Scientific Research at the Department of Chemo-Pharmaceutical Sciences, Division of Molecular Bioinformatics, Faculty of Pharmaceutical Sciences, Kyushu University, Japan. • Apr 2010 - Mar 2011: Fuchi-Gami student scholarship of Japan. • Apr 2009 - Mar 2010: JASSO student scholarship of Japan. • Apr 2008 - Mar 2009: JASSO student scholarship of Japan.

<u>Awards</u>	<ul style="list-style-type: none"> • Award of International Publishing of Scientific Research, <i>Minia University</i>, June 2019. • Award of International Publishing of Scientific Research, <i>Minia University</i>, June 2020. • Award of International Publishing of Scientific Research, <i>Minia University</i>, June 2022. • Award of International Publishing of Scientific Research, <i>Minia University</i>, June 2023.
<u>Teaching Responsibilities</u>	<ul style="list-style-type: none"> • "Biochemistry-1 course for 3rd semester Clinical Pharmacy students", Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • "Biochemistry-2 course for 4th semester Clinical Pharmacy students", Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • "Clinical Nutrition course for 9th semester Clinical Pharmacy students", Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • "Practical Biochemistry course for Pharm-D students", Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Biochemistry Courses for students at Faculty of Pharmacy, Minia National University (MNU). • "Basic Biochemistry course for Post-Graduate Special Master Course Pharmacy students", Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Courses for Post-Graduate students of Diploma in Biochemistry, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt. • Courses for Post-Graduate students of Master in Biochemistry & Biotechnology, Department of Biochemistry, Faculty of Pharmacy, Minia University, Egypt: <ul style="list-style-type: none"> 1- Cell and Molecular Biology 2- Recombinant DNA Technology 3- Pharmacogenomics 4- Gene Therapy 5- Bioethics and Biotechnology 6- Lab Biosafety
<u>Supervision of M.Sc. Students</u>	<ol style="list-style-type: none"> 1) Evaluating the Role of Curcumin and Co-enzyme Q₁₀ in CCl₄ – Induced Liver Fibrosis in Rats. M.Sc. Thesis Prepared by: Dalia H.A.M. Abu-Baih. Supervised by: Prof. Dr. Ahmed M.M. Okasha, Dr. <u>Asmaa M.A. Bayoumi</u>. (Completed: May 2018). 2) Investigating The Protective Role of Curcumin and Resveratrol in CCl₄ – Induced Liver Fibrosis in Rats. M.Sc. Thesis Prepared by: Rania H. Abu-Baih. Supervised by: Prof. Dr. Salama R. Abdelraheim, Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Ahmed R.N. Ibrahim. (Completed: Jun 2018). 3) Investigating The Variations in The Expression Level of Some Protein Markers in Human Colorectal Carcinoma. M.Sc. Thesis Prepared by: Walid A. Abd El-Aziz. Supervised by: Prof. Dr. Mahmoud El-Rehany, Dr. <u>Asmaa M.A. Bayoumi</u>. (Completed: Sep 2020). 4) Possible Modulatory Effect of a Natural Polyphenolic Compound on Gentamicin-Induced Epithelial to Mesenchymal Transition in Kidney of Mice. M.Sc. Thesis Prepared by: Olivia N. Beshay. Supervised by: Prof. Dr. Mohamed S. Abdel-Bakky, Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Amany A. Bakhit. (Completed: Sep 2020). 5) Investigating The Immunomodulation And Regenerative Potentiality of Stem Cells on Some Hepatic Injuries Using Mesenchymal Stem Cells-Derived Hepatogenic Cells. M.Sc. Thesis Prepared by: Omar Y. Tammam. Supervised by: Prof. Dr. Mahmoud El-Rehany, Prof. Dr. Faten A. Mohamed, Dr. <u>Asmaa M.A. Bayoumi</u>. (Completed: Jan 2022). 6) The role of microRNA in protection against different organ toxicity in rats. M.Sc. Thesis Proposal Submitted by: Mohamed E. Khalaf. Supervised by: Dr. <u>Asmaa M.A. Bayoumi</u>, Mohamed G.E. Ewees. (Registered: Dec 2019). 7) Possible Modulatory Effect of Isothiocyanate Derivatives on Gentamicin-Induced Toxicity in Rats. M.Sc. Thesis Proposal Submitted by: Aya A.E. Said. Supervised by: Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Shaimaa W. Amgad, Dr. Al-Shaimaa F. Ahmed. (Registered: Mar 2022).

	<p>8) Effect of dihydromyricetin on sodium valproate-induced hepatorenal injury in rats. M.Sc. Thesis Proposal Submitted by: Doaa E. Roushdy. Supervised by: Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Shaimaa W. Amgad, Dr. Doaa M.E. Ali. (Registered: Jun 2022).</p> <p>9) Integrating High-Throughput Data and In-Silico Analyses with Functional and Mechanistic Assays to Identify Novel Therapeutic Targets in Chronic Liver Diseases. M.Sc. Thesis Proposal Submitted by: Rehab G.F. Mahmoud. Supervised by: Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Marco Y.W. Zaki. (Registered: Jan 2023).</p>
<u>Supervision of Ph.D. Students</u>	<ul style="list-style-type: none"> • Effect of Resveratrol on Epithelial-to-Mesenchymal Transition in Hepatocellular Carcinoma. Ph.D. Thesis Proposal Submitted by: Esraa M.M.A. Khalifa. Supervised by: Prof. Dr. Mohamed M. Sayed-Ahmed, Prof. Dr. Maiiada H. Nazmy, Dr. <u>Asmaa M.A. Bayoumi</u>. (Registered: Dec 2019).
<u>Participation in The Judgment Committees of Scientific Theses</u>	<p>1) Investigating The Variations in The Expression Level of Some Protein Markers in Human Colorectal Carcinoma. M.Sc. Thesis Prepared by: Walid A. Abd El-Aziz. Judgment Committee: Prof. Dr. Atef M. Abul Fadl, Dr. Maiiada H. Nazmy, Dr. <u>Asmaa M.A. Bayoumi</u>. (Sep 2020).</p> <p>2) Possible Modulatory Effect of a Natural Polyphenolic Compound on Gentamicin-Induced Epithelial to Mesenchymal Transition in Kidney of Mice. M.Sc. Thesis Prepared by: Olivia N. Beshay. Judgment Committee: Prof. Dr. Mahmoud A. El-Rehany, Prof. Dr. Hafez R. Madkour, Dr. <u>Asmaa M.A. Bayoumi</u>. (Sep 2020).</p> <p>3) Investigating The Immunomodulation And Regenerative Potentiality of Stem Cells on Some Hepatic Injuries Using Mesenchymal Stem Cells-Derived Hepatogenic Cells. M.Sc. Thesis Prepared by: Omar Y. Tammam. Judgment Committee: Prof. Dr. Hafez R. Madkour, Prof. Dr. Mostafa F. Ramadan, Prof. Dr. Mahmoud A. El-Rehany, Prof. Dr. Faten A. Mohamed, Dr. <u>Asmaa M.A. Bayoumi</u>. (Jan 2022).</p> <p>4) Investigation of Novel Protective Agents Against The Toxicity of Cisplatin. M.Sc. Thesis Prepared by: Hend A. Anwar. Judgment Committee: Prof. Dr. Salama R. Abdelraheim, Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Eman M. Othman. (Oct 2022).</p> <p>5) Genetic Polymorphisms and Serum Levels of Inflammatory Markers in Diabetic Patients with Depression and Cognitive Impairment. M.Sc. Thesis Prepared by: Al-Zahraa Y.A. El-Wahhab. Judgment Committee: Prof. Dr. Mostafa M. Mohammed, Dr. <u>Asmaa M.A. Bayoumi</u>, Dr. Michael A. Fawzy. (Dec 2023).</p>
<u>Laboratory Skills & Techniques</u>	<ul style="list-style-type: none"> • RI license from Kyushu University Radio Isotope (RI) Center, Fukuoka, Japan. • Preparation of bacterial cell culture and media, plasmid cloning & transformation. • Preparation of mammalian cell culture and media, plasmid transfection & cell lysis. • Protein purification (Ni-NTA agarose column) and analysis. • DNA preparation (PCR) and purification (spin column). • Electrophoretic mobility shift assay (EMSA). • Filter binding assay (FBA) and liquid scintillation counting (LSC). • Western Blotting (WB). • Pull-down assay. • Immunoprecipitation (IP). • Flow cytometry analysis. • Immunocytochemistry (ICC).
<u>Training Courses</u>	<p>I. Scientific Training Courses:</p> <ol style="list-style-type: none"> 1. Immunoblotting (<i>Faculty of Pharmacy, Minia University, Jul 24, 2024</i>). 2. Principles of Cell Culture (<i>Faculty of Pharmacy, Minia University, Jul 28, 2024</i>). 3. Bioinformatics (<i>Faculty of Pharmacy, Minia University, Aug 1, 2024</i>).

	<p>II. <u>Courses at Faculty and Leadership Development Center (FLDC), Minia University:</u></p> <ol style="list-style-type: none"> 1. Scientific Research Methods (أساليب البحث العلمي), Dec 2004. 2. Thinking Skills (مهارات التفكير), Apr 2005. 3. Effective Teaching Skills (مهارات التدريس الفعال), May 2005. 4. Effective Communication Skills (مهارات الاتصال الفعال), Jul 2005. 5. Ethics of Profession (أداب وأخلاقيات المهنة), Aug 2005. 6. Quality Standards in Teaching (معايير الجودة في العملية التدريسية), Nov 2007. 7. The Use of Technology in Teaching (استخدام التكنولوجيا في التدريس), Jul 2011. 8. Credit Hours System (نظام الساعات المعتمدة), Aug 2011. 9. Effective Presentation Skills (مهارات العرض الفعال), Aug 2011. 10. University Management (الإدارة الجامعية), Jun 2019. 11. Strategic Planning (التخطيط الاستراتيجي), Jul 2019. 12. Dealing with Students with Special Needs (التعامل مع الطلاب ذوي الاحتياجات الخاصة), Mar 2022. 13. Anti-Corruption (مكافحة الفساد), Mar 2022. 14. Ethics in Scientific Research and International Publishing (أخلاقيات البحث العلمي والنشر الدولي), Dec 2022. 15. Exam Systems and Students' Evaluation (نظم الامتحانات وتقييم الطلاب), Feb 2023. <p>III. <u>Courses at Information Technology Center (ITC), Minia University:</u></p> <ol style="list-style-type: none"> 1. Concepts of IT (Sep 2011). 2. Using Computers and Managing Files (Sep 2011). 3. Word Processing (Sep 2011). 4. Spreadsheets (Sep 2011). 5. Database (Oct 2011). 6. Information and Communication (Oct 2011). 7. Introduction to PC Maintenance and Protection (Oct 2011). 8. Creating Personal Electronic Websites (إنشاء مواقع إلكترونية شخصية), Dec 2021. 9. EndNote (البحث في قواعد البيانات العالمية، وإدارة المراجع العلمية), Feb 2024.
<u>Courses Studied for Preparation of M.Sc.</u>	<ul style="list-style-type: none"> • Basic Biochemistry: Excellent. • Advanced Biochemistry: Excellent. • Analytical Biochemistry: Very Good. • Physical Chemistry: Excellent. • Mathematics: Excellent. • Statistics: Excellent. • Computer Sciences: Excellent. • Instrumental Analysis: Very Good.
<u>Language Skills</u>	<ul style="list-style-type: none"> • Arabic Language: Native. • English Language: Fluent. • Japanese Language: Fair. • French Language: Fair.
<u>Computer Skills</u>	<ul style="list-style-type: none"> • ICDL: Successfully passed all modules (Information Technology, Windows, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Microsoft Access, and Internet) required for the granting of the International Computer Driving License (ICDL). • Operating Systems: Windows, Mac. • Applications: Microsoft Office, Graphpad Prism, Image-J.
<u>Special Skills</u>	<ul style="list-style-type: none"> • Egyptian private car driving license. • Japanese private car driving license.