

CURRICULUM VITAE

Wael M. El-Sayed, Ph.D.

Professor of Toxicology and Physiology

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Name: WAEL MOHAMED EL-SAYED

Birth date / Place: Dec 3rd, 1971 / Cairo, Egypt

Marital Status: Married, 4 children.

Nationality: Egyptian.

Brief Description of Research Status

- No. of articles in international peer-reviewed journals (ISI)	83
- Total number of citations at Google scholar	1609
- Total number of citations at Scopus	1212
- Total number of citations at Researchgate	1388
- <i>h</i> -index at Google scholar	23
- <i>h</i> -index at Scopus	21
- <i>h</i> -index at Researchgate	22
- Scopus ID	6603869322
- ORCID ID	0000-0002-3622-1417
- Web of Science Researcher ID	ABD-9236-2021
- RCA ID:	00039072
- https://www.researchgate.net/profile/Wael-El-Sayed-4	
- http://livedna.org/20.1512	
- https://referencecitationanalysis.com/00039072	

Education:

- 2003 **Ph.D.**, Ain Shams University, Egypt and College of Pharmacy,
University of Utah, Salt Lake City, Utah, USA under the Joint
Supervision Program.
- 1999 **M.Sc.**, Faculty of Science, Ain shams University, Cairo, Egypt.
Physiology
- 1993 **B.Sc.**, Faculty of Science, Ain Shams University, Cairo, Egypt.

Current Position:

Professor of Physiology and Toxicology

Professional Experience:

- 2014-Date Professor, Zoology Department, Faculty of Science, Ain Shams
University, Cairo, Egypt
- 2013-2014 Associate Professor, Zoology Department, Faculty of Science, Ain
Shams University, Cairo, Egypt
- 2007-2013 Associate Professor, Biology Department, Faculty of Science, King
Faisal University, AlHasaa, Kingdom of Saudi Arabia
- 2003-2007 Assistant Professor, Zoology Department, Faculty of Science, Ain
Shams University, Cairo, Egypt
- 2004-2006 Post-Doctoral fellow, Department of Pharmacology and
Toxicology, Faculty of Pharmacy, University of Utah, Utah, USA.
- 2001-2003 Ph.D. candidate, Department of Medicinal Chemistry, Faculty of
Pharmacy, University of Utah, Utah, USA.
- 1999-2003 Assistant lecturer, Zoology Department, Faculty of Science, Ain
Shams University, Cairo, Egypt
- 1994-1999 Demonstrator, Zoology Department, Faculty of Science, Ain Shams
University, Cairo, Egypt

Fellowships, Awards and Grants:

- 2020 Impact of Zinc Oxide-Sea Lettuce (*Ulva lactuca*) Nanocomposite as a Dietary Supplement on the Crayfish (*Procambarus clarkia*), funded by STDF, LE 300,000, *Co-I*
- 2018 Synthesis and anticancer activity of novel bithiophenes funded by Research Unit, Mansoura University, project no. MU-SCI-18-13.
- 2017 Molecular and biological characterization of homemade recombinant human interferon alpha 2b (Funded by STDF)
- 2013 Synthesis of novel Bi- and oligothiophene derivatives and their anticancer and antimicrobial activities. (funded project by King Faisal University, SAR 100,000). *PI*
- 2013 Synthesis, molecular modeling studies of novel cationic aza-furamidines and their antimicrobial and antimutagenic activities in mice. (funded project by King Faisal University, SAR 100,000). *Co-I*
- 2012 Anticancer and antimicrobial activities of novel monocationic phenyl-2,2'-bichalcophenes. (funded project by King Faisal University, SAR 100,000). *PI*
- 2012 The effects of fluoro- mono- and oligo-cationic phenyl-2,2'-bichalcophenes on the potency of β -lactam antibiotics against multidrug resistant (MDR) *Staphylococcus aureus*. (funded project by King Faisal University, SAR 200,000). *Co-I*
- 2012 Synthesis, antimicrobial and anticancer activities, and molecular modeling studies on Novel pyrimidine isosters of antihypertensive drug Nifedipine. (funded project by King Faisal University, SAR 99,400). *Co-I*
- 2012 Synthesis and biological activity of Novel Cationic Imidazo[1,2-a]pyridines and analogues. (funded project by King Faisal University, SAR 99,500). *Co-I*
- 2011 Antifibrotic and anti-inflammatory effects of taurine and silymarin against carbon tetrachloride-induced non-alcoholic fatty liver in male rats. (funded project by King Faisal University, SAR 100,000). *Co-I*

- 2010 Studying the Chemical Composition and Anticancer, Antioxidant, and antimutagenic Activities of Certain Plants Grown in Saudi Arabia (funded project by KACST, SAR 750,000). *PI*
- 2010 Biological effects of flavonoids and oxygen in triplet and singlet states (funded project by King Faisal University, SAR 100,000). *PI*
- 2010 Antibacterial, antimutagenic, and antioxidant activities of certain plants grown or consumed in KSA (funded project by King Faisal University, SAR 100,000). *Co-I*
- 2009 The Egyptian Syndicate of Scientific Professions prize for distinguished Scientists
- 2009 State Incentive Award in Biological Sciences (Molecular Toxicology). Awarded by the Academy of Scientific Research and Technology, Cairo, Egypt.
<http://awards.asrt.sci.eg/htm/2008/waaelmohamedelsaid.html>
- 2009 Evaluation of the effects of some antiviral drugs used to treat avian flu in comparison with natural herbs on healthy animals (funded project by King Faisal University, SAR 200,000). *PI*
- 2008 Modulatory Effects of some Saudi Plants on Certain Experimentally-Induced Immunological and Physiological disorders (funded project by King Faisal University, SAR 200,000). *Co-I*
- 2008 The distinguished research paper of the year award - Ain Shams University, Cairo, Egypt.
- 2004-2007 Evaluation of selenazolidines prodrugs as potential anticancer agents, USPHS, Grant GM 058913, NIH grant R01GM58913, University of Utah facilities and the Huntsman Cancer Institute from NIH grants 5 P30 CA42014, 1S10 RR14768, and RR06262. (USA, \$1000,000), *Co-I*
- 2004 Postdoctoral Fellowship sponsored by the Department of Pharmacology and Toxicology, School of Pharmacy, University of Utah (SLC, Utah, USA), 30 months.

- 2001 Ph.D. Scholarship to USA (College of Pharmacy, University of Utah), sponsored by the Egyptian Administration of Mission under the joint supervision scheme (2 years).
- 1994 Ain Shams Medal of Honor for distinguished students
- 1993 The Egyptian Syndicate of Scientific Professions prize for distinguished student
- 1993 Prof. El-Tohamy Award for the best B.Sc. student in Zoology.
- 1993 Egyptian Society of Histology Award for the best B.Sc. student in Histology.

Research Interests:

With 30 years of experience in Physiology, Toxicology, Drug development, Molecular Biology, Natural products and Tissue Culture research.

1. Natural products including plant and animal sources
2. Drug-drug interaction and drug metabolism
3. Evaluation of novel drugs
4. Chemoprotection and chemoprevention strategies in cancer
5. Antioxidants
6. Biochemical and molecular toxicology
7. Molecular Biology and Biotechnology

Supervision of Theses

A) Ph.D.:

1. Investigating the relationship between estrogen and short stature among young females in Gaza.
2. Evaluation of ginger and monocationic bithiophene activity against dimethylhydrazine-induced colon cancer in male albino rats.
3. Ameliorative effects of safranal and N-acetylcysteine on the neuro- and biochemical dysfunction induced by hyperthyroidism in the brain of adult male albino rats.

4. Evaluation of the ameliorative effects of safranal and selenium on the liver damage induced by thyrotoxicosis in adult male albino rats
5. Palliative activity of taurine against oxidative stress induced by Gamma radiation in male albino rats
6. Molecular and biological characterization of homemade recombinant human interferon alpha 2b
7. Effect of chitosan and gold nanoparticles on the expression of hepatic phase I and phase II drug metabolizing enzymes of male rats
8. Evaluating the antifertility effects of some plant extracts and testosterone in the house mouse as a prelude to its control
9. Evaluation of the Antidepressant Activity of Pumpkin Seed Oil and Zinc in male Depressed Rats
10. Evaluating the Role of a Novel Bithiophene in Suppressing the Acute Myeloid Leukemia Induced by Benzene in Mice
11. Assessment of A Novel Bithiophene Potential in the Treatment of AlCl₃-induced Alzheimer Disease in Adult Male Albino Rats
12. Profiling of Liver miRNAs Using Next Generation Sequencing Approach in Egyptian Patients with Hepatocellular Carcinoma after Tumor Resection
13. Impact of Zinc Oxide-Sea Lettuce (*Ulva lactuca*) Nanocomposite as a Dietary Supplement on the Crayfish (*Procambarus clarkia*)
14. The Possible Palliative Activity of Resveratrol and Hinokitiol against the Damage Induced by Gamma Irradiation in Adult Male Rats
15. Evaluation of the Chemotherapeutic Activity of Some Bithiophenes against the Human Non-Small Cell Lung Cancer
16. The potential palliative effect of nanocurcumin particles against Parkinson's disease in male mice model
17. Exploration of the Mechanisms of the Chemotherapeutic Activity of Some New Thiophenes in the liver cancer cell line (HepG2).

B) M. Sc.:

1. Evaluation of the influence of ginger (*Zingiber officinale*) extract on some metabolic disorders in male Albino Rats.

2. Studying the Potential Palliative Activity of Selenium and Sulfur against Aluminum-Induced Toxicity in Adult Male Albino Rats.
3. Analyzing the apoptotic pathways in cell lines treated with some pure natural compounds
4. Effect of some flavonoids and sodium selenite on mercury-induced hepatotoxicity in adult male rats
5. Assessment of Some Commercial Anti-aging Supplements Effect on Aging Biomarkers in the Liver of Male Rats
6. Potential ameliorative effect of *Pterocarpus santalinus* against streptozotocin-induced diabetes mellitus in adult male rats
7. Possible ameliorative effects of rosemary and coenzyme Q10 against the hepatotoxicity induced by carbamazepine and acetaminophen in adult male rats
8. Putative role of fibroblast growth factor 23 in diagnosis and prognosis of kidney diseases in human
9. Tracking some Cellular Signaling Pathways Evoked by Bee Venom and Melittin Combined with Ionizing Radiation in a Breast Cancer Cell Line
10. Study of miRNA-370 and miRNA-375 Expression in Egyptian Pediatric Acute Myeloid Leukemia patients
11. The Potential Ameliorative Effect of Quercetin and/or L-Arginine Against Liver damage induced by Copper Oxide Nanoparticles in Adult Male Mice
12. Evaluation of the Efficacy of a Bithiophene Compound Against Mammary Gland tumor Induced by Dimethyl Benz(a)Anthracene in Adult Female Albino Mice
13. Possible Ameliorative Effect of Gum Acacia against Adenine-Induced Chronic Kidney Disease in Adult Male Rats
14. Evaluation of the deleterious effects of zinc oxide nanoparticles on the testis of adult rats
15. Potential Protective Effect of Isoquercitrin and Taurine against Methotrexate-Induced Cardiotoxicity in Adult Male Rats
16. Possible Mechanisms of Cytotoxic Activity of Azafuramidines against some Cancer Cell Lines

17. Evaluation of the Potential Therapeutic Efficacy of Novel Aryl Thiophenes against Sepsis Induced in Adult Male Rats
18. Studying the Effect of Some Herbal Extracts on Drug Metabolizing Enzymes in Adult Male Rats

Teaching Experiences:

At University of Ain Shams

General Physiology for Pre-pharmacy and Pre-dentistry students.
Metabolism for 3rd year students (Zoology and Zoology/Chemistry).
Methods in Experimental Physiology, Toxicology, Nutrition for 3rd year students (Zoology).
Myology for 3rd year students (Biophysics) and 4th year students (Zoology/ Chemistry).
Neurology for 4th year students (Zoology/Chemistry).
Heart and Circulation for 4th year students (Zoology/Chemistry).
Excretion and Osmoregulation for 4th year students (Zoology major).
Animal Behavior, Endocrinology for 4th year students (Zoology, Zoology/Chemistry).
Toxicology for 4th year students (Zoology/Chemistry)
Nutraceuticals for 4th year students (Zoology)
Hematology for Higher Diploma students
Enzymology for Higher Diploma and premaster students

At King Faisal University

General Biology for 1st year students - Faculty of Medicine
General Biology for 1st year students - Faculty of Pharmacy
General Biology for 1st year students - Faculty of Education
General Biology for 1st year students - Faculty of Science
Embryology for 4th year students - Faculty of Science
Animal Physiology for 4th year students - for Faculty of Science
Research Project for 4th year students - Faculty of Science

Computer Experience

- Microsoft Office (Word, Access, PowerPoint, and Excel)

- Statistical analysis programs (SPSS, ANOVA, and GraphPad Prism)
- Acrobat Reader and Adobe Acrobat Professional
- Adobe Photoshope
- EndNote for searching, loading and writing references.
- Molecular Biology Software for DNA and proteins such as ALIGN, Blast etc.
Define the restriction enzymes and sites.
- ChemDraw and ISIS for drawing chemical structures

Membership of Societies and Committees:

2023 - Present	International Medical Research Center (Jordan)
2021 - Present	Academy of Excellence in Biosciences (UAE)
2020 - Present	Editor of Journal of Basic and Applied Zoology
2015 – Present	Asian Council of Science Editors (ACSE)
2011 –Present	Member of the WebmedCentral global advisory board
2010 – 2014	Member of the Saudi Biological Society
2006 - Present	Egyptian Society of Toxicology
2004 - 2006	Society of Toxicology (USA)
1993 – Present	Member of Egyptian Syndicate of Scientific Professions.
1993 – Present	Member of the Egyptian Society of Zoology.
1993 – Present	Member of the Egyptian-German Society of Zoology.

Academic Administrative Activities

At Ain Shams University:

1. Member of a committee responsible for checking the new instruments.
2. Member of the faculty quality assurance unit
3. Member of the chemicals committee.
4. Member of the scientific level development committee.
5. Member of the seminars committee.
6. Member of the annual report preparation committee.
7. Member of the Library committee.
8. The Department representative in the Network of FP7 focal points in Egypt.
9. Supervision of the undergraduate and postgraduate practical courses.

10. Preparation of materials required for laboratory sessions.
11. Preparing, controlling and evaluating oral, practical and theoretical exams.

At King Faisal University:

1. Member of the faculty quality assurance unit
2. Member of the financial committee
3. Establishing the mission, vision, and objectives of department of Biology and the whole Faculty of Science, King Faisal University
4. Preparing the first diagnostic study for the Faculty of Science, King Faisal University
5. Member of the Faculty of Science Budget Committee
6. Coordinator of the External Reviewers team for Academic Accreditation
7. Member in the Research Ethics committee, King Faisal University
8. Supervision of the undergraduate and postgraduate practical courses.
9. Preparation of materials required for laboratory sessions.
10. Preparing, controlling, and evaluating oral, practical and theoretical exams.

Training and Workshops:

- 2012, Mar Workshop on "Quality requirements in distance and E-learning-Learning management system" Deanship of Quality Assurance and Academic Accreditation, King Faisal University, KSA.
- 2012, Feb Workshop on "Establishing data analysis and reporting systems based on NCAAA requirements" Deanship of Quality Assurance and Academic Accreditation, King Faisal University, KSA.
- 2012, Feb Workshop on "Course Report" Department of Biological Sciences, Faculty of Science, King Faisal University, KSA.
- 2012, Jan Workshop on "Course Design by Dr. Michael Palmer and Dr. Peter Felten" College of Computer Sciences, Deanship of Educational Development, King Faisal University, KSA.

- 2011, Nov Workshop on "Learning Outcomes according to National Qualification Framework (NQF)" Deanship of Quality Assurance and Academic Accreditation, King Faisal University, KSA.
- 2011, Oct Workshop on "Preparing the final draft of the bylaw of the regulations of research ethics on living creatures" King Abdulaziz City for Science and Technology, Riyadh, KSA.
- 2011, Oct Workshop on "Blackboard" High Education Development Deanship, King Faisal University, KSA.
- 2011, Oct Workshop on "Management & Implementation of Self-study for Institutional Accreditation" Held by British Council, National Commission for Assessment and Academic Accreditation (NCAAA), and King Faisal University, KSA.
- 2011, May Workshop on the "Role of King Abdulaziz City for Science and Technology in the fields of research funding." King Faisal University.
- 2011, May Workshop on the "Nanobiotechnology in University of Natural Resources and Life Sciences, Vienna, Austria." King Faisal University, KSA.
- 2011, Mar Workshop on "Development Procedures for Accreditation" Deanship of Quality Assurance and accreditation, King Faisal University, KSA.
- 2011, Mar Workshop on "Learning Outcomes in Planning, Delivery and Evaluation" British Council and National Commission of Assessment and Academic accreditation (NCAAA), Jeddah.
- 2011, Mar Workshop on "Quality assurance standards in higher education and academic advising using A.D.R.I model" Deanship of Quality Assurance and accreditation, King Faisal University.
- 2011, Feb Workshop on "How to perform self-evaluation⁵ for higher education programs" King Faisal University, KSA.

- 2010, Oct Workshop on preparation of course and program specifications and course reports. Deanship of Quality Assurance and accreditation, King Faisal University, KSA.
- 2010, June Workshop for strategic planning for scientific research in King Faisal University, KSA.
- 2010, Mar Workshop in “Skills of Evaluation in University”, King Faisal University, AlAhsaa, KSA.
- 2010, Feb Workshop in “Using SPSS in Research”, King Faisal University, AlAhsaa, KSA.
- 2008 Preparing exams using WebCT and BlackBoard technology, Ahsaa Intercontinental hotel, AlAhsaa, KSA.
- 2008 Improving my communication skills, Ahsaa Intercontinental hotel, AlAhsaa, KSA.
- 2007 The first conference of scientific research for development “Towards a strategy for application” organized by Ain Shams University, Cairo, Egypt.
- 2007 Symposium on Teaching using the Modern Technological Methods, Cairo, Egypt.
- 2007 Workshop in research ethics, Cairo, Egypt.
- 2006 Symposium on Management of the Scientific Research, Cairo, Egypt.
- 2006 Workshop in Quality Assurance and Accreditation, Cairo, Egypt.
- 2006 Workshop in Information Technology, Cairo, Egypt.
- 2006 Training on writing grants and proposals, Cairo, Egypt.
- 2005 How to work with bacteria (such as *E. coli* and *Salmonella typhimurium*), Ames test and antimutagenicity assessment, SLC, Utah, USA.
- 2004 Training on how efficient teaching should be, Cairo, Egypt.
- 2004 Training in enzyme kinetics, SLC, Utah, USA.
- 2003 Training in Northern blotting, cloning, and PCR, SLC, Utah, USA.
- 2002 Extensive training in cell culture techniques, SLC, Utah, USA.
- 2002 How to give a good presentation and on panel discussion, SLC, Utah, USA.

- 2001 Workshop in using radioactive materials and biosafety, SLC, Utah, USA.
- 2001 Workshop in using animals in experimentation, SLC, Utah, USA.
- 1996 Training on how an assistant lecturer can efficiently teach, Cairo, Egypt.

- Attendance of Conferences and Posters:

- 2021 Aug 7th Annual Conference of the Asian Council of Science Editors (ACSE)
- 2018, Nov 2nd International Conference of the Faculty of Pharmacy, Ain Shams University (2nd ICPASU), Cairo, Egypt
- 2013, Feb The 1st International conference on Sustainability of Camel Population and Production. King Faisal University, Al-Ahsa, Saudi Arabia. **Chairman of Biotechnology Session**
- 2012, May "Hepatotoxicity of Al³⁺ in mice" First Scientific Day of the College of Science, KFU, Saudi Arabia.
- 2010, May The 25th meeting of the Saudi Biological Society "Nanotechnology in Life Sciences" Al-Ahsaa, KSA.
- 2006, Apr The 21st scientific conference of the Egyptian Society of Toxicology "Environmental factors and gene contribution", Cairo, Egypt.
- 2006, Mar The 45th Annual Meeting of the Society of Toxicology (SOT), San Diego, California-USA.
- 2005, Sept Annual Bioscience Symposium, University of Utah, Salt Lake City, Utah-USA.
- 2004, Sept The 22nd Annual Meeting of the Mountain West Society of Toxicology (MWSOT), Park City – Utah, USA.
- 2004, Sept Annual Bioscience Symposium, University of Utah, Salt Lake City, Utah-USA.
- 2004, Apr The University of Utah - College of Pharmacy Research Symposium, Salt Lake City – Utah, USA.
- 2002, Sept The 20th Annual Meeting of the Mountain West Society of Toxicology (MWSOT), Las Vegas – Nevada, USA.

- 2002, July The 43rd annual ASP meeting (3rd Monroe Wall symposium),
New Brunswick, New Jersey, USA.
- 2001, Aug Annual Bioscience Symposium, University of Utah, Salt Lake
City, Utah-USA.

Reviewing and Editorial Boards of Journals

- Reviewer for the Scientific Committee for promotion of professors and assistant professors, Supreme Council of Universities (Egypt)
- Reviewer for the Scientific Committee for promotion of professors and assistant professors, National Organization for Drug Control and Research (NODCAR, Egypt)
- Reviewer for the Scientific Committee for promotion of professors and assistant professors AlHussain Bin Talal University (Jordan)
- Reviewer for the Scientific Committee for promotion of professors and assistant professors, King Khaled University (KSA)
- Reviewer for the Scientific Committee for promotion of professors and assistant professors, Umm Al-Qura University (KSA)
- Reviewer for the research projects for King Saud University, KSA
- Reviewer for the research projects for King Khalid University, KSA
- Reviewer for the research projects for King Faisal University, KSA
- Reviewer for the research projects for King AbdulAziz City for Science and Technology, KSA
- Associate Editor for The Journal of Basic and Applied Zoology (**Springer**)
- Associate Editor for Discover Toxicology (**Springer**)
- Associate Editor for Journal of Alzheimer's Disease (**Sage, IOS**)
- Reviewer for a number of international journals (34) including;
 - **Toxicology**
 - **Journal of Hazardous Materials**
 - **Biological Trace Elements Research**
 - **Toxicology in vitro**
 - **Chemico-Biological Interactions**
 - **Mutation Research**
 - **Acta Pharmacologica Sinica**

- **Drug Design, Development and Therapy**
- **European Journal of Medicinal Chemistry**
- **Journal of Alzheimer's Disease**
- **Iranian Journal for Basic and Medical Research**
- **Anticancer Agents in Medicinal Chemistry**
- **Nutrition and Food Science**
- **Discover Toxicology (Springer)**
- **Journal of Applied Pharmaceutical Science**
- **Biochemistry and Biotechnology Research**
- **Egyptian Journal of Aquatic Biology and Fisheries**
- **Aquaculture Reports**
- **Recent Patents on Drug Delivery & Formulation**
- **Nutrition and Dietary Supplements**
- **Orphan Drugs: Research and Reviews**
- **Journal of Experimental Pharmacology**
- **King Faisal University Scientific Journal**
- **Saudi Medical Journal**
- **International Journal of Medicinal and Aromatic Plants**
- **American Journal of Digestive Disease**
- **African Journal of Biological Sciences**
- **Journal of Clinical Hematology**
- **Egyptian Pharmaceutical Journal**
- **Journal of Nutritional Oncology**
- Reviewer and Editor for Science Alert Journals
 - **Journal of Biological Sciences**
 - **International Journal of Cancer Research**
 - **Journal of Pharmacology and Toxicology**
 - **American Journal of Drug Discovery and Development**
 - **Asian Journal of Clinical Nutrition**
- WebmedCentral global advisory board
- International Journal of Medicine and Medical Sciences (Editorial Board)
- The Journal of Basic and Applied Zoology (Editorial Board)

List of Publications

A. Under review

1. Ahmed DH, El-Beih NM, El-Hussieny EA, **El-Sayed WM**. Large diameter zinc oxide nanoparticles reduced testicular CYP17A1 and viability and elevated testicular inflammation in adult male rats. *Under Review*
2. Qasem HH, **El-Sayed WM**. The bacterial microbiome and cancer: development, diagnosis, treatment, and future directions. *Under Review*
3. AbdulKhaliq RJ; Alwandawi TK, Al-Hamadani MYI, El-Sayed WM. Immunological Impact of Vaccination on INF- γ and TNF- α Levels: Gender Disparities and Infection Status Modulation in Iraq Subjects. *Under review*
4. Anwer MS, El-Sayed WM. Exploring Tephrosin: A review of its potential in cancer therapy and multifaceted anticancer mechanisms. *Under review*
5. Abdel-Rasol MA, El-Beih NM, El-Sayed WM. Ethanol extract of ginger provides superior amelioration compared to water suspension for hypercholesterolemia and oxidative stress induced by a high-cystine diet in adult male rats. *Under review*
- 6.

B- Accepted

7. EL-Azma MHA, EL-Beih NM, EL-Shamy KA, Koriem KMM, EL-Kassaby MI, **EL-Sayed WM**. Pumpkin seed oil exerted antidepressant effects through ameliorating the oxidative stress and neuroinflammation in the hippocampus of depressed rats. *Egyptian journal of Chemistry*
8. Mahmoud MM, El-Batran SA, Hegazy R, **El-Sayed WM**. Taurine and enzymatically modified isoquercitrin synergistically protect against the methotrexate-induced cardiotoxicity in rats: antioxidant and antiapoptotic effects. *Drug and Chemical Toxicology*
9. AbdElRaouf K, Farrag HS, El-Ganzuri MA, **El-Sayed WM**. A new bithiophene inhibited the β -amyloid accumulation and enhanced cognitive functions in the hippocampus of aluminium-induced Alzheimers disease in adult rats. *Journal of Alzheimer's Disease*

10. Fathy A, Mostafa D, Sedeq H, Hassan H, Abdullah H, Fawzy M, Abdelgilil M, Ebrahim Y, **El-Sayed WM**. Neuroinflammation-Microglia and NDG, *In: Essential Guide to Neurodegenerative Disorders Mechanistic, Diagnostic and Therapeutic Advances*. Published by Elsevier, 1st edition. ISBN: 9780443157028 / eBook ISBN: 9780443157035

C- Published

11. Mahmoud MM, El-Batran SA, Hegazy R, **El-Sayed WM**. Taurine and enzymatically modified isoquercitrin protected against methotrexate-induced deteriorations in the conductivity and rhythmicity of the heart in rats: antioxidant, anti-inflammatory, and histological architecture approach. *Journal of Applied Toxicology*, 2024: 1-12. [10.1002/jat.4682](https://doi.org/10.1002/jat.4682)
12. Abd El-Raouf K, El-Ganzuri MA, **El-Sayed WM**. Therapeutic Effects of a New Bithiophene against Aluminium-Induced Alzheimer's Disease in a Rat Model: Pathological and Ultrastructural approach. *Tissue & Cell* 90: 102529. [10.1016/j.tice.2024.102529](https://doi.org/10.1016/j.tice.2024.102529)
13. Omar HM, Salaah SM, Saad AA, Azzam AM, Khalil MT, **El-Sayed WM**. Zinc oxide-*Ulva lactuca* nanocomposite is a robust dietary immunostimulant in the red swamp crayfish (*Procambarus clarkii*). *Fish and Shellfish Immunology* 153 (2024) 109831. [10.1016/j.fsi.2024.109831](https://doi.org/10.1016/j.fsi.2024.109831)
14. Ahmed DH, El-Beih NM, El-Hussieny EA, **El-Sayed WM**. Zinc oxide nanoparticles caused testicular toxicity through inflammation and reducing testosterone and cell viability in adult male rats. *Biological Trace Element Research*: [10.1007/s12011-024-04330-1](https://doi.org/10.1007/s12011-024-04330-1)
15. Haneen DSA, Hekal MH, Abou-Elmagd WSI, **El-Sayed WM**. Novel pyrano[2,3-c]pyrazolopyrimidines as promising anticancer agents: Design, synthesis, and cell cycle arrest of HepG2 cells at S phase. *Synthetic Communications* 54(8), [10.1080/00397911.2024.2327047](https://doi.org/10.1080/00397911.2024.2327047)
16. AbdEl-Raouf K, Farrag HSH, Rashed R, Ismail MA, El-Ganzuri MA, **El-Sayed WM**. New bithiophene derivative attenuated Alzheimer's disease in a rat model *via* antioxidant activity and restoration of neuronal and synaptic transmission. *J Trace Elements Med Biol.* 82(2024): 127352. [10.1016/j.jtemb.2023.127352](https://doi.org/10.1016/j.jtemb.2023.127352)

17. Elsibaei, S.M., Amleh, A., Ismail, M.A., El-Sayed, W.M., Azafuramidines as Potential Anticancer Agents: Pro-apoptotic Profile and Cell Cycle Arrest, *Bioorganic & Med Chem Lett* (2023), DOI: [10.1016/j.bmcl.2023.129550](https://doi.org/10.1016/j.bmcl.2023.129550)
18. Haroun AM, **El-Sayed WM**, Hassan RE. Quercetin and L-arginine ameliorated the deleterious effects of copper oxide nanoparticles on liver of mice through anti-inflammatory and anti-apoptotic pathways. *Biol Trace Element Res* (2023) <https://doi.org/10.1007/s12011-023-03884-w>
19. Hekal MH, Farag PS, Hemdan MM, El-Sayed AA, Hassaballah AI, **El-Sayed WM**. 2023. New 1,3,4-Thiadiazoles as Potential Anticancer Agents: Pro-apoptotic, Cell Cycle Arrest, Molecular modelling, and ADMET Profile. *RSC Advances*, **13**(23): 15810-15825. <https://doi.org/10.1039/d3ra02716c>
20. El-shaqqery HE, Mohamed RH, Samir O, Ayoub I, **El-Sayed WM**, Sayed AA. miRNome of Child A hepatocellular carcinoma in Egyptian patients. 2023. *Frontiers in Oncology*, **13**. doi.org/10.3389/fonc.2023.1137585
21. El Bakri Y, Mohamed SK, Saravanan K, Ahmad S, Mahmoud AA, Abdel-Raheem SAA, **El-Sayed WM**, Mague JT, Said SG. 2023. 1,4,9,9-tetramethyloctahydro-4,7-(epoxymethano)azulen-5(1H)-one, a natural product as a potential inhibitor of COVID-19: Extraction, crystal structure, and virtual screening approach. *J King Saud Univ-Sci*. **35**(4): 102628 doi.org/10.1016/j.jksus.2023.102628
22. Maha Mostafa, Sohail Soliman, Reham Ibrahim, **Wael M. El-Sayed**. 2023. Investigating the Antifertility Efficacy of Testosterone on Male and Female Albino Mice. *Pak J Zool*, **55**(2): 609-616. [10.17582/journal.pjz/20211107091104](https://doi.org/10.17582/journal.pjz/20211107091104)
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- **Oral Presentations and Lectures:**

- 2024, Apr The Antidepressant Role of Certain Nutraceuticals in Mitigation of Chronic Mild Stress in Rats. Conference of Medical Research

- and Clinical Studies Institute: Research to Clinic. Golden Jubilee (1974-2024).
- 2022, Mar Novel Azine Linked Hybrids of 2-indolinone and Thiazolodinone Scaffolds as CDK2 inhibitors with potential anticancer activity. 5th Global Conference on Pharmaceutics and Novel Drug Delivery Systems (Pharma 2022)
- 2021 Aug "Novel 2-Indolinone Based derivatives Targeting Cell Cycle Checkpoint's Proteins as Potential Anticancer Agents" 2nd global virtual Conference on Pharmaceutical Sciences and Drug Development (World Pharma 2021). Aug 9th, speaker talk.
- 2020 Nov "Development of Anticancer Drugs" The 12th International Pharmaceutical Sciences Conference, Assiut University, Egypt, November 4-5, 2020. **Invited Speaker**
- 2019 Nov "Who killed Michael Jackson and Heath Ledger", 3rd Conference of the Faculty of Science, Ain Shams University, Hurghada, Egypt, November 12-15, 2019. **Invited Speaker**
- 2018 Nov Novel indole-2,3-dione (isatin) derivatives as CDK2 inhibitors with potential anticancer activity, 2nd International Conference of the Faculty of Pharmacy, Ain Shams University (2nd ICPASU), Cairo, Egypt, November 13-15, 2018.
- 2013, Apr "Antimutagenic, anticancer, and antioxidant activities of novel 4-substituted phenyl-2,2'-bichalcophenes and aza analogues". The 28th Meeting of the Saudi Biological Society, Hail University – Hail, Saudi Arabia. **Wael M. El-Sayed**
- 2012, May "Nuclear Receptors and Drug Development" First Scientific Day of the College of Science, KFU, Saudi Arabia. **Wael M. El-Sayed.**
- 2012, Mar "Effect of Pregnane X Receptor (PXR) Prototype Agonists on Chemoprotective and Drug Metabolizing Enzymes in Mice". Meeting of the Saudi Biological Society, Jazan University – Jazan, Saudi Arabia. **Wael M. El-Sayed.**

- 2012, Feb "Drug metabolism and challenges of drug development process." **Invited Speaker** to 4th International Conference on Drug Discovery and Therapy, Dubai, UAE. **Wael M. El-Sayed.**
- 2012, Jan "Prophylactic and Therapeutic Effects of Taurine Against Aluminum-Induced Acute Hepatotoxicity in Mice". **Invited Speaker** to EPS Global International Forum of Analytical Science, Bangkok, Thailand. **Wael M. El-Sayed.**
- 2011, Dec "Orphan Receptors and Drug Discovery." The Annual Scientific Symposium, Faculty of Science, King Faisal University, KSA. **Wael M. El-Sayed.**
- 2011, Nov "Potential Adverse Effects of Oseltamivir in Rats: Males Are More Vulnerable than Females ". **Invited Speaker** to 9th Annual Congress of International Drug Discovery Science and Technology, Shenzhen, China. **Wael M. El-Sayed.**
- 2011, Mar Workshop on "Learning Outcomes in Planning and Assessment in College of Science Programs" College of Science, King Faisal University. **Wael M. El-Sayed.**
- 2011, Feb Workshop on "Course Report" College of Science, King Faisal University. **Wael M. El-Sayed.**
- 2010, Mar Modulatory effects of turmeric versus ginger aqueous extract on rat model of human arthritis. Gamal Ramadan, Mohamed A. Al-Kahtani, **Wael M. El-Sayed**,. Fourth Saudi Science Conference, Al-Madinah Al-Munawwarah, Kingdom of Saudi Arabia.
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