

CURRICULUM VITAE

Wael M. El-Sayed, Ph.D.

Professor of Toxicology

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Name : WAEL MOHAMED EL-SAYED

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

Marital Status : Married, 2 children.

Nationality : Egyptian.

Live DNA: 20.1512

Brief Description of Research Status

- No. of articles in international peer-reviewed journals (ISI) **59**
- Total number of citations (Google scholar/Scopus) **887/617**
- *h*-index (Google scholar/Scopus) **16/13**
- Scopus ID **6603869322**
- ORCID ID **0000-0002-3622-1417**
- <http://livedna.org/20.1512>

Skills and Hobbies

- Valid Driving Egyptian and American Licenses.
- Hobbies: Reading, Traveling, and Sports. Love history and new cultures
- Fluent in Arabic and English; reading, writing, and speaking.

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.
- Title “Mechanisms of therapeutic activities of *Nigella Sativa* against lipid
peroxidation and hepatotoxicity in male albino rats”
- 1999 **M.Sc.**, Faculty of Science, Ain shams University, Cairo, Egypt.
Physiology
- Title Effect of *Nigella Sativa* on some physiological and biochemical
parameters in male albino rats
- 1993 **B.Sc.**, Faculty of Science, Ain Shams University, Cairo, Egypt.

Current Position:

Professor of Animal Physiology and Toxicology

Professional Experience:

- 2014-Date Professor, Zoology Department, Faculty of Science, Ain Shams
University, Cairo, Egypt
- 2009-2014 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
- 2003-2009 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.
- 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

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).

Hematology for Higher Diploma students

Enzymology for Higher Diploma 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)
- Internet Explorer and MSN Messenger
- Statistical analysis programs (SPSS, ANOVA, and GraphPad Prism)
- Acrobat Reader and Adobe Acrobat Professional
- Adobe Photoshope
- EndNote for searching, loading and writing references.

- Microsoft FrontPage for designing the websites.
- 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

Fellowships, Awards and Grants:

- 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 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 27-years' 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. Evaluation of the Antidepressant Activity of Pumpkin Seed Oil and Zinc in male Depressed Rats
8. Evaluating the Role of a Novel Bithiophene in Suppressing the Acute Myeloid Leukemia Induced by Benzene in Mice

9. Effect of chitosan and gold nanoparticles on the expression of hepatic phase I and phase II drug metabolizing enzymes of male rats
10. Assessment of A Novel Bithiophene Potential in the Treatment of AlCl₃-induced Alzheimer Disease in Adult Male Albino Rats
11. Evaluating the antifertility effects of some plant extracts and testosterone in the house mouse as a prelude to its control
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

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. Possible ameliorative effects of rosemary and coenzyme Q10 against the hepatotoxicity induced by carbamazepine and acetaminophen in adult male rats
5. Putative role of fibroblast growth factor 23 in diagnosis and prognosis of kidney diseases in human
6. Effect of some flavonoids and sodium selenite on mercury-induced hepatotoxicity in adult male rats
7. Assessment of Some Commercial Anti-aging Supplements Effect on Aging Biomarkers in the Liver of Male Rats
8. Potential ameliorative effect of *Pterocarpus santalinus* against streptozotocin-induced diabetes mellitus in adult male rats

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 three herbal extracts on some drug metabolizing enzymes in adult male rats

Membership of Societies and Committees:

2015 - Present	Asian Council of Science Editors (ACSE)
2011 - Present	Member of the WebmedCentral global advisory board
2010 - Present	Member of the Saudi Biological Society
2006 - present	Egyptian Society of Toxicology
2004 - 2006	Society of Toxicology, 2004-2006
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 evaluation 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 in Egypt, National Organization for Drug Control and Research (NODCAR, Egypt), Jordan, and Saudi Arabia
- Reviewer for the research projects for King Saud University, King Khalid University, King Faisal University, and King AbdulAziz City for Science and Technology, KSA
- Associate Editor for The Journal of Basic and Applied Zoology
- Reviewer for a number of international journals including; **Toxicology** published by ElSevier, **Mutation Research** published by ElSevier, **Acta Pharmacologica Sinica** published by Willey, **Drug Design, Development and Therapy**, **Journal of Experimental Pharmacology**, **Nutrition and Dietary Supplements**, **Orphan Drugs: Research and Reviews**, **Iranian Journal for Basic and Medical Research**, **Scientific Journal of King Faisal University**
- **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)

List of Publications

A. Published and *In Press* articles:

1. Ismail MA, Abdelwahab GA, Hamama WS, Abdel-Latif E, **El-Sayed WM**. Synthesis of New thienylnicotinamide Derivatives as Inhibitors of Vascular Endothelial Growth Factor Receptor-2. Under review
2. Ali MM, Mohamed RH, Sayed AA, Mahmoud S, Yassin DA, **El-Sayed WM**. miR-370 is Better than miR-375 as a Diagnostic Biomarker for Pediatric Acute Myeloid Leukemia Patients. Under review
3. Saleh AB, Hassan NH, Ismail MA, **El-Sayed WM**. The Antitumor Activity of Cationic Fluorobenzamide against 7,12-Dimethylbenz(a)anthracene-Induced Breast Cancer in Mice. Under review
4. Abu El-Azm FSM, Hekal MH, Samir SS, Ali YM, El-Sayed WM. New Benzochromeno[2,3-d]pyrimidines and Benzochromenotriazolo[1,5-c]pyrimidines as Potential Inhibitors of Topoisomerase II. Under review
5. Mostafa M, Soliman S, Ibrahim R, **El-Sayed WM**. The Contraceptive Activities of the Chloroform and Ether Extracts of the Cotton Seeds in Male Mice are Equipotent. Under review
6. Mohamed MA, El-Beih NM, Yahya SS, **El-Sayed WM**. The antitumor activity of ginger against colorectal cancer induced by dimethylhydrazine in rats. ACAMC, *Accepted*
7. El-Sayed AA, El-Hashash MA, **El-Sayed WM**. Synthesis, Antiproliferative activity, and apoptotic profile of New Derivatives from the Meta Stable Benzoxazinone Scaffold. ACAMC, *Accepted*
8. Ismail MA, **El-Sayed WM**, El-Shafeai HM, Arafa RK, Abdel-Rhman MH, Abdel-Latif E. Synthesis, Antiproliferative Activity, Apoptotic Profiling, and In-silico ADME of New Thienylbenzamide Derivatives. Chemistry Select, 6(30): 7644-7653, 2021. doi.org/10.1002/slct.202101435

9. Hekal MH, Farag PS, Hemdan MM, **El-Sayed WM**. New *N*-(1,3,4-Thiadiazol-2-yl)furan-2-carboxamide Derivatives as Potential Inhibitors of the VEGFR-2. *Bioorganic Chem*, 115: 105176, 2021. <https://doi.org/10.1016/j.bioorg.2021.105176>
10. Alshinnawy AS, **El-Sayed WM**, Sayed AA, Salem AM, Taha AM. Telomerase activator-65 and pomegranate peel improved the health status of the liver in aged rats; multi-targets involved. *Iranian J Basic Med Sci*, 24(6): 842-850, 2021. [10.22038/IJBMS.2021.56670.12655](https://doi.org/10.22038/IJBMS.2021.56670.12655)
11. Al-Shun SA, El-Senduny FF, Ismail MA, **El-Sayed WM**, Badria FA, Youssef MM. Anticancer activity of new cationic arylthiophenes against hepatocellular carcinoma. *Life Sci*, 269: 119028, 2021. doi.org/10.1016/j.lfs.2021.119028
12. Ismail MA, Abdel-Rhman MH, Abdelwahab GA, Hamama WS, El-Shafeai HM, **El-Sayed WM**. Synthesis of New Thienylpicolinamide Derivatives and Possible Mechanisms of Antiproliferative Activity. *Rsc Advances*, **10**, 41165 – 41176, 2020. DOI: [10.1039/d0ra08796c](https://doi.org/10.1039/d0ra08796c)
13. Yousef MA, Ali AM, El-Sayed WM, Saber W, Farag HH, Aboul-Fadl T. Design and Synthesis of Novel Isatin-Based derivatives Targeting Cell Cycle Checkpoint Pathways as Potential Anticancer Agents. *Bioorganic Chem.*, 105(2020): 104366. <https://doi.org/10.1016/j.bioorg.2020.104366>
14. El-Maraghi EF, Abdel-Fattah KI, Soliman SM, **El-Sayed WM**. Taurine Abates the Liver Damage Induced by γ -Irradiation in Rats through Anti-inflammatory and Anti-apoptotic Pathways. *Int J Rad Biol*, 96(12): 1550-1559, 2020. DOI: [10.1080/09553002.2020.1828656](https://doi.org/10.1080/09553002.2020.1828656)
15. Alshinnawy AS, Taha AM, **El-Sayed WM**, Sayed AA, Salem AM. *Astragalus membranaceus* telomerase activator-65 and *Punica granatum* supplements improved infertility and renal dysfunction in aged rats. *Turkish J Biol*, 44(4): 166–175, 2020. doi: [10.3906/biy-2001-5](https://doi.org/10.3906/biy-2001-5)
16. Al-Hamadani MY, Alzahrani AM, Yousef M, Kamel MA, **El-Sayed WM**. Gold nanoparticles perturb drug metabolizing enzymes and antioxidants in the livers of male rats: potential impact on drug interactions. *Int J Nanomed*, 15: 5005-5016, 2020. <https://doi.org/10.2147/IJN.S248194>
17. Matoug MM, El-Hussieny EA, **El-Sayed WM**. The attenuation of mercuric toxicity by flavonoids was independent on the number of hydroxyl groups on B-ring. *Egyptian J Zool*, 73:1-15, 2020. [10.12816/ejz.2020.26416.1025](https://doi.org/10.12816/ejz.2020.26416.1025).

18. Shahat AS, Hassan WA, **El-Sayed WM**. N-Acetylcysteine and safranal prevented the brain damage induced by hyperthyroidism in adult male rats. *Nutritional Neuroscience*, 23: x-x. doi.10.1080/1028415X.2020.1743917
19. Mohammed MA, El-Beih NM, Yahya SM, Ismail MA, **El-Sayed WM**. The antitumor activity of a novel fluorobenzimidazole against dimethylhydrazine-induced colorectal cancer in rats. *Anticancer Agents in Medicinal Chemistry*, 20:450-463, 2020. doi: 10.2174/1871520619666191021162411
20. Hekal MH, El-Naggar AM, Abu El-Azm FSM, **El-Sayed WM**. Synthesis of new oxadiazol-phthalazine derivatives with anti-proliferative activity; molecular docking, pro-Apoptotic, and enzyme inhibition profile. *RSC Advances*, 10: 3675-3688, 2020. DOI: 10.1039/c9ra09016a
21. El-Metwally SA, Khalil AK, **El-Sayed WM**. Design, molecular modeling and anticancer evaluation of thieno[2,3-d]pyrimidine derivatives as inhibitors of topoisomerase II. *Bioorganic Chemistry*, 94: 103492, 2020. DOI: <https://doi.org/10.1016/j.bioorg.2019.103492>
22. Ismail MA, **El-Sayed WM**, Shaaban S, Abdelwahab GA, Hamama WS. A review of cationic arylfurans and their isosteres: synthesis and biological importance. *Current Organic Chemistry*, 23: 2751-2782, 2019. DOI: 10.2174/1385272823666191029114830
23. Ramadan D, Ali M, Yahya S, **El-Sayed WM**. Correlation between Antioxidant/Antimutagenic and Antiproliferative Activity of Some Phytochemicals; A Prediction Model. *Anti-Cancer Agents Med Chem*, 19(12): 1481-1490, 2019. DOI : 10.2174/1871520619666190528091648
24. Mahmoud AA, **El-Sayed WM**. The Anti-proliferative Activity of Anisosciodone; A New Guaiane Sesquiterpene from *Anisoscium lanatum*. *Anti-Cancer Agents Med Chem*, 19(9): 1114-1119, 2019. [10.2174/1871520619666190308112732](https://doi.org/10.2174/1871520619666190308112732)
25. El-Badawy RE, Ibraheim KA, Hassan NS, **El-Sayed WM**. *Pterocarpus santalinus* Ameliorates Streptozotocin-Induced Diabetes Mellitus via Anti-Inflammatory Pathways and Enhancement of Insulin Function. *Iranian Journal of Basic Medical Sciences*, 22(8): 932-939, 2019. [10.22038/ijbms.2019.34998.8325](https://doi.org/10.22038/ijbms.2019.34998.8325)
26. Shaaban R, **El-Sayed WM**, Samir S, El-Dabaa E. Molecular and Biological Characterization of a Prepared Recombinant Human Interferon Alpha 2b isoform.

- Applied Biochemistry and Biotechnology, 188(1):72-86, 2019. [10.1007/s12010-018-2908-y](https://doi.org/10.1007/s12010-018-2908-y)
27. Salem MS, Hussein RA, **El-Sayed WM**. Substitution at Phenyl Rings of Chalcone and Schiff Base Moieties Accounts for their Antiproliferative Activity. *Anti-Cancer Agents Med Chem*, 19(5): 620-626, 2019. [10.2174/1871520619666190225122338](https://doi.org/10.2174/1871520619666190225122338)
 28. El-hashash MA, Ali AT, Hussein RA., **El-Sayed WM**. Synthesis and Reactivity of 6,8-Dibromo-2-ethyl-4H-benzo[d][1,3]oxazin-4-one Towards Nucleophiles and Electrophiles and Their Anticancer Activity. *Anti-Cancer Agents Med Chem*, 19(4): 538-545, 2019. [10.2174/1871520619666190201145221](https://doi.org/10.2174/1871520619666190201145221)
 29. Ismail MA, Negm A, Arafa RK, Abdel-Latif E, **El-Sayed WM**. Anticancer activity, dual prooxidant/antioxidant effect and apoptosis induction profile of new bichalcophene-5-carboxamidines. *European Journal of Medicinal Chemistry*, 169:76-88, 2019. <https://doi.org/10.1016/j.ejmech.2019.02.062>
 30. El-Metwally SA, Khalil AK, El-Naggar AM, **El-Sayed WM**. Novel Tetrahydrobenzo [b] Thiophene Analogues Exhibit Anticancer Activity through Enhancing Apoptosis and Inhibiting Tyrosine Kinase. *Anti-Cancer Agents Med Chem*, 18(12):1761-1769, 2018. [doi: 10.2174/1871520618666180813120558](https://doi.org/10.2174/1871520618666180813120558)
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53. Ramadan G., Al-Kahtani M.A., **El-Sayed W.M**. Anti-inflammatory and Antioxidant Properties of *Curcuma longa* (Turmeric) Versus *Zingiber officinale* (Ginger) Rhizomes in Rat Adjuvant-Induced Arthritis. *Inflammation*, 34(4):291-301, 2011. DOI: [10.1007/s10753-010-9278-0](https://doi.org/10.1007/s10753-010-9278-0)
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<http://dx.doi.org/10.1016/j.tox.2005.12.016>
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B. Oral Presentations and Lectures:

- 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.
- 2008, Apr Regulation of ATP-binding cassette (Abc) transporters by organoselenium compounds. Dorinda D. Arch, **Wael M. El-Sayed**, Tarek Aboul-Fadl, Jeanette C. Roberts and Michael R. Franklin. San Diego, California, USA.
- 2007 Selenium prodrugs: new hope for cancer captives. **Wael M. El-Sayed**. Department of Zoology, Faculty of Science, Ain Shams University, Cairo, Egypt.
- 2007, Mar Chemoprevention in mice by 2-alkyl/aryl selenazolidine-4(R)-carboxylic acids. M.R. Franklin, J.C. Roberts, **W.M. El-Sayed**, T. Aboul-Fadl, T. Schofield, J.E. Constance and J.G. Lamb. The 46th Annual Meeting (SOT), Charlotte, NC-USA. Abstract 609, Toxicological Sciences p126S.
- 2006, Apr L-Selenocysteine prodrugs: potential anticancer agents. **Wael M. El-Sayed**. The 21st scientific conference of the Egyptian Society of Toxicology “Environmental factors and gene contribution”, Cairo, Egypt.
- 2006, Mar Comparative study of the effects of spironolactone, pregnenolone 16 alpha-carbonitrile and dexamethasone on mouse hepatic drug metabolizing and other chemoprotective enzymes. Michael R. Franklin and **Wael M. El-Sayed**. The 45th Annual Meeting of the Society of Toxicology (SOT), San Diego, California-USA.
- 2006, Mar Effects of acute exposure of selenazolidines prodrugs of L-selenocysteine on chemoprotective enzymes in mice and Hepa1c1c7 cells. **Wael M. El-Sayed**, Tarek Aboul-Fadl, John G. Lamb, Jeanette C. Roberts and Michael R. Franklin. The 45th Annual Meeting of the Society of Toxicology (SOT), San Diego, California-USA.

- 2005, Sept The biological effects of selenocysteine prodrugs. **Wael M. El-Sayed**, Tarek Aboul-Fadl, John G. Lamb, Jeanette C. Roberts and Michael R. Franklin, Annual Bioscience Symposium, University of Utah, Salt Lake City, Utah-USA.
- 2005, Mar Hepatic effects of novel selenazolidine prodrugs of selenocysteine developed as potential cancer chemopreventive agents. Tarek Aboul-Fadl, **Wael M. El-Sayed**, John G. Lamb, Jeanette C. Roberts, and Michael R. Franklin. 229th ACS National Meeting, San Diego, California, USA.
- 2004, Sept Phase II Drug Metabolizing Enzyme mRNA Changes by Novel Selenazolidine Prodrugs of Selenocysteine in Mice. **Wael M. El-Sayed**, Tarek Aboul-Fadl, John G. Lamb, Jeanette C. Roberts and Michael R. Franklin, The 22nd Annual Meeting of the Mountain West Society of Toxicology (MWSOT), Park City – Utah, USA.
- 2003, Mar Effects of selenazolidine prodrugs on 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)-tumorigenicity in A/J mouse lung. Liang Li, Yang Xie, **Wael M. El-Sayed**, Julianan G. Szakacs, and Jeanette C. Roberts. The 35th Annual Meeting of the Thorax and Lung, Louisiana-USA.
- 2002, July The hepatoprotective effects of *Nigella sativa* and its major constituents against CCl₄-induced toxicity in the male albino rat. **Wael M. El-Sayed**, Nadia M. El-Beih, Mona A. Abdel-Magiud and Jeanette C. Roberts. 43rd annual ASP meeting (3rd Monroe Wall symposium), New Brunswick, New Jersey, USA.

SIGNATURE

Wael M. El-Sayed

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