

Hanan Mohamed Samir El-Gowelli

Alexandria University

Faculty of Pharmacy

Department of Pharmacology and Toxicology

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Personal information:

Date of birth: August 10th, 1969
Nationality: Egyptian
Current position: Assistant Professor, Department of pharmacology and Toxicology,
Faculty of Pharmacy, Alexandria University, Egypt
Languages: Fluent Arabic and English (written and spoken)

Education:

2003-2006 **Ph.D. In Pharmaceutical Sciences (Pharmacology), 30/5/2006**
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
Thesis Title: Re-evaluation of some complementary alternative medicines (CAM) in the healing of experimentally induced wounds.

1993-1997 **Master Degree in Pharmaceutical Sciences (Pharmacology), 25/3/1997**
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
Thesis Title: Effect of baroreceptor denervation on functional activity of vascular α -adrenoceptors.

1987-1992 **Bachelor Degree in Pharmaceutical Sciences (June 1992)**
Grade: Excellent with Distinction Honor.
Faculty of Pharmacy, Alexandria University, Egypt.

1974-1987 **High School certificate (July 1987)**
El-Manar Girls' English School, Alexandria, Egypt.

Employment History:

2013 to date **Assistant professor** - 4/3/2013 - Department of Pharmacology and Toxicology,
Faculty of Pharmacy, Alexandria University, Egypt.

2006 - 2013 **Lecturer** - 4/7/2006 - Department of Pharmacology and Toxicology, Faculty of
Pharmacy, Alexandria University, Egypt.

1997 - 2006 **Assistant Lecturer** - 4/6/1997 - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.

1993-1997 **Instructor** - 9/2/1993 - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.

Teaching and Academic Experience:

Teaching for Under Graduates and Postgraduate Students:

- ◇ Participation in teaching the practical sessions of the following courses in the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt as an instructor (1993 -1997) and as an assistant lecturer (2003 – 2006):
 - Biochemistry (third year)
 - Pharmacology (third year)
 - Biological Assay and standardization & Biostatistics (Fourth year)
 - Toxicology and First Aid (Fourth year)
- ◇ Participation in teaching the following courses in the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt as a lecturer (2006 – 2013) and assistant professor (2013 – to date):
 - Biochemistry (third year)
 - Biological Assay and standardization & Biostatistics (Fourth year)
 - Toxicology and First Aid (Fourth year)
 - Cell Biology (First year – Clinical Pharmacy Programme)
 - Clinical Pharmacology (Fifth year – Clinical Pharmacy Programme)
 - Biological standardization (Fifth year – Clinical Pharmacy Programme)
 - Biochemistry for post graduates (2006 -2010)

Other Activities related to Teaching and Education:

- ◇ Participation in designing and marking all written exams in the department
- ◇ Participation in all oral exams in the department
- ◇ Participation in the exam control
- ◇ Participation in preparing the annual course report for all the courses that I teach
- ◇ Participation in preparing and updating the course portfolio for all the courses that I teach
- ◇ Academic advisor for a group of student in Clinical Pharmacy (2010 -2015)
- ◇ Supervisor in the Summer Programme for training 3rd year students in community pharmacies (2006 - 2009)
- ◇ Course coordinator for Biochemical analysis diploma (2006 – 2010)
- ◇ Course coordinator for Medical sciences (Anatomy, Histology & Physiology) for first year pharmacy students (2006 – 2010)

Participation in the Improvement of Education:

- ◇ **Vice president of the central lab** – Faculty of Pharmacy –Alexandria University (2015 –to date)
- ◇ **Participation in preparing course description and specification** for all courses taught and/or coordinated by the department for undergraduate Pharmacy students, Clinical Pharmacy students, postgraduate students (Master, PhD., Biochemical analysis diploma)

- ◇ **Participation in preparing the academic reference standards** for postgraduate students (Master, PhD., Biochemical analysis diploma)
- ◇ **Participation in the enhancement of the practical sessions** of the Biological assay and Standardization course (fourth year –undergraduate pharmacy students) by introducing simulation programs in teaching.
- ◇ **Participation in innovation of exam electronic marking and question banks** through working in tenders to purchase equipment and software (Remark Office Optical Mark Recognition) for “Development of Students’ Assessment Systems Project” (**DSASP**)
- ◇ **Participation in preparing the course guidelines and the laboratory manuals** (2006 to date) in the following courses:
 - Biochemistry (third year – pharmacy undergraduates)
 - Biological Assay and standardization & Biostatistics (Fourth year- pharmacy undergraduates)
 - Toxicology and First Aid (Fourth year- pharmacy undergraduates)
 - Cell Biology (First year – Clinical Pharmacy Programme)
 - Clinical Pharmacology (Fifth year – Clinical Pharmacy Programme)
 - Biological standardization (Fifth year – Clinical Pharmacy Programme)
- ◇ **Participation in the establishment of simulation lab** in the department funded by the Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**) (tenders for purchasing equipment and computer programs and preparing the lab for work)
- ◇ **Participation in the reconstruction of the animal house** of the department funded by the Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**) (follow up for designing and construction, tenders for purchasing equipment, preparing the animal house for work, and follow up the feeding and caring for animals)
- ◇ **Participation in reconstruction of two research labs** in the department funded by the Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**) (follow up for designing and construction, purchasing scientific equipment and preparing the labs for work).
- ◇ **Participation in the development of the faculty labs for both students and research** in different faculty departments funded by the Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**) through working in the following committees:
 - Maintenance of scientific equipment committee
 - Laboratory and Scientific equipment committee
 - Participations in tenders and bids to buy new scientific equipment for student and research labs
- ◇ **Participation in the development of a new class room** (for 100 students) for clinical pharmacy students in the 6th floor - old building, though tenders for purchasing chairs, screens, data show and computers funded by the Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**).

Memberships in Faculty Committees:

- ◇ Member in committee for **Management System** (2009 to date)
- ◇ Member in committee for **Selection of the Best Employee and the Best Worker of the Year** (2009-2011)
- ◇ Member in the committee for **Revising and Analysis of Exams** (2009 -2010)
- ◇ Member in the committee for **Laboratories and Scientific Equipment** (2009 -2011)
- ◇ Member in the committee for **Scientific Equipment Maintenance** (2009 – 2011)
- ◇ Member in the committee for **Community Service and Environment Development** (2008-2009)

- ◇ Member in the committee for preparing the **academic reference standards** for pharmacy programme, clinical pharmacy programme and postgraduate studies (Diploma for biochemical analysis – master and PhD., degree in pharmacology) (2009 – 2011)
- ◇ Participant in the scientific activities in **Pharmaceutical Services Unit**
- ◇ Member in the **Faculty Council** representative for the **Quality Assurance Unit** (2011 -2012)
- ◇ Member in the committee for **Selection of the Employee** (2011 to date)
- ◇ Member in the **Quality Assurance Unit** in the faculty of pharmacy (2008 to date)
 - Participation in preparing the faculty self-study
 - Participation of preparing documentation for assessment of the management system in the faculty
 - Participation in tenders for purchasing equipment for developing students and research labs in different departments of the faculty through Continuous Improvement and Qualifying for Accreditation Project (**CIQAP**)

Membership of Professional Societies:

- **Egyptian Pharmacist Syndicate (EPS)** – ID: 31221
- Member of the **Egyptian Legislation Consulting Association (ELCA)**- ID:39
- **American Society of Pharmacology & Experimental Therapeutics (ASPET)** – ID:21173
- Member in **The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS)**

Research:

❖ **Evaluation of pharmacology theses (2 Master theses – One PhD theses)**

❖ **Supervision of theses and dissertations (9 theses)**

❖ **Conferences attended:**

1. Biovision Alexandria 2014: **New Life science: The next decade**, Bibliotheca Alexandrina, Alexandria, Egypt April 2014
2. The 14th Arab International Conference of Material Science. “**Materials for Biomedical Applications**”, Alexandria, Egypt 2013
3. The 10th Integrated Symposium – Faculty of Medicine - Alexandria University – The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS): **Medicine and Research for The Fountain of Youth** 2013
4. The 6th Quality Assurance and Laboratory Management & the 3rd annual Conference of Alexandria Clinical Pathology Department, Faculty of Medicine, Alexandria University: **Proteomics, Transplantation and Laboratory Accreditation** . December 2010
5. The First Scientific Conference for Quality assurance of Education - Faculty of Physiotherapy – Cairo University: **Quality Assurance the Road to Excellence and innovation** – July 2009
6. The 6th Integrated Symposium – Faculty of Medicine - Alexandria University – The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS): **Parasitic Liver Diseases** March 2009
7. The 5th Integrated Symposium – Faculty of Medicine - Alexandria University – The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS): **Breast Cancer Hope and Cure** February 2007
8. The 12th Conference of the Medical Research Institute- Alexandria University: **Advances in Medical Research** November 2006

9. Biovision Alexandria 2006: **Changing lives**, Bibliotheca Alexandrina, Alexandria, Egypt April 2006

❖ **Abstracts published in Conferences:**

1. Abdel-Galil AG., Saad EI, Raslan HS, **El-Gowell HM**. Evaluation of Chamomile oil and Echinacea root extract in the acceleration of healing of experimentally induced wounds in rats. Biovision conference Alexandria 2006
2. Mahmoud M El-Mas, **Hanan M El-Gowell**, Lamiaa K Elsalakawy, and Sahar M El-gowilly. Nitric Oxide Synthase, But Not Heme Oxygenase, Mediates The Adenosine A2B Receptor-Sensitive Renal Vasodilations In Female Rats. *FASEB J March. 2012 26:1051.6*
3. Mahmoud M El-Mas, **Hanan M El-Gowell**, Mohamed A Fouda, and Sahar M El-gowilly. Inhibition Of The Estrogen-Mediated Cardiac Vagal Control Accounts For The Baroreflex Depressant Effect Of Chronic Nicotine In Female Rats. *FASEB J March. 2012 26:1124.9*
4. Mahmoud M El-Mas, Sahar M El-gowilly, Eman Y Gohar, and **Hanan M El-Gowell**. Influence Of Chronic Nicotine On Acetylcholine-Evoked Renal Vasodilations In Female Rats: Dose Dependency And Ovarian Hormonal Modulation. *FASEB J March. 2012 26:1051.7*
5. Mahmoud M El-Mas, **Hanan M El-Gowell**, Mohamed A Fouda and Mai M Helmy. Dose Dependency and Autonomic Modulation of the Depressant Effect of Chronic Nicotine on Reflex Chronotropic Responses in Female Rats. *FASEB J April. 2011; 25:1084.1*
6. Khaled Soliman Abd-Elrahman, **Hanan M El-Gowell**, Evan I Saad, Abdel-Galil A Abdel-Galil and Mahmoud M El-Mas. PPAR γ Dependence Of the Cyclosporine-Isoprenaline Renovascular Interaction: Roles of Nitric Oxide Synthase And Heme Oxygenase *FASEB J. April 2011; 25: 1087.8*
7. Mahmoud M El-Mas, **Hanan M El-Gowell**, Evan I Saad, Khaled S Abd-Elrahman, and Abdel-Galil A Abdel-Galil Pioglitazone Ameliorates Cyclosporine-Induced Attenuation Of Carbachol Renovascular Vasodilations: Role Of PPAR γ /Nitric Oxide Synthase Signaling *FASEB J April 6, 2010 24:959.11*
8. Mahmoud M El-Mas, **Hanan M. El-Gowell**, Osama F. Harraz, Abdel-Rheem M. Ghazal, and Mahmoud M. Mohy El-Din Adenosinergic Modulation Of The Imidazoline I1-Receptor-Dependent Hypotensive Effect Of Ethanol In Acute Renal Failure *FASEB J April 6, 2010 24:961.10*
9. Mahmoud M El-Mas, **Hanan M El-Gowell**, Evan I Saad, Khaled S Abd-Elrahman, and Abdel-Galil A Abdel-Galil Improved Antioxidant And Lipid Profiles Underlie The Protective Effect Of Pioglitazone Against Cyclosporine-Induced Endothelium Dysfunction In Isolated Rat Aortas *FASEB J April 6, 2010 24:961.13*
10. Somiraa S. Said, Affaf K. Aloufy, **Hanan M. El-Gowell**, Nabila A. Boraie and Labiba K. El-Khordagui. Controlled delivery fusidic acid ultrafine fibers for accelerated healing of infected wounds. Nanotech Europe Conference, Berlin, Germany, 28-30 September, 2009
11. Karim Ibrahim, Ahmed El-Yazbi, **Hanan El-Gowell** and Mahmoud El-Mas. Divergent Effects for Celecoxib and Diclofenac on Hemodynamic and Left Ventricular Actions of Cyclosporine in Female Rats. *FASEB J April. 2015 29: 1025.11*
12. **Hanan El-Gowell**, Mariam .A. Badawi, Hoda Omar³, Ahmad Bassiouny, Mona Marei and Labiba El-Khordagui: Novel antimicrobial nanofiber-reinforced chitosan membrane for enhanced healing of infected wounds. Biovision 2014
13. Nesma El-Sayed, Sally Galal, **Hanan El-Gowell**, Hoda Omar and Labiba El-Khordagui. Methylene Blue-nanofibers for photodynamic therapy of infected wounds in immunocompromized rats. Biovision 2014
14. Mahmoud El-Mas, **Hanan El-Gowell**, Mohamed Fouda and Sahar El-Gowilly. The interplay between heme oxygenase and nitric oxide synthase and downstream PI3K/sGC/ERK signaling ameliorates the

estrogen-dependent depressant effect of chronic nicotine on reflex bradycardia. *FASEB J April. 2014* 28: 837.2

15. Mahmoud El-Mas, Sahar El-Gowilly, Lamia Elsalakawy and **Hanan El-Gowelli**. Estrogen compromises the facilitatory effect of chronic nicotine on adenosine A_{2B} receptor/K⁺ channel-mediated renal vasodilations. *FASEB J April. 2014* 28: 837.3
16. Mariam A Badawi, **Hanan M El-Gowelli**, Hoda Omar, Ahmad Raafat, Mona Marei and Labiba K El-Khordagui. Composite of anti-microbial nanofiber-reinforced chitosan membrane for wound healing. The 14th Arab International Conference of Material Science. "Materials for Biomedical Applications", Alexandria, Egypt 1-3 December 2013, Abstract booklet page 82. (**Presenting Author**)
17. Nesma El-Sayed, Sally Galal, **Hanan El-Gowelli**, Hoda Omar and Labiba El-Khordagui. Wound Healing Properties of Methylene Blue-Eluting Nanofibers in an Immunocompromized Rat Model. The 14th Arab International Conference of Material Science. "Materials for Biomedical Applications", Alexandria, Egypt 1-3 December 2013, Abstract booklet page 90.
18. Nesma El-Sayed, Sally Galal, **Hanan El-Gowelli** and Labiba El-Khordagui. Methylene Blue-loaded Polyhydroxybutyrate Membranes for Reduction of Post-surgery Peritoneal Adhesions. DUPHAT 2013 (Dubai International and Technologies Conference & Exhibition) in Dubai International Convention Center, Dubai, United Arab Emirates
19. Eman M Gohar, Sahar M El-gowilly, **Hanan M El-Gowelli**, and Mahmoud M El-Mas. Nicotine Paradoxically Alters The Facilitatory Action Of Estrogen And Progesterone On Adenosine Receptor-Mediated Renal Vasodilations. *FASEB J April. 2013* 27:654.6
20. **Hanan M El-Gowelli**, Maged W Helmy, Rabab M Abdel-Halim, and Mahmoud M El-Mas. Celecoxib Offsets The Negative Renal Influences of Cyclosporine Via COX-2/Endothelin ETB Receptor crosstalk. *FASEB J April. 2013* 27:654.9
21. Mahmoud M El-Mas, Rabab M Abdel-Halim, Maged W Helmy, and **Hanan M El-Gowelli**. Endothelin ETA/ETB receptors modulate the hemodynamic interaction of cyclosporine with selective and nonselective nonsteroidal antiinflammatory drugs in rats. *FASEB J April., 2013* 27:654.8
22. Maged W Helmy, **Hanan M El-Gowelli**, Rabab M Abdel-Halim, and Mahmoud M El-Mas. Aggravated Nephrotoxicity Evoked By Concurrent Exposure To Cyclosporine And Indomethacin In Rats: Role Of The Endothelin ETA Receptor/TGF-beta/COX-2 Pathway. *FASEB J April., 2013* 27:654.10

❖ Training Courses:

1. **Microsoft E-content Development Training** – Information and Communication Technology Project (ICTP) – Alexandria University 2010
2. **Basic course in molecular biology** - (DNA/RNA structure, function and Purification. Medical Technology Center for Research and Services. Medical research institute, Alexandria University February 2008
3. **Intensive training course in the application of biotechnology**. Institute of Graduate Students and Research. Department of Biotechnology - Alexandria University August 2006
4. **Intensive training course in Bases of Protein Analysis**. Institute of Graduate Students and Research. Department of Biotechnology - Alexandria University March 2005
5. **Preparing the University Teacher**. Faculty of Education –Alexandria University April 1996
6. **Test of English as a Foreign language (TOEFL)** – American Embassy – Amid East- January 1996
7. **Faculty and Leadership development Center (FLDC), Alexandria University training courses.**
 - Training course on **organizing scientific conferences** (2012)
 - Training course on **time and meeting management** (2012)

- Training course on **preparing research project** (2007)
- Training course on **writing scientific paper and international publication** (2007)
- Training course on **teaching with technology** (2007)
- Training course on **curriculum design** (2007)
- Training course on **teaching evaluation** (2006)
- Training course on **effective presentations** (2005)
- Training Course on **effective teaching** (2005)
- Training course on **methodologies in scientific research** (2005)
- Training course on **communication skills** (2005)
- Training course on **scientific thinking skills** (2005)
- Training course on **code of ethics** (2005)

❖ Workshops:

1. Work shop on **analysis of research results**. Medical Technology Center for Research and Services. Medical research institute, Alexandria University. 2007
2. Work shop on **how to write a research protocol**. Medical Technology Center for Research and Services. Medical research institute, Alexandria University. 2007
3. Work shop for **bio-analytical lab workers training**. Higher Education Enhancement Project Fund (HEEPF), Development and Application of Advanced instrumental Analysis and drug Quality Control Curriculum (DAQC) project, Faculty of Pharmacy Alexandria University. 2006
4. Work shop for **analytical chemists in pharmaceutical industry**. Higher Education Enhancement Project Fund (HEEPF), Development and Application of Advanced instrumental Analysis and drug Quality Control Curriculum (DAQC) project, Faculty of Pharmacy Alexandria University. 2006
5. Work shop for **bio-analytical lab workers training**. Higher Education Enhancement Project Fund (HEEPF), Development and Application of Advanced instrumental Analysis and drug Quality Control Curriculum (DAQC) project, Faculty of Pharmacy Alexandria University. 2005

Research Projects:

Research projects

- **Researcher in Science and Technology Development Fund (STDF)** project: “Sexual and molecular dimorphism in nicotine protection against renal and hemodynamic derangements of endotoxic shock” STDF-ID14895. PI: Mahmoud M. El-Mas, PhD., (Chairman and professor, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt). Grant Monetary: 763,000 EGP. (2015 - 2018)
- **Co-Principle Investigator** in Alexandria University Research Fund - AURF - **Alexandria University Research Enhancement Program (Alex REP)**: “Heme oxygenase modulation of cardiovascular derangements evoked by the combined cyclosporine/NSAIDs regimen in rats: Functional, structural, and molecular studies”. PI: Mahmoud M. El-Mas, PhD., (Chairman and professor, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt). Grant Monetary: 130,000 EGP. (2014 - 2016)
- **Co-Principle Investigator** in **Science and Technology Development Fund (STDF)** project: “**Effect of hyperlipidemia on Posaconazole-Vincristine Drug-Drug interaction in Rat**”. STDF-ID5575. PI: Dalia Hamdy, PhD., (Lecturer, Department of Analytical Chemistry, Faculty of Pharmacy, Alexandria University, Egypt). Grant Monetary: 750,000 EGP. (2014 - 2017)

- **Co-Principle Investigator in Science and Technology Development Fund (STDF) project:** Hemodynamic and renal effects of nicotine in rats with surgical menopause. (STDF project code: 502) PI: Mahmoud M. El-Mas, PhD., (Chairman and professor, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt). Grant Monetary: 1000,000 EGP (2010 -2013)
- **Investigator in Alexandria University Research Enhancement Project (Alex REP):** A nano-technological approach to the enhancement of drug delivery systems for photodynamic therapy. PI: Noha Adel Nafee, PhD, (Lecturer, Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Egypt). Grant Monetary: 178,000 EGP (2010-2012)
- **Investigator in Alexandria University Research Enhancement Project (Alex REP):** Development of Nano-materials for drug delivery systems, sensors, and photovoltaic applications. (ALEX REP project code: NANT1). PI: Moataz Soliman, PhD., (Chairman of the Materials Science Department, Institute of Graduate Studies and Research, Alexandria University, Egypt). Grant Monetary: 230,000 EGP (2007-2009)

Educational projects

- Participation in the **Continuous Improvement and Qualifying for Accreditation Project (CIQAP) (2009 -2011)**
- Participation in the **Development of students' assessment system Project (DSASP) (2009-2010)**

Awards:

- Alexandria University wards for enhancement of distinguished scientific publishing for all published papers (all publications are in the top 10-50% indexed peer reviewed journals in the field of specialty)
- Alexandria University Prize for Scientific Encouragement in Medical Sciences (2013)
- ACDIMA award for the Top Scientific Publication in Applied Pharmaceutical Sciences in the Arab world, awarded by the Arab Company for Drug Industries and Medical Appliances, Amman, Jordan (2012)

Publications:

1. Ashour AA, Raafat D, **El-Gowell HM**, El-Kamel AH. Green synthesis of silver nanoparticles using cranberry powder aqueous extract: characterization and antimicrobial properties. *Int J Nanomedicine*, 2015 1 Dec; (10):7207—7221. doi.org/10.2147/IJN.S87268. (**Impact Factor: 4.383, Top**)
2. **El-Gowell HM**, El Sabaa B, Yosry E, El-Saghir H. Histopathological and ultra-structural characterization of local neuromuscular damage induced by repeated phosphatidylcholine/deoxycholate injection. *Exp Toxicol Pathol*. 2015 Sep 21. pii: S0940-2993(15)30019-1. doi: 10.1016/j.etp.2015.09.006 (**Impact Factor: 1.86**)
3. **El-Gowell HM**, Saad EI, Abdel-Galil AA, Ibrahim ER. **Co-administration of α -lipoic acid and cyclosporine aggravates colon ulceration of acetic acid-induced ulcerative colitis via facilitation of NO/COX-2/miR-210 cascade.** *Toxicol Appl Pharmacol*. 2015 Aug 12. pii: S0041-008X(15)30054-5. doi:10.1016/j.taap.2015.08.002. (**Impact Factor: 3.975, Top 20% Toxicology**)
4. El-Gowilly SM, Helmy MM, **El-Gowell HM**. Pioglitazone ameliorates methotrexate-induced renal endothelial dysfunction via amending detrimental changes in some antioxidant parameters, systemic cytokines and Fas production. *Vascul Pharmacol*. 2015 Jul 8. pii: S1537-891(15)00151-2. doi:10.1016/j.vph.2015.07.002. (**Impact Factor: 3.635, Top 50% Pharmacology & Pharmacy**)

5. Helmy MW, **El-Gowell** HM, Ali RM, El-Mas MM. Endothelin ETA receptor/lipid peroxides/COX-2/TGF- β 1 signalling underlies aggravated nephrotoxicity caused by cyclosporine plus indomethacin in rats. **Br J Pharmacol**. 2015 Sep;172(17):4291-302. doi: 10.1111/bph.13199. (**Impact Factor: 5.067, Top 10% Pharmacology & Pharmacy**)
6. **El-Gowell** HM, El-Mas MM. Central modulation of cyclosporine-induced hypertension. **Naunyn Schmiedebergs Arch Pharmacol**. 2015 Mar;388(3):351-61. doi: 10.1007/s00210-014-1074-1. (**Impact Factor: 2.147, Top 50% Pharmacology & Pharmacy**)
7. Fouda MA, **El-Gowell** HM, El-Gowilly SM, Rashed L, El-Mas MM. Impairment of nitric oxide synthase but not heme oxygenase accounts for baroreflex dysfunction caused by chronic nicotine in female rats. **PLoS One**. 2014 May 28;9(5):e98681. doi: 10.1371/journal.pone.0098681. eCollection 2014. (**Impact Factor: 3.234, Top 50% Pharmacology & Pharmacy**)
8. El-Mas MM, El-Gowilly SM, Elsalakawy LK, **El-Gowell** HM. Oestrogen compromises the facilitatory effect of chronic nicotine on adenosine A2B receptor-K(+)channel-mediated renal vasodilation. **Clin Exp Pharmacol Physiol**. 2014 Aug;41(8):600-7. doi: 10.1111/1440-1681.12255. (**Impact Factor: 2.372, Top 50% Pharmacology & Pharmacy**)
9. Gohar EY, El-gowilly SM, **El-Gowell** HM, El-Demellawy MA, El-Mas MM. PI3K/Akt-independent NOS/HO activation accounts for the facilitatory effect of nicotine on acetylcholine renal vasodilations: modulation by ovarian hormones. **PLoS One**. 2014 Apr 14;9(4):e95079. doi: 10.1371/journal.pone.0095079. eCollection 2014. (**Impact Factor: 3.234, Top 50% Pharmacology & Pharmacy**)
10. El-Mas MM, Helmy MW, Ali RM, **El-Gowell** HM. Celecoxib, but not indomethacin, ameliorates the hypertensive and perivascular fibrotic actions of cyclosporine in rats: role of endothelin signaling. **Toxicol Appl Pharmacol**. 2015 Apr 1;284(1):1-7. doi:10.1016/j.taap.2015.01.018. (**Impact Factor: 3.975, Top 20% Toxicology**)
11. **El-Gowell** HM, Helmy MW, Ali RM, El-Mas MM. Celecoxib offsets the negative renal influences of cyclosporine via modulation of the TGF- β 1/IL-2/COX-2/endothelin ET(B) receptor cascade. **Toxicol Appl Pharmacol**, 2014, Jan 21. pii: S0041-008X(14)00016-7. doi: 10.1016/j.taap.2014.01.008. (**Impact Factor: 3.975, Top 20% Toxicology**)
12. El-Mas MM, **El-Gowell** HM, Michel MC. Publication trends in Naunyn-Schmiedeberg's Archives of Pharmacology: focus on pharmacology in Egypt. **Naunyn Schmiedebergs Arch Pharmacol**, 2013,386:929-33. doi:10.1007/s00210-013-0915-7. (**Impact Factor: 2.147, Top 50% Pharmacology & Pharmacy**)
13. Nafee N, Youssef A, **El-Gowell** HM, Asem H, Kandil S. Antibiotic-free nanotherapeutics: hypericin nanoparticles thereof for improved in vitro and in vivo antimicrobial photodynamic therapy and wound healing. **Int J Pharm**, 2013, 454:249-58. doi:10.1016/j.ijpharm.2013.06.067. (**Impact Factor: 3.458, Top 50% Pharmacology & Pharmacy**)
14. Gohar EY, El-gowilly SM, **El-Gowell** HM, El-Mas MM. Nicotine paradoxically affects the facilitatory effect of ovarian hormones on the adenosine receptor-mediated renal vasodilation. **Eur J Pharmacol**, 2013,710:1-9. doi: 10.1016/j.ejphar.2013.04.011. (**Impact Factor: 2.592, Top 50% Pharmacology & Pharmacy**)
15. **El-Gowell** HM, El-Gowilly SM, Elsalakawy LK, El-Mas MM. Nitric oxide synthase/K⁺ channel cascade triggers the adenosine A(2B) receptor-sensitive renal vasodilation in female rats. **Eur J Pharmacol**, 2013, 702:116-25. doi: 10.1016/j.ejphar.2013.01.049. (**Impact Factor: 2.592, Top 50% Pharmacology & Pharmacy**)
16. El-Mas MM, **El-Gowell** HM, El-Gowilly SM, Fouda MA, Helmy MM. Estrogen provokes the depressant effect of chronic nicotine on vagally-mediated reflex chronotropism in female rats. **J Pharmacol Exp Ther**, 2012, 342:568-75. doi: 10.1124/jpet.112.191940. (**Impact Factor: 3.891, Top 20% Pharmacology & Pharmacy**)

17. Harraz OF, **El-Gowell** HM, Mohy El-Din MM, Ghazal AR, El-Mas MM. Adenosinergic modulation of the imidazoline I(1)-receptor-dependent hypotensive effect of ethanol in acute renal failure. **Food Chem Toxicol**, 2012, 50:2622-8. doi: 10.1016/j.fct.2012.05.015. (**Impact Factor: 3.010, Top 50% Pharmacology & Pharmacy and Top 20% Food Science & Technology**)
18. Helmy MM, **El-Gowell** HM. Montelukast abrogates rhabdomyolysis-induced acute renal failure via rectifying detrimental changes in antioxidant profile and systemic cytokines and apoptotic factors production. **Eur J Pharmacol**, 2012, 683:294-300. doi: 10.1016/j.ejphar.2012.03.018. (**Impact Factor: 2.592, Top 50% Pharmacology & Pharmacy**)
19. Samy W, Elgindy N, **El-Gowell** HM. Biopolymeric nifedipine powder for acceleration of wound healing. **Int J Pharm**, 2012, 422:323-31. doi: 10.1016/j.ijpharm.2011.11.021. (**Impact Factor: 3.458, Top 50% Pharmacology & Pharmacy**)
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