

Hanan Mohamed Samir El-Gowelli

Vice Dean for Educational and Student Affairs
Clinical and Biological Science Division Chairperson
College of Pharmacy

Arab Academy for Science, Technology and Maritime Transport
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Personal information:

Nationality: Egyptian
Current position: Professor, Vice Dean for Educational and Student Affairs
Clinical and Biological Science Division Chairperson
College of Pharmacy at Arab Academy for Science, Technology and
Maritime Transport, Alexandria, Egypt
Languages: Fluent Arabic and English (written and spoken)

Scopus Author ID and h-index

Author ID: **7801444240**. **El-Gowelli, Hanan M.** Alexandria University Faculty of Pharmacy, Department of Pharmacology and Toxicology, Alexandria, Egypt

h Index: 11 Documents: **38** - Citations: **308** total citations by **212** documents - Co-authors: **48**

Subject area: *Pharmacology, Toxicology and Pharmaceutics Biochemistry, Genetics and Molecular Biology, Neuroscience*. (<https://www.scopus.com/authid/detail.uri?authorId=7801444240>, April 6, 2018)

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. **Rank:** First
Faculty of Pharmacy, Alexandria University, Egypt.

1974-1987

High School certificate (July 1987)

El-Manar Girls' English School, Alexandria, Egypt.

Employment History:

- 2018 – To present time** **Professor** - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt
- 2016 - -- To present time** **Vice Dean for Student and Educational affairs and Chairperson of Clinical and Biological sciences Division** at College of Pharmacy- Arab Academy for Science, Technology and Maritime Transport (AASTMT)
- 2013 -2018** **Assistant professor** - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
- 2006 - 2013** **Lecturer** - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
- 1997 - 2006** **Assistant Lecturer** - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
- 1992-1997** **Instructor** - Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.

Membership of Professional Societies:

- ❑ **Egyptian Pharmacist Syndicate (EPS)** Since 1992
- ❑ **American Society of Pharmacology & Experimental Therapeutics (ASPET)**
- ❑ Member in **The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS)**
- ❑ Member of the **Egyptian Legislation Consulting Association (ELCA)** as medical consultant
- ❑ Listed in “**Who is Who in the World® 2014, 31st edition/”**

Teaching and Academic Experience:

Teaching for Under Graduates and Postgraduate Students:

- ◇ Participation in teaching the following courses at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt (1993 -2016):
 - Biochemistry (third year)
 - Pharmacology (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
- ◇ Participation in teaching Dental Pharmacology course in Faculty of Dentistry, Alexandria University, Egypt (2015- 2016)
- ◇ Participated in teaching Principles of Cell Biology and Communication Skills in Pharmacy Practice courses at College of Pharmacy- Arab Academy for Science, Technology and Maritime Transport (AASTMT) (2016 -to present time)

Other Activities Related to Teaching and Education:

- ◇ **Supervision of the exams control committee** at College of Pharmacy- Arab Academy for Science, Technology and Maritime Transport (AASTMT) (2016 - to present time)
- ◇ Participates in the supervision of **“The Pharmacy Day”** at College of Pharmacy- Arab Academy for Science, Technology and Maritime Transport (AASTMT) to demonstrate the students activities (2016 - to present time)
- ◇ Revision and editing for all abstracts, oral presentations, Posters done by the students at College of Pharmacy- Arab Academy for Science, Technology and Maritime Transport for **DUPHT conference**
- ◇ Co-Lecturer with Dr. Sahar El-Gowilly in Open Lectures entitled **“Dental Pharmacology”**, Faculty of Dentistry, Malaysia Program at Alexandria Regional Center For women Health Development Under Patronage of Embassy of Malaysia, April 17th, 2015.
- ◇ External oral examiner for **“Biochemistry- PHR375”** course in Pharos University (2006 -2016)
- ◇ Participation in all oral exams and in designing and marking all written exams in the Department of Pharmacology & Toxicology – Faculty of Pharmacy Alexandria University (2006 – 2016)
- ◇ Participation in the exams control (2006 – 2016)
- ◇ Participation in preparing the annual course report, and updating the course portfolio for all the courses that I teach
- ◇ Academic advisor for a group of students in Clinical Pharmacy (2010 -2016) and supervisor in the Summer Programme for training 3rd year students in community pharmacies (2006 -2009)
- ◇ Course coordinator for Biochemical analysis diploma (postgraduates) and Medical sciences (Anatomy, Histology & Physiology) for first year pharmacy students undergraduates (2006 – 2010)

Participation in the Improvement of Education:

- ◇ **Participation in establishing new labs** in the College of Engineering at Arab Academy for Science, Technology and Maritime Transport (AASTMT) to be used by the College of Pharmacy - (2016 – to present time) for Undergraduate Pharmacy Students Programme
- ◇ **Participation in designing the new building** (labs, class rooms, staff rooms) at the College of Pharmacy - Arab Academy for Science, Technology and Maritime Transport (AASTMT) (2015 - to present time)
- ◇ **Participation in preparing the Status Report, Curriculum and Course Specification** for the all courses at the College of Pharmacy - Arab Academy for Science, Technology and Maritime Transport (AASTMT) (2015 -2017) for Undergraduate Pharmacy Students Programme
- ◇ Representative of the Faculty of Pharmacy -Alexandria University and Communication point in **The University Data Bank Committee for Lab Equipment** (2015 –2016)
- ◇ **Vice president of the central lab** – Faculty of Pharmacy –Alexandria University (2015 –2016)
- ◇ **Participation in preparing course description and specification** for all courses taught and/or coordinated by the Department of Pharmacology & Toxicology – Faculty of Pharmacy Alexandria University 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 preparing the course guidelines and the laboratory manuals** for all courses taught by the Department of Pharmacology and Toxicology, Faculty of Pharmacy Alexandria University

- ◇ **Participation in the establishment of simulation lab** in the Department of Pharmacology and Toxicology, Faculty of Pharmacy Alexandria University 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 of Pharmacology and Toxicology, Faculty of Pharmacy Alexandria University funded by **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 of Pharmacology and Toxicology, Faculty of Pharmacy Alexandria University funded by **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 **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 new classrooms** for clinical pharmacy students, through tenders for purchasing chairs, screens, data show and computers funded by **CIQAP**.

Memberships in Faculty Committees:

- ◇ Member in the **College Council** at the College of Pharmacy -AASTMT (2016 -to present time)
- ◇ Member of the **Postgraduate Studies and Research** committee at the Faculty of Pharmacy - Alexandria University (2015 - 2016)
- ◇ Member in the **Department of Pharmacology and Toxicology Council** at the Faculty of Pharmacy - Alexandria University (2006 - 2016)
- ◇ Member in committee for **preparing the results of the final exam for first year students** at the Faculty of Pharmacy -Alexandria University (2006 - 2016)
- ◇ Member in committee for **Faculty Management System** (2009 -2016)
- ◇ 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 -2014)
- ◇ Member in the **Quality Assurance Unit** in the faculty of pharmacy (2008 -2016)
 - Participation in preparing the faculty of Pharmacy Alexandria University self-study
 - Participation of preparing documentation for assessment of the **Faculty Management System** in the Faculty of Pharmacy Alexandria University

Scientific activities:

❖ Conferences Attended:

1. Biovision Alexandria 2016: **New Life science: The Road Ahead**, Bibliotheca Alexandrina, Alexandria, Egypt April 2016
2. Annual Breast Cancer Conference. Alexandria Regional Center For women Health Development. December 2nd 2015.
3. Biovision Alexandria 2014: **New Life science: The next decade**, Bibliotheca Alexandrina, Alexandria, Egypt April 2014
4. The 11th Annual Conference of the Egyptian Association of Advancement of Medical Basic Sciences (EAMBS) – Faculty of Medicine - Alexandria University: **The Burn Wound from Basic to Management**. April 2014
5. The 14th Arab International Conference of Material Science. “**Materials for Biomedical Applications**”, Alexandria, Egypt 2013
6. 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
7. 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
8. The First Scientific Conference for Quality assurance of Education - Faculty of Physiotherapy – Cairo University: **Quality Assurance the Road to Excellence and innovation** – July 2009
9. The 6th Integrated Symposium – Faculty of Medicine - Alexandria University – The Egyptian Association of Advancement in Medical Basic Sciences (EAMBS): **Parasitic Liver Diseases** March 2009
10. 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
11. The 12th Conference of the Medical Research Institute- Alexandria University: **Advances in Medical Research** November 2006
12. Biovision Alexandria 2006: **Changing lives**, Bibliotheca Alexandrina, Alexandria, Egypt April 2006

❖ 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 **Management Systems of Research Scientific References** (2016)

- Training course on **Electronic Learning** (2016)
- Training course on **Financial and Management aspects** (2016)
- Training course on **Management, Legal and Marketing aspects** (2016)
- Training course on **Management of Crises and Disasters** (2016)
- Training course on **Strategic Planning** (2016)
- 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 **Immunohistochemistry Techniques in Pathology and Their applications**. Medical Technology Center for Research and Services. Medical research institute, Alexandria University. 2013
2. Work shop on **analysis of research results**. Medical Technology Center for Research and Services. Medical research institute, Alexandria University. 2007
3. Work shop on **how to write a research protocol**. Medical Technology Center for Research and Services. Medical research institute, Alexandria University. 2007
4. 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
5. 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
6. 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:

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

- **Master Thesis:** Comparative study between the effect of sildenafil, atorvastatin and irbesartan on liver fibrosis induced by Carbon tetrachloride in male rats - Candidate: Marwa Fouad Mohamed Shalaby (Pharmacology Department, Medical Research institute – Alexandria University - Egypt) –2015.

- **Master Thesis:** Adenosinergic and estrogenic modulation of the interaction of nicotine with the renal vasculature in female rats - Candidate: Lamia Khiery Elsalakawy (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2014.
- **PhD Thesis:** Role of estrogenic pathways of nitric oxide synthase and heme oxygenase in the hemodynamic effects of nicotine in female rats – Candidate: Mohamed Amin Fouda (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) –2014.

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

1. **Heme oxygenase modulation of the hemodynamic interaction between cyclosporine and nonsteroidal anti-inflammatory drugs in rats** – Master thesis (Pharmacology & Toxicology) – Candidate: Kareem Samy El-Sayed (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2013 to 2016.
2. **A study of the effect of phosphatidylcholine on neurological tissues: A histopathological study** - Master thesis (Orthopedic surgery) – Candidate: Emad Yosry Mohamed (Physician – Faculty of Medicine – Alexandria University - Egypt) – 2012 to 2014.
3. **Comparative Study of Some Selected Remedies for Protection against Experimentally-Induced Ulcerative Colitis in Rats** - Master thesis (Pharmacology & Toxicology) – Candidate: Einas Ragab Ibrahim (Pharmacist – Faculty of Pharmacy – 7 April University – AlZawia -Libya) – 2012 to 2014.
4. **The individual and combined renal and hemodynamic effects of cyclosporine and non-steroidal anti-inflammatory drugs in rats** – Master thesis (Pharmacology & Toxicology) – Candidate: Rabab Mohamed Ali (Pharmacist – Faculty of Pharmacy – Pharos University - Egypt) – 2012 – 2014.
5. **Adenosinergic and estrogenic modulation of the interaction of nicotine with the renal vasculature in female rats** - Master thesis (Pharmacology) – Candidate: Lamia Khiery Elsalakawy (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2011 - 2014.
6. **Role of estrogenic pathways of nitric oxide synthase and heme oxygenase in the hemodynamic effects of nicotine in female rats** – Ph.D. thesis (Pharmacology) – Candidate: Mohamed Amin Fouda (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2011 - 2014.
7. **Toxicokinetics and Clinical Toxicology** - (Pharm D dissertation) – Candidate: Omnia Abdu Wanis (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2009 - 2011.
8. **Investigation of the hemodynamic interaction between ethanol and antihypertensive medications in rats with acute renal failure** - Master thesis (Pharmacology) – Candidate: Osama Fathalla Harraz (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2007 - 2009.
9. **Vasculoprotective effect of pioglitazone on cyclosporine-induced vascular damage in rats** - Master thesis (Pharmacology) – Candidate: Khaled Soliman Hamed (Pharmacist – Faculty of Pharmacy – Alexandria University - Egypt) – 2007 - 2009.

❖ Scientific Co-operation with other Departments in the Faculty of Pharmacy

Participation in the experimental design of biological work conducted in theses supervised by other departments in the Faculty of Pharmacy, Alexandria University such as Department of Industrial Pharmacy and Department of Pharmaceutics. The work also involved practical training of the candidate on animal handling and conducting biological experiments both *in vivo* and *in vitro* and working side by side with these students to supervise their practical work, analyze the data and interpret the results. Examples of these theses are:

1. Master thesis: **Ayman Noby Amer Mohmed. Department of Industrial Pharmacy.** “Optimization of drug release from some controlled delivery systems.” Advisors’ committee: Prof. Dr. Nazik abd El-latif Elgindy and Dr. Waal Samy Mahmoud Aboel-Fotoh (Department of Industrial Pharmacy, Faculty of Pharmacy, Alexandria University) 2014.
2. Master thesis: **Asmaa Ahmed Mohamed Ali Ashour. Department of Pharmaceutics.** “Formulation and evaluation of noble metal particulate systems for selected medical applications.” Advisors’ committee: Prof. Dr. Amal Hassan El-Kamel (Chairman of Department of Pharmaceutics and Vice Dean of graduate studies and research, Faculty of Pharmacy, Alexandria University) and Dr. Raafat Gouda (Department of Pharmaceutical microbiology, Faculty of Pharmacy, Alexandria University) 2013.
3. Master thesis: **Nesma El-Sayed Ahmed Ibrahim. Department of Pharmaceutics.** “A pharmaceutical study of polymer delivery systems for topical biomedical applications.” Advisors’ committee: Prof. Dr. Labiba Khalil El-Khordagui (Emeritus Prof. Pharmaceutics, Faculty of Pharmacy, Alexandria University) and Dr. sally Galal Abd El-Halim (Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University) 2013.
4. Master thesis: **Mariam Ali Mohamed Ahmed Badawi. Department of Pharmaceutics.** “Use of drug delivery technology in selected biomedical applications.” Advisors’ committee: Prof. Dr. Labiba Khalil El-Khordagui (Emeritus Prof. Pharmaceutics, Faculty of Pharmacy, Alexandria University), Prof. Dr. Mona Kamal Marei (Prof. of Prosthetic Dentistry, Faculty of Dentistry, Alexandria University) and Prof. Dr. Ahmad Raafat Bassiouny (Prof. Biochemistry, Faculty of Science, Alexandria University) 2012.
5. Master thesis: **Ahmed Osman Mahmoud Elzoghby. Department of Industrial Pharmacy.** “Development and evaluation of protein nano-carriers as promising drug delivery system.” Advisors’ committee: Prof. Dr. Nazik abd El-latif Elgindy and Dr. Waal Samy Mahmoud Aboel-Fotoh (Department of Industrial Pharmacy, Faculty of Pharmacy, Alexandria University) 2012.
6. Master thesis: **Somiraa Samir El-Said Said. Department of Pharmaceutics.** “Study of some polymeric systems for topical biomedical applications.” Advisors’ committee: Prof. Dr. Labiba Khalil El-Khordagui (Emeritus Prof. Pharmaceutics, Faculty of Pharmacy, Alexandria University), Prof. Dr. Nabila Ahmed Boraei (Prof. Pharmaceutics, Faculty of Pharmacy, Alexandria University) and Dr. Affaf Khamis Aloufy (Department of Material of Textile Engineering, Faculty of Engineering, Alexandria University) 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** (2014)

- **ACDIMA** award for 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)

Research Projects (6)

- **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 (3)

- Participation in delivering the ILOs of the courses for **Erasmus** plus multi-beneficiaries project Call 2015-2016 entitled “**IT-Based international diploma and certificates in clinical toxicology**”- Grant Holder institute: Cairo University (PI: Associate Professor Noha Fawzy), in collaboration with Alexandria University, Ein Shams University, Assuit University, Ministry of Communication and Information Technology, Ministry of Health in Egypt, University of Malta in Malta, University of Newcastle upon Tyne in UK and KTH Royal Institute of Technology in Stockholm, Sweden (**2016-2018**)

- 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)**

❖ **Abstracts Published in Conferences (32):**

1. Mahmoud M El-Mas, Mohammed A El-Lakany, **Hanan M El-Gowelli**, Mohamed A Fouda, and Sahar M El-Gowilly. The Provoked Cardiovascular and Autonomic Effects of Endotoxemia in Ovariectomized Rats Are Distinctly Affected by Estrogen and Progesterone Supplementation. **Experimental Biology** April 23, 2018, Poster Session Title: Central Control of Cardiovascular Function, Program Number: 697.1, Poster Board Number: C190
2. Sarah K. Amer, Ahmed Fathy Ahmed, **Hanan M. El-Gowelli**, Basant M. Salama, Mohamed A. Elkholy. Evaluation of the association between Schizophrenia and Herpes Viruses infection: A computerized literature review. **DUPHAT 2017** (Dubai International and Technologies Conference & Exhibition) in Dubai International Convention Center, Dubai, United Arab Emirates (Professional Poster Session and Oral Presentation- Awarded the Third Place in Professional Presentations)
3. Yassmina Elsayed, Shaimaa Elabbasy, Khairy Emad, Samer Osama, Mohamed Ateeba (Students), Yousra El-Banna, MSc, **Hanan M. El-Gowelli**, PhD (Supervisors). Assessment Of Research Conducted On Algae Worldwide for Discovery of Bioactive Molecules to Treat Different Ailments. **DUPHAT 2017** (Dubai International and Technologies Conference & Exhibition) in Dubai International Convention Center, Dubai, United Arab Emirates (Student Poster Session and Oral Presentation)
4. Karim S Ibrahim, Ahmed F El-Yazbi, **Hanan M El-Gowelli**, and Mahmoud M El-Mas. Heme oxygenase byproducts variably influences myocardial and autonomic dysfunctions induced by the cyclosporine/diclofenac regimen in female rats. **Experimental Biology - FASEB J** April 2017 31:1070.13. **Journal impact factor: 5.299, Top 10% in Biology)**
5. Mahmoud M El-Mas, Karim S Ibrahim, Ahmed F El-Yazbi, and **Hanan M El-Gowelli**. Modulation by NADPH-ox/Rho-kinase signaling of the cyclosporine-NSAIDs interactions on blood pressure and baroreflexes in female rats. **Experimental Biology - FASEB J** April 2017 31:848.1. **Journal impact factor: 5.299, Top 10% in Biology)**
6. Mohammed A El-Lakany, **Hanan M El-Gowelli**, Mohamed A Fouda, Sahar M El-Gowilly, and Mahmoud M El-Mas. Gonadal Hormone Receptors Underlie The Resistance Of Female Rats To Cardiovascular Complications Of Endotoxemia. **Experimental Biology - FASEB J** April 2017 31:848.4. **Journal impact factor: 5.299, Top 10% in Biology)**
7. Marwa Y Sallam, Sahar M El-Gowilly, **Hanan M El-Gowelli**, and Mahmoud M El-Mas. The $\alpha 7/\alpha 4\beta 2$ nAChRs Alleviate The Hypotension And Altered Cardiac Sympathovagal Balance Evoked By Endotoxemia In Male Rats. **Experimental Biology - FASEB J** April 2017 31:848.3. **Journal impact factor: 5.299, Top 10% in Biology)**
8. Mahmoud El-Mas, Karim Ibrahim, Ahmed El-Yazbi, Nevine M El-Deeb, and **Hanan El-Gowelli**. Modulation of NADPH oxidase/Rho kinase oxidative pathway of chronic cyclosporine-Diclofenac hemodynamic interaction in female rats. **Experimental Biology - FASEB J April. 2016 30: 716.8. (Journal impact factor: 5.299, Top 10% in Biology)**

9. 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. **Experimental Biology - FASEB J April. 2015 29: 1025.11. (Journal impact factor: 5.299, Top 10% in Biology)**
10. MA Fouda*, **HM El-Gowell**, SM El-Gowilly, MM El-Mas. Hemin blunts the depressant effect of chronic nicotine on reflex tachycardia in female rats via activation of central NOS/PI3K pathway. **Pharmacology 2015. British Pharmacological Society.** The Queen Elizabeth II conference center. London. Tuesday 15th December: Poster session - Basic Pharmacology - 16:30 - 18:00
11. **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**
12. 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**
13. 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. **Experimental Biology - FASEB J April. 2014 28: 837.2. (Journal impact factor: 5.299, Top 10% in Biology)**
14. Mahmoud El-Mas, Sahar El-Gowilly, Lamia Elsalakawy and **Hanan El-Gowell**. Estrogen compromises the facilitatory effect of chronic nicotine on adenosine A_{2B} receptor/K⁺ channel-mediated renal vasodilations. **Experimental Biology - FASEB J April. 2014 28: 837.3. (Journal impact factor: 5.299, Top 10% in Biology)**
15. Mariam A Badawi, **Hanan M El-Gowell**, 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)**
16. Nesma El-Sayed, Sally Galal, **Hanan El-Gowell**, 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.
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