**السیرة الذاتیة**

**وتشمل الأنشطة التدریسیة والمجتمعیة**

**والبحثیة وقائمة الابحاث**

**Curriculum Vitae**

Dr. George S. G. Shehatou

**Lecturer of Pharmacology & Toxicology**

**Faculty of Pharmacy – Mansoura University**

Personal details:

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| **Name** | **:** | George Samir Ghaly Shehatou |
| **Address** | **:** | Department of Pharmacology & Toxicology, Faculty of Pharmacy, Mansoura University, Mansoura 35516, Egypt. |
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| **E-mail** | **:** | **georgeshehatou@gmail.com** |
| **Date of Birth** | **:** | July 6th, 1979 |
| **Place of Birth** | **:** | Dakahlia, Egypt |
| **Marital Status** | **:** | Married, three children |

Qualification degrees:

1. **B.Sc. in Pharmaceutical Sciences 2001:**

With excellent general grade with honor and awarded the 2nd ranking of the graduation in May, 2001.

1. **M.Sc. in Pharmaceutical Sciences (Pharmacology) 2005:**

Thesis title: **“Modulation of the activity of some antiinflammatory drugsby nitric oxide”**

University Council Ratification in 30th May, 2005

* **Master Science Research, Mentor: Prof. El-Sayed M. Ammar, Ph.D. and Prof. Tarek M. Ibrahim, Ph.D, 2002-2005. Department of Pharmacology and Toxicology, Faculty of Pharmacy, Mansoura University.**

**Nitric oxide in inflammation and pain**: I investigated the effect of modulation of endogenous nitric oxide levels in inflammation and pain utilizing classic animal models of carrageenan-induced paw edema in rats and acetic acid-induced writhing in mice. The effect of combinations of L-arginine, as NO precursor, or NOS inhibitors, such as L-NAME (a non selective NO Synthase (NOS) inhibitor) or aminoguanidine (a selective iNOS inhibitor), with acetylsalicylic acid or dexamethasone were studied. The effects of these combinations on edema, serum nitrate/nitrite [NO(x)] level, and serum malondialdehyde (MDA) level were determined. I also looked into possible cardiovascular adverse effects of aspirin and L-NAME combination.

1. **Ph.D. in Pharmaceutical Sciences (Pharmacology) 2006:**

Thesis title: **“An investigation of the mechanisms of cellular transformation by hERG potassium channels”**

University Council Ratification in 23rd June, 2011

* **Doctoral Research, Mentor: Dr. J. S. Mitcheson, Ph.D. and Prof. R. A. J. Challiss, Ph.D., 2007-2011.** Department of Cell Physiology and Pharmacology, University of Leicester, Leicester, UK

**The role of hERG K+ channels in cell transformation and cancer**: Human ether-à-go-go-related gene 1 (hERG1) potassium channels are expressed in a variety of tumour cells and expression of hERG1 K+ channels in normal cells can induce a transformed phenotype. I have provided evidence to indicate that the ion flux through the hERG1 pore and its cell-surface localization is important for its oncogenic potential. Stable expression of hERG1 in NIH-3T3 cells caused a transformed morphology and enhanced cell migration speeds when plated on laminin-1 or fibronectin, and this was associated with a reduction in vinculin protein cell content and cytoskeletal rearrangements. However, stable expression of a non-conducting G628S hERG1, or a trafficking-deficient A561V hERG1 mutant did not induce a transformed phenotype in NIH-3T3 cells. Although dofetilide, which blocks the ion conductance of hERG1, did not alter the transformative effect of wild-type hERG1 expression in cell grown on fibronectin, chronic application of this hERG1 inhibitor at a therapeutically-relevant concentration (100 nM) did cause a near-complete reversion of hERG1-expressing cells to a normal cell phenotype within 14 days.

Academic appointment:

* **10/2011- till now:** lecturer of Pharmacology & Toxicology, Faculty ofPharmacy, Mansoura University.
* **6/2005-9/2011:** assistant lecturer.
* **11/2001-5/2005:** demonstrator.

Current position:

**Post title:** Lecturer of Pharmacology & Toxicology.

**Employer name:** Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Brief description of duties:

* Teaching **Pharmacology**, **Toxicology**, **Physiology**, **Pathophysiology**, **Medical Terminology** and **Experimental Animal Biology** courses to undergraduate students at Faculty of Pharmacy, Mansoura University, Egypt **(2011-2016).**
* Teaching **Pharmacology**, **Physiology**, **Pathophysiology**, **Biostatistics**, **Biological standardization**, **Medical terminology** and **Drug-Drug interaction** courses to undergraduate students at Faculty of Pharmacy, Mansoura University, Egypt – Clinical Program **(2011-2016).**
* Teaching **Pharmacology course to** undergraduate students at Faculty Of Dentistry Mansoura University **(2014-2015).**
* Teaching an advanced **Biostatistics** course to postgraduate pharmacy students as part of **Premaster** courses and **Quality Control Diploma** at Faculty of Pharmacy, Mansoura University, Egypt **(2012-2015).**
* **Teaching “Immunopharmacology” and “New trends in pharmacology”** courses for postgraduate PhD students (2015-2016).
* **Teaching Physiology and Pathophysiology courses** for undergraduate studentsat Faculty of Pharmacy, Delta University, Egypt
* **Supervision of the practical courses of Pharmacology and Toxicology for undergraduate students.**
* **Participation in the preparation of lecture and practical notes of Pharmacology and Toxicology for undergraduate students.**
* **Participation in the preparation of theoretical and practical exams for the undergraduate students.**
* **Participation in the control/exam affairs for undergraduate/pstgraduate students.**
* **Supervision of the summer training of the undergraduate students.**
* **Contribution to the ongoing research in the department.**
* **Evaluator/reviewer in the third and fourth Scientific Conference for Pharmacy Students at Mansoura University (2013 and 2014).**
* **One of the team of University development centre branch in Faculty of Pharmacy, Mansoura University.**

Scientific/research activity:

1. Performing the biological screening for M.Sc thesis in Medicinal Chemistry department, Mansoura University.

  **An article published from this work:**

[**Synthesis, anti-inflammatory, analgesic, COX-1/2 inhibition activities and molecular docking study of pyrazoline derivatives**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:IjCSPb-OGe4C)**.** Maged A. Abdel-Sayed, Said M. Bayomi, Magda A. El-Sherbeny, Naglaa I. Abdel-Aziz, Kamal Eldin H. ElTahir, **George S. G. Shehatou**, Alaa A.-M. Abdel-Aziz. Bioorganic & medicinal chemistry 2016, 24 (9), 2032-2042.

1. Reviewer/Evaluator of competitive research project applications for short-term, long-term and channel missions in 2013-2014
2. A visiting scientist to Georgia University, USA in April 2016 to evaluate the progress of the PhD student Noha M. Shawky (on Joint PhD program; Mansoura University-Georgia University).
3. Performing statistical analyses for some M.Sc and PhD theses as well as research projects in deaprtemnts of Microbiologt, Pharmaceutics and Organic Chemistry, Mansoura University.
4. A postgraduate coordinator of the Department of Pharmacology, Mansoura University for the plagiarism program **Turinitin** during the academic year 2015-2016.
* **Supervision of Master thesis of graduate students:**
1. Potential hepatoprotective effects of some drugs against experimentally-induced liver injury. **Mostafa Fathi Mohamed Omran**
2. Effect of pomegranate fruit extract on liver fibrosis and diabetic complications in rats and its interactions with some drugs. **Hadeer Magdy Hamed Abou El-Ezz**
3. Study of the effect of Nrf2 activation on experimentally-induced vascular dysfunction. **Omnia Ahmed Abdelmeneam Nour**
4. An investigational study of possible beneficial effects of some compounds in experimentally-induced acute pulmonary and renal injury. **Alaa Nadi AbdElraouf Fahmi**
5. Potential protective effects of certain compounds on experimentally-induced hepatic diseases. **Aya Ahmed ALmetwaly Yousef**
* **Supervision of PhD thesis of graduate students:**
1. Pharmacological modulation of some signaling pathways involved in type 2 diabetes in experimental animals. **Marwa Elsayed Abdelmageed Mohammed**
2. Potential effects of some compounds on diabetic complications: an experimental study. **Hanan Sayed Mohammed El-said Anbar**
3. Potential effect of some drugs on insulin resistance induced experimentally. **Noha Mohammed Shawki Ali Elsayed.**

Participation in the activities of Faculty assurance and accreditation Unit, Mansoura University:

1. A member of the committee responsible for training of Human resources at Mansoura Unieversity during 2012-2013 and 2013-2014.
2. A member of the committee responsible for revision of postgraduate programs at Mansoura University during 2015-2016.

Training courses attended in the Faculty and Leadership Development Center - Mansoura University:

1. **Legal and financial aspects in Unversity environment** (15 h): 15-16 February, 2015.
2. **Strategic planning** (15 h): 13-14 September, 2015.
3. **Competing for financial funds**(15 h): 21-22 February, 2016.
4. **Applying academic standards for educational program** (15 h): 15-16 May, 2016.
5. **Statistical analysis skills** (10 h): 7-8 June, 2016.
6. **How ro write a scientific paper** (10 h):11-12 July 2016.

Other training pograms

**1- Training programs at University of Leicester, Leicester, UK (2007-2011).**

* Planning your research & managing supervision
* Critical appraisal & study skills
* Demonstrating & teaching skills
* Working with others; team work
* Use of MS word for long documents
* Giving research seminars and conference talks
* Poster presentation
* Improving PowerPoint presentation
* Laboratory safety
* Bibliographic IT skills for scientists
* DNA Bioinformatics
* DNA sequencing
* DNA sequence compilation
* Protein Bioinformatics
* Protein sequencing
* Protein structural analysis & modeling
* Advanced Microscopy & bioimaging

**2-** **Biostatistics workshop:** British Pharmacological Society (BPS, London), May 2009

**3- Training on Real-time PCR:** Applied Biosystems, Nottingham, UK

Projects:

**Higher Education Institutes Labs Certification/Accreditation Project (2012)**

**Institution: Mansoura University**

**Advanced environmental and chemical analyses lab**

Publications:

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1. [**Long-Term Channel Block Is Required to Inhibit Cellular Transformation by Human Ether-à-Go-Go–Related Gene (hERG1) Potassium Channels**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:u5HHmVD_uO8C)**.** DM Pier, **GSG Shehatou**, S Giblett, CE Pullar, DJ Trezise, CA Pritchard, Molecular pharmacology, 2014 Aug; 86 (2): 211-221. (Impact factor= 3.931).
2. [**Levocetirizine ameliorates high fructose diet-induced insulin resistance, vascular dysfunction and hepatic steatosis in rats**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:d1gkVwhDpl0C)**.** NM Shawky, **GSG Shehatou**, MA Rahim, GM Suddek, NM Gameil. European journal of pharmacology, 2016 Oct; 740: 353-363. (Impact factor= 2.730).
3. [**Sulforaphane attenuates the development of atherosclerosis and improves endothelial dysfunction in hypercholesterolemic rabbits**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:9yKSN-GCB0IC)**.** **GSG Shehatou**, GM Suddek. Experimental Biology and Medicine, 2016 Feb; 241(4):426-36. (Impact factor= 2.542).
4. [**Febuxostat protects rats against lipopolysaccharide-induced lung inflammation in a dose-dependent manner**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:2osOgNQ5qMEC)**.** ANA Fahmi, **GSG Shehatou**, AM Shebl, HA Salem. Naunyn-Schmiedeberg's archives of pharmacology, 2016 Mar; 389(3):269-78. (Impact factor= 2.376).
5. [**Synthesis, anti-inflammatory, analgesic, COX-1/2 inhibition activities and molecular docking study of pyrazoline derivatives**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:IjCSPb-OGe4C)**.** Maged A. Abdel-Sayed, Said M. Bayomi, Magda A. El-Sherbeny, Naglaa I. Abdel-Aziz, Kamal Eldin H. ElTahir, **George S. G. Shehatou**, Alaa A.-M. Abdel-Aziz. Bioorganic & medicinal chemistry, 2016 May; 24 (9):2032-2042. (Impact factor= 2.923).
6. **Sulforaphane improves dysregulated metabolic profile and inhibits leptin-induced VSMC proliferation: Implications toward suppression of neointima formation after arterial injury in western diet-fed obese mice.** Noha M Shawky, Prahalathan Pichavaram, **George SG Shehatou**, Ghada M Suddek, Nariman M Gameil, John Y Jun, Lakshman Segar. The Journal of nutritional biochemistry, 2016 Jun; 32: 73-84. (Impact factor= 4.668).
7. [**Comparison of the effects of levocetirizine and losartan on diabetic nephropathy and vascular dysfunction in streptozotocin-induced diabetic rats**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:UeHWp8X0CEIC)**.** HS Anbar, **GSG Shehatou**, GM Suddek, NM Gameil. European journal of pharmacology 2016 Jun 5; 780:82-92. (Impact factor= 2.730).
8. [**Febuxostat exerts dose-dependent renoprotection in rats with cisplatin-induced acute renal injury**](https://scholar.google.com.eg/citations?view_op=view_citation&hl=en&user=STnqxCcAAAAJ&sortby=pubdate&citation_for_view=STnqxCcAAAAJ:zYLM7Y9cAGgC)**.** ANA Fahmi, **GSG Shehatou**, AM Shebl, HA Salem. Naunyn Schmiedebergs Arch Pharmacol. 2016 Aug, 389: 819–830. (Impact factor= 2.376).
9. **Protective effects of trimetazidine against acetaminophen-induced liver injury in mice.** Aya A. AL-metwaly, **George SG Shehatou**, Abdelhadi M. Shebl, Ghada M. Suddek. Journal of Pharmaceutical Sciences and Pharmacology, in press.