



Sabah Hussien El-Ghaiesh

MBBC, M.Sc, MD/PhD

Curriculum Vitae

Personal Details

Name: Sabah Hussien El-Ghaiesh

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Qualifications

- (2007/ 2011) **MPhil/PhD**, Department of Pharmacology, MRC Centre for Drug Safety Science, University of Liverpool, UK. **MD**, Supreme Council of Universities, Egypt.

Thesis entitled (**The role of T-lymphocytes in non-immediate allergic reactions to drugs: definition of the relationship between drug antigenicity and immunogenicity**)

- (1997-2004) **MSc**, Departments of Pharmacology, Faculty of Medicine, Tanta University, Egypt. Thesis entitled (**Demonstrating the effect of losartan and atorvastatin on nitric oxide levels in atherosclerotic rabbits**).
- (1990-1996) Faculty of Medicine, Tanta University, Egypt. **MBBC, very good “Honor”**.

Scholarships/Awards

- (2006) The Egyptian Government scholarship to get a PhD in immunopharmacology.
- (2008) Overseas Research Student Award Scheme “ORSAS” from the University of Liverpool.

Work Experience

- November 2015-till now
 - Assistant Professor of Pharmacology, Faculty of Medicine, University of Tabuk.
 - Teaching, research, and share in administrative work.
 - Medical teaching in problem-based and lecture small group and large groups.
 - A member of Faculty Medical Education Committee 2016/2017.
 - A member of Faculty Accreditation Committee 2016/2017.
- July 2011- November 2015
 - Lecturer, Pharmacology department, Faculty of Medicine, Tanta University
 - Responsibilities involve lectures of undergraduate and postgraduate students.
 - Help in preparation of studying curricula, examination and assessment of students “oral, practical & written exams”.
 - Research supervision of master and doctorate students, details of my research interest and research expertise are discussed later under separate topic.
- 2007 – 2011: MPhil/PhD student “immunopharmacology”
 - MRC Centre for Drug Safety Science, Department of Pharmacology & Therapeutics, Sherrington Building, Ashton St., University of Liverpool, England, P.O. Box 147, Liverpool, L69 3GE
 - Research studies was to investigate and define the relationship between the chemistry of antigen formation and the mechanisms by which this leads to an aberrant T-lymphocyte-mediated immune response in human.
- 2004-2007: assistant Lecturer Pharmacology
 - Department of Pharmacology, Faculty of Medicine, Tanta University, Egypt.
 - Main duties; practical sessions, laboratory work of medical undergrads. Practical exams supervision and marking.

- 2000-2004: Demonstrator in the Pharmacology Department, Faculty of Medicine, Tanta University
- 1998-1999: Resident doctor in the Department of Tropical medicine, Tanta University Hospitals, Egypt.
- 1997-1998: Resident doctor in Tah-Shubra rural health centre, Elminofia, Egypt.
- 1996-1997: a clinical training year in Tanta University hospitals (Internal Medicine, Paediatrics, Surgery and Anaesthesia, Tropical Medicine, Gynaecology and Obstetrics).

Training/courses

Personal development

- Effective communication skills (18 hours, Tanta University).
- Using technology in education (18 hours, Tanta University).
- University management (18 hours, Tanta University).
- Strategic planning (18 hours, Tanta University).
- ICDL (word, excel, power point, access, internet, information technology), three months courses and exams (Tanta University).

Teaching skills development

- Teaching and lecturing skills (84 hours, Faculty of Education, Tanta University)
- Demonstrator training course (7 hours course, University of Liverpool)
- Career Development Courses: (15 hours, Faculty of Medicine, Tabuk University)
 - Teaching and learning (5 hours).
 - Curriculum Design and Development (5 hours).
 - Student assessment (5 hours).

Research skills development

- Scientific research design (18 hours, Tanta University).
- Scientific communication and publication (18 hours, Tanta University).
- Safety measures in using radiation in research (2 hours, University of Liverpool).
- Using reference management software in scientific publications; endnote and ref-manager (2 hours, University of Liverpool).
- Safety measures and code of practice in laboratory work (2 hours, University of Liverpool)
- Statistical analysis of data (35 hours course, University of Liverpool)
- Training to use statistics software (SPSS, Prism) University of Liverpool

Research interest & experience

Interested in research in pharmacology and immunopharmacology.

Experience in molecular/ cellular immunology, molecular biology and biochemistry assays/ techniques including:

- Cell culture of primary human lymphocytes and immune cell lines. Generation of immortalized antigen presenting cell line (B-lymphoblastoid EBV-transformed cells) and drug/antigen-specific T cell lines and clones.
- Proliferation (lymphocyte proliferation test, proliferation assay, lymphocyte-enriched with the antigen/drug of interest).
- Cytokine secretion (ELISA, ELISPOT, LUMINEX, flow cytometry)
- Cell surface receptor expression (phenotype, MHC, cytokine & chemokine receptors).
- Cytotoxic activity of antigen-specific T-lymphocytes (flow cytometry „CD107a“, and chromium release assay)
- Protein-drug conjugation, solvent extraction, ELISA, western blotting, basics and samples preparations of liquid chromatography/mass spectrometry analysis of protein sequences.
- MHC-elution using weak acid method, and using the elutes as antigens in cell cultures using the whole eluate or after separating the bigger proteins with cutoff of 5-10 kda.
- Using limiting dilution assay to generate libraries of T-cells and testing the frequency of antigen-specific cells using the limiting dilution analysis.

Publications

- Eman T Mehanna, Sabah H El-Ghaiesh, Hala MF Mohammad, Sawsan A Zaitone, Essam Abdelsattar. Russelioside B, A pregnane glycoside, modulates the expression of adiponectin and visfatin and improves insulin resistance in rats fed with high-fat diet (submitted 2017).
- El-Ebiary AA., El-Ghaiesh S, Hantash E & Alomar S. Mitigation of cadmium-induced lung injury by Nigella sativa oil. Environ Sci Pollut Res Int. 2016; 23, 25356-25363.
- Jenkins RE, Yaseen FS, Monshi MM, Whitaker P, Meng X, Farrell J, Hamlett J, Sanderson JP, El-Ghaiesh S, Peckham D, Pirmohamed M, Park BK, Naisbitt DJ. β -Lactam antibiotics form distinct haptenic structures on albumin and activate drug-specific T-lymphocyte responses in multiallergic patients with cystic fibrosis. Chem Res Toxicol. 2013; 26(6):963-75.
- El-Ghaiesh S, Monshi MM, Whitaker P, Jenkins R, Meng X, Farrell J, et al. Characterization of the antigen specificity of T-cell clones from piperacillin hypersensitive patients with cystic fibrosis. J Pharmacol Exp Ther. 2012 Jun; 341(3): 597-610.
- Whitaker P1, Xiaoli M1, Lavergne SN1, El-Ghaiesh S, Monshi M, Earnshaw C, Peckham D, Gooi J, Conway C, Pirmohamed M, Jenkins R, Naisbitt DJ & Park BK. Mass spectrometric characterization of circulating and functional antigens derived from piperacillin in patients with cystic fibrosis. J Immunol. 2011 Jul; 187(1): 200-11.

- El-Ghaiesh S, Sanderson JP, Farrell J, Lavergne SN, Syn WK, Pirmohamed M, Park BK, Naisbitt DJ. Trimethoprim stimulates T-cells through metabolism-dependent and independent pathways. *Chem Res Toxicol*. 2011 Jun; 24(6): 791-3.
- El-Ghaiesh S, Sanderson J, Farrell J, Lavergne SN, Syn W, Pirmohamed M, Park K & Naisbitt DJ. Characterization of drug-specific lymphocyte responses in a patient with drug-induced liver injury. *J Allergy Clin Immunol*. 2011 May 17. [Epub a head of print].
- Elsheikh A, Castrejon J, Lavergne S, Whitaker P, Monshi M, Callan H, El-Ghaiesh S, Farrell J, Pichler WJ, Peckham D, Kevin Park B and Naisbitt DJ. Enhanced antigenicity leads to altered immunogenicity in sulfamethoxazole hypersensitive patients with cystic fibrosis. *J Allergy Clin Immunol*. 2011 Jun; 127(6): 1543-1551.
- Castrejon JL, Berry N, El-Ghaiesh S, Gerber B, Pichler WJ, Park BK, Naisbitt DJ. Stimulation of human T cells with sulfonamides and sulfonamide metabolites. *J Allergy Clin Immunol*. 2010 Feb; 125(2):411-418.

Research supervision and projects

- Research supervisor of doctorate student (2012-2016): Studying the effect of low dose naltrexone with and without 5-fluorouracil in Ehrlich carcinoma in mice (manuscript in preparation).
- A consultant on (2015-2017): studying the potential therapeutic effects of herbal extracts (berry leaves and olive leaves) on streptozotocin-induced diabetes in rats.

Scientific membership

- An Editorial Board member in *Universal Journal of Pharmaceutical Research (UJPR)*.
- A member in *European Academy of allergy and Clinical Immunology (EIAACI)*.
- A member in *British Pharmacological Society (BPS)*.
- A member in *British toxicology Society (BTS)*.
- A member in *European Cystic Fibrosis Society (ECFS)*.
- A member in *Egyptian Society of Pharmacology and Experimental Therapeutics (ESPET)*.

Conferences/meetings

- 30th Tanta University Congress (Multidisciplinary Medicine Era II) 2015, Tanta, Egypt. (Oral talk).
- 28th Tanta University Congress (Quality & Medicine) 2013, Tanta, Egypt. “Oral talk & a post graduate course”.
- ICNBS international conference of Nanotechnology, Biotechnology and Spectroscopy March **2012**, Cairo, Egypt. “A poster & an oral talk”.
- 5th Drug Hypersensitivity Meeting **2012**, Munich, Germany. “Poster presentation”.
- Tanta University conference **2012**, Tanta, Egypt. “Oral talk”.

- British Society of Immunology congress **2010**, Liverpool, UK. “2 posters”.
- 33rd European cystic fibrosis conference **2010**, Valencia, Spain. “A poster”.
- 4th drug hypersensitivity meeting **2010**, Rome, Italy. “4 posters”.
- British Pharmacology Society winter meeting **2009**, UK. “A poster”.
- British Toxicology Society annual congress **2009**, Warwick, UK. “A poster”.

Referees

Professors B. Kevin Park
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