



**Prof. Dr. Sanaa Abd El-Ghany El-Gizawy**

**Personal Information**

**Name:** Sanaa Abd El-Ghany Mahmoud El-Gizawy

**Date of Birth:** August 25, 1957

**Place of Birth:** Tanta – Egypt

**Sex:** Female

**Marital Status:** Married

**Nationality:** Egyptian

**Present Employment:** Head of the Department of Pharmaceutical Technology

**Work Address:** Dept. of Pharmaceutical Technology,  
Faculty of Pharmacy,  
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**Academic Qualification**

- 1- **Bachelor of Pharmaceutical Sciences-** May 1980- Very good with honor-  
Faculty of Pharmacy- University of Tanta.

- 2- **Master degree in Biopharmaceutics** - “Biopharmaceutical Studies of Selected Dosage Forms” - May 1987- Faculty of Pharmacy- University of Tanta.
- 3- **Ph. D. in Biopharmaceutics** - “Pharmacokinetics and Pharmacodynamics of Certain Xanthin Bronchodilators in Different Pharmaceutical Dosage Forms”- March 1993- Faculty of Pharmacy- University of Tanta.

### **Employment History**

- 1- **Demonstrator**- December 1980- Dept. of Pharmaceutical Technology- Faculty of pharmacy- University of Tanta.
- 2- **Assistant lecturer**- July 1987- Dept. of Pharmaceutical Technology- Faculty of Pharmacy- University of Tanta.
- 3- **Lecturer**- May 1993- Dept. of Pharmaceutical Technology- Faculty of pharmacy- University of Tanta.
- 4- **A post doctor fellowship candidate**- September 1996- Dept. of Pharmaceutical Sciences- College of Pharmacy- Washington State University- Pullman- USA.
- 5- **Associate professor**- July 1999- Dept. of Pharmaceutical Technology- Faculty of Pharmacy- University of Tanta.
- 6- **Professor**- August 2008- Dept. of Pharmaceutical Technology- Faculty of Pharmacy- University of Tanta.
- 7- **Head of department**- October 2008- Dept. of Pharmaceutical Technology- Faculty of Pharmacy- University of Tanta.

## **Scholarships**

Post-doctor research scholarship in Department of Pharmaceutical Sciences, College of Pharmacy, Washington State University, Pullman, U.S.A., September 1996- March 1997.

## **Awards**

Selection of my biographical profile for inclusion in 2009 Edition of **Marquis Who's Who in the World** (A very special edition that feature biographies of the most accomplished men and women from around the globe based on their achievements in all fields).

## **Research Projects**

Research project in the Faculty of Pharmacy that is funded and supervised by University of Tanta (2000- 2004) under the title: "An approach to enhance targeted delivery of certain antineoplastic and antimicrobial agents to the brain".

## **Conferences**

- 1- First International Meeting on Pharmacy and Pharmaceutical Sciences, 4-7 September **1994**, Istanbul- Turkey.
- 2- Conference of The Woman and Scientific Research in Upper Egypt, 31 March- 1April **1996**, University of Assuit, Assuit- Egypt.
- 3- Second World Congress on Emulsion, 23-26 September **1997**, Bordeaux, France.
- 4- Second Conference of Egyptian Pharmaceutical Students Federation (EPSF II), Pharmaceutical Scientific Society, 23- 25 October **1997**, Faculty of pharmacy, University of Tanta, Tanta- Egypt.
- 5- Assuit University 1<sup>st</sup> Pharmaceutical Sciences Conference, 4-5 March **1998**, Faculty of Pharmacy, Assuit- Egypt.
- 6- Conference of Arab Council for Training Students of Arab Universities (ACTSAU), 1-3 September **1998**, Amman- Jordon.

- 7- XXVI Conference of Pharmaceutical Sciences, The Egyptian Pharmaceutical Society, 8-10 December **1998**, Cairo- Egypt.
- 8- Tanta Meeting, annually in May (**1993- 1999**), Faculty of Pharmacy, University of Tanta, Tanta- Egypt.
- 9- IXXX Conference of Pharmaceutical Sciences and VIII Conference of the Colleges of Pharmacy in the Arab World, The Pharmaceutical Society of Egypt, 21-23 December **2004**, Cairo- Egypt.
- 10- World Congress of Pharmacy and Pharmaceutical Sciences, 65<sup>th</sup> Congress of FIP, 2-8 September **2005**, Cairo- Egypt.
- 11- The 9<sup>th</sup> International Pharmaceutical Sciences Conference & Exposition, 17-21 December **2005**, College of Pharmacy, King Saud University, Riyadh- Saudi Arabia.
- 12- The 4<sup>th</sup> International Conference of Pharmaceutical and drug industries Research Division, 3-5 March **2009**, National Research Center, Pharmaceutical and Drug Industries Research Division, Cairo- Egypt.
- 13- The 2<sup>nd</sup> International Conference for Enhancing Scientific Research: Innovation and Development, 4-5 March **2009**, University of Tanta, Tanta- Egypt.
- 14- First International Pharmaceutical Sciences Conference, 18-19 November **2009**, Faculty of Pharmacy, University of Tanta, Tanta- Egypt.

### **Professional Experiences**

- 1- Serving as the main researcher in the bioavailability and bioequivalence unite in the Pharmaceutical Services Center, Faculty of Pharmacy, University of Tanta.
- 2- Participation in most of the research projects concerned with bioavailability, stability, preformulation and formulation studies as a scientific cooperation

between drug companies and Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Tanta.

- 3- Participation as a general secretary of Second Conference of Egyptian Pharmaceutical Federation (EPSF II), Pharmaceutical Scientific Society, Faculty of Pharmacy, University of Tanta, 23-25 October 1997.
- 4- Participation as a member in the organizing committee of Tanta Meeting, Faculty of Pharmacy, University of Tanta, annually in May (1993- 1999).
- 5- Participation as a project supervisor and a member in the judging committee of the conference of Arab Council for Training Students of Arab Universities (ACTSAU), 1-3 September 1998, Amman- Jordan.
- 6- Supervision of Tanta Pharmaceutical Scientific Society (TPSS), Faculty of Pharmacy, University of Tanta that is a member of Egyptian Pharmaceutical Scientific Federation (EPSF) which is a member of International Pharmaceutical Scientific Federation (IPSF), 1998- 2008.
- 7- Supervision of training program for under-graduate pharmacy students in Marcella, France. This program follows the project of student exchange between Faculty of Pharmacy, University of Tanta and College of Pharmacy, University of Marcella, France, 6- 21/9/2000.
- 8- Participation as a consultant for Sigma Pharmaceutical Group.
- 9- Participation as a reviewer for three international Journals, AAPS PharmSciTech, Pharmaceutical Development and Technology and Asian Journal of pharmaceuticals.

### **Teaching and Scientific Experiences**

#### **1- Teaching under-graduate courses**

**Pharmaceutics**, 1<sup>st</sup> semester, 1<sup>st</sup> year pharmacy.

**Physical Pharmacy**, 2<sup>nd</sup> semester, 1<sup>st</sup> year pharmacy.

**Pharmaceutical Formulations**, 1<sup>st</sup> and 2<sup>nd</sup> semesters, 2<sup>nd</sup> year pharmacy.

**Biopharmaceutics**, 2<sup>nd</sup> semester, 2<sup>nd</sup> year pharmacy.

**Pharmacokinetics**, 2<sup>nd</sup> semester, 2<sup>nd</sup> year pharmacy.

**Pharmaceutical Formulations**, 1<sup>st</sup> semester, 3<sup>rd</sup> year pharmacy.

**Industrial Pharmacy**, 2<sup>nd</sup> semester, 3<sup>rd</sup> year pharmacy.

**Professional Pharmacy and Drug Interactions**, 1<sup>st</sup> and 2<sup>nd</sup> semester, 4<sup>th</sup> year pharmacy.

**Health Care Administration**, 2<sup>nd</sup> semester, 4<sup>th</sup> year pharmacy.

**Industrial Pharmacy (GMP)**, 2<sup>nd</sup> semester, 4<sup>th</sup> year pharmacy.

**Elective Courses (Cosmetics and Hospital Pharmacy)**, 4<sup>th</sup> year pharmacy.

2- **Teaching graduate courses**

Advanced physical pharmacy, Advanced pharmaceutical formulations, Advanced biopharmaceutics, Advanced GMP, Advance pharmaceutical engineering, Advanced hospital pharmacy, Advanced pharmacokinetics and Advanced industrial pharmacy.

3- **Teaching Pharm. D. courses**

4- **Participation in oral examinations** of all previous courses in Tanta University and as external examiner in many other universities

5- **Participation in teaching pharmacists in the continuing pharmaceutical education program.**

6- **Participation in educational courses** organized by Dakahlia Pharmacist Syndicate “Clinical practice for pharmacists, Clinical pharmacology”, 30/6-10/7/2007.

7- **Participation in teaching hospital pharmacy courses in Misr International University (MIU).**

8- **Participation in training courses** organized by Research and Development Center of Sigma Pharmaceutical Group.

**Supervision of Theses**

1- Doaa M.S. Elsayy, “Blockade of Exercise- Induce Bronchospasm in Asthmatic Children by A Single Oral Dose of Theophylline and

- Terfenadine”, **Master Thesis in Pediatrics (1994)**, Faculty of Medicine, University of Tanta.
- 2- Gamal M. El-Maghraby, “Investigation of Ranitidine Stability in Various Dosage Forms”, **Master Thesis in Pharmaceutical Technology (1995)**, Faculty of Pharmacy, University of Tanta.
  - 3- Sahar K.T. Hegazy, “Effect of Bilharziosis on Certain Metabolic Pathways of Some Drugs”, **Master Thesis in Clinical Pharmacy (1996)**, Faculty of Pharmacy, University of Tanta.
  - 4- Ebtesam A. Esa, “Investigations to Improve The Acceptability of Some Drugs by Masking Their Bitter Taste”, **Master Thesis in Pharmaceutical Technology (1996)**, Faculty of Pharmacy, University of Tanta.
  - 5- Sahar M. El-Hagggar, “Effect of Thyroid Function on Certain Metabolic Pathways of Drugs”, **Master Thesis in Clinical pharmacy (1997)**, Faculty of Pharmacy, University of Tanta.
  - 6- Hanan S. Asaad,” Comparative Bioavailability Studies for Erythromycin and Its Selected Derivatives”, **Master Thesis in Pharmaceutical Technology (1997)**, Faculty of Pharmacy, University of Tanta.
  - 7- Tarek M. El-Gohary,” The Impact of Antiepileptic Drugs on Cognitive and Behavioral Functions in Children with Idiopathic Generalized Epilepsy”, **Ph. D. Thesis in Pediatrics (1998)**, Faculty of Medicin, University of Tanta.
  - 8- Mohamed A. Shaker, “Formulation and characterization of Melanin Liposomes and Study the Effect of Laser for Their Targeting”, **Master Thesis in Pharmaceutics (2003)**, Faculty of Pharmacy, University of Helwan.

- 9- Ahmed M. A. Donia, "A Pharmaceutical Study of Certain Drug Loaded Vesicular Systems", **Master Thesis in Pharmaceutical Technology (2004)**, Faculty of Pharmacy, University of Tanta.
- 10- Sahar M. El-Haggag, "Investigation of The Factors Affecting The Oral Bioavailability of Atenolol", **Ph. D. Thesis in Clinical Pharmacy (2005)**, Faculty of Pharmacy, University of Tanta.
- 11- Dalia M. El-Sabaawy, "Celecoxib Interactions with Fluconazole and Trimethoprim/Sulphamethoxazole", **Master Thesis in Clinical Pharmacy (2006)**, Faculty of Pharmacy, University of Tanta.
- 12- Saly A.M. Helmy, "Studies on some formulation factors affecting the absorption of cefixime", **Master thesis in Biopharmaceutics (2007)**, Faculty of Pharmacy, University of Tanta.
- 13- Heba M.M. El-bedawy, "Studies to enhance the intestinal absorption and bioavailability of acyclovir", **Master thesis in Biopharmaceutics (2007)**, Faculty of Pharmacy, University of Tanta.
- 14- Doaa A. Habib, "A Study to Investigate the Effect of Dissolution Properties on the Pharmacokinetics of A Poorly Soluble and Highly Permeable Drug (Class II Drug)", **Master Thesis in Biopharmaceutics (2008)**, Faculty of Pharmacy, University of Tanta.
- 15- Rashad M.M. Kaoud, "Preformulation studies on the release of certain drug from different pharmaceutical preparations", **Master Thesis in Pharmaceutics (2009)**, Faculty of Pharmacy, Al-Azhar University, Cairo.
- 16- Rasha S.E. Elbatanony, "A study to design and optimize gastro-retentive drug delivery system of a highly soluble poorly permeable drug", **Master Thesis in Pharmaceutical Technology (2010)**, Faculty of Pharmacy, University of Tanta, Tanta.

### **External Examination and Evaluation of Theses**

- 1- Ghada E. Yassin, "Formulation and evaluation of pharmaceutical dosage forms containing slightly soluble drug", **Ph. D. Thesis in Pharmaceutics (2009)**, Faculty of Pharmacy for girls, Al-Azhar University, Cairo.
- 2- Doaa A. Abdel Fadeel, "Nanoparticles in photodynamic therapy", **Master Thesis in Medical Applications of Laser (2009)**, National Institute of Laser Enhanced Science, Cairo University, Cairo.
- 3- Sahar M.A. Darwish, "A study of post-marketing stability of selected pharmaceutical products", **Master Thesis in Pharmaceutics (2010)**, Faculty of Pharmacy, Alexandria University, Alexandria.

### **List of Publications**

- 1- Youssef, M.K., Zein El-Din, E.E., El-Shimy, W.S.A, Hedaya, M.A., **El-Gizawy, S.A.** (1994) Pharmacokinetics and pharmacodynamics of certain xanthine bronchodilators. First International Meeting on Pharmacy and Pharmaceutical Sciences, Meeting Abstract, Istanbul-Turkey, p. 74
- 2- Youssef, M.K., Zein El-Din, E.E., El-Shimy, W.S.A, Hedaya, M.A., **El-Gizawy, S.A.** (1994) Formulation and evaluation of theophyllin sustained release tablets. First International Meeting on Pharmacy and Pharmaceutical Sciences, Meeting Abstract, Istanbul-Turkey, p. 76
- 3- Mady, O.Y., Fouda, M.A., **El-Gizawy, S.A.** (1997) Controlled release ibuprofen tablets with stearates as waxy matrices. *Bull. Fac. Pharm. Cairo Univ.* **35**(1): 87-95
- 4- Youssef, M.K., Abdel Khalik, A.F., **El-Gizawy, S.A.**, Mady, O.Y., Essa, E.A. (1997) Formulation and preparation of griseofulvin multiple emulsions. Second World Congress on Emulsion, Congress Proceeding, Vol.2, Bordeaux – France, p. 3-3/138
- 5- Youssef, M.K., Attia, I.A., **El-Gizawy, S.A.**, El-Maghraby, G.M. (1998) Stability of ranitidine hydrochloride in aqueous solutions. Assuit University 1<sup>st</sup> Pharmaceutical Sciences Conference Abstract, Assuit-Egypt, p. 17

- 6- Youssef, M.K., Abdel-Khalek, A.F., **El-Gizawy, S.A.**, Mady, O.Y., Essa, E.A. (1998) Microencapsulation as a tool to mask the bitter taste of griseofulvin. Assuit University 1<sup>st</sup> Pharmaceutical Sciences Conference Abstract, Assuit-Egypt, p. 18
- 7- Mady, O.Y., Fouda, M.A., **El-Gizawy, S.A.** (1998) Preparation of aspirin microcapsules: Effect of drug loading extent on the product size analysis, morphology and drug content. Assuit University 1<sup>st</sup> Pharmaceutical Sciences Conference Abstract, Assuit-Egypt, p. 23
- 8- **El-Gizawy, S.A.**, Aboul Assad, I.A. (1998) Effect of drug dosage on the pharmacokinetics and therapeutic efficacy of praziquantel in *S. Mansoni* infected mice. *Bull. Fac. Pharm. Cairo Univ.* **36**(2): 61-71
- 9- **El-Gizawy, S.A.**, Hedaya, M.A. (1999) Comparative brain tissue distribution of camptothecin and topotecan in the rat. *Cancer Chemother. Pharmacol.* **43**: 364-370
- 10- **El-Gizawy, S.A.**, Aglan, N.I. (2003) Formulation and evaluation of metronidazole acid gel for vaginal contraception. *J. Pharm. Pharmacol.* **55**: 903-909
- 11- Hashem, F.M., **El-Gizawy, S.A.**, Omar, S.M., Ali, M.F.M., Shaker, M.A. (2005) Preparation and characterization of photosensitive melanin liposomes for laser-targeted drug delivery after subcutaneous injection in rats. *Bull. Fac. Pharm. Cairo Univ.* **43**(2): 169-181
- 12- Hashem, F.M., **El-Gizawy, S.A.**, Omar, S.M., Ali, M.F.M., Shaker, M.A. (2007) Effect of lyophilization on the characteristics and stability of melanin loaded liposomes. *Saudi Pharmaceutical Journal.* **15** (3-4): 196-204.
- 13- Attia, I.A., El-Gizawy, S.A., Fouda, M.A., Donia, A.M. (2007) Influence of a niosomal formulation on the oral bioavailability of acyclovir in rabbits. *AAPS PharmSciTech.* 8(4) Article 106: E1-E7
- 14- **El-Gizawy, S.A.** (2007) Effect of formulation additives on the dissolution of meloxicam from liquisolid tablets. *Egypt. J. Biomed. Sci.* **25**: 143- 159.

- 15- Zein El-Din, E.E., **El-Gizawy, S.A.**, Borg, N.M. (2007) Formulation and in-vitro and in-vivo evaluation of metronidazole sustained release floating tablets. *Egypt. J. Biomed. Sci.* **25**: 192- 204.
- 16- Hedaya, M.A., El-Haggar, S.M., **El-Gizawy, S.A.** (2008) Influence of beverages, meals and dose on the oral bioavailability of atenolol as a model class III drug. *Egypt. J. Biomed. Sci.* **26**: 15- 29.
- 17- Hedaya, M.A., Ayad, N.M., El-Sabaawy, D.M., **El-Gizawy, S.A.** (2008) Celecoxib pharmacokinetic interaction with fluconazole and trimethoprim/sulphamethoxazole. *Egypt. J. Biomed. Sci.* **26**: 40- 51.
- 18- Hedaya, M.A., Osman, M.A., Helmy. S.M., **El-Gizawy, S.A.** Formulation and evaluation of an oral delivery system to enhance cefixime bioavailability. The 14<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems. 15-18 February **2009**, Salt Lake city, Utah, USA
- 19- Zein El-Din, E.S., **El-Gizawy, S.A.**, El-Haggar, S.M., Habib, D.A. Effect of formulation additives on the dissolution and pharmacokinetics of meloxicam tablets. The 4<sup>th</sup> International Conference of Pharmaceutical and drug industries Research Division, 3-5 March **2009**, National Research Center, Pharmaceutical and Drug Industries Research Division, Conference Abstract, Cairo- Egypt, p 31
- 20- Hedaya, M.A. and **El-Gizawy, S.A.** An approach to enhance targeted delivery of certain antineoplastic and antimicrobial agents to the brain. The 2<sup>nd</sup> International Conference for Enhancing Scientific Research: Innovation and Development, 4-5 March **2009**, University of Tanta, Tanta- Egypt.
- 21- **El-Gizawy, S.A.**, Osman, M.A., Hedaya, M.A., El-Bedaiwy, H.M. Studies to enhance the intestinal absorption and bioavailability of acyclovir. First International Pharmaceutical Sciences Conference, 18- 19 November **2009**, Conference Abstract, Faculty of Pharmacy, University of Tanta, Tanta- Egypt, p51.
- 22- Zein El-Din, E.S., **El-Gizawy, S.A.**, Osman, M.A., Hedaya, M.A. Helmy, S.A. Site dependent absorptive clearance of loxoprofen from rabbit intestine. First International Pharmaceutical Sciences Conference, 18- 19

- November **2009**, Conference Abstract, Faculty of Pharmacy, University of Tanta, Tanta- Egypt, p52.
- 23- El-Gizawy, S.A., Osman, M.A., Hedaya, M.A. Helmy, S.A.** Formulation and evaluation of gastro-retentive system to enhance cefixime bioavailability. First International Pharmaceutical Sciences Conference, 18- 19 November **2009**, Conference Abstract, Faculty of Pharmacy, University of Tanta, Tanta- Egypt, p53.
- 24- Zein El-Din, E.S., El-Gizawy, S.A., Sakr, M.M., Elbatanony, R.S.E.** Optimization and evaluation of ranitidine hydrochloride floating tablets for gastric retention. First International Pharmaceutical Sciences Conference, 18- 19 November **2009**, Conference Abstract, Faculty of Pharmacy, University of Tanta, Tanta- Egypt, p55.
- 25- Zein El-Din, E.S., El-Gizawy, S.A., El-Haggar, S.M., Habib, D.A. (2009)** Effect of formulation additives on the dissolution and pharmacokinetics of meloxicam tablets. *Egypt. J. Biomed. Sci.* **31**: 71- 94.