



Mohamed El Housseiny El Sebeay Shams

Professor, Clinical Pharmacy Practice
Chair, Dept. of Pharmacy Practice
Faculty of Pharmacy, Mansoura University

Personal Details:

- **Name:** Mohamed El Houseny El Sebeay Shams
- **Birth date:** 10. 12. 1970
- **Nationality:** Egyptian
- **Marital State:** Married

Positions and Academic Appointments:

- **A demonstrator (1994-2000):** Department of Pharmaceutics and Clinical Pharmacy - Faculty of Pharmacy - Mansoura University – Egypt
- **Assistant Lecturer (1.2000 - 4 .2001):** Department of Pharmaceutics and Clinical Pharmacy - Faculty of Pharmacy - Mansoura University - Egypt
- **A lecturer (2005-2008):** Department of Pharmaceutics and Clinical Pharmacy- Faculty of Pharmacy, Mansoura University, Mansoura, Egypt
Specialty: Clinical Pharmacy and Pharmaceutics.
- **A lecturer (2006-2008):** Department of Clinical Pharmacy and Therapeutics - Faculty of Pharmacy- Misr International University (MIU), Cairo, Egypt
- **Assistant Prof. (A lecturer) (Full Time) (2008-2010):** Department of Pharmacy Practice and Dosage Forms, Ministry of Health, Oman Assistant Pharmacy Institute, Muscat, Sultanate of Oman .
- **Associate Prof. (2010-2011):** Department of Pharmaceutics and Pharmacy Practice, Ministry of Health, Oman Pharmacy Institute, Muttrah, Muscat, Sultanate of Oman & Dept. of Pharmaceutics, Faculty of Pharmacy, Mansoura University, Egypt.

- **Professor, (2016-2018):** Department of Pharmaceutics and Pharmacy Practice, Ministry of Health, Oman Pharmacy Institute, Muttrah, Muscat, Sultanate of Oman & Dept. of Pharmaceutics, Faculty of Pharmacy, Mansoura University, Egypt.
- **Head of the Dept. of Pharmacy Practice (2011 -2016),** Pharmacy Program, Oman College of Health sciences, Muscat, Oman.
- **Vice Dean for Registration and Admission Affairs (2016 -2018),** Pharmacy Program, Oman College of Health Sciences, Muscat, Oman.
- **Chair of the Dept. of Pharmacy Practice, Faculty of Pharmacy, Mansoura University (August 2020-Now)**

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https://www.researchgate.net/profile/Dr_Mohamed_Shams

<https://asiapacific.pharmaceuticalconferences.com/ocm/2018/mohamed-e-e-shams-university-of-mansoura-egypt>

Qualification Degrees:

- **Ph.D. (Philosophy Doctor)** Degree 2005 in Clinical Pharmacy- Faculty of Pharmacy-Johannes Gutenberg University of **Mainz, Germany.**
Grade: (**Sehr gut-I**) Very Good
- **M.Sc. (Master's degree)** 1999 Department of Pharmaceutics and Clinical Pharmacy-Mansoura University, Mansoura, Egypt
- **B.Sc. (Bachelor Degree)** 1993 Faculty of Pharmacy- Mansoura University- Egypt **Grade: Excellent with honor**

Languages:

- **Arabic** (mother tunge)
- **English** (Fluent)
- **German** (Fluent)

Grants:

- A scholarship from the Ministry of Higher Education (Egyptian Government) to study my PhD in the field of Clinical Pharmacy from Johannes Gutenberg University of Mainz, Germany.

Publications:

1. **Shams M.** Hiemke C, Härtter S. Column switching and high performance liquid chromatography (HPLC) with fluorescence detection for automated analysis of venlafaxine, mirtazapine and demethylated metabolites in blood serum or plasma. 5th Workshop, Therapeutisches Drug Monitoring von Psychopharmaka (AGNP), 4-5 Juli, 2002, **Magdberg-** Institut für Klinische Pharmakologie, Medizinische Fakultät, Otto-von-Guericke Universität- **Germany.**
2. **Shams M.** Hiemke C, Härtter S. A rapid high-performance liquid chromatographic assay with fluorescence detection for therapeutic monitoring of the antidepressant mirtazapine, and its N-demethylated metabolite in human serum. *Therapeutic Drug Monitoring* 2003; 25 (4): 2003.

3. Grözinger M, Dragicevic A, Hiemke C, **Shams M**, Müller MJ, Härtter S. Melprone is an inhibitor of the CYP2D6 catalyzed O-demethylation of venlafaxine. *Pharmacopsychiatr* 2003; 36: 3-6.
4. **Shams M**, Hiemke C, Härtter S. Therapeutic drug monitoring of the antidepressant mirtazapine and its N-demethylated metabolite in human serum. *Ther Drug Monit* 2004; 26: 78-84.
5. El-Shaboury M, Gabr K, Elsayed G, **Shams M**. Preparation and release characteristics of indomethacin and diclofenac sodium solid-emulsion gels. *Mansoura J Pharm Sci* 2004; 20: 36-56.
6. Gilles M, Deuschle M, Kellner S, **Shams M**, Krumm B, Härtter S, Heuser I, Hiemke C. Paroxetine serum concentrations in depressed patients and response to treatment. *Pharmacopsychiatr* 2005; 38: 1-4.
7. Hiemke C, Dragicevic A, Kuss H, Rao M, **Shams M**, Müller M. TDM zur Optimierung der antidepressiven Pharmakotherapie. *Die Medizinische Welt*; (2005)7-8: 338-343.
8. **M. E. E. Shams**, B. Arneth MD PhD, C. Hiemke, PhD, A. Dragicevic M. J. Muller* PhD, R. Kaiser§ PhD, K. Lackner PhD and S. Haertter* PhD. CYP2D6 polymorphism and clinical effect of the antidepressant venlafaxine. *Journal of Clinical Pharmacy and Therapeutics* (2006) 31, 493–502.
9. AL-Gayyar M. M. H.*, **Shams M. E. E.** and Awad M. A. E. Pharmaceutical care of patients with hepatocellular carcinoma: Could GAGs be useful as a diagnostic and prognostic tumor marker? *Mans.J Pharm Sci.* 2007, 23, 12-26.
10. **Mohamed E. E. Shams**, Enaase A.M.E. Barakat, Mohammed M. H. Al-Gayyar and Maha R. Habib Impact of Lifestyle and Oxidative Stress on the Management of Patients with Type II Diabetes Mellitus. *Bull. Fac. Pharm.*2008, Cairo Univ.
11. Enaase A.M.E. Barakat ¹, Mohammed M. H. Al-Gayyar ² and **Mohamed E. E. Shams**³. Impact of diabetes and metabolic syndrome on patients with non alcoholic stetohepatitis (NASH). IXth Annual Scientific Conference of Clinical Pathology, Dept of Clinical Pathology, Dept. Faculty of Medicine -University of Mansoura, Egypt.from. 7th -8th May- 2008.
12. Abeer A. EL Fallal, Abou Bakr El Bediwi, Fouad A. El Blasy, **Mohamed E. E. Shams**, and Maggie R Mesbah. Influence of gentamicin sulfate on the structure and properties of glass ionomer bone cement. The 16th Alexandria International Dental Congress, October 28-31, 2008.
13. A.A. EL-Fallal, **M. Shams**, and O.B. Abouelatta. Effect of roughness, porosity and wettability on release of gentamnicin-loaded glass ionomer bone cement. *Egyptian Dental Journal.*2009,55: 625-637.

14. Arneith Borros, **Shams Mohammed**; Hiemke Christoph; Härtter Sebastian. Rapid and reliable genotyping procedure for detection of alleles with mutations, deletion, or/and duplication of the CYP2D6 gene. *Clinical biochemistry* 2009; 42 (12):1282-90.
15. **Mohamed E.E. Shams**. Assessing Stakeholders Satisfaction with an Electronic Prescribing Service in Various Clinical Settings. *Journal of Pharmacy Research* 2010, 3 (5), 1056-1060.
16. **Mohamed E.E. Shams**¹and Enaase A.M.E. Barakat². Measuring the Rate of Therapeutic Adherence among Outpatients with T2DM in Egypt. *Saudi Journal of Pharmaceutical Science* 2010; 18 (4).
17. Abd El-Gawad H. Abd El-Gawad, Osama A. Soliman, **Mohamed E. E. Shams** and Doaa N. Maria. Ocular Bioavailability of Triamcinolone Acetonide Complex from Different Ophthalmic Preparations in Rabbits' Eyes. Submitted to Zagazig *Journal of Pharmaceutical Science* and accepted.
18. Mohammed M. H. Al-Gayyar, Enaase A.M.E. Barakat, **Mohamed E.E. Shams**. Reactive Oxygen Species Mediate Nonalcoholic Fatty Liver Injury Through TNF- α : Relation to Body Weight. *Mansoura Journal of Pharmaceutical Sciences*,2010, 1-6.
19. **Mohammed. E. E. Shams**, Mohammed M. H. Al-Gayyar, Enaase A.M.E. Barakat. Type 2 Diabetes Mellitus-Induced Hyperglycemia in Patients with NAFLD and Normal LFTs: Relationship to Lipid Profile, Oxidative Stress and Pro-Inflammatory Cytokines. *Sci Pharm.* 2011; in press. doi:10.3797/scipharm.1104-21
20. **Mohamed E.E. Shams**. Implementation of An E-prescribing Service: Users' Satisfaction and Recommendations. *Canadian Pharmacists Journal (C P J / R P C)* • J U L Y / A U G U S T 2 0 1 1 • V O L 1 4 4 , N O 4
21. **Mohamed E. E. Shams**, Mohammed M. H. Al-Gayyar,Enaase A. M. E. Barakat, Mohamed A. Ebrahim, Mamdouh M. El-Shishtawy. Circulating Adiponectin: A Potential Prognostic Marker for Hepatocellular Carcinoma. *Chinese-German Journal of Clinical Oncology*. October 2011, Vol. 10, No. 10, P570–P574. DOI 10.1007/s10330-011-0859-7.
22. MMH Al-Gayyar, **MEE Shams**, EAME Barakat. Fish Oil Improves Lipid Metabolism and Ameliorates Inflammation in Patients with Metabolic Syndrome: Impact of Nonalcoholic Fatty Liver Disease. *Pharmaceutical Biology*, 2012, 50 (3), 297-303
23. **MEE Shams**. Innovative Medicines, Technologies and Approaches for Improving Patients' Healthcare. *World Journal of Pharmaceutical Sciences*, 2013, 1 (4), 156-162

24. **Mohamed EE Shams**, Wael M. Gabr, Enaase A. M. E. Barakat. Effect of Fasting during Ramadan on Migraine Sufferers. *Journal of Behavioral and Brain Science*, 2013, 3, 373-378
25. C Hiemke, **M Shams**. Phenotyping and Genotyping of Drug metabolism to Guide Pharmacotherapy in Psychiatry. *Current Drug Delivery*, 2013, 10 (1), 46-53
26. MMH Al-Gayyar, A Al Youssef, IO Sherif, **MEE Shams**, A Abbas. Protective Effects of Arjunolic Acid Against Cardiac Toxicity Induced By Oral Sodium Nitrite: Effects on Cytokine Balance and Apoptosis. *Life Sciences*, 2014, 111 (1), 18-26
27. WM Gabr, **MEE Shams**. Adherence to Medication Among Outpatient Adolescents with Epilepsy. *Saudi Pharmaceutical Journal*, 2015, 23 (1), 33-40
28. G Hefner, S Unterecker, **MEE Shams**, M Wolf, T Falter, E Haen, C Hiemke. Melperone but Not Bisoprolol or Metoprolol is A Clinically Relevant Inhibitor of CYP2D6: Evidence from A Therapeutic Drug Monitoring Survey. *Journal of Neural Transmission*, 2015, 122 (11), 1609-1617
29. G Hefner, **MEE Shams**, S Unterecker, T Falter, C Hiemke. Retrospective Pilot Study for Analysis of Antidepressant Serum Concentrations of Citalopram and Venlafaxine during Inflammation. *Pharmacopsychiatry*, 2015, 25 (06), 215-218
30. G Hefner, **MEE Shams**, S Unterecker, T Falter, C Hiemke. Inflammation and Psychotropic Drugs: The Relationship between C-Reactive Protein and Antipsychotic Drug Levels. *Psychopharmacology*, 2016, 233 (9), 1695-1705
31. AM Hamdan, MM Al-Gayyar, **MEE Shams**, US Alshaman, K Prabakar. Thymoquinone Therapy Remediate Elevated Brain Tissue Inflammatory Mediators Induced by Chronic Administration of Food Preservatives. *Scientific Reports*, 2019, 9 (1), 7026
32. **Arneith, R.; Shams, M.** Metabolomics of Type 1 and Type 2 Diabetes. *Int. J. Mol. Sci.* 2019, 20, 2467.
33. **Mohamed EE Shams**. Pharmacogenetics: Are We Ready For the Era of Personalized Medicine?. *Clin J Dia Care Control* 2019, 2(2): 180024
34. **Mohamed EE Shams**. "Pharmacogenetics in Clinical Practice". *Acta Scientific Pharmaceutical Sciences* 3.7 (2019): 29-30

Congresses and workshops:

1- Shams M., Hiemke C, Härtter S. Column switching and high performance liquid chromatography (HPLC) with fluorescence detection for automated analysis of venlafaxine, mirtazapine and demethylated metabolites in blood serum or plasma. 5th Workshop, Therapeutisches Drug Monitoring von Psychopharmaka (AGNP), 4-5 Juli, 2002, **Magdurg-** Institut für Klinische Pharmakologie, Medizinische Fakultät, Otto-von-Guericke Universität- **Germany**.

2- Shams M., Hiemke C, Härtter S. A rapid high-performance liquid chromatographic assay with fluorescence detection for therapeutic monitoring of the antidepressant mirtazapine, and its N-demethylated metabolite in human serum. 8th International Congress of Therapeutic Drug monitoring and Clinical Toxicology (ICTDMCT 2003), 7-11 September, 2003, Convention Center Basel, **Basel, Switzerland**. *Therapeutic Drug Monitoring* 2003; 25 (4): 2003.

3- Shams M1., Arneth B2, Lackner K2, Hiemke C1, Haertter S1 (Departments of Psychiatry1 and Clinical Chemistry2, University of Mainz, Germany). Correlation between CYP2D6 geno-and phenotypes with clinical outcomes under antidepressant treatment with venlafaxine. Abstracts from the XXIV CIMP Congresses, **Paris, France** June 20-24, 2004. *Int J Neuropsychopharmacol* 2004; 7 (1): S339-S340.

4- Mohamed Shams. (Speaker). Therapeutic drug monitoring (TDM) and genotyping of patients treated with venlafaxine. **XIII The World Congress of Psychiatry - Cairo, Egypt**, 11-15 September 2005.

5- FLDP Project (Faculty and Leadership Department) - First Congress- Children Hospital- Mansoura University, **Mansoura, Egypt**, 19 November 2005.

6- Action Planning Workshop- QAAP- Cairo, Egypt- 14-5-2006.

7- Workshop on new drug update and adverse drug reaction reporting & the history of drug information. The University of Georgia College of Pharmacy in collaboration with Misr International University (MIU) in **Cairo, Egypt**, Monday 13 November, 2006.

8- Professional workshop on optimizing pharmaceutical care & future roles of pharmacists in healthcare. **The University of South Carolina, College of Pharmacy in collaboration with Misr International University (MIU) in Cairo, Egypt**, Monday 12th February, 2007.

9- Conference of Egyptian Academic Reference Standards – QAAP, Mansoura University, **Mansoura, Egypt**, 28-2-2007.

10- Humboldtians in Natural Science and Engineering. The Second Conference of Egyptian Humboldtians. German University in Cairo, **Cairo, Egypt**, 8-9, 2007.

- 11-Mohamed Shams.** (Poster) Personalized medicine using pharmacogenetics as a tool for improving global health. The Oxford Conference on Innovation and Technology Transfer For Global Health. Bridging The Gap in Global Health Innovation-From Needs to Access. **Oxford, United Kingdom**, 9-13 September, 2007.
- 12- Shams M,** Barakat E, El Gayar M. Impact of pharmaceutical care and lifestyle in treatment of patients with type 2 DM. The First Scientific conference of Faculty of Pharmacy, **Cairo University, Cairo, Egypt.** March 29th, 2008.
- 13- Enaase A.M.E. Barakat ¹, Mohammed M. H. Al-Gayyar ² and Mohamed E. E. Shams³.** Impact of diabetes and metabolic syndrome on patients with non alcoholic stetohepatitis (NASH). IXth Annual Scientific Conference of Clinical Pathology, Dept of Clinical Pathology, Dept. Faculty of Medicine -University of Mansoura, **Egypt.**from. 7th -8th May- 2008.
- 14- B. Arneth, M. Shams, C. Hiemke, S. Härtter.** “Conscious drug selection and dosing by genotyping and phenotyping of alleles with mutations, deletion and/or duplication of the CYP2D6 gene”. Ehrlich 2nd World Conference on Magic Bullets, **Nürnberg, Germany**, 2008, 1779.
- 15- Quality management and enhancement in higher education. Oman Quality Network.** 28- 29 October 2008, **Muscat, Sultanate of Oman.**
- 16. Abeer A. EL Fallal, Abou Bakr El Bediwi, Fouad A. El Blasy, Mohamed E. E. Shams,** and Maggie R Mesbah. Influence of gentamicin sulfate on the structure and properties of glass ionomer bone cement. The 16th **Alexandria** International Dental Congress, October 28-31, 2008
- 17. Ossama Abouelatta, Abeer El Fallal, and M. Shams.** Effect of roughness, porosity and wettability on release of gentamicin-loaded glass ionomer bone cement. 9th International conference on production- engineering, design and control (PEDAC), **Alexandria, Egypt** 10-12th February 2009.
- 18. Quality Assurance Portfolio workshop. Oman Quality Network.** 22 -25th February 2009. **Muscat, Sultanate of Oman.**
- 19. Evidence based practice teaching workshop, Continuing Professional Development.** Muscat on 7th -9th November 2009 organized and conducted by the Directorate of Continuing Education, DGET, Ministry of Health, **Muscat, Sultanate of Oman.**
- 20. Learner- Centered Teaching Strategies for Faculty Workshop. Muscat** on 8th – 10th February 2010 organized by the Directorate of Continuing Education, DGET, Ministry of Health, Sultanate of Oman and conducted by Prof. Margery H. Davis & Dr. Madawa Chandratilake, **University of Dundee, United Kingdom.**

Training Programs for Staff Development:

The following workshops and training programs were held at University of Mansoura

1. Credit hours (2006)
2. Effective Presentation Skills (2006)
3. Ethics and professional ethics (2006)
4. Use of technology in teaching (2007)
5. Examination systems and evaluation of students (2010)
6. Strategic planning (2010).
7. Quality standards in the teaching process (2016)
8. Scientific search engines and university ranking methods (2016)
9. Statistical analysis skills (2016)
10. Preparing and designing electronic tests (2016)
11. Application of academic standards for the educational program (2016)
12. Crisis and disaster management (2016)
13. Preparation of the test items and electronic exams (2020)
14. Teaching Excellence in Pharmacy Education (2020)

Certificates of appreciation:

- To participate in the first conference on the development of faculty members and leaders (in fact, and the future) - November 2005 - Mansoura University – Mansoura, Egypt.
- For Academic Excellence – 6 October, Mansoura University - 2006.
- For participation in the preparation of graduates for the work as pharmacists - 2007 - College of Pharmacy - Mansoura University.
- Performance of the supervisor and the outstanding performance of the Oman Assistant Pharmacy Institute - Muscat - 2009-.2010

Research Interests:

My research work focuses mainly on therapeutic drug monitoring of psychoactive and antidepressant drugs; phenotyping and genotyping of drug metabolism to guide pharmacotherapy in psychiatry; detection of gene deletions, mutations or multiplications of metabolizing enzymes; detection of drug interactions; pharmaceutical care of patients suffering from chronic illnesses like hepatocellular carcinoma, non alcoholic steatohepatitis (NASH), and diabetes mellitus; electronic prescribing; measuring the rate of therapeutic adherence to medications, innovative medicines, technologies and approaches for improving patients' healthcare.