



CURRICULUM VITAE

Name : **Mahrous Osman Ahmed**

Place of birth : Assiut

Nationality : Egyptian

Marital status : Married

Profession: Vice Dean of Graduate affairs and Researches .

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Academic Positions

- **1/11/2017, Vice Dean of Graduate affairs and Researches**
- **9/8/2015, On behave Dean of Faculty of Pharmacy**
- **1/11/2011, Vice Dean of Community Services and Environmental Affairs,**

- 5/ 2009, professor, Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
- May 26, 1996, Associate professor, Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
- March 10, 1991: Lecturer, Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
- October 1987- May 1990: Research assistant, Department of Pharmaceutical Technology, Faculty of Sciences, Chiba University, Chiba, Japan.
- June 1986: Assistant Lecturer, Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
- December 1982: Demonstrator, Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

Academic Qualifications

- Professor in Pharmaceutical sciences (Industrial Pharmacy), 2009.
- Associate Professor in Pharmaceutical Sciences (Industrial Pharmacy), May 1996, Assiut University.
- Ph.D., in Pharmaceutical Sciences (Industrial Pharmacy), January 1991, Assiut University, "Interaction of certain benzodiazepines with Cyclodextrins".

- M. Sc., in Pharmaceutical Sciences (Industrial Pharmacy), May 1986, Assiut University, “Pharmaceutical investigation of certain directly compressed benzodiazepines tablets”.
- Post graduate courses, 1984, with general grade very good.
 - 1- Advanced Industrial Pharmacy
 - 2- Technology of pharmaceutical dosage forms
 - 3- Quality control of pharmaceutical dosage forms
 - 4- Mathematics and statistics 5- Physical chemistry
 - 6- Instrumental analysis
- B. Sc., in Pharmaceutical Sciences, June 1982, Assiut University, with general grade “very good with degree of honor”.

Teaching Experience:

Topic: Pharmaceutical Technology and Industrial Pharmacy Courses.

Level: Undergraduate, Assiut University, Applied Sciences University, Misr International University, Nahda University and King Saud University.

Topics: Physical Pharmacy- Advanced Pharmaceutical Biotechnology – Pharmaceutical Preparations and calculations – Approach to Pharmacy – Pharmacy Practice – Principles of Scientific Research – Circles of Scientific Research- Design and formulation of dosage forms- Dispensing of drugs.

Level: Undergraduate, Applied Sciences University, Amman, Jordan, and King Saud University, Riyadh, KSA.

Topics: Advanced Industrial Pharmacy – Tablet Technology – GMP -Solution Technology – Stability of Drugs – Modern drug delivery systems – Cyclodextrins – preparation and characterization of CDs inclusion complexes – Pharmaceutical applications of CDs – Thermal analysis. Advanced physical pharmacy

Level: Graduate, Assiut University and King Saud University, Riyadh, KSA.

Experience of Experimental Techniques:

- Dosage form technology: Preformulation and formulation techniques of various dosage forms.
- Tablet technology, Stability testing.
- Powder technology: Scanning electron microscopy and powder X-ray diffractometry.
- Thermal analysis: DTA, TGA, and DSC.
- Chemical analysis: Various spectrophotometric and chromatographic methods (IR, FT-IR, UV, CD, TLC, HPLC).
- Solubilization by different methods as coplexation, micellization, hydrotrophy and cosolvency.
- Cyclodextrins technology: Preparation and evaluation of cyclodextrin inclusion complexes and their applications in pharmaceutical technology.
- Physicochemical incompatibility testing: Drug-drug and drug-excipient interactions. Nano technology.
- In vitro dissolution studies and techniques of its enhancement including grinding, complexation, crystallization, and solid dispersion.
- Stability of drugs in solution and solid states.
- Sustained and controlled release technology.
- Target drug delivery systems.
- Detection of organic solvents in pharmaceutical preparations to avoid their hazards.

Conferences attended:

- The Egyptian Pharmaceutical Conferences organized by the Egyptian Pharmaceutical Society, Cairo, 1986.
- The Annual Meeting of Cyclodextrins, Chiba, Japan, 1988.
- The 5th Annual Meeting of the Academy of Pharmaceutical Sciences and Technology, Tokyo, Japan, 1989.
- The 2nd Anglo-Egyptian conference of Pharmaceutical Sciences, Alexandria, Egypt 1991.
- The Egyptian Pharmaceutical Conferences organized by the Egyptian Pharmaceutical Society, Cairo, 1991.
- The First National Symposium on Herbal Medicine, Assiut, Egypt 1992.
- The First Egyptian-Italian symposium on Biotechnology, Assiut, Egypt, 1992.
- The Third Conference of Hospital Pharmacy, Assiut, Egypt, 1992.
- The Egyptian Pharmaceutical Conferences organized by the Egyptian Pharmaceutical Society, Cairo, 1993.
- The Egyptian Pharmaceutical Conferences organized by the Egyptian Pharmaceutical Society, Cairo, 1994.
- The Conference of Pharmaceutical Biotechnology, Amman, Jordan 1997.
- The First Scientific Conference for the Arab Colleges of Pharmacy, Irbid, Jordan, 1997.
- The First International Conference on Clinical Pharmacy, Amman, Jordan, 1998.
- The First Conference on Medicinal Herbs, Amman, Jordan, 1998.
- The Middle East Conference on Modern Mixing Techniques (MMT) for Pharmaceutical, Cosmetic and Food Industries, Amman, Jordan 1999.
- The Second International Clinical Pharmacy Conference, Amman, Jordan, 1999.
- The 2nd Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt, 2000.
- The Alexandria second International Conference of Pharmaceutical Sciences & Technology, Alexandria, Egypt, 2000.
- The XXVII Conference of Pharmaceutical Sciences, Cairo, Egypt, 2001.
- Al-Azhar 2nd International Conference for Pharmaceutical & Biological Sciences, December 19-21, Air Defence House, Cairo, Egypt, 2001.
- The 3rd Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt, March 5-6, 2002.
- Al-Azhar 3rd International Conference for Pharmaceutical & Biological Sciences, December 16-18, Air Defence House, Cairo, Egypt, 2003.
- The 4th Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt, March 6-7, 2004.
- The 9th International Pharmaceutical Sciences Conference & Exposition, December 17-21, King Saud university, College of Pharmacy, Riyadh, Saudi Arabia, 2005.
- The 7th Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt, March 17-18, 2010.
- The International conference in Nanotechnology, King Abdullah Institute for Nanotechnology, Saudi Arabia, April 2009.
- Application of Quality in postgraduate studies, Saudi Arabia, May 2009
- The first international conference in biotechnology, Riyadh, KSU, Saudi Arabia, Feb. 2009.

- The International Pharmaceutical conference, Misr University of Sciences and Technology (MUST), May, Cairo, Egypt, 2011.
- FUE International Conference on Pharmaceutical Technologies, Feb. 6-9, Cairo, Egypt, 2012.
- Assiut University 8th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, March, 14-15, 2012.
- The training Workshop on HPLC and GC-MS, Assiut University, Faculty of Pharmacy (PSC), April 7-8, 2012.
- Assiut University 9th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, March, 12-13, 2014.
- Assiut University 10th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, April, 13-14, 2016.
- Assiut University 11th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, April, 10-11, 2018.
- Assiut University 12th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Nov., 3-4, 2020.
- Assiut University 13th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, April, 18-19, 2022..

Theses Supervision:

- 1- Pharmaceutical studies on the interaction of some diuretics with macromolecules; Amal Kamal Hussein, M. Sc. Graduated.
- 2- A study on the formulation and evaluation of meclozine HCl from solid dosage forms; Osama salama abou-Ewada, M. Sc. graduated.
- 3- Formulation and evaluation of certain pharmaceutical dosage forms containing antiplatelets aggregation drug; Dipyridamole, Amany Abdel-Kader Abdel-Rheem, M. Sc. graduated.
- 4- Formulation and evaluation of ketoconazole containing vaginal pessaries; Jelan Abdel-Razek Abdel- Aleem, M. Sc. graduated.
- 5- Preparation and evaluation of certain pharmaceutical dosage forms containing antihistaminic; Mohammed Ehab Ali Hassan, M. Sc. graduated .
- 6- Formulation and evaluation of lornoxicam gels as transdermal drug delivery system; Fahad Mesfer ALQahtani, M. Sc. graduated. King Saud University.
- 7- Self-Emulsifying drug delivery system, Eman Ismaiel, graduated.
- 8- Mahmoud Abu-Bakr Ahmed, (M.Sc.) graduated.
- 9- Neveen G. El-Gendy (Ph.D.), graduated
- 10- Amany Abdel-Kader Abdel-Rheem, Ph.D. graduated
- 11- Mohammed Hassan Fayed , (Ph.D.) graduated.
- 12- Alaa Sayed Mohammed, (M.Sc.) graduated.
- 13- Ahmed Sayed Boudy, (M.Sc.) graduated
- 14- Esraa Sayed Hassan Sayed, (M.Sc.) graduated
- 15- Naira Khalifa Mohammed, (M.Sc.) graduated.
- 16- Esraa Mahmoud Mohamed, (M.Sc.) graduated.
- 17- Hala Mohammed Abdel-Rahman (M.Sc) graduated
- 18- Walaa Aymen (M. Sc.) graduated.
- 19- Nehal Thabet (M. Sc.) graduated.
- 20- Heba Abd-Elmgeed Mohammed (M.Sc.)
- 21- Eman Ismaiel, (ph.D) under supervision.
- 22- Ahmed Sayed Boudy, (ph. D) under supervision.

Memberships and other activities

- Member of the Egyptian Pharmaceutical Society.
- Member of the Egyptian Pharmacists Syndicate.
- Member of Assiut University Staff Members Club.
- Member of Assiut University Club.
- Member of Industrial Pharmacy Dept. Council.
- Member of Faculty of Pharmacy Council.
- Chairman of Scientific Laboratories and Equipments Committee.
- Chairman of Community Services and Environmental Affairs Committee.
- Member of Council of Community Services and Environmental Affairs.
- Member of Assiut University Council
- Chairman of graduate affairs and researches Committee
- Member of Council of graduates affairs and researches.
- Expert in National Authority of Quality Assurance and Accreditation of Education (NAQAEE)
- Expert in project Management Unit, Ministry of Higher Education, Egypt.

List of Publications

- 1- A. E. Aboutaleb, A. A. Abdel-Rahman, S. I. Saleh and **M. O. Ahmed**; Factors affecting the release of diazepam from directly compressed tablets: Interaction of diazepam with certain directly compressible vehicles, S. T. P. Pharma, 2 (12), 23 (1986).
- 2- A. E. Aboutaleb, A. A. Abdel-Rahman, S. I. Saleh and **M. O. Ahmed**; Preparation and evaluation of medazepam hydrochloride tablets, Bull. Phar. Sci. Assiut University, 8 (2), 104 (1985).
- 3- A. E. Aboutaleb, A. A. Abdel-Rahman, S. I. Saleh and **M. O. Ahmed**; Stability of directly compressed medazepam hydrochloride tablets, presented at the 19th Egyptian Pharmaceutical conference, Cairo (1986).
- 4- A. E. Aboutaleb, A. A. Abdel-Rahman, and **M. O. Ahmed**; Preformulation of directly compressed temazepam tablets, Bull. Pharm. Sci. Assiut University, 9 (2), 172 (1986).
- 5- Y. Nakai, A. E. Aboutaleb, K. Yamamoto, S. I. Saleh and **M. O. Ahmed**; Study of the interaction of clobazam with cyclodextrins in solution and in solid state, Chem. Pharm. Bull., 38 (3), 728, (1990).
- 6- **M. O. Ahmed**, Y. Nakai, A. E. Aboutaleb, K. Yamamoto, A. A. Abdel-Rahman, and S. I. Saleh, Complex formation of nitrazepam in co-precipitation and co-grinding with methylated β -cyclodextrin, Chem. Pharm. Bull., 38 (12), 3423 (1990).
- 7- A. A. Abdel-Rahman, S. I. Saleh, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; Inclusion complexation between trimethyl β -cyclodextrin and clobazam or flunitrazepam during sealed heating, Eur. J. Pharm. Biopharm., 39 (2), 82 (1993).
- 8- S. I. Saleh, A. A. Abdel-Rahman, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; The mode of inclusion complexation of bromazepam with dimethyl β -cyclodextrin, Bull. Pharm. Sci. Assiut University, 16 (1), 47 (1993).
- 9- A. A. Abdel-Rahman, S. I. Saleh, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; Molecular behavior and dissolution characteristics of flunitrazepam in ground mixtures with cyclodextrins, Eur. J. Pharm. Biopharm., 39 (5), 212 (1993).

- 10- S. I. Saleh, A. A. Abdel-Rahman, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; Effect of dimethyl β -cyclodextrin on nitrazepam stability, *J. Pharm. Belg.*, 48 (5), 383 (1993).
- 11- S. I. Saleh, A. A. Abdel-Rahman, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; Inclusion complexes of dimethyl β -cyclodextrin with certain organic solvents, *J. Pharm. Belg.*, 49 (1), 12 (1994).
- 12- A. A. Abdel-Rahman, S. I. Saleh, Y. Nakai, A. E. Aboutaleb and **M. O. Ahmed**; Investigation of the interaction of bromazepam with cyclodextrins in solution and in ground mixtures, *J. Pharm. Belg.*, 49 (1), 23 (1994).
- 13- **M. O. Ahmed**, The combined inclusion complexation of acetone and flunitrazepam into dimethyl β -cyclodextrin, *Bull. Phar., Sci. Assiut University*, 16 (2), 169 (1993).
- 14- S. M. Ahmed, A. A. Abdel-Rahman, S. I. Saleh, and **M. O. Ahmed**; Comparative dissolution characteristics of bropirimine β -cyclodextrin inclusion complex and its solid dispersion with PEG 6000, *Int. J. Pharm.*, 96, 5, (1993).
- 15- S. I. Saleh, A. A. Abdel-Rahman, **M. O. Ahmed** and A. M. Taha; Preparation and evaluation of metformine hydrochloride suppositories, *S.T.P. Pharma Sciences*, 4 (2), 163 (1994).
- 16- S. I. Saleh, S. M. Ahmed and **M. O. Ahmed**; Temazepam β -cyclodextrin and temazepam-microcrystalline cellulose ground mixtures formulated into tablets, capsules and suppositories, *Bull. Pharm. Sci. Assiut University*, 17 (1), 57, (1994).
- 17- S. M. Safwat, A. S. Ali, **M. O. Ahmed** and I. A. Sabour, Effects of porous silica as drug carrier on the formulation of effervescent nystatin vaginal tablets, *Bull. Pharm. Sci. Assiut University*, 17(2), 139 (1994).
- 18- I. El-gibaly, S. M. Safwat and **M. O. Ahmed**, Microencapsulation of ketoprofen using water/ oil/ water complex emulsion technique, *Bull. Pharm. Sci. Assiut University*, 17 (2), 147 (1994).
- 19- A. E. Aboutaleb, S. I. Abdel-Rahman, S. M. Ahmed, **M. O. Ahmed** and A. K. Hussein, Improvement of solubility and dissolution of acetazolamide by inclusion complexation with different cyclodextrins, presented at the 25th Egyptian Pharmaceutical conference, Cairo, 1996.
- 20- **M. O. Ahmed**, "Comparison of impact of the different hydrophilic carrier on the properties of piperazine-containing drug", *Europ. Pharm. Biopharm.*, 51, 221-226, (2001).
- 21- **M. O. Ahmed, and N. H. Agha**, "Preparation and characterization of a new solution has a potential antimycotic activity", *Proceeding of 2nd Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut 8-9 March*, 53-63, (2000).
- 22- **M. O. Ahmed**, I. El-Gibaly and S. M. Ahmed, "Effect of cyclodextrins on the physicochemical properties and antimycotic activity of clotrimazole", *Int. J. Pharm.*, 171, 111-121, (1998).
- 23- I. El-Gibaly, M. Fathy, **M. O. Ahmed** and S. M. Ahmed, "Quinidine-cyclodextrins inclusion complexes", *Bull. Pharm. Sci. Assiut Univ.*, 22 (1), 55-66, (1999).
- 24- **M. O. Ahmed** and A. M. Aly, "Preparation and Evaluation of Sustained Release Carbamazepine Matrix Tablets Using Eudragit RS 100 and Tragacanth", *Bull. Pharm. Sci. Assiut Univ.*, 24 (1), 73- 82, (2001).

- 25- **M. O. Ahmed**, E. M. Samy and S. I. Abdel-Rahman, "Preparation and evaluation of sustained release systems of thiamine hydrochloride", *J. J. of Appl. Sci. "Natural Sciences"*, 1 (1), 108-122 (1999).
- 26- **M. O. Ahmed**, "Interaction of Ibuprofen with Certain Drugs", Presented at the Alexandria second International Conference of Pharmaceutical Sciences & Technology, Alexandria, October 25-27, (2000).
- 27- **M. O. Ahmed**, and A. M. Aly, "The Phase Behaviour of Ionic and Nonionic Surfactants in the Presence of Different Water-Soluble additives", Presented at the Alexandria second International Conference of Pharmaceutical Sciences & Technology, Alexandria, October 25-27, (2000).
- 28- **M. O. Ahmed**, S. I. Saleh, S. M. Ahmed and S. I. Abdel-Rahman, "Complexation of Hydrochlorothiazide and Bendrofluazide with β -Cyclodextrin in Solution and in Ground Mixtures", *Saudi Pharmaceutical Journal*, 4, 23-28, (1996).
- 29- A. E. Aboutaleb, S. I. Abdel-Rahman, S. M. Ahmed, **M. O. Ahmed** and A. K. Husien, "Ultrasonication as a Novel Method for Preparation of Inclusion Complexes of Acetazolamide and Hydrochlorothiazide with Cyclodextrins", Presented at the XXVII Conference of Pharmaceutical Sciences, January 2-4, Cairo (2001).
- 30- **M. O. Ahmed**, "Study of effect of various binders and disintegrants on the physical properties and dissolution behavior of the directly compressed theophylline tablets", Presented at Middle East Conference on Modern Mixing Techniques (MMT) for Pharmaceutical, Cosmetic and Food Industries, June 22-24, Amman University, Amman, Jordan, 1999.
- 31- A. E. Aboutaleb, S. I. Abdel-Rahman, S. M. Ahmed, **M. O. Ahmed** and A. K. Hussien, "Pharmacological Activity of Acetazolamide Inclusion Complexes with Cyclodextrins", Presented at the XXVII Conference of Pharmaceutical Sciences, January 2-4, Cairo (2001).
- 32- **M. O. Ahmed**, "Dissolution study of ibuprofen loaded onto various tablet excipients", Presented at Assiut University 3rd Pharmaceutical Sciences Conference, Assiut, Egypt, March 5-6, 2002.
- 33- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and U. S. Abu Uwaida, "Enhancement of dissolution rate of meclozine HCl by co-grinding and loading onto certain adsorbents", *Bull. Pharm. Sci. Assiut University*, 25 (1), 7-14, 2002.
- 34- N. M. Aldouri, **M. O. Ahmed** and S. K. El-Jamal, "Study of effect of various disintegrants on the physical properties and dissolution behavior of the directly compressed theophylline tablets", *Bull. Pharm. Sci. Assiut University*, 25 (1), 23-30, 2002.
- 35- M. I. Abd-Elrahman, **M. O. Ahmed**, S. M. Ahmed, T. Aboul-Fadl, and A. El-Shorbaji "Kinetics of solid state stability of glycine derivatives as a model for peptides using differential scanning calorimetry", *Biophysical Chemistry*, 97, 113-120, 2002.
- 36- T. Aboul-Fadl and **M. O. Ahmed**, "Tetrahydro-2H-1,3,5-thiadiazin-2-thione derivatives of the optical isomers of phenylalanine, synthesis, comparative stability study and antifungal activity", *Sci. Pharm.* 70, 359-378, 2002.
- 37- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and J. A. Abdel-Aleem, "Effect of certain macromolecules on the solubility and dissolution of ketoconazole" Presented at Al-Azhar 3rd International Conference for Pharmaceutical & Biological Sciences December 16-18, Air Defense House, Cairo, Egypt 2003.

- 38- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and J. A. Abdel- Aleem, "Cyclodextrins inclusion complexes of ketoconazole in solution and in solid state" Presented at Al-Azhar 3rd International Conference for Pharmaceutical & Biological Sciences December 16-18, Air Defense House, Cairo, Egypt 2003.
- 39- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and U. S. Abu-Uwaida, "Formulation and evaluation of certain meclozine HCl suppositories" Presented at Al-Azhar 3rd International Conference for Pharmaceutical & Biological Sciences December 16-18, Air Defense House, Cairo, Egypt 2003.
- 40- A. M. Aly, M. K. Qato and **M. O. Ahmed**, Pharm. Tech., 27(6), 54-62, 2003.
- 41- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and A. A. Abdel-Rheem, "Modification of the release of dipyridamole from certain polymeric systems", Bull. Pharm. Sci. Assiut University, 27 (1), 19-24, 2004.
- 42- A. E. Aboutaleb, A. A. Abdel-Rahman, **M. O. Ahmed** and J. A. Abbdel-Aleem, "Formulation and Evaluation of Ketoconazole into new vaginal suppositories" Presented at 29th International Conference of Pharmaceutical Sciences, December 21-23, Air Defense House, Cairo, Egypt 2004.
- 43- A. A. Abdel-Rahman, E.M. Samy, **M. O. Ahmed**, and M.A. Hassan, "Effect of pH and temperature on micellar solubilization behavior of loratadine" Presented at the 9th International Pharmaceutical Sciences Conference & Exposition, December 17-21, King Saud university, College of Pharmacy, Riyadh, Saudi Arabia, 2005.
- 44- A.M. Al-Mohizea, **M. O. Ahmed**, F.I.Al-Jenoobi, G.M. Mahrous, and A.A Abdel-Rahman, "Formulation and evaluation of dried yeast tablets using different techniques", E. J. Pharm. Biopharm., 67, 253-259, 2007.
- 45- F.K. Alanazi, M. El-Badry, **M. O. Ahmed** and I.A. Alsarra, "Improvement of albendazole dissolution by preparing microparticles using spray drying technique" Scienta Pharmaceutica, 75, 63-79, 2007.
- 46- I.A. Alsarra, **M. O. Ahmed**, M. El-Badry, F.K. Alanazi, A.M. Al-Mohizea and S.M. Ahmed, "Effect of β -cyclodextrin derivatives on the kinetics of degradation of cefotaxime sodium in solution state", J. drug Del. Sci. Tech., Paris, 22.6.2007.
- 47- S.A. Al-Suwayeh, **M. O. Ahmed**, G.M. Mahrous, E.I. Taha, Preparation and in vitro evaluation of tablets containing triple drug combination used for prevention/treatment of cardiovascular diseases, AJBAS, 2009.
- 48- **Mahrous O. Ahmed**, Saleh A. Al-Suwayeh, Fahd M. Al-Qahtani, Preparation and evaluation of lornoxicam gel form as a new transdermal drug delivery system, presented at Assiut University 7th Pharmaceutical Sciences Conference, Assiut, Egypt, March 17-18, 2010.
- 49- S. A. Al-Suwayeh, **M. O. Ahmad**, E.I. Taha and F. M. AL-Qahtani, *ex-vivo* Studies on the effect of formulation and penetration enhancers on the transdermal diffusion of lornoxicam through rabbit skin, Presented as a poster at the 12th -Motte, **France, April 2010.**
- 50- **Mahrous O. Ahmed** and Abdullah A. Al-Badr, Lornoxicam. In Harry G. Brittain, editor: Profiles of Drug Substances, Excipients and Related Methodology, Vol. 36, Burlington: Academic Press, 2011, pp. 205-239.
- 51 – **Mahrous O. Ahmed**, et al, "Comparative study of nano-cavity size of cyclodextrin and micelle of surfactants on the solubility of isoxsuprine HCl" presented in FUE International Conference on Pharmaceutical Technologies, Feb,6-9, 2012, Future University of Egypt.

- 52- Gamal A-W Ahmed and **Mahrous O. Ahmed**, Kinetics and mechanism of formation and decomposition of intermediate complex during the oxidation of β -cyclodextrin by alkaline permanganate, International conference of chemistry, Aswan, Egypt, 2012.
- 53- Mostafa I. Abd-Elrahman, **Mahrous O. Ahmed**, Jehan A. Abdel-Aleem, Optical properties of cellulose derivatives blend film carrying a chalcogenide material, Materials Science in Semiconductor Processing, 16, 1052-1056, 2013.
- 54- Al-Suwayeh SA, Taha EI, Al-Qahtani FM, **Ahmed MO**, Badran MM, Evaluation of skin permeation and analgesic activity effects of carbopol lornoxicam topical gels containing penetration enhancer. Scientific World Journal, 2014,
- 55- Aboutaleb AE, Abdel-Rahman SI, **Ahmed MO**, Younis MA. Enhancement of domperidone dissolution rate via formulation of adsorbates and co-adsorbates. Int J Pharm Sci Res 2016; 7: 951-60.
- 56- Ahmed E. Aboutaleb, Sayed I. Abdel-rahman, **Mahrous O. Ahmed**, Mahmoud A. Younis, DESIGN AND EVALUATION OF DOMPERIDONE SUBLINGUAL TABLETS, J. Pharmacy and Pharmaceutical Sciences, 8 (6) 2016.
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- 57- Ahmed E. Aboutaleb, Sayed I. Abdel-rahman, **Mahrous O. Ahmed**, Mahmoud A. Younis, Improvement of domperidone solubility and dissolution rate by dispersion in various hydrophilic carriers. J. Appl. Pharm. Sci., 6(7), 133-139, 2016.
- 58- Sayed M. Ahmed, Eman M. Samy, **Mahrous O. Ahmed**, Niveen G. El-gendy. Formulation and *In-vitro* Evaluation of Celecoxib Buccoadhesive Tablets. *J Am Sci* 2016; 12(8):69-77.
- 59- Ahmed E. Aboutaleb, Sayed I. Abdel-rahman, **Mahrous O. Ahmed**, Mahmoud A. Younis, Formulation of domperidone in gastro-retentive floating tablets, J. of innovations in Pharmaceuticals and Biological Sciences, (JIPBS) 2, 81-93, 2016.
- 60- M. H.Fayed, S. I. Abdel-Rahman, F. K. Alanzi, **Mahrous O. Ahmed**, H.M. Tawfeek and R. I. Al-Shedfat, HIGH-SHEAR GRANULATION PROCESS: INFLUENCE OF PROCESSING PARAMETERS ON CRITICAL QUALITY ATTRIBUTES OF ACETAMINOPHEN GRANULES AND TABLETS USING DESIGN OF EXPERIMENT APPROACH, Acta Poloniae Pharmaceutica - Drug Research, Vol. 74 No. 1 pp. 235-248, 2017.
- 61- M. H.Fayed, S. I. Abdel-Rahman, F. K. Alanzi, **Mahrous O. Ahmed**, H.M. Tawfeek and B.E.Ali, HIGH SHEAR GRANULATION PROCESS: ASSESSING IMPACT OF FORMULATION VARIABLES ON GRANULES AND TABLETS CHARACTERISTICS OF HIGH DRUG LOADING FORMULATION USING DESIGN OF EXPERIMENT METHODOLOGY Acta Poloniae Pharmaceutica - Drug Research, Vol. 74 No.2 pp. 551-564, 2017.
- 62- S. I. Abdelrahman, S. M. Ahmed, **Mahrous O. Ahmed**, E. I. Abdelaziz. Adopting self-micro and self-nanoemulsifying drug delivery systems (SMEDDSs and SNEDDSs) as a mean to improve solubility of meloxicam drug. Presented in the first International Pharmaceutical conference of Menoufia University, at 11-12 August 2018.
- 63- Mohamed H. Fayed, Sayed I. Abdel-Rahman, Fars K. Alanazi, **Mahrous O. Ahmed**, Hesham M. Tawfeek & Ramadan I. Al-Shdefat, New gentle-wing high-shear granulator: impact of processing variables on granules and tablets characteristics of high-drug loading formulation using design of experiment approach, Drug Development and Industrial Pharmacy, 43,10,1584-1600, 2017
- 64- Mohamed H. Fayed, Sayed I. Abdel-Rahman, Fars K. Alanazi, **Mahrous O. Ahmed**, Hesham M. Tawfeek & Ramadan I. Al-Shdefat, An investigation into the

impact of key process variables on the uniformity of powder blends containing a low-dose drug in a gentle-wing high shear mixer, *Journal of Drug Delivery Science and Technology*, 28 August, 2020.