



Curriculum Vitae

Mahmoud Mohamed Ahmed Elsayed

Professor of Pharmaceutics and Clinical Pharmacy



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Administrative Positions

- **Former Dean of faculty of Pharmacy- Sohag University**
- **Former Vice Dean of Faculty of Pharmacy** for Education and Student Affairs, Sohag University.
- **Chairman**, Department Pharmaceutics and Clinical Pharmacy.

- Director of Sohag University Center for Career Development.
- Scientific Consultant of Diamond Pharmacies Chain
- Former Member of Pharmaceutical Studies Committee in Higher Supreme Universities, Egypt.
- Advanced International Trainer in Quality Assurance Center, Sohag University.
- Advanced International Trainer in Faculty and Leadership Development Center, Sohag University
- **Former Vice President**, Quality Assurance Unit and Rehabilitation Accreditation- College of Pharmacy - Al-Azhar University.
- **Former President**, the Scientific Society of Pharmacy College of Pharmacy - Al-

Scientific and Academic Experience

- Chief Editor of Journal of Modern Pharmacology and Pathology
- Advisory Board Member of MC Pharmaceutical sciences.
- Editorial Board Member of International Journal of Pharmaceutical Sciences and Drug Analysis
- Reviewer at AAPS Pharmasci Tech Journal
- Reviewer at Bulletin Journal of Pharmaceutical Science

Previous Employment

- **Assistant Professor** in Department of Pharmaceutics and clinical pharmacy- Al-Azhar University from June 2014 till December 2014.
- **Lecturer** in the same Department from June 2009 till June 2014.
- **Assistant Lecturer** in the same Department from september, 2006 till June, 2009.
- **Teaching Assistant**, Department of Pharmaceutics and clinical pharmacy- Al-Azhar University from May, 2002 till September, 2006.

- **Seconded Teacher**, Faculty of Pharmacy, Nahda University - Beni Suef from June 2010 to 2017.

- **Seconded Teacher**, Faculty of Pharmacy, ERU – Badr City, Cairo from February 2010 to 2016.

Academic Qualification

1. **B.Sc.** In Pharmaceutical Science (excellent with degree of honor) in May 2001, from Al Azhar University, Assiut.
2. **M. Sc.** In Pharmaceutics, in September, 2006, from Al Azhar University, Cairo.

Title of M.Sc. Thesis :

The Controlled Release of Some Non–Steroidal Anti–Inflammatory Drugs From Microspheres

3. **Ph.D.** In Pharmaceutics, in April, 2009, from Al Azhar University, Cairo.

Title of Ph.D. Thesis:

Pharmaceutical Studies on the Availability of Drug Loaded Sustained Release Formulations

Experience in Training

- 1- **Advanced International Trainer**- Boston University-USA.
- 2- **Advanced International Trainer**- Cambridge University- UK.
- 3- **Advanced International Trainer**- International Federation of Training-IFT- intft.us
- 4- **Training Evaluator**- International Federation of Training- IFT-intft.us.
- 5- **Training Consultant** - International Federation of Training- IFT-intft.us.
- 6- **Advanced International Trainer**- International Academy of Training and Development.
- 7- **Training Evaluator**- International Academy of Training and Development.

- 8- **Training Consultant** -International Academy of Training and Development.
- 9- **Advanced trainer** - Faculty Leadership and Training Centre- Sohag University.
- 10- **Advanced Trainer** in Teaching Career Academy- TCA- Egypt.
- 11- Expert in human development and human resources.

- **Get all the training courses to work as references Outdoor Certified National Authority to ensure the quality of education and accreditation, namely: -**

- 1 – Training program of institutional self-evaluation for higher education institutions - March / 2010
- 2 – Training program of external review for higher education institutions - March / 2010
- 3 - Training program of learning outcomes and curriculum maps for higher education institutions - March / 2010
- 4 – Training program of strategic planning for higher education institutions - June / 2010
- 5 - Applied session to prepare a self-study and accreditation files for higher education institutions - May / 2011.

Training Courses

- 1- Training program “Training Of Trainer” for 60 hours in information technology center, Sohag University.
- 2- Training program “Training of Trainer” for 40 hours in Teacher Employment Academy.
- 3 – Training program of “Research Ethics” - Faculty and Leadership Development Center Assiut University
- 4 - Training program of “Exam’s systems and Student Assessment” - Faculty and Leadership Development Center - Assiut University
- 5 - Training program of “Motivation” - Faculty and Leadership Development Center - Assiut University
- 6 - Training program of “Management of the Research Team” - Faculty and Leadership

Development Center - Assiut University

7 - Training program of “Decision Making” - Faculty and Leadership Development Center - Assiut University

8 - Training program of “Crisis Management”- Faculty and Leadership Development Center - Assiut University

9 - Training program of “Leadership and Governance” - Faculty and Leadership Development Center - Assiut University

10 - Training program of the “Planning” - Faculty and Leadership Development Center - Assiut University

11- Training program of “Quality Standards in the Educational Process” - Faculty and Leadership Development Center - Assiut University.

12 - Training program of “Control, Monitoring and Performance Evaluation - Faculty and Leadership Development Center - Assiut University

13 - Training program of the “Art of Crisis Management” – Faculty and Leadership Development Center - Assiut University.

Activities

A - Activities in Education Development:

Learning activities within the college education:

1. Preparation of Pharm-D Bylaws for Pharmacy, Faculty of Pharmacy, University of Pharmacy, University of Sohag University,
2. Description Courses Department of Pharmaceuticals and clinical pharmacy in a pharmacy degree.
3. Participation in the development of the strategic plan and the development plan of Sohag University. Director alone Strategic Planning, Faculty of Pharmacy - Sohag University
4. Participation in the development of the MIS program for student affairs and examination systems and results

5. Participation in the development of your quality standards at the Pharmacy College - Sohag University
6. Participation in the status of the publication of the Graduate Studies at the Faculty of Pharmacy - Sohag University of Certified Watches.
7. Participate in the status of study tables and exams

(B) Awards and membership of committees and councils:

1. Get the Shield of Sohag University and honor to contribute to assisting the administrative structure at the university and obtaining the ISO 9001: 2015
2. Get the shield of the Faculty of Pharmacy at the first graduate ceremony of the effective role in participating in the college leadership
3. Chief Editor of Journal of Modern Pharmacology and Pathology
4. Advisory Board Member of MC Pharmaceutical sciences.
5. Editorial Board Member of International Journal of Pharmaceutical Sciences and Drug Analysis
4. Member of the Council of Sohag University from 12/10/2016 until 19/9/2019
5. Member of the Board of Directors of the University of Sohag University from 2/6/2018 and up till now.
6. Member of the Board of Directors of the new programs at Sohag University from 6/8/2019 and up till now.
7. Member of the Pharmaceutical Studies Sector Committee of the Supreme Council of Universities 12/10/2016 until 19/9/2019
8. Member of the Board of Directors of Quality Assurance Center and assurance dependence at Sohag University from 10/6/2018 and up till now.
9. Member of the Supreme Studies and Research at the University 12/10/2016 until 19/9/2019
10. Member of the Council of Environmental Affairs and Community Service at the University from 12/10/2016 until 19/9/2019

11. Member of the Board of Directors of the Quality Assurance Unit (Director alone Guarantee Quality and Deputy Chairman).
12. Member of the strategic planning unit (unity manager).
13. Member of the Board of Directors of the General Service Center (Director of the Center).
14. Director of the Central Laboratory at the Faculty of Pharmacy - University of Sohag
15. Members of the National Strategy for Combating Corruption at the University.
16. Participation in the work of the bits, examination and inventory in the Department and College at the Faculty of Pharmacy - Sohag University - Sohag
17. Member of the Social Takaful Fund

Students and community activities:

- The honor and get the shield of Sohag Province to participate in training and development of health awareness in the province 2017.
- Preparation of the Financial and Administrative Regulations of the Center for Continuing Pharmaceutical Education at the Faculty of Pharmacy Sohag University and obtaining the decisions of the assignments to approve its establishment in 2017.
- The honor of the University of Nursing Sohag University to participate effectively in the events of the sports and educational festival of the College
- Preparation and participation in the work of many medical convoys on the university to the villages of the province.
- Preparation and participation in a number of entrepreneurship courses at the Pharmacy Faculty of participating with Enroot Foundation for the Rehabilitation of Students and Graduates of the Labor Market
- Pioneer of the Egyptian Federation for Students of the Faculty of Pharmacy at Sohag University EPSF

- The Egyptian Union for the students of the Faculty of Pharmacy at Sohag University EPSF has received the best armor at 43th University 2019
- Pioneer Family (Fingerprint) FingerPrint
- Do a number of visits to the hospital 57357 and the Oncology Institute in Sohag with college students on

Conferences and Academic Activities

- 1- Participation in the second conference on quality assurance at the university with a working paper entitled "University Education, Professional Development and Added Value in the Field of Entrepreneurship: Merger and Partnership Strategies" March 2022
- 2- Participation in the Young Researchers Conference at Sohag University with a research titled "Improving the Solubility of Etodolac Drug Using Solid Dispersion Technology: Integrated Design and Drug Release Study" March 2022.
- 3- Participation in the virtual international conference of university centers for professional development in Egyptian and American universities and program exchange, which was organized by the International Labor Organization, November 28-December 3, 2021.
- 4- Participation in the Fourth International Conference on Applied Chemistry "ICAC-1) at the Faculty of Science, Sohag University, "Improving the solubility of etodolac drug using solid dispersion technology: integrated design and drug release study" 3-6 April 2021
- 5- Participation in the "International Conference on Nutraceuticals" with a working paper entitled "Using activated carbon extracted from orange peels as a target delivery system for oncology drugs" Doma-Italy 2-3 March 20206-

- 6- Participation in the activities of the first forum for training on the description of programs and courses in the light of the entrance to the competencies / competencies for the sectors of pharmacy, medicine and engineering in the National Authority for Quality Assurance and Qualification for Accreditation. January 2022
- 7- Participation in the Twelfth International Conference on Pharmaceutical Sciences at the Faculty of Pharmacy, Assiut University, with a working paper on “Nanometric Carbon Molecules as Drug Release Systems for Drugs, Cancer Treatment and Others” November 2020
- 8- Participation in the Twelfth International Conference on Pharmaceutical Sciences at the Faculty of Pharmacy, Assiut University, with a working paper on “Nanometric Carbon Molecules as Drug Release Systems for Drugs, Cancer Treatment and Others” November 2020
- 9- Participation in organizing and hosting the Scientific Conference, A Step on the Road for the Egyptian Pharmaceutical Federation in 2019, 2017 and 2016 at the Faculty of Pharmacy, Sohag University.
- 10 Attending and participating in a research entitled “Academic Accreditation in the Light of Teaching and Learning Based on Competences” at the First International Conference of the Quality Assurance Center at Sohag University “Arab Universities in the Light of Knowledge Economy, Entrepreneurship and Quality Assurance” which was held in Hurghada - Egypt in April 2019.
- 11 Participation in the First International Conference on Applied Chemistry “ICAC-1) at the Faculty of Science, Sohag University, March 14-17, 2018
- 12 Attending the Fourth International Conference "Medical Emergencies" held at the Faculty of Medicine - Assiut University, March - 2015 AD

- 13 Attendance and participation in two papers at the Second International Conference on New Horizons in Basic and Applied Sciences held in Hurghada - Egypt in August 2015 AD.
- 14 The second research is entitled "Design and improvement of tolmetine sodium microspheres by the reverse reaction method prepared by the method of emulsification and internal gel."
- 15 Attending and participating in a research paper at the First International Conference on Applied Chemistry held in Hurghada - Egypt in March 2016.
- 16 Attending and participating in the tenth Assiut University Conference for Pharmaceutical Sciences held in Assiut - Egypt in April 2016.
- 17 Attendance and participation in the activities of the fourth scientific conference for young researchers at Sohag University, April - 2018
- 18 Attendance and participation in the activities of the Global Forum "Universities and the Pharmaceutical Industry - Challenges and Frameworks for Cooperation", which was held at Al-Azhar University in Cairo, September - 2018.
- 19 Attending and participating as a chairperson in the annual conference of the Faculty of Medicine, Sohag University, under the title "New Horizons for Cancer Treatment," November 2018.
- 20 19- Honoring and obtaining a certificate of appreciation from Prof. Dr. President of Sohag University for supervising the research team that won second place in the seventh student research conference at the Faculty of Pharmacy - Mansoura University, April 2018

- 21- Honoring and obtaining a certificate of appreciation from Prof. Dr. President of Sohag University for supervising the research team that won the second place in the eighth student research conference at the Faculty of Pharmacy - Mansoura University, April 2019
- 22- Attending and obtaining a certificate of appreciation in the "Leaders' Forum and Quality Assurance" for the distinguished role in supporting the quality system at the university, October-2019
- 23- Poster titled " Formulation, Characterization and In Vitro Release Study of Diclofenac Sodium Microcapsles" presented in Al Azhar 2nd International Conference for Pharmaceutical and Biological Pharmaceutical Science , Faculty of Pharmacy, Cairo, Egypt, December 19-21, 2003.
- 24- Poster titled "Formulation and Physicochemical Characterization of Piroxicam Containing Polymer Films". Presented in the first Tanta conference of pharmaceutical science. November 2009, Tanta University, Tanta, Egypt.
- 25-Poster titled "Emulsification/ Internal Gelation as a Method for Preparation of Diclofenac Sodium- Calcium Alginate Microparticles". Presented in the seventh Assiut University International pharmaceutical sciences conference. March 2009, Tanta University, Tanta, Egypt.
- 26-Poster titled preparation and evaluation of diclofenac sodium - cellulose acetate microcapsules using solvent evaporation technique. Presented in the seventh Assiut University International Pharmaceutical Science Conference, Assiut, Egypt, 17-18, March 2010.
- 27-Poster titled formulation and physicochemical characterization of piroxicam containing polymer films. Presented in the seventh Assiut University International Pharmaceutical Science Conference, Assiut, Egypt, 17-18, March 2010.

28- Poster titled effect of different formulation variables on release characteristics of ethyl cellulose microspheres prepared by emulsification solvent evaporation technique. Presented in the 9th Assuit University International Pharmaceutical Science Conference, Assuit, Egypt, 12-13, March 2014.

29-Supervision of the Cultural Committee of the Federation of students of the Faculty of Pharmacy years 2009-2010.

30- Supervision of the Sports Committee by students of the Faculty of Pharmacy union years 2011-2012

9 - Overseeing the development cycles gentlemen new teaching assistants department through seminars and training courses.

10- First year control member in the academic years 2007/2008

11 - Third year member control in the academic years 2008/2009 - 2009/2010 -2010 / 2011.

12 – Fourth year control member 2011/2012-2012/2013 years, the

13 – Supervision of the journey for students Bachelor of Pharmacy (in the Egyptian pharmaceutical companies) in the academic years 2008 - 2009 , 2009-2010 and 2011-2012.

Professional and / or Experience

- Participation in teaching theoretical pharmaceutics courses for first year students Al Azhar University.
- Participation in teaching theoretical pharmaceutics courses for second year students Al Azhar University.
- Participation in teaching theoretical pharmaceutics courses for third year students Al Azhar University.

- Participation in teaching theoretical pharmaceuticals courses for fourth year students Al Azhar University.
- Participation in teaching clinical pharmaceuticals courses for fifth year students Al Azhar University.
- Participation in preparing theoretical and practical notes in pharmaceuticals for all pharmacy students.
- Participation in teaching Clinical Pharmacy 1 and 2, Hospital Pharmacy, Industrial Pharmacy, Pharmacy Orientation, pharmacokinetics, clinical pharmacokinetics, pharmaceutical dosage forms- Faculty of Pharmacy – Nahda University -Beni Suef.

Publications

- 1- AbdElhakim Ramadan, Mahmoud M.A. Elsayed, Amani Elsayed, Marwa A. Fouad, Mohamed S. Mohamed Sangmin Lee, Reda A. Mahmoud, Shereen A. Sabry, Mohammed M. Ghoneim, Ahmed H.E. Hassan, Reham A. Abd Elkarim, Amany Belal, Ahmed A. El-Shenawy. Development and optimization of vildagliptin solid lipid nanoparticles loaded ocuserts for controlled ocular delivery: A promising approach towards treating diabetic retinopathy. International Journal of Pharmaceutics:X, Volume 7, June 2024, 100232
- 2- Mahmoud A. Hashem, Badriyah S. Alotaibi, **Mahmoud M. A. Elsayed** , Manal E. Alosaimi, Amal K. Hussein, Maram H. Abduljabbar, Kyung-Tae Lee, Hamdy Abdelkader, Mohamed A. El-Mokhtar , Ahmed H.E. Hassan , Amany A. Abdel-Rheem, Amany Belal and Mohammed S. Saddik
- 3- Alshymaa A.Hassnine, Mona A.Saber, Yasser MFouad, Hatem Sarhan, **Mahmoud M.A. Elsayed**, Zaki MZaki, Ehab MAbdelraheem, Safaa MAbdelhalim, and Amr M.Elsayed“Clinical study on the efficacy of hepatitis B vaccination in hepatitis C virus related chronic liver diseases in Egypt”, Virus Research, 2022, In press.
- 4- Mohammed S. Saddik, **Mahmoud M. A. Elsayed**, Amany A. Abdel-Rheem, Mohamed A. El-Mokhtar, Eisa S. Mosa, Mostafa F. Al-Hakkani, Samah A. Al-Shelkamy, Ali Khames, Mohamed A. Daha and Jelan A. Abdel-Aleem “A Novel C@Fe@Cu Nanocomposite Loaded with Doxorubicin Tailored for the Treatment of Hepatocellular Carcinoma”, Pharmaceutics 2022, 14(9), 1845; <https://doi.org/10.3390/pharmaceutics14091845>

- 5- **Mahmoud M. A. Elsayed**, Moustafa O. Aboelez, Mohamed S. Mohamed, Reda A. Mahmoud, Ahmed A. El-Shenawy, Essam A. Mahmoud, Ahmed A. Al-Karmalawy, Eman Y. Santali, Sameer Alshehri, Mahmoud Elkot Mostafa Elsadek, Mohamed A. El Hamd and Abd El hakim Ramadan "Tailoring of Rosuvastatin Calcium and Atenolol Bilayer Tablets for the Management of Hyperlipidemia Associated with Hypertension: A Preclinical Study", *Pharmaceutics* 2022, 14(8), 1629; <https://doi.org/10.3390/pharmaceutics14081629>
- 6- **Mahmoud M. A. Elsayed**, Moustafa O. Aboelez, Bakheet E. M. Elsadek, Hatem A. Sarhan, Khaled Ali Khaled, Amany Belal, Ahmed Khames, Yasser A. Hassan, Amany A. Abdel-Rheem, Eslam B. Elkaeed, Mohamed Raafat, and Mahmoud Elkot Mostafa Elsadek "Tolmetin Sodium Fast Dissolving Tablets for Rheumatoid Arthritis Treatment: Preparation and Optimization Using Box-Behnken Design and Response Surface Methodology". *Pharmaceutics* 2022, 14(4), 880
- 7- Mohammed S. Saddik, **Mahmoud M. A. Elsayed**, Mohamed A. El-Mokhtar, Haitham Sedky, Jelan A. Abdel-Aleem, Ahmed M. Abu-Dief, Mostafa F. Al-Hakkani, Hazem L. Hussein, Samah A. Al-Shelkamy, Fatma Y. Meligy, Ali Khames and Heba A. Abou-Taleb "Tailoring of Novel Azithromycin-Loaded Zinc Oxide Nanoparticles for Wound Healing". *Pharmaceutics* 2022, 14(1), 111
- 8- Mona Ali Saber; Hatem Abdul-Monsef Sarhan; Yasser Mahrous Fouad; **Mahmoud M.A. Elsayed**; Alshymaa Ahmed Hassnine. Overview on Hepatitis B vaccination, Volume 86, Issue 1, **January 2022, Page 696-699**
- 9- **Mahmoud M. A. Elsayed**, Omar Elgarhy, Hamdy Abdelkader, Olaa W Elkhayat. Enhancement of Etodolac Solubility Using Solid Dispersion Technique: Full Factorial Design Optimization and In Vitro Release Studies. *SJYR*, 2022
- 10- **Mahmoud M.A. Elsayed**; Okda, T.M.; Atwa, G.M.K.; Omran, G.A.; Abd Elbaky, A.E.; Ramadan, A.E.h. Design and Optimization of Orally Administered Luteolin Nanoethosomes to Enhance Its Anti-Tumor Activity against Hepatocellular Carcinoma. *Pharmaceutics* 2021, 13, 648. <https://doi.org/10.3390/pharmaceutics13050648>
- 11- Mohammed S Saddik, **Mahmoud M.A. Elsayed**, Mohamed Salaheldin A Abdelkader, Mohamed A El-Mokhtar, Jelan A Abdel-Aleem, Ahmed M Abu-Dief, Mostafa F Al-Hakkani, Hatem S Farghaly, Heba A Abou-Taleb. Novel Green Biosynthesis of 5-Fluorouracil Chromium Nanoparticles Using Harpullia pendula Extract for Treatment of Colorectal Cancer. *Pharmaceutics* 2021, 13(2), 226; <https://doi.org/10.3390/pharmaceutics13020226>

- 12- **Mahmoud M. Ahmed**, Controlled release alginate- chitosan microspheres of tolmetin sodium prepared by internal gelation technique and characterized by response surface modeling. Brazilian Journal of Pharmaceutical Science. In Press, 56: xxx (2020).
- 13- **Mahmoud M.A. Elsayed**, Mahmoud E Mostafa, Eman Alaaeldin, Hatem A.A. Sarhan, Montaser Sh.A. Shaykoon, Shady Allam , Ahmed R.H. Ahmed, Bakheet E.M. Elsadek. Accelerated Stability Testing of Microcapsulated Sorafenib-loaded Carbon nanotubes Prepared by emulsification/internal gelation Method. International Journal of Pharmacy and Pharmaceutical Research. November 2019 Vol.:16, Issue:4.
- 14- **Mahmoud M. A. Elsayed**, Saleh Abd El Rasoul, Abd El hakim Ramadan, Amal K. Hussein. Response Surface Methodology as a Useful Tool for Development and Optimization of Sustained Release Ketorolac Tromethamine Niosomal Organogels. Journal of Pharmaceutical Innovation. December (2019),
- 15- **Mahmoud M.A. Elsayed**, Mahmoud E Mostafa, Eman Alaaeldin, Hatem A.A. Sarhan, Montaser Sh.A. Shaykoon, Shady Allam , Ahmed R.H. Ahmed, Bakheet E.M. Elsadek. Design and characterisation of novel sorafenib-loaded carbon nanotubes with distinct tumour-suppressive activity in hepatocellular carcinoma. International Journal of Nanomedicine. 14: 8445–8467 (2019).
- 16- Hesham Refaat, YoussefW. Naguib, **Mahmoud M. A. Elsayed**, Hatem A. A. Sarhan and Eman Alaaeldin. Modified spraying technique and response surface methodology for the preparation and optimization of propolis liposomes of enhanced anti-proliferative activity against human melanoma cell line A375. Pharmaceutics 11:558 (2019)
- 17- **Mahmoud M. Ahmed**, Effect of different formulation variables on release characteristics of gastro-floating microspheres of ethyl cellulose/carbopol 934P encapsulating sorafenib. International Journal of Pharmacy and Pharmaceutical Sciences 11 (10): 64-70 (2019).
- 18- Ahmed A. El-Shenawy, **Mahmoud M. Ahmed**, Heba F. Mansour, and Saleh Abd El Rasoul, Torsemide fast dissolving tablets: Development, optimization using Box–Bhenken design and response surface methodology, in vitro characterization, and pharmacokinetic assessment. AAPS Pharm SciTech 18 (6): 2168–2179 (2017).

- 19- **Mahmoud M. Ahmed**, Saleh Abd El Rasoul, Amal K. Hussein, and Abd El hakim Ramadan, Controlled release niosomal gel as a colloidal carrier for topical drug delivery of ketorolac tromethamine. International Journal of Pharmacy and Pharmaceutical Research 7 (1): 528-539 (2016).
- 20- **Mahmoud M. Ahmed**, Jelan A. Abdel-Aleem and Hesham M. Tawfeek. Development and Optimization of Itopride Hydrochloride Fast Disintegrating Tablets Using Factorial Design and Response Surface Methodology. International Journal of Pharmaceutical Science and Research. Article in Press, April, 2015.
- 21- Sayed H. Auda , **Mahmoud M. Ahmed** ,S. Abd El-Rasoul, Shaaban K.Osman and Mahmoud El-Badry. In- Vitro Release and In- Vivo Performance of Tolmetin From Different Topical Gel Formulations. Journal of Pharmaceutical Investigations. Vol.2, 207-214 February, 2015.
- 22- S.Abd El –Rasoul , **Mahmoud.M. Ahmed** and K.I.Saleh. Emulsion Solvent Evaporation Method for Preparing Eudragit RS100 Microparticles loaded Ketorolac Tromethamine. Asian.J.Pharm.Hea.Sci.,. Jan- March .2013.
- 23- **Mahmoud M. Ahmed**, S. Abd El-Rasoul, Sayed H. Auda and Mohamed A. Ibrahim.Emulsification/ Internal Gelation as a Method for Preparation of Diclofenac Sodium- Sodium Alginate Microparticles. Saudi Pharm.J. vol. 21 pp.61-69. January.2013.
- 24- **Mahmoud M. Ahmed**, Design and optimization of tolmetin sodium microspheres prepared by emulsification –internal gelation using response surface methodology. Az. J. Pharm. Sci. Vol.45, pp 383-398. March, 2012.
- 25- **Mahmoud M. Ahmed** and S. Abd El-Rasoul, Preparation, Effect of Different Formulation Variables on release Characteristics of Cellulose Acetate Butyrate Microspheres prepared By Emulsification Solvent Evaporation Technique.Egypt.J.Med.Sci.32(1) pp. 711-729. June 2011.

- 26- Sayed H. Auda, **Mahmoud M. Ahmed** and S. Abd El-Rasoul. Effect of different non ionic surfactants on the in-vitro release rate of non steroidal anti-inflammatory drug from some lipophilic suppository bases, Zagazig J. Pharm. Sci., Vol. 20, No 1, pp. 1-8. June 2011.
- 27- **Mahmoud .M. Ahmed** and S. Abd El-Rasoul, Chitosan Polymer As A coat Of Calcium Alginate Microcapsules Loaded By Non-steroidal Anti-inflammatory Drugs, Bull. Pharm. Sci., Assiut University, Vol. 33, pp. 179-186. Part 2, December 2010.
- 28- Sayed H. Auda, **Mahmoud M. Ahmed**, S. Abd El-Rasoul and K. I. Saleh. Formulation and Physicochemical Characterization of Piroxicam Containing Polymer Films, Bull. Pharm. Sci., Assiut University, Vol. 33, pp. 33-42. Part 1, June 2010.
- 29- K.I.saleh, A. Ismail, **Mahmoud .M. Ahmed**. Formulatin, Characcterization and In Vitro Release Study of Diclofenac Sodium Microcapsles. Egyptian Journal of Biomedical Sciences. Vol.15,480-490 July, 2004.
- 30- **Mahmoud .M. Ahmed**, K .I.Saleh, Sayed H. Auda ,S. Abd El-Rasoul and G. M. Zayed Preparation and Evaluation of Diclofenac Sodium Cellulose Acetate Microcapsules using Solvent Evaporation Technique, Bull. Pharm. Sci., Assiut University, Vol. 33, pp. 43-49. Part 1, June 2010.