

Curriculum Vitae

Name	Idris Mohamed El-Mahdi Boukhamada	
Place & Date of Birth	Tripoli, 31st May 1968	
Nationality	Libyan	
Country of Residence	Libya	
Occupation	Professor of Pharmaceutics	
Place of work	Faculty of Pharmacy, Benghazi University, P.O. Box 5341 Benghazi, Libya	
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Marital Status	Married.	

1.1 Educational Qualifications:

- **B.Sc. Pharmacy**
 - Faculty of Pharmacy, Al-Fateh University of Medical Sciences, Tripoli – Libya
 - Date of Enrollment: academic year 1985/86
 - Date of Graduation: academic year 1989/90
- **Ph.D. Pharmaceutics**
 - Department of pharmaceutics, University of Dublin, Trinity College, Dublin – Ireland.
 - Thesis entitled “Peroral Targeting of Ketoprofen to the Colon”, Supervised by Professor Patrick B. Deasy.
 - Date of Commencement: April 1995
 - Date of Graduation: February 1999

1.2 Working Experience

- **Demonstrator of Pharmaceutics** at the Faculty of Pharmacy, Al-Arab Medical University, Benghazi-Libya. From 1st March 1992 to December 1994.
- **Community Pharmacist** from 1992 to 1994.
- Head of Pharmaceutics Department, Vice Dean, Chairman of the Scientific Committee, at the Faculty of Pharmacy, Garyounis University, Benghazi – Libya since 1st July 1999.
- Director of Industrial Projects at the **National Pharmaceutical & Medical Supplies Company** (N.P.M.S.Co), Benghazi – Libya, since May 2000.

- Inspector of GMP at the **National Center for Food & Drug Control**, since 2004.
- DEAN, Faculty of Pharmacy, **Al-Arab Medical Sciences University**, Benghazi, Libya, since 1/7/2007 – 31/12/2011.
- Project Director of Pharmaceutics development program for the **Libyan International Medical University** (www.limu.edu.ly) since January 2007.
- Member of the High Committee for Drug Registration at the Ministry of Health, Tripoli, since January 2007.
- Member of the Accreditation of Pharmacy programs in Libya, a joint work with the **Ministry of High Education** of Libya since July 2007.
- Scientific Advisor to **Libyan-Aid** in matters of good storage practices (GSP) from January 2008.
- Chairman of the Quality Assurance & Accreditation Committee of Al-Arab Medical University, since January 2009.
- Senior Visiting Research Fellow, Department of Pharmaceutics, School of Pharmacy, Queen's University Belfast (QUB), Northern Ireland, UK. From March 2010 to October 2010.

Full details of working experiences and responsibilities are given in Section 1.12.

1.12. Scientific Advisor to :

	Institution/ Organization	Year
1	National Pharmaceutical & Medical Supplies Company (NPMSCO).	Since 2001
2	Medical Insurance Services Company	Since 2001
3	Temporary advisor to WHO	2001
4	Al-Maya Pharmaceuticals factory, Tripoli, Libya	Since 2004
5	National Pharmaceuticals Manufacturing Company	Since 2004
6	National center for Food & Drug Control	Since 2005
7	Libyan-Aid	Since 2008

1.12. Membership in Scientific Committees & Unions:

	I / Union	Year
1	Libyan Union of Pharmacists	Since 1990
2	Association of the Arab Faculties of Pharmacy	Since 2000
3	Director of Libyan Union of Pharmaceutical Sciences, Benghazi.	Since 2004
4	Continues Medical Education Committee, Garyounis University	Since 2005
5	Scientific committee of Garyounis University	Since 2005

6	Member of the High Committee of Drug Resgistration	Since 2007
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1.5 Scientific Papers & Conferences

49 papers presented in various international meetings in different destinations including: Libya, Tunisia, Egypt, UAE, India, Singapore, China, Sweden, Netherlands, Northern Ireland, Republic of Ireland, Italy, UK, USA. Full details are given in Section 1.13.

1.6 Training Programs

- **Radioisotopes Production and Medical Applications.** Cairo 15-25 Nov. 1992. Supervised by the Arab League, Egypt.
- **Spectral Absorption and Atomic Emission.** 28th May-1st June 1994. University of Garyounis Research center, Benghazi.
- **Applied Statistics for Postgraduates.** October 1995-May 1996. University of Dublin, Trinity College, Dublin, Ireland.
- **GMP & Inspection.** 2001, WHO & NODCAR, Cairo, Egypt.
- **Accreditation of Educational Facilities Workshop (2008),** organized by the Ministry of High Education, 5-7/11/2008 Tripoli, Libya.
- **Role of the Faculty in Problem-Based Learning Curricula mmm(2009),** Joint Workshop between Libyan International Medical University & Suez Canal University. 30 Sep 2009 – 5 Oct 2009, Benghazi, Libya.
- **Formulation Process Technologies Workshop (2013),** Organized by Formulation SIG group, 16 Jan 2013, Birmingham, UK.

1.7 Computer Experience:

Full command of peration & typing, Windows, Power Point, Statistical Packages (EXCEL, SPSS), and Internet.

1.8 Teaching Experience:

Teaching Experience of more than 16 years of the following subjects in Pharmaceutics & Pharmacy. The lectures were given according to the following textbooks and references:

- Pharmaceutics: The Science of Dosage Forms Design, by Aulton.**
- Introduction to Pharmaceutical dosage forms, by Ansel.**
- The Theory & Practice of Industrial Pharmacy, by Lachman.**
- Biopharmaceutics & Clinical Pharmacokinetics, by Gibaldi.**
- The Pharmaceutical Codex.**
- WHO's GMP & Inspection Guideline.**
- Physical Pharmacy by Martin.**

h. The most recent critical reviews.

And the subjects are:

1. Tablets & Tablet coating.
2. Capsules.
3. Microencapsulation.
4. Sustained-release of drugs.
5. Drug targeting.
6. Extrusion – spheronization technology.
7. Application of statistics in pharmaceuticals.
8. Aerosoles.
9. Biopharmaceutics & Clinical Pharmacokinetics.
10. Sterile dosage forms (ophthalmics & parenterals).
11. Liquid dosage forms.
12. Topical dosage forms.
13. Prescriptions & Orientation to pharmacy.
14. Pharmaceutical calculations and general dispensing.
15. Suppositories.
16. Preformulation.
17. Pharmaceutical incompatibilities.
18. Drug kinetics and stability studies.
19. Polymer sciences.
20. Pharmacokinetic variability.
21. GMP and inspection of pharmaceutical factories.
22. Pharmaceutical processing (liquid flow, heat transfer, evaporation, drying, particle size reduction).
23. Micrometrics and powder technology.

1.9. Language Skills:

Arabic (mother-tongue) & English Language (absolute command: read, write, speak).

1.12. Research Interests in Pharmaceutics:

1. Technology of extrusion – spheronization.
2. Direct tableting of microcapsules.
3. Design of controlled release dosage forms.
4. Quality control of drugs.
5. Development and evaluation of new pharmaceuticals.
6. Microencapsulation of drugs.
7. Drug targeting.
8. Hot melt extrusion (HME).

1.11. Academic & Professional References:

1. Professor Patrick B. Deasy, Pharmaceutics Dept., School of Pharmacy, Trinity College, Dublin, Ireland. pdeasy@tcd.ie. (Phone: + 353 1 896 2784)
2. Professor Abdulla M. Molokhia, Professor of Pharmaceutics, Chairman of European-Egyptian Pharmaceutical Industries Company (EEPI), Alexandria, Egypt. molokhia@europeanpharm.com.eg. (Phone: 002 03 470 3315)
3. Professor Abubaker A. Bashir, Dean of the Faculty of Pharmacy, Garyounis University, Benghazi, Libya. pharmacy@ltnet.net. (Phone: +218 91 326 2103)

4. Professor Mustafa M. El-Fakhri, Dean of the Faculty of Pharmacy, Libyan International Medical University, Benghazi, Libya. elfakhri@limu.edu.ly. (Phone: +218 91 382 2237)

5. Professor Suliman I. Sharif, Dean of Faculty of Pharmacy, Sharjah University, UAE. (Phone: 0097 150 786 2787). Email: sharifsi@sharjah.ac.ae.

6. Dr. Ayman El-Kadi, Associate Professor of Pharmacology, University of Alberta, Canada. [Phone: (780) 492 3071]. Email: aekadi@pharmacy.ualberta.ca.

7. Dr. Anne Marie Healy, Associate Professor of Pharmaceutics, Pharmaceutics Dept., School of Pharmacy, Trinity College, Dublin, Ireland. healyam@tcd.ie. (Phone: + 353 1 896 1444)

1.12. Detailed Working Experiences and Responsibilities

	Job Title/Employer/Period	Responsibilities
1	Senior Visiting Research Fellow, Department of Pharmaceutics, School of Pharmacy, Queens University Belfast (QUB), Northern Ireland, UK. March - October 2010.	Worked with Dr. Gavin Andrews on application of Hot Melt Extrusion (HME) in the spheronization for the purpose of producing controlled release pellets by this technology.
2	Scientific Advisor to Libyan-Aid in matters of good storage practices (GSP) from January 2008.	Responsible on development of specifications for storage of supplies of the agency and the implementation of internal audits.
3	Chairman of Ministry of Health National Drug Tender Committee of 2007.	Responsible for preparing the final draft of sources from which drugs will be imported to the health sector in Libya.
4	Member of the Accreditation of Pharmacy Programs in Libya, a joint work with the Ministry of High Education of Libya since July 2007.	Responsible on development of objectives and outcomes of pharmacy profession suitable for the Libyan job market.
5	Member of the High Committee for Drug Registration at the Ministry of Health since January 2007.	Responsible on development of GMP check-lists, organizing inspection teams, develop specifications of technical files for drug registration, and approval of audit reports and subsequent registration of drug manufacturers.
6	Project Director of Pharmaceutics development program for the Libyan International Medical University since January 2007.	Responsible on development of detailed curriculum for the department of pharmaceutics in 8 subjects with detailed practical work, accompanied with a handbook for all the practical sessions of the 8-subjects.
7	DEAN, Faculty of Pharmacy, Arab	Responsible on running all the affairs in the

	Medical Sciences University, Benghazi, Libya, since 1/7/2007.	faculty of pharmacy on all the levels (personnel, infrastructure, documentation).
8	Inspector of GMP at the National Center for Food & Drug Control, since 2004.	Leader of inspection teams to more than 20 pharmaceutical manufacturing sites in Algeria (SAIDAL group of drug manufacturing), Egypt (Otsuka, Alexandria Co., Nile Co., El-Debaiky), Syria (Avensor drug manufacturing, Barakat), Bangladesh (Square Pharmaceuticals), UK (Wyeth Pharmaceuticals), Tunisia (Opalia, Teriak, Dorcas), Colombia (VitroPharma), Turkey (Bilim Pharmaceuticals, Abdi-Ibrahim), India (Celon Labs).
9	Chief Advisor to the National Center for Drug & Food Control since 2005.	supervise all matters related to training of personnel, development of standard operating procedures (SOP's) in QC labs, documentation and interpretation of results in quality control labs.
10	Director of Industrial Projects at the National Pharmaceutical & Medical Supplies Company (N.P.M.S.Co), Benghazi – Libya, since May 2000 to 2004	Responsible on projects related to drug manufacturing at NPMSCO including organizing the work done by Al-Maya Pharmaceuticals factory, establishment of national quality control center, and preparation of feasibility studies to manufacturing projects.
11	Head of Pharmaceutics Department, Vice Dean, Chairman of the Scientific Committee, at the Faculty of Pharmacy, Garyounis University, Benghazi – Libya since 1st July 1999.	During these years I was responsible on arranging time-tables for lectures, exams, visits by external lecturers and examiners. Giving lectures of the subjects of Pharmaceutics, Biopharmaceutics, Quality management, and Industrial pharmacy to all pharmacy students (as detailed in section 1.8), for both under & post-graduate students. I was a member of scientific committees among the faculty and the university for several years. I was a member of the organizing committees of several national and international conferences including the 4 th & 5 th National Pharmaceutical Conferences, and the 11 th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World.
12	Worked as a community pharmacist from 1990 to 1994 in the private sector.	I was responsible on general dispensing, compounding, counseling, and conducting inventories.

1.13. Detailed Scientific Papers & Conferences

1. **El-Mahdi, I.M.** and Deasy, P.B., (1997). Use of modified polymethacrylate coatings for oral, colon- specific drug delivery. *The University of Queens-Trinity College Joint seminar*, Belfast, UK.
2. Deasy, P.B. and **El-Mahdi, I.M.**, (1997). Development of coated ketoprofen pellets for oral colon-specific drug delivery. *23rd Int. Symp. Control. Rel. Bioact. Mater.* Sweden.
3. **El-Mahdi, I.M.** and Deasy P.B., (1997). Formulation development of microcapsules for colonic delivery of ketoprofen on oral administration. *11th Int. Symposium on Microencapsulation*, Singapore.
4. **El-Mahdi, I.M.** and Deasy, P.B., (1998). Preparation, tableting and dissolution properties of colon-specific ketoprofen pellets. *Trinity College – the University of Queens Joint seminar*, Dublin, Ireland.
5. Deasy, P.B. and **El-Mahdi, I.M.**, (1998). Guar gum-methacrylate based coating for the oral delivery of colon specific ketoprofen pellets. *9th Int. Symposium on Bioencapsulation*, USA.
6. **El-Mahdi, I.M.** and Deasy, P.B., (1999). Production of colon-specific multiparticulate system for the oral delivery of ketoprofen. *18th Pharmaceutical Technology Conference*, Utrecht, the Netherlands.
7. Deasy, P.B. and **El-Mahdi, I.M.**, (1999). Peroral colon-specific drug delivery system for ketoprofen. *24th Int. Symp. Control. Rel. Bioact. Mater.* USA.
8. **El-Mahdi, I.M.** and Deasy, P.B., (1999). Coating systems for the oral delivery of ketoprofen to the colon. *12th Int. Symposium on Microencapsulation*, London, UK.
9. **El-Mahdi, I.M.**, Musa, W., Muftah, S., and Abuajila, M., (2000). Direct compression of hydrophilic polymers for the sustained-release and colon-specificity of drugs. *19th Pharmaceutical Technology Conference*, Bavino, Italy.
10. **El-Mahdi, I.M.** and Deasy, P.B., (2000). Peroral targeting of drugs to the colon. *4th Congress of the Association of the Arab Faculties of Pharmacy*, Monastir, Tunisia.
11. Boruiss, M.M, Jawdat, B.B., and **El-Mahdi, I.M.**, (2000). Comparative studies of the mechanical properties and *in vitro* behavior of diclofenac products. *4th Congress of the Association of the Arab Faculties of Pharmacy*, Monastir, Tunisia.
12. **El-Mahdi, I.M.** and Deasy, P.B., (2000). Tableting of coated ketoprofen pellets. *Journal of Microencapsulation*, **17**, 2, 133-144.
13. Al-Jarray, A., Benkhial, A.A., and **El-Mahdi, I.M.**, (2000). Direct compression of natural polymers for the sustained-release of caffeine. *4th Congress of the Association of the Arab Faculties of Pharmacy*, Monastir, Tunisia.

14. Abuajila, M.A., El-Nwam, R.A., Rambhau, D., and **El-Mahdi, I.M.**, (2000). The effects of surfactants on the crystal properties and compaction of aspirin. *4th Congress of the Association of the Arab Faculties of Pharmacy*, Monastir, Tunisia.
15. **El-Mahdi, I.M.** and Deasy, P.B., (2001). Compression of microcapsules. *5th Congress of the Association of the Arab Faculties of Pharmacy*, Amman, Jordan.
16. Jahawi, H., Shebani, F., and **El-Mahdi, I.M.**, (2001). SESR; a new excipient for pharmaceutical applications. *5th Congress of the Association of the Arab Faculties of Pharmacy*, Amman, Jordan.
17. Hbara, Z., Mohamed, A., and **El-Mahdi, I.M.**, (2001). Effect of release modifiers on drug release from tablets of acacia-gelatin complexes. *5th Congress of the Association of the Arab Faculties of Pharmacy*, Amman, Jordan.
18. El-Sharkasi, A., Bashir, Z., and **El-Mahdi, I.M.**, (2001). *In vitro* evaluation of some ampicillin products in the Libyan market. *5th Congress of the Association of the Arab Faculties of Pharmacy*, Amman, Jordan.
19. Taher, M., Gahmi, S., and **El-Mahdi, I.M.**, (2001). Utilization of EXCEL software package for optimization of extrusion – spheronization technology. *5th Congress of the Association of the Arab Faculties of Pharmacy*, Amman, Jordan.
20. Al-Sharkasi, A., Bashir, Z., and **El-Mahdi, I.M.**, (2001). *In vitro* evaluation of some ampicillin products in the Libyan market. *5th Jamahiriya Medical Sciences Conference*, Al-Zawia, Libya.
21. Shakmak, A., Bosheha, I., Banigesh, A, and **El-Mahdi, I.M.**, (2001). Survey and statistical analysis of some medical prescriptions in the area of Benghazi. *5th Jamahiriya Medical Sciences Conference*, Al-Zawia, Libya.
22. Al-Jawza, A.A., El-Fakhri, K.H., **El-Mahdi, I.M.**, and Bashir, A.A., (2001). Comparative quality control study on the different brands of glibeclamaide tablets. *5th Jamahiriya Medical Sciences Conference*, Al-Zawia, Libya.
23. **El-Mahdi, I.M.**, (2002). Effect of release modifiers on the extrusion – spheronization of ketoprofen. *6th Congress of the Association of the Arab Faculties of Pharmacy*, Ajman, UAE.
24. **El-Mahdi, I.M.**, (2002). SESR-101[®]; a new excipient for pharmaceutical applications. *6th Scientific conference of the Egyptian National Organization for Drug Control and Research*, Cairo, Egypt.
25. **El-Mahdi, I.M.**, Al-Attar, H.A., El-Faghi, R.I., (2003). Rabtamol[®] & Mayagesic in a comparative study. *4th National Conference on Pharmaceutical Sciences*, Tripoli, Libya.
26. **El-Mahdi, I.M.**, Abu-Elkhail, L.A., and Kablan, N.M., (2004). A comparative study of the extrusion – spheronization of a new plant material and microcrystalline cellulose. *7th Scientific conference of the Egyptian National Organization for Drug Control and Research*, Cairo, Egypt.

27. **El-Mahdi, I.M.**, (2004). Studies on aqueous extracts of Miswak. *29th Conference of Pharmaceutical Sciences & 8th conference of the Association of the Arab Faculties of Pharmacy, Cairo, Egypt.*
28. Taher, A.T., Benkhial, A.A., and **El-Mahdi, I.M.**, (2005). Studies of release kinetics from directly compressed natural polymers containing caffeine. *5th National Pharmaceutical Sciences Conference, Benghazi, Libya.*
29. Gazzy, R., Mohamed, I., and **El-Mahdi, I.M.**, (2005). Evaluation of products containing ibuprofen available in the Libyan market. *5th National Pharmaceutical Sciences Conference, Benghazi, Libya.*
30. Boshiha, Z., Ibrahim, R., and **El-Mahdi, I.M.**, (2005). In vitro evaluation of some liquid oral dosage forms available in the Libyan market. *5th National Pharmaceutical Sciences Conference, Benghazi, Libya.*
31. Mohamed, H., El-Gazzar, A., and **El-Mahdi, I.M.**, (2005). Development of a gastric floating aspirin tablets. *5th National Pharmaceutical Sciences Conference, Benghazi, Libya.*
32. El-Kezza N.F., El-Mansoury, S.T., and **El-Mahdi, I.M.**, (2005). Investigation of a new plant material in extrusion – spheronization technology. *5th National Pharmaceutical Sciences Conference, Benghazi, Libya.*
33. **El-Mahdi, I.M.**, Ejlail, N.J., and Abdelsalaam, A.A., (2007). Evaluation of a new plant material for direct compression. *2nd Int. Conf. on Pharmaceutical Sc. Tech. & Practice and 2nd Indo-Canadian Satellite Symposium, India.*
34. Emhamed, A.S.A, Khalil, M.S., and **El-Mahdi, I.M.**, (2007). Quality control of some tablets containing trimethobrim — sulphamethoxazole available in the Libyan market. *6th National Pharmaceutical Sciences Conference, Musrata, Libya.*
35. A-Said A., and **El-Mahdi, I.M.**, (2007). Patterns of drug consumption in Al-Kofra City. *6th National Pharmaceutical Sciences Conference, Musrata, Libya.*
36. **El-Mahdi, I.M.**, (2007). Effect of excipients and their particle size on the direct compression of drug microspheres. Annual Meeting of the American Pharmaceutical Society (AAPS), San Diego, USA.
37. **El-Mahdi, I.M.**, Al-Jehani, H.A., and Al-Tweer, H.M. (2007). Quality control of some tablets containing loratidine available in the Libyan market. *11th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Tripoli, Libya.*
38. El-Towati, S.M, Al-Daher, S.I., and **El-Mahdi, I.M.** (2007). Preformulation studies on a novel excipient. *11th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Tripoli, Libya.*
39. **El-Mahdi, I.M.**, and Deasy, P.B. (2008). Drug targeting to the colon. *1st International Conference on Drug Design and Delivery (ICDDD), Dubai, UAE.*

40. **El-Mahdi, I.M.**, and El-Shehebia, T. A. (2008). Three-Dimensional Presentations of Factorial Experimentation Data of Extrusion – Spheronization. *12th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Cairo, Egypt.*
41. **El-Mahdi, I.M.**, Aasim, Z., Ibrahim, G. (2009), Scale-up study on directly compressed microcrystalline cellulose. *The 4th International Conference of Pharmaceutical and Drug Industries Division, National Research Center, Cairo, Egypt.*
42. **El-Mahdi, I.M.**, El-Kezza,, W.S., El-Balazi, H.A, El-Kezza, (2009). Preformulation & Formulation variables affecting direct compression. *The Annual Annual Meeting of the Americam Pharmaceutical Society (AAPS), Los Angeles, USA.*
43. **El-Mahdi, I.M.**, Said, A.M., (2012). Effect of excipients on the compression of drug microspheres. The British Academy of Pharmaceutical Sciences (APS) PharmSci 2012, Nottingham, UK.
44. **El-Mahdi, I.M.** (2012). Effect of spheronizer plate design on the spheronization of ketoprofen. *International Pharmaceutical Federation Centennial Congress (FIP), Amsterdam, The Neatherlands.*
45. **El-Mahdi, I.M.** (2012). Direct compression studies on hot-melt extrudate. *The Annual Annual Meeting of the Americam Pharmaceutical Society (AAPS), Chicago, USA.*
46. Salih, T.M., **El-Mahdi, I.M.**, Ben-Gweirif, S.F. (2012), Stability of chloramphenicol ophthalmic solution. *15th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Amman, Jordan.*
47. Najwa M. Embarek, Somia I. Melad, Ebtehal A.Hasan, Salem A. El-Gahmi, **Idris M. El-Mahdi**. (2013), Preformulation Variables Affecting Direct Compression of Microcrystalline Cellulose. *16th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Benghazi, Libya.*
48. Abd Elraziq A. Mohamed, Ali A. Hamad, Ahmed H. Ali, Ali A. Saad, Salem EL-Gahmi, **Idris M. El-Mahdi** (2013), Use of antibiotics among pharmacy students. *16th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Benghazi, Libya.*
49. Tauwfik M. Salih , **Idris M. El-Mahdi** , Salha F. Ben-Gweirif (2013), The Microbiological & Chemical Stability of Sterile Chloramphenicol Ophthalmic Solutions. *16th Scientific Congress of the Association of the Colleges Pharmacy in the Arab World, Benghazi, Libya.*

1.14. Other Activities

1.14.1 Invited speaker in recent Meetings & Workshops

- a. **Visiongains Dissolution Testing, Bioequivalence & Bioavailability Strategies Conference**, 26-27 June 2008, The Grosvenor – Victoria, London, UK.
- b. **6th Annual Congress of International Drug Discovery Science and Technology (IDDST)**, October 18 -22 2008 in Beijing , China.

c. **Visiongains 2nd Dissolution Testing, Bioequivalence & Bioavailability Strategies Conference**, 24-25 June 2009, London, UK.

1.14.2 Achievements

- a. The design and preparation of “the Official GMP Checklist and Inspection Protocols” for the Ministry of Health in Libya in the year 2007.
- b. Initiate the Postgraduate program of Pharmaceutics, Pharmacognosy, Toxicology, and Pharmaceutical Chemistry in October 2008 at the Faculty of Pharmacy, Arab Medical University, Benghazi.
- c. Awarded a Grant by the National Authority of Scientific Research for preparing “ The Official Libyan Specifications for Drugs” in the year 2010.
- d. Initiate the “Pharmaceutics Problem-Based Learning (PBL) initiative” at LIMU University in 2009.