

## *Curriculum Vitae*

Prof. Dr. Nidhal Khazaal Maraie  
*Al-Farahidi university – College of pharmacy*  
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### **PERSONAL SUMMARY:**

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Name: Dr. Nidhal Khazaal Maraie

Gender: Female

Scientific title: Professor

### **EDUCATION:**

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1- Ph.D. (Pharmaceutics, pharmaceutical technology and drug industry), 1997, College of Pharmacy, Baghdad University, Iraq.

2-M.Sc., 1983, College of Pharmacy, Baghdad University, Iraq.

3-B.Sc. (Pharmacy), 1979, College of Pharmacy, Baghdad University, Iraq.

4-Associate fellowship (dosage form design and industry), 2005, College of Pharmacy, Paris 5 University, France

5- Associate fellowship in Firenze university, Italy, 2012.

### **ACADEMIC HONORS AND AWARDS:**

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- Patent certificate for formulation of oroslippery tablets (2015).
- Patent certificate for formulation of Nano carriers (2016).
- Patent certificate for formulation of nasal nanoemulsion for Ondasetron HCl (2017).
- Patent certificate for proniosomes powder in tablets for Dutasteride (2018).
- Patent certificate for application of microcapsules to prepare implantable films for dexamethasone (2020)
- Patent certificate for application of resin microspheres containing sulfasalazine for embolic therapy (2020)
- Patent for nano transfersomes containing loxoprofen as a topical application (2021)
- Patent for nano cubosomal gel for Erythromycin (2022)

- Patent for new liquid form for mefenamic acid containing lipid complex 2022
- Patent for implantable film for Ketorolac inside the eye 2022
- Thanks books from Minister = 12
- Thanks books from university president = 43
- Thanks books from college dean = 102
- Shield of best academic professor in 2013 from head of Mustansiriyah university.
- Shield of best academic professor in 2016 from Dean of college of pharmacy/Mustansiriyah university
- Shield of best academic professor in 2017 from Dean of college of pharmacy/Mustansiriyah university.
- Creative medal from Mustansiriyah university in 2018

#### ACADEMIC /TEACHING EXPERIENCE:

- Teaching different courses related to pharmaceutics theoretical and practical parts since 1979 till now.
- Teaching and supervising graduated students for M.Sc. degree.
- Head and member in examination committees for Ph.D. and M.Sc. students.
- Member in the editorial board of AL- Mustansiriya journal of pharmaceutical sciences.
- Member in the editorial board of World journal of pharmacy (International journal).
- Member in Global international institute for impact factor.
- Member in the national American medical association.
- scientific experts in drug delivery and dosage form design, Nano technology, bioavailability (bioequivalence) studies.
- Prof. of pharmaceutics, college of pharmacy / Al-Farahidi university

#### COURSES TAUGHT:

Undergraduate	Graduate
<ul style="list-style-type: none"> <li>• industrial pharmacy/ Theoretical</li> <li>• industrial pharmacy/ Practical</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Pharmaceutical technology.</li> <li>• Advanced biopharmaceutics.</li> <li>• Advanced drug delivery and biotechnology.</li> <li>• Selected topics.</li> <li>• Rate process</li> <li>• Advanced industrial pharmacy</li> </ul>

## PROFESSIONAL AFFILIATIONS:

- Head and of chairman pharmaceuticals department (college of pharmacy - Mustansiriyah University). since 2003-2012 and 2015-2017.
- Deputy chairman pharmaceuticals department (college of pharmacy, Baghdad university).
- Manager of scientific bureau for consultation, (college of pharmacy - Mustansiriyah University).
- Consultant in ministry of industry.
- Member in Global institute for impact factor
- Member of editorial board of World journal of pharmacy (International journal).
- Member in the editorial board of AL- Mustansiriya journal of pharmaceutical sciences.
- Head of scientific promotion committee (2018-2022)
- Chief of scientific committee of pharmaceuticals (till now)
- Member in the steering committee of EMRO pharm Forum (FIP; International pharmaceutical Federation) (2018 -till now)
- Member in the Iraqi syndicate
- Prof. of pharmaceuticals in college of pharmacy/ Al-Farahidi university

## PUBLICATIONS:

1. "Isolation of the antimicrobial alkaloid stemmadenine from Iraqi *Rhazya stricta* "published in the American journal of natural products, vol.51 (1),(1988),p.189.
2. "Screening of indigenous Iraqi plants for alkaloids and antimicrobial activity "published in Iraqi Pharm. Sci, vol.2 (2), (1989), p.82.
3. "Antimicrobial activity of Iraqi *Plantago lanceolata*" published in Iraqi J. Pharm. Sci., vol.2 (1), (1989), p.23.
4. "Utilization of nicotinamide as a complexing agent in the formulation of diazepam oral solution. I" published in Iraqi J. Pharm. Sci. vol. 9, (1998), p. 73.
5. "Alhagi graecorum extract as a mouthwash gargle" published in Ibn Al-Haitham J. for pure and App. Sci., vol. 12(3), (1999), p.1
6. "Comparative bioavailability study between the new formulated diazepam oral solution and the commercially available diazepam solution (Valium Roche). II" published in Iraqi J.Pharm.Sci. vol.11, (2000), p.100
7. "Factors affecting the in vitro diffusion of diclofenac sodium from ointments" published in Iraqi Journal of pharmacy (Mosul), vol.1 (1),(2001) ,p.62.
8. "Some factors affecting the stability of rutin in buffered aqueous extract of the plant *Alhagi graecorum* ", published in Ibn Al-Haithem J. for pure and App.Sci, vol. 18, no.1 (2005)
9. "Topical preparations from the Iraqi plant *Aloe vera* and their efficacy in skin infections ", published in Al-Mustansiriya journal of pharmaceutical science (AJPS), vol.2, no.1 (2005).
10. " Factors affecting the diffusion of meloxicam from different bases" published in Al-Mustansiriya journal of pharmaceutical science (AJPS), vol.2, no.2 (2005).

11. " Formulation and preliminary clinical evaluation of cimetidine topical preparations ", published in Al-Mustansiriya journal of pharmaceutical science (AJPS), vol.4, no.1 (2007), p.86.
12. " Preparation, evaluation and dissolution behaviors of water soluble drug loaded PLGA microspheres." published in Al-Mustansiriya journal of pharmaceutical science (AJPS), vol.4, no.1 (2007), p.23.
- 13." New drug delivery system of diclofenac sodium for its application in therapeutic embolization strategy." Published in Al-Mustansiriya journal of pharmaceutical science (AJPS), vol.4, no.1, (2007).
14. "Comparative study for the transport of hydrophilic drugs through Caco-2 cells monolayer", accepted for publication in Tikrit journal of pharmaceutical science (TJPS) vol. 5, no.2 (2009).
- 15- " Development of stable formulations and quality control studies of diclofenac sodium ophthalmic drops" published in the Arab Journal of Pharmaceutical Science, vol. 3, no. 9 (2009) (Syria).
- 16- "Quick pharmaceutical steps for preliminary evaluation of mutual Prodrug" Published in Al-Mustansiriya journal of pharmaceutical science (AJPS), (2011)
- 17- " Few factors affecting the buoyancy and release of theophylline from hydrodynamically balanced delivery system" published in International Journal for Sciences and Technology, vol.6, no.4 (2011), pp. 85-94.
- 18-Development of delivery system for transferrin using chemical modification approach. Basra journal of veterinary research.vol.11. (1) 2012.for bages197-213.
- 19- Preparation and evaluation of salbutamol liposomal suspension using chloroform film method" Mustansiriya Medical Journal, vol.11 (2), (2012).
- 20- "Factors affecting the sustained oral delivery of Mefenamic acid from floating in situ gelling formulation "published in the American journal of Pharm Tech Res(AJPTR), (2013); 3(3), 830-844.
- 21- "Optimization and evaluation of time programmed press coated tablets for Atenolol" world journal of pharmaceutical science (World J Pharm Sci), (2013): 1(4), 130-137.
- 22- " Inquiries for setting up bioequivalence center: with fast track in the main aspects in biopharmaceutics and pharmacokinetics" 1<sup>st</sup> edition (2013), published by Dar Al-Koutob, Baghdad/Iraq.
- 23- "Formulation and evaluation of Trifluoperazine Hydrochloride orodispersible tablets" International journal of pharmacy and pharmaceutical sciences (Int J Pharm and Pharm Sci), (2014); 6(1), 294-300.
- 24- "Formulation and In vitro evaluation of buccal mucoadhesive tablets of Promethazine HCl "International journal of pharmaceutical sciences review and research (IJPSRR) , (2014);
- 25-" Phytochemical study of the Iraqi Beta vulgaris leaves and its clinical applications for treatment of different dermatological diseases", World journal of pharmacy and pharmaceutical sciences, (2014); 3(8), 5-19.

- 26-“Development and in vitro/in vivo evaluation of floating in situ gelling oral liquid extended release formulation of Furosemide” UK journal of pharmaceutical and biosciences,(2014); 2(5),1-12.
- 27-“In vitro/in vivo evaluation and bioavailability study of Amitriptyline hydrochloride from the optimized oral fast dissolving films” , UK journal of pharmaceutical and biosciences, (2014), vol.2(6), 32-42.
- 28-“Optimization and evaluation of metoclopramide HCl as mucoadhesive buccal patch”, UK journal of pharmaceutical and biosciences, (2015), vol.4, 79-99.
- 29- “Preparation and Comparative Evaluation of Fe<sup>+2</sup>/Fe<sup>+3</sup> and Mg<sup>+2</sup>/Fe<sup>+3</sup> LDHs as Promising Nanocarriers for Class II and Class IV Drugs”, Journal of Natural Science Research,(2015), Vol.5, No.14,126-137.
- 30- “New Easily Swallowed Tablets with Slippery Coating for the Antihypertensive Drug Valsartan” UK Journal of Pharmaceutical and Biosciences, (2015), Vol. 3(5), 09-19.
- 31- “Loading of clarithromycin and paclitaxel on synthesized CDS/NIO nanoparticles as promising nanocarriers “, International Journal of Pharmacy and Pharmaceutical Sciences, (2016), vol.8(5), 322-333.
- 32- “Comparative bioavailability (bioequivalence) study for fixed dose combination tablet containing amlodipine, valsartan and hydrochlorothiazide using a newly developed HPLC-MS/MS method”, International Journal of Pharmacy and Pharmaceutical Sciences, (2016), vol.8(7), 296-305.
- 33- “Efficacy of preparation of time programmed double pulse press coated tablet containing fixed dose combination of montelukast sodium and levocetizine dihydrochloride for treatment of nocturnal asthma”, International journal of pharmaceutical sciences review and research (IJPSRR), (2016);41(2),306-311
- 34- “Comparative study between liquisolid compacts, liquisolid microsystem and solid dispersion technology for the preparation of immediate release nifedipine tablets “International journal of pharmaceutical sciences review and research, (2017);43(1), 116-126.
- 35- “Efficacy of combination solid dispersion technology on dissolution performance of nalidixic acid and cefdinir” Asian J. Pharm. Clin. Res., (2017); 10(4),394-401.
- 36- “Application of the new oroslippery technology in the preparation of enteric slippery coated tablet for naproxen”, International Journal of Pharmacy and Pharmaceutical Sciences, (2017); 9(6), 198-204
- 37- “New easily swallowed tablets with slippery coating “1<sup>st</sup> edition (2017), published by Lambert Academic Publishing, Germany, pp1-201
- 38- “Design and characterization of oroslippery buoyant tablets for ranitidine hydrochloride”, Asian J Pharm Clin Res, (2018); 11(1), 143-149.
- 39- “Effect of different mucoadhesive polymers on release of ondansetron HCl from intranasal mucoadhesive in situ gel”, AJPS, (2017); 17(2), 76-85.
- 40- “A newly modified HPLC method for estimation of dutasteride in prepared niosomes”, AJPS, (2017); 17(2),104-111.
- 41- “Application of Nanoemulsion Technology for Preparation and Evaluation of Intranasal Mucoadhesive Nano- In-situ Gel for Ondansetron HCl”, Journal of Global Pharma Technology, 2018;10(03):431-442.
- 42- “Application of Proniosomal Powder Technology to Prepare Fast Water Dissolving Tablets for Dutasteride”, Journal of Global Pharma Technology, 2018;10(03):916-927.
- 43- “Absolute and relative bioavailability study for the newly developed nasal nanoemulsion in situ gel of Ondansetron HCl in comparison to conventionally prepared in situ gel and intravenous dosage forms “, International journal of applied pharmaceutics, 2018; 10(5):105-109.

- 44- "Preparation and evaluation of famotidine nanosuspension" AJPS, (2018):18(2),13-23.
- 45- "Application of liquisolid technology to enhance the dissolution of cefixime from its oral capsules" International journal of applied pharmaceutics, 2018; 10(5):214-219
- 46- "Preparation and in vitro evaluation of montelukast sodium oral nanoemulsion", International journal of applied pharmaceutics, 2018; 10(5):49-53.
- 47- "Preparation, evaluation and clinical application of safflower cream as topical nutritive agent" Asian J Pharm Clin Res, 2018; 11(8): 1-3.
- 48- "Optimization and in vitro evaluation of the release of class II drug from its nanocubosomal dispersion", International Journal of Applied Pharmaceutics, 2019; 11(2): 86-90.
- 49- "In vitro Evaluation of the Effect of Using Different Gelling agents on the Release of Erythromycin from a Nanocubosomal gel" AJPS, (2019):19(1),34-43
- 50- "Preparation and Evaluation of Microencapsulated Dexamethasone Sodium Phosphate Using Double Emulsion Method" AJPS, (2019):19(1),1--11
- 51- "Preparation and in vitro evaluation of implantable film containing microencapsulated sustained release dexamethasone sodium phosphate" International journal of pharmaceutical research (IJPR), (2019): 11(3), July –September, 332-336
- 52- "Preparation and in Vitro Evaluation of Soya Lecithin Based Nano Transfersomal Dispersion for Loxoprofen Sodium" AJPS, (2019):19(4), 102-115.
- 53- "Variables affecting sulfasalazine - ion exchange resin complexation" AJPS, (2019):19(4), 140-150.
- 54- "Efficacy of Gelling Agents on The In Vitro Release and Physical Properties of Loxoprofen Sodium Gel Containing Ultra Elastic Vesicles" International journal of drug delivery technology, 2019 : 9(4);671-677
- 55- "Application of PLGA-ion exchange resin microcapsules of sulfasalazine for embolization therapy", Journal of contemporary medical sciences(JCMS), (2019):5(5),264-273 September-October.
- 56- "In-Vivo evaluation of implantable film containing microencapsulated sustained release dexamethasone sodium phosphate" Journal of contemporary medical sciences(JCMS), (2019):5(8),325-331 December.
- 57- "Overview on nanoemulsion as a recently developed approach in drug nanoformulation" Research J. Pharma. and Tech. (2019):12(11),1-7 November
- 58- "An Overview on Oroslipey Technique as A Promising Alternative for Tablets used in Dysphagia" Research J. Pharm. and Tech. (2019):12(9),4545-4549
- 59- "Intravitreal Implantable Film Containing Ketorolac Tromethamine Microsponges In Vitro/In Vivo Correlation" Sys Rev Pharm 2020; 11(5): 313- 321
- 60- "Identification and Quantitation of Phospholipid Binding Sites in Lipid Drug Conjugate Pharmacosomes using Model Drug" Sys Rev Pharm 2020; 11(5): 458 – 463

- 61- "Utilization of natural stabilizer to prepare liposomal conjugate for the newly developed aptamer" *Sys Rev Pharm* 2020; 11(7): 32-50
- 62- "Preparation and in-vitro evaluation of cilostazol self-emulsifying drug delivery system" *AJPS*, (2020):20(1); 13-30. March
- 63- "Highlight on lipids and its use for covalent and non-covalent conjugations" *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2020, 20 (3); 1-13.
- 64- "Factors affecting preparation and evaluation of Kitorolac tromethamine microsponges for ocular use" *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2020: 20 (3); 58-70.
- 65- "Efficacy of gel electrophoresis for proteins and biotechnological products – an overview" *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2020: 20 (4);45-65
- 66- "Characterization and optimization of oral solid supersaturable self-emulsifying drug delivery system of cilostazol" *Research J. Pharma. and Tech.* (2021):14(6);1-6 June
- 67- "Utilization of soluplus for the preparation of oral liquid supersaturable self-emulsifying drug delivery system of cilostazol" *Journal of natural remedies*, (2021): 22 (1); 262-274 may
- 68- "Highlights on polymeric micelles as versatile nanocarriers for drug transporting" *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2021, Vol. 21, No.2
- 69- "Utilization of Ultrasonication Technique for the Preparation of Apigenin Nanocrystals" *International Journal of Drug Delivery Technology*. 2021;11(3):964-973.
- 70- "Preparation and evaluation of oral capsules containing apigenin nanocrystals prepared by ultrasonication" *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2021, Vol. 21, No.3; 16-24
- 71- "Loading of Pemetrexed on Synthesized Fullerene C60 as a Promising Buckysomes" *International Journal of Drug Delivery Technology*, 2021, Vol. 11, issue 4, No. 14; 1205-1215
- 72- "Preparation and evaluation of nano-binary ethosomal dispersion for flufenamic acid" *Materials Today: Proceedings*, 2022;57(P2):354-361
- 73- "Tenoxicam-loaded polymeric micelles material: formulation, optimization and evaluation" *Materials Today: Proceedings*, 2022;61(P3):672-680
- 74- "Utilization of solid in oil nanodispersion to prepare a topical vemurafenib as potential delivery system for skin melanoma" *Springer Appl Nanosci*, volume 12, issue 2 , first on line articles 2022,
- 75- "The Development and Characterization of a New Easily Swallowed Valsartan Oral Jelly" *Research J. Pharm. and Tech*, 2022, 15(2); 723-728.
- 76- "Perspective Impact of Gelling Agents on the Mechanistic Behavior for the Topical Delivery of Flufenamic Acid Nano-Ethosomal Dispersion" *International journal of drug delivery technology*,12(2) , June 2022, 790-797.

- 77- "Fabrication and Optimization of Prolonged-release Microcapsules Containing Protein Drug (Erythropoietin)" International journal of drug delivery technology, 12(2) , June 2022, 565-572.
- 78- "Formulation and evaluation of maline based solid super-saturable self-emulsifying drug delivery system for risperidone" Journal of Pharmaceutical Negative Results, 13 (1), September 2022 , 1066-1081.
- 79- "Efficacy of Gold and Nickel on the Anticancer Activity and Physical Properties of Pemetrexed Loaded on Fullerene C60 Buckysomes" International Journal of Drug Delivery Technology, 12 (3). September 2022, 1233-1244.
- 80- "Preparation and Evaluation of a Sustained Release Niosomal Dispersion Containing Niflumic Acid" International Journal of Drug Delivery Technology, 12 (3). September 2022, 1105-1111.
- 81- "Modified solid in oil nanodispersion containing vemurafenib-lipid complex-in vitro/in vivo study" F1000Research, 11:841. November 2022, 1-22.
- 82- "Insights into medicated films as attractive dosage forms" Al Mustansiriyah Journal of Pharmaceutical Sciences, 23(1); 2023, 1-13.
- 83- "Mucoadhesive Film Forming Spray for Buccal Drug Delivery: A Review" Al Mustansiriyah Journal of Pharmaceutical Sciences, 23(1). 105-116.
- 84- "Preparation and Evaluation of Ophthalmic Ketorolac Tromethamine Minitablet" International journal of drug delivery technology, 13(01): 2023 193-198
- 85- " Rheological and Thermal Behavior of Choline-based Deep Eutectic Ionic Liquid and its Impact on a Poorly Soluble Drug Model" International journal of drug delivery technology, 13(01): 2023 86-94
- 86- "Lomustine's nanoemulsion as nose-to-brain drug delivery system for CNS tumor treatment" Saudi pharmaceutical journal, 31 (8). 2023, 1-11.

## **PROFESSIONAL DEVELOPMENT**

### **Conferences and meetings:**

- 1- Scientific meeting for drug industry in Jordan (1983)
- 2- Symposium of ACDIMA company for drug industry in Baghdad (1983)
- 3- Scientific meeting in the scientific research council in Baghdad (1986)
- 4- 1<sup>st</sup> scientific conference of college of pharmacy \ university of Baghdad (1986).
- 5- 4<sup>th</sup> Arab scientific conference for biological sciences in Tunisia (1986).
- 6- Conference of educational parameters in college of pharmacy \ university of Baghdad (1987).
- 7- Training workshop in chromatography in college of pharmacy \ university of Baghdad (1987).
- 8- Symposium for education and teaching ways in university of Baghdad (1987)



- 9- Scientific meeting for plant tissue culture in college of pharmacy \ university of Baghdad (1988).
- 10- The 4<sup>th</sup> scientific conference of college of pharmacy \ university of Baghdad (1988)
- 11- The 5<sup>th</sup> scientific conference of college of pharmacy \ university of Baghdad (2000)
- 12- The 24<sup>th</sup> conference of Arab pharmacists' union in Algeria (2001).
- 13- The 1<sup>st</sup> scientific meeting for drug industry in college of pharmacy \ university of Baghdad (2001)
- 14- The 10<sup>th</sup> scientific meeting in college of pharmacy \ university of Mosul \Iraq (2002).
- 15- The 6<sup>th</sup> scientific conference of college of pharmacy \ university of Baghdad (2002)
- 16- The 11<sup>th</sup> scientific conference of syndicate of Iraqi pharmacists (2002).
- 17- The 6<sup>th</sup> scientific congress of the association of colleges of pharmacy in the Arab world and the 1<sup>st</sup> international conference of faculty of pharmacy and health sciences, Ajman University of science (2002).
- 18- Certificate in computer science from university of Baghdad (2003).
- 19-The 1st scientific meeting for prevention from Thalassemia disease in Al-Mustansiriya university (2004).
- 20- The second international scientific conference for drug industry in the national research center in Cairo / Egypt (2005)
- 21- The 12<sup>th</sup> scientific conference of syndicate of Iraqi pharmacists (2005).
- 22- Fellowship scholarship in college of pharmacy/ Paris 5 university for 3 months (2005).
- 23- The 10<sup>th</sup> International symposium on natural product chemistry, in Pakistan in January 2006 (accepted paper).
- 24- The 1<sup>st</sup> Scientific conference for institute of genetic engineering and biotechnology, University of Baghdad in 2008 (attendance).
- 25- The 11<sup>th</sup> international symposium on natural product of chemistry in Pakistan in 2008 (accepted paper).
- 26- The 13<sup>th</sup> Scientific conference of syndicate of Iraqi pharmacists in 2008 (attendance).
- 27- The 7<sup>th</sup> conference of college of pharmacy / university of Baghdad in 2008 (attendance).
- 28- International conference for NAAMA in Dubai (2008) (accepted paper).
- 29- The 1<sup>st</sup> conference of medical diagnostic tools in Ministry of Industry in Iraq in 2009 (Attendance).
- 30- Participation in the medical and scientific exhibition in Turkey (2009)
- 31- The scientific conference of Oman medical college (2010)
- 32-Head of the preparing committee for the symposium of pharmaceutics in 2011

- 33- Training course in Italy for I month (1/11-1/12/2012)
- 34- Participant in the symposium of pharmacology and toxicology (role of toxicology in forensic medicine) in college of pharmacy/university of al-Mustansiriya in13/12/2012
- 35- Participant in the symposium of clinical pharmacy entitled (Application of IV administration in Iraqi hospitals) college of pharmacy/university of al-Mustansiriya in20/12/2012
- 36- Participant in the symposium of clinical laboratory department entitled (Broccoli in Iraq) college of pharmacy/university of al-Mustansiriya in18/2/2013
- 37- Participant in the symposium of quality assurance in college of pharmacy/university of al-Mustansiriya in3/3/2013.
- 38- Participant in the symposium of pharmaceutical chemistry department entitled (Current concepts in advanced drug discovery) assurance in college of pharmacy/university of al-Mustansiriya in14/3/2013
- 39- The 14<sup>th</sup> scientific conference of syndicate of Iraqi pharmacists in 19-21/3/2013(paper accepted and speaker entitled (Preparation and evaluation of salbutamol liposomal suspension using chloroform film method).
- 40- 2nd scientific conference of Yarmouk university college entitled (scientific concepts; the rule for progress) 26-3-2013(attendance).
- 41- Participant in the symposium of pharmaceutics department entitled (Role of new technology in drug development) in college of pharmacy/university of al-Mustansiriya in11/4/2013 (lecturer and head of session; new application of laser in medical and pharmaceutical sciences).
- 42- Participant in the symposium of pharmaconosy department entitled (health of human and life style) in college of pharmacy/university of al-Mustansiriya in29/4/2013
- 43- Representative of college of pharmacy in the international conference for permanent development in Iraq, 8/5/2013
- 44-2<sup>nd</sup> scientific conference of Al-Mustansiriyah University of college of pharmacy 30-10-2013
- 45- Symposium of Al-Rasheed College of pharmacy about Identification methods of breast cancer, in 6/12/2013
- 46- Symposium of clinical pharmacy department /university of Al-Mustansiriya about Iraqi hospitals, in 8/4/2014.
- 47- Symposium of clinical laboratory department/college of pharmacy /University of Al-Mustansiriya about Ebola virus, in 29/10/2014.
- 48- 2<sup>nd</sup> conference of national center of diabetes, ministry of health, 11/2014.
- 49- Work shop of consultant bureau /college of pharmacy /University of Al-Mustansiriya about application of Elisa technique, in 8/3/2015.

- 50- Symposium of clinical pharmacy department/college of pharmacy/University of Al-Mustansiriya about patient education, in 23/4/2015
- 51- 3<sup>rd</sup> Symposium of pharmaceutics department/college of pharmacy/University of Al-Mustansiriya about application of dosage form design for optimizing therapeutic action, in 29/4/2015
- 52- Symposium of pharmacognosy department/college of pharmacy /University of Al-Mustansiriya in 5/5/2015.
- 53- Symposium of academic supervision / college of pharmacy /University of Al-Mustansiriya in 13/10/2015.
- 54- Third symposium of pharmacology and toxicology department/college of pharmacy /University of Al-Mustansiriya in 27/11/2016
- 55-International symposium for bridging between university and drug industry, Columbia college for pharmacy/India, 5-6/3/2016 (research)
- 56- Third symposium of pharmaceutical chemistry department/college of pharmacy /University of Al-Mustansiriya in 4/4/2016
- 57- Fourth symposium of clinical pharmacy department/college of pharmacy /University of Al-Mustansiriya in 7/5/2016
- 58- fourth symposium of pharmacognosy department/college of pharmacy /University of Al-Mustansiriya in 10/5/2016
- 59- 4<sup>th</sup> Symposium of pharmaceutics department/college of pharmacy/University of Al-Mustansiriya about metals as promising drug delivery system, in 25/10/2016
- 60- Conference of pharmacy syndicate in Lebanon, 17-19/11/2016.
- 61-Symposium of clinical pharmacy department/college of pharmacy /Kufa University about best use of drugs, in 14/12/2016
- 62- Symposium of pharmaceutics department/college of pharmacy/ Al-Anbar University about nanotechnology in 4/1/2017
- 63- Symposium of clinical laboratory sciences department/college of pharmacy/ Al-Anbar University about laser in nanotechnology in 29/3/2017
- 64- Fourth symposium of pharmaceutical chemistry department/college of pharmacy /University of Al-Mustansiriya in 3/4/2017
- 65- Conference of pharmacy syndicate in Lebanon, 17-19/11/2017.
- 66- Workshop in academic accreditation in DEA, 4-5/3/2018.
- 67- Meeting with ACCP representative in Amman/Jordan in May/2018

- 68- Attendance of conference of international federal pharmacists association(FIP) in UK in September /2018
- 69- Attendance of 6<sup>th</sup> symposium of clinical laboratory department /college of pharmacy /University of Al-Mustansiriyah in 13/11/2018
- 70- Attendance of 8<sup>th</sup> conference of the national center of hematology /Mustansiriyah university in 1-12-2018.
- 71- Head of the symposium of bioavailability and bioequivalence study in pharmaceutics department college of pharmacy / Mustansiriyah University in 12-3-2019
- 72- Attendance of EMRO forum conference in 27-4-2019.
- 73- Lecturer of workshop of proper selection of HLB for the surfactants, pharmaceutics department college of pharmacy /University of Al-Mustansiriyah in 5-2-2020.
- 73- Lecturer in Conference of college of pharmacy/Mustansiriyah university, 2021
- 74- Lecturer in Conference of college of pharmacy/Mustansiriyah university in the American university 2022
- 75-Research presentation in 1st conference of Al-Farahidi university, 2023
- 76- Symposium of pharmaceutics department in college of pharmacy /Al-farahidi university, 2023