

Curriculum Vitae

Prof. Dr. Khulood Waheeb Abbood Al-Sammarraie

Date & Place of Birth: 1952 Baghdad- Iraq

Gender: Female

Marital Status: Married

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Present Occupation: **Prof. in Biology/**Dean of College of Science . Alfarahedi University



- Obtained many letters of appreciation, recognition, and honors from various Ministries and Scientific Departments and from the University for Distinguished Activities in the field of Scientific Creativity.
- Obtained patents in using the botanical compounds in treating infection caused by dermatophytes and preparing Medical Ointments from it.
- Consultant in the Ministry of Trade in the field of testing and analyzing the seeds and foodstuff and its pollution.
- Consultant in the Ministry of Health / Samarraa Factory for Medicine.
- Consultant in Drugs and Active Components Center of the Ministry of Health.
- Obtained honors of the “Day of Science” for choosing her within the distinguished in the field Plaintiff Scientific Activities and Creation.
- A Founder of the Iraqi Society for Medical Herbs and Plants.
- Participated in many conferences with researches inside and outside the country and was nominated as a consultant within the Iraqi Delegates of the Ministry of Trade to Germany (Training Course).
- Member of the environmental coordination and consultation Council.
- Obtained patents in using the plant sec. metabolites as anticancer on cell lines .

- Supervised graduating group of higher studies students (Masters and Doctorate) and presently is supervising over 200) Masters Students and 30 Doctorate Students.

Qualifications

- Ph. D., (1996) Mycology and Mycotoxins, Baghdad University, College of Science
- M.Sc., (1983), Chemotaxonomy / Biology, Baghdad University, College of Science
- B.Sc., (1974), Biology / Baghdad University, College of Science.

Employment record

1. 1974–1977 Research assistant – Department of Pharmacognosy, College of Pharmacy, Baghdad University.
2. 1977–1980 Scientific researchers Department of Pharmacognosy, College of Pharmacy.
3. 1983–1996 Lecturer, Department of Pharmacognosy, College of Pharmacy.
4. 1996–1998 Director of Biotechnology Department, Al-Nahrain University, College of Science.
5. 2003 Head of Biotechnology Department, Al-Nahrain University, College of Science.
6. 2004-2011 Manager of Biotechnology Research center, AL-Nahrain University.
7. Dean of college of Science, AL-Nahrain University.

Field of Research

1. Pharmacognosy and Medicinal plants. That include secondary metabolites of these plants with isolation, Identification and biological activity of these metabolites.
2. Microbiology and Mycology, Fungi and mycotoxins in cereal and food. Isolation, Identification and their pathological effects.

Teaching experience

1. Course in cell biology and cell function. College of health science, university of George Masson, RAK , The United Arab Emirates.
2. Courses in Pharmacognosy and Medicinal plants at the department of Pharmacognosy. College of Pharmacy. Baghdad – Iraq.
3. Taught laboratory courses in General Biology at the department of biology, College of pharmacy.
4. Taught laboratory courses in plant biology and General biology at Biotechnology department. College of science.
5. Courses in Phytochemistry at Biotechnology department. College of science.
6. Courses in Mycology, Biotechnology department.
7. Courses (for Ph.D. and M.Sc. Student) ;
 - a. Natural products.
 - b. Drug discovery from nature.
 - c. Secondary metabolites.
 - d. Advanced mycology and mycotoxins.
 - e. Advanced toxicology.

Societies

1. Member of Iraqi Biological society.
2. Member of Iraqi society of Microbiology.
3. Member of Iraqi Society of Herbs and Medicinal plants.
4. Member of ABSA(American Society of Biosafety)
5. Member of Work together for Iraq society
6. Member of Myocard for Mycotoxins Fungi International society.

Published Books

1. Synthesis and Biological Evaluation of Some New 1, 3, 4- Oxadiazole. LAP

Lambert Academic Publishing, Germany, 2012.

2. Anti-tumor Properties of Iraqi Propolis: *in vitro* and *in vivo*., LAP Lambert Academic Publishing, Germany, 2012.
3. Biotechnology Science- still on the Run, LAP Lambert Academic Publishing, Germany, 2012.

Published Research

1. Estimation of the whole flavonoid, antioxidant, antibacterial challenge concerning *viola odorata* (banafsha) methanolic extract. 2018. Iraqi journal of agricultural sciences- 1027:49(4):566-551.
2. Qualitative and quantitative analysis of *Lycium barbarum* flavonoids from leaves. 2017. J. of pharmacy college of Baghdad.
3. Identification and isolation of Flavonoids from *Loranthus eurpaeus* Fruits in Iraq markets 2016. Journal of Biotechnology research, vol.10, No1.
4. Cytotoxic evaluation of *Alchemella vulgaris* extract in normal blood lymphocytes 2016. World journal of pharmaceutical research , vol 5, issue 4, 237-252.
5. Antioxidant activity of *Hypericum triquetrifolium* methanol extract. 2015, vol 4, Issue 1, 405-413.
6. Chemical characterization, antioxidant and cytotoxic activities of the methanolic extract of *Hymenocrater longiflorus* grown in Iraq. 2015, Zeitschrift fur naturfors chungc, vol 70.
7. Preliminary study for anticancer activity of flavonoids extracted from wild *Lycium barbarum* leaves. Published at International Journal of Research Studies in Biosciences. Vol.3 DEC., 2015.
8. Study the effect of Purified Flavonoids extracted from Wild *Lycium barbarum* leaves on HEPG-2 cell cycle. Published at International Journal of Current Research, Vol. 7, April 2015.
9. In vitro studies of the cytotoxicity and cell cycle arrest of *Hymenocrater longiflorus* plant extract on colon cancer (RKO) cell line. 2014. Current

Research in microbiology and biotechnology, vol 2, No.3, 367 – 372.

10. Quantitative Analyses of Total Polysaccharides and Total Carotenes from *Lycium barbarum* Fruits. Published at *International Journal of Modern Biology and Medicine*. vol.4, 2013.
11. Immunization the Albino Mice against Hydatid Cysts. (2012).
12. Anti-oxidant Activity of *Paliurus spina*– Christi Methanolic extract. *International journal of Bio-Technology and Research (IJBTR)* 2013.
13. Metal Complexes of Schiff base: Preparation, characterization and antibacterial activity 2013. *Arabian Journal of Chemistry*.
14. Detection of Virulence Factors Produced by Local Isolates of *Aeromonas hydrophila*. *Journal of Biology, Agriculture and Healthcare*. (2013).
15. Cytotoxic effects of *Agrimonia eupatoria* L. against Cancer cell lines *in vitro*. *Journal of the Association of Arab Universities for Basic and Applied Sciences* (2013).
16. Determination of *Dionysia aucheri* Methanolic Extract Cytotoxicity by High Content Screening (HCS) Assay, accepted in for presentation in the 9th Annual International Conference of The Egyptian Society for Experimental Biology. Egypt.
17. Alkaloids production from Callus of *Hyoscyamus niger* L. *in Vitro*. *Journal of Life Sciences* 6 (2012) 874-882.
18. Assessing the anti-tumor properties of Iraqi propolis *in vitro* and *in vivo*. *Food Chem Toxicol*. 2012 May; 50(5):1632-41. Epub 2012 Jan 28.
19. Chemical Analysis and Antifungal Activity of *Paliurus spinachrist* II (2012). *Egyptian Society for Experimental Biology*. Egypt, Egypt. *J. Exp. Biol. (Bot.)*, 8(1):99- 122.
20. Cytotoxic effect of *Capparis spinosa* extract on human and animal tumor cell line (HEp-2, AMN-3), 2012. Accepted in for presentation in the 8th annual international conference of the Egyptian Society for Experimental Biology. Egypt.
21. Antibacterial activity and the Histopathological study of crude extracts and isolated tecomine from *Tecomastans bignoniaceae* in Iraq. *Pharmacognosy Research*,

January-March 2012, Vol. 4, Issue 1. P (37-43).

22. Assessing the anti-mutagenic potential of sage *Salvia officinalis* L. leaf aqueous extract in cultured blood cells of acute lymphocytic leukemia patients using the micronucleus formation assay. The 2nd conference of biotechnology research center, Al-Nahrain University, Vol. 5 No. 2 (special edition). 17-24. H
23. Cytogenetic effect of *Myrtifolia micromeria* extract on human and animal cell line, 2011. Accepted in Iraqi journal of market research.
24. Attempts to Treatment of Hydatid Cysts Disease in Laboratory Mice. Sixth Scientific Conference of the Educational College of Education - University of Tikrit. 5-4 April 2011. P (1127-1151).
25. The cytogenetic effect of *Capparis spinosa* on animal and human (*in vivo* and *in vitro* study). International Journal of Science and Technology, Vol. 6 No.2, June 2011, pp.33-51.
26. Hematopoietic toxicity of Laurantus. 2011. International Journal of Comprehensive Pharmacy IJCP. vol2, issue7.
27. Cytogenetic study of Rumex plant active compounds and activity on mice and human. Accepted in Journal of Life Science. USA.
28. The characterization of Iraqi propolis samples and assessing their antioxidant potentials. 2011, J. Food and Chemical Toxicology 49, p (2414-2421), USA.
29. Effect of crude aqueous celery *Apium graveolens* leaves extract on fertility in albino female mice. Fifth Scientific conference - Babylon Uni. 2010. Vol.5
30. Study the possibility of using jojoba oil as fuel enhancer, 2010. Int. conf. for Develop. And the Env. In the Arab World. March 21-23 Studies. Egypt
31. Study the effect of *Capparis spinosa* and *Rumex acetosella* extracts on liver function enzyme GOT, GPT and adenosine deaminase. Journal of Al-Nahrain University Vol. 3(4), December, 2010, pp. 140-146. Science.
32. Histopathological studies on animal infected with *Trichophyton rubrum* and treated with *Fumaria officinalis*. Accepted in the 2nd International Symposium on Medicinal plants, Petra- Jordan Applied Univ. 2010.

33. Cytotoxic effect of *Artemisia herba alba* extract on S.U.99 cell line growth rate. Accepted in the 2nd International Symposium on Medicinal plants, Petra- Jordan Applied Univ. 2010.
34. Short- term culture for acute myeloid leukemia cells. 2010, J. Biotech. Res. Center. Vol.4, No.1, p (2-10).
35. Effect of *Colocynthis (Citrillus colocynthis)* plant extract on leukemic cells, 2010. Journal of Biotechnology Research Center Vol.4 No. 2.
36. Effect of aqueous extract of *Salvia* on some changes in testes of mice treated with methotrexate (MTX), 2010. Journal of Biotechnology Research Center Vol. 4, no. 2.
37. Study the effect of *Capparis spinosa* and *Rumex acetosella* extract on liver function enzyme GOT, GPT and Adenosine Deaminase. 2010, journal of Science, Al_Nahrain Univ Vol.13, No.4., p (140-146)
38. Pathological Effects of Crud Trichothecenes on Swiss Mice. 2010 J. Biotech. Res. Center, Vol. 4, No. 1. P(20-27)
39. Study the Interaction between metronidazole and *Pelargonium odoratissimum* Aquatic Extracts *in vivo* and *in vitro* on Mammalian Cells. 2010 J. Biotech. Res. Center, Vol. 4, No. 1.
40. Effect of sage (*Salvia officinalis*) aqueous extract on mitotic index in albino male mice. 2010 J. Biotech. Res. Center, Vol.4, No. 2.
41. Pathological study on the effect of Crud Trichothecenes on mice kidney. The 5th Int. conf. for Develop. And the Env. In the Arab World. March 21-23 Egypt. P 31-41.
42. Separation and in vitro cultivation of acute myeloid Leukemia blast cells. 2010 J. Biotech. Res. Center, Vol. 4, No. 2.
43. Cytogenetic effect of *Capparis spinosa* and *Rumex actosella* extracts on male mice germinal cells and sperm morphology Iraqi J. Biotech. 8(3):670-681(2009).
44. Cytogenetic effect of *Capparis spinosa* and *Rumex acetosella* extract on mice germ cells and sperm head and tail morphology.2009. Iraqi Journal of Biotech,

Vol., No.3. pp (670-681).

45. Cytogenetic study on the effect of *Rumex acetosella* extract on mice and human. 6-10/7 /2009” conference of Plant Enviro .Turkey.
46. Effect of *Trigonella foenum- Graecum foecungreek* oil extract on some parameters of Sperms and in vitro fertilization in mice, 2009. Journal of Wassit, vol. 2. Issue no.2, pp (7-17).
47. Study the cytogenetic effect of *Pelargonium odoratis simum* aquatic extract *in vivo* and *in vitro* on mammalian cells, 2008. Iraqi Journal of Genetic (IJG), vol.1 no.2, 33-38.
48. Histopathological study on the antifungal activity of Salix plant extract on some dermatophytes, 2008. Journal of Biotechnology Research Center Volume2 No. 2 P. (33-39).
49. The possibility of using *Glycyrrhiza glabra* L. Callus extracts as an alternative to plant growth regulators in plant tissue culture experiments, 2008. Journal of Biotechnology Research Center Volume2 No.2 P. (71-80).
50. Bioactivity of Origanum oil on *Staphylococcus aureus*. Journal of Biotechnology Research Center Volume2 No. 2 Year 2008 P. (51-56).
51. Production of lipase from *Aspergillus* (T4) isolate by solid-state fermentation. / Journal of Biotechnology Research center, No.1 Year2007, P (1-14).
52. Detoxification of Ochratoxin by *Nigello satin* 2005. Fifth scientific conference in Balqaa Uni., College of applied Agriculture, Jordan.
53. Study of Antifungal Activity of some new Substituted 2-mercapto Benzothiaole on some Pathogenic Microorganisms. AL-Mustansirya Journal of Pharmacy. Science accepted. Date of acceptance 10/11/2005
54. Therapeutic activity of *Teucrium polium* extract on selected dermatophytes. (Histopathological studies by light and electron microscope), The 2nd International conference of pharmaceutical and drug industries, division: national research center March 7-9, 2005.P: I-24.
55. The Anti-Leukemic activity of *Teucrium polium* extract, The 2nd International

conference of pharmaceutical and drug industries division national research center March 7-9, 2005.P: V1-7.

56. Effect of New synthesized piperazine Derivative [1] Containing 1, 2, 4- Triazole Ring on the Growth of some Pathogenic Microorganisms. AL-mustansirya Journal of Pharmacy. Science. AJPS, 2005, Vol., 1, No.2.
57. Histological study on the effect of Cymbopogon oil on dermatophytes. 2004 J. Biotech. Res. Center. Volume 6, No.1, p (53-59).
58. Isolation & identification of cytochalacin A like compounds from local fungal isolates. 2004 J. Al-Nahrain University. Volume 7, No.2, p(30-36)
59. Histopathological study on the therapeutic effects of *Techrium polium* on the growth of some dermatophytes (under publishing).
60. Study on the new scientific techniques in the production and development of active compounds in plants and medicinal herbs (circular of symp. Of medicinalplants in Thamar) (AL-Yaman).
61. Histopathological study on the antifungal activity of salvia extract on some Dermatophytes. Science. Al-Nahrain University.
62. An Ultra structure study of changes in lever cells affected by Ochratoxin A produced from *AspergillusochraceusI* .2002. J. Al-Qadisiya, pure science,Vol. 7, No, 1.
63. Ultra-structural study of changes in rat liver cells affected by Och.A from Asp. Ochraceus.2002 J. Al-Qadisiya pure science Vol.7, No.1
64. Effects of Salvia and Withania extracts on the inhibition of Dermatophytes. 2002 Iraq. J. Microb. Vol. 14, No. 1.
65. Biological contaminants in foods, and human health with their effects in Biosafety. (Symposium of Biosafety) Damascus 10/5/2002.
66. Study on the effect of Citrinin on the liver. (2002) J. Sci. Saddam University Vol. 6, No. 1.
67. Effect of leaves and bark extracts of Salix on Microsporum and scopulariopsis. 2001 the veter. Vol. 11 (1).

68. Synthesis of new piperazine derivatives with potential antihypertensive effect in mice 2001 National J. of chemistry Vol.4, 650-695.
69. Isolation and Identification of TOF mutants of *Staph. aureus*, 2001, J. of Biotechnology. Selected research paper No.1.
70. Bacterial and Genetic study of *Staph. aureus* that produced β - lactamase. Symposium of college of science / AL-Nahrain University 2001
71. Effect of withania leaves extracts on the growth of some dermatophytes (symposium of college of medical sci.) Al-Zarga University. 2001.
72. Fungi and mycotoxins in cereals products in local markets in Baghdad. (The 1st conference on food analysis). Ministry of Trade. 7-8/10/2001.
73. Ultra-structural study of the lymphocyte variations caused by AF. Contaminated diet. 2000 J. Biotech. Res.Vol. 4 ,No.1
74. Study (by Electron and light microscope) of the pathological effects of Citrinin on kidney 2000 J. Biotech. Res.
75. Pathological effect of Afl. B1 on lymphocytes. (Symposium of food contamination and their effect in united Arab land) Iraq. Baghdad 19-21/11/2000.
76. Isolation and Quantitative estimation of Citrinin from *Penicillium citrinum* 2000 Science (5) No. 4 (College of Science).
77. Biochemical study of the effect of Citrinin from *Penicillium expansum* (2000) Science (4) No. 1.
78. The X – Ray effect on B and T lymphocyte, 1999 Vet. (9), No.1.
79. X-Ray effect on bone marrow cells 1999 Vet. (9), 1.
80. Toxic effects of contaminated diet on poultry. (Symposium of Poult. Prod.) Syria Hamah. 10-12/10/1994.
81. Chemical investigation of *Cordia myxa* leaves used in herbal remedi in Iraq. The First Arabic Conference of Medicinal Plant used as drugs. 1992 Damascus 5-8 Oct.
82. Geographical distribution of the genus *Nepeta* in Iraq. 1989 Biol. Sci. Res. Vol

(20),

83. Flavonoids and Saponins screening in Iraqi Verbascum 1989 Biol. Sci. Res. Vol (20).

Participations in Conferences, Symposiums and Lectures

1. Participation in The first Arab conference on medicinal plants which are used manufacturing medicines on 5-8 October 1992 held in Damascus, Syria by submitting a research entitled "Chemical investigation of *Cordia myxa* leaves used in herbal remedy in Iraq".
2. Participation in a scientific Symposium on "The production of poultry " held in Hums, Syria, on 10-12 October 1999, by submitting a research entitled "Toxic effects of contaminated diet on poultry".
3. Participation in a symposium on "Food pollution and its effect in the Arab World " held in Baghdad, Iraq, on 19-21 November 2000, by submitting a research entitled
"Pathological effect of Afl. B1 on lymphocytes"
4. Participation in the first conference on "Food Analysis" held under the auspices of the Iraqi Ministry of trading 7-8 October, 2001. By submitting a research entitled "Fungi and mycotoxins in cereals products in local markets in Baghdad.
5. Participation in a conference held by the college of Medicinal Sciences, University of Al-Zarka', in 2001, by submitting a research entitled "Effect of Withania leaves extracts on the growth of some Dermatophytes".
6. Participation in a symposium on Biosafety held in Damascus , Syria on June 10th, 2002, by submitting a research entitled "Biological contaminants in foods, and human health with their effects in Biosafety".
7. Participation in a scientific meeting held under the auspices of the Arabic Establishment of Sciences and Technology in Amman, entitled "making use of scientific personalities in re-building Iraq" held on 28-29 June, 2004.
8. Participation in the second scientific conference of pharmaceutical sciences and

production of medicine in Egypt, held in 7-9 March, 2005, by submitting a research paper on anti-cancer composition entitled "Antileukemic activity of Teucrium".

9. Participation in an exhibition "Rebuild IRAQ 2005". Held in Amman, Jordan from 4-7 April, 2005.
10. Participation in a workshop held by Arabic Establishment for Sciences and Technology in Jordan on 18-20 September, 2005.
11. Participation in the fifth Agricultural Scientific conference in Jordan, held by Al-Balka' Application University- College of Technological Agriculture, on 9-12 May 2005, by submitting a research entitled " Detoxification of Ochratoxin A by Black seed *Nigella Sativa*"
12. Participation in the workshop held at the center of Sciences and Arab Technology in Jordan, 15/18 May, 2005.
13. Participation in the second specialized scientific symposium entitled "Plants extract and the cure of cancer" held by the Iraqi Center of Cancer Researches and medical heredity in Al-Mustansriya University, held on the 10th of August 2005, and the submission of a lecture entitled "Cancer and secondary metabolites".
14. Participation in the workshop established by the royal Foundation Society in Amman, Jordan held on 6-10 February, 2006.
15. Participation in the Arab conference for the preservation of plants, held in Damascus, Syria, on 19-23 November, 2006, with the submission of a research paper entitled "Histopathological study of Ochratoxins".
16. Participation in a conference held by the Arabic Establishment of Sciences and Technology (A.S.T.F.), ON 13-17 December, 2006. By the submission of a research paper entitled" Research Centers Promote Higher Education"
17. Participation in the workshop held by Sandia National Laboratories (C.M.C.) in Amman, Jordan. on 18-20 December 2006, with a research entitled " Iraq/ U.S. Biological Risk Workshop"
18. The First Pan-Arab Conference on Environmental Science & Technology

organized by Arab Science and Technology Foundation Sharjah/UAE – March 11-15,2007.

19. As a visiting professor to University of George Mason, Ras-Al-Khaima, U.A.E., on 28 January, 2007. (prof. in GMU-R.A.K. campus)
20. A course in Administrative Leaderships, Ministry of Foreign Affairs-Turkey, 2008.
21. Meeting on plant tissue culture for the advancement of agriculture in Iraq: (The American University of Iraq-Suleimaniya –Twin Rivers Institute, 5-7 November, 2008).
22. Participation in the first scientific conference of Biotechnology Research Center, on 22-23 December 2008. Through the submission of (4) researches paper:
 - Separation and in vitro cultivation of acute myeloid Leukemia blast cells(
 - Pathological Effects of Crud Trichothecenes on Swiss Mice
 - Effect of sage (*Salvia officinalis*) aqueous extract on mitotic index in albino male mice.
 - Study the Interaction between metronidazole and *P. odoratissimum* Aquatic Extracts *in vivo* and *in vitro* on Mammalian Cells.
23. Participation in a scientific symposium "The Role of Biotechnology in the Safety of Food" held by Al-Nahrain University, College of Science, dep. Biotechnology, on 6th of April, 2009.
24. Attendance during the first "Agricultural Week" at Baghdad Fair on 14-21 of March. 2009.
25. Participation in the third scientific conference held by the college of science, University of Baghdad on 24-26 March, 2009.
26. Participation in a conference held in Turkey about:" Plant Environment" by submitting a research paper entitled "Cytogenetic study on the effect of *Rumex acetosella* extract on mice and human" on 6-10 July, 2009.
27. Participation in a training course on how to use- and make use of- the H.P.L.C. at the National Center for Researches in the Arab Republic of Egypt on 25-29

October, 2009.

28. Participation in a workshop for training in new and modern systems of safety of foods and the security of consumers held in Amman on 6-7 August, 2010. Which was held by the Center of Fortunes for Training and Scientific consultations-the new Scientific Alliance.
29. Participation in the fifth Islamic Conference of the ministries of Higher Education and Scientific Research which was held in Malaysia on 19-21 November, 2010; the subject of which was "Higher Education in Islamic Universities".
30. Participation in a workshop held by the "Iraqi House of Experience" in Beirut-the Lebanon on March, 2011.
31. Participation in the 8th annual international conference of the Egyptian Society for Experimental Biology held in February 2012 at Cairo University Conference Center, Egypt.
32. Training Course at the National Institute of Optics (Nonlinear Dynamics in Optics and Applications) 1 October – 1 November 2013, Florence, Italy.
33. Participation in the 3rd middle east Molecular biology congress as a membership in memos Qatar University /Doha 14-17 Nov. 2016.
34. New cytotoxic and molecular assessment of *hymerocrater longiflorus* on human carcinoma cells. 2nd international inversion 2-4 March 2017, Istanbul, Turkey.
35. Cytotoxic and anticancer effect of *Chelidonium majus* on human cancer cell lines. 2nd international inversion 2-4 March 2017, Istanbul, Turkey.

Honors Conferred

1. Certificate of appreciation on the occasion of award of Higher Education for Sciences 30 December 2013.
2. Certificate of appreciation on the occasion of Day of Science in 2013 by the Minister of Higher Education and Scientific Research for The Best Book Award.
3. Certificate of appreciation on the occasion of Day of Science in 2012 by the Minister of Higher Education and Scientific Research of Excellence to deploy

more than three research in international scientific journals solid outside Iraq.

4. Certificate of appreciation on the occasion of Day of Science in 2012 by the Minister of Higher Education and Scientific Research of excellence to participate in the membership of scientific committees.
5. An honorable title conferred by the ministry of Higher Studies on the occasion of the Day of Science for notable posts held during the years 2009, 2010 and 2011.
6. An honorable title conferred by the rector of Al-Nahrain University on occasion of "The Day of Science".
7. The award of the silver medal at Al-Basil Fourteenth Exhibition of Inventions in Damascus-Syria on 15-20 July, 2009. Held under the auspices of the university of Commerce and Economics in collaboration with the Arab League and the Scientific Organization for intellectual property.
8. An honorable title conferred by the rector of Al-Nahrain University in Al-Salam Hall; it was conferred because of efforts made during the academic year 2008.
9. Participation in the celebration of the "Day of Science" held under the auspices of the minister of Higher Education in Iraq, held in Al-Shaheed Al-Hakeem's hall, University of Baghdad on Monday 6th of April, 2009 and given by the minister of Higher Education.
10. An honorable title conferred by the presidency of the Republic on the occasion of the Woman's Day in 2008. A title of honor has been received among notable academic women in Iraq.

Supervision of Researches and Memberships of Different Committees

1. The supervision of M.Sc. and Ph.D. theses of candidates from all universities in Iraq.
2. Membership of a co-ordination Committee with its twin U.S.A. committee within the frame-work of the project: " Together for Iraq's", and that was on December 6th, 2009. (Serial No.6/16252.).
3. Membership of a committee for planning the policies of scientific research of the

Scientific Council (for pure sciences only) according to the official order of the ministry of Higher Education No. 2258, dated on January 25th, 2009.

4. Membership of the Iraqi Scientific Research committee in the ministry of Higher Education according to the official order no.29847 dated on the 5th of November, 2009 until November 2011.
5. Membership of the committee for accepting and follow-up of the researches concerning Medical and Herbaceous Projects in the Ministry of Higher Education, according to the official order no.510 dated on 17th of January. 2010.
6. Membership of the bacteriophage committee, department of Research and Development, Ministry of Higher Education.
7. Membership of the Consultative committee of the IVSL, Ministry of Higher Education.
8. Head of the committee of deans of the colleges of Science in Iraqi Universities: December /2011-2014.
9. Membership of the (MEMBS) Middle east molecular biology sources 2016 .