Curriculum Vitae

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- 1. Date and place of birth: 14/8/1950, Baghdad, IRAQ.
- 2. B.Sc. in Agricultural Sciences (Plant Protection) 1972.
- 3. Assistant Agricultural Engineer/Protection and Fertilization officer/AL Sowara Farm / 1973-1975.
- 4. Assistant Agricultural Engineer /Protection and Fertilization officer/AL Niy Farm / 1975-1975.
- 5. Assistant Agricultural Engineer /Plant Disease Department/Organization for plant protection / 1975-1981.
- 6. Assistant Agricultural Engineer /Experimental Plant Protection Department / 1981-1983.
- 7. Assistant Scientific Researcher /Plant Protection Research Dept./ O.P.P/1983-1987
- 8. Scientific Researcher /Plant Protection Research Dept./O.P.P/ 1987.
- 9. Assistant Officer /Plant Protection Research Dept./O.P.P/1987-1989.
- 10.Officer /Plant Protection Research Dept./O.P.P/1989-1994.
- 11.Lecturer /Plant Protection Department/Agricultural College , University of Baghdad /1994-1998.
- 12. Assistant Professor /Plant Protection Department/Agricultural College, University of Baghdad /1998.
- 13. Assistant Dean, College of Agriculture, University of Baghdad 27.7.2003-7.2.2004.
- 14. Assistant Dean, College of Agriculture, University of Baghdad 1.7.2005-1.9.2005.
- 15. Assistant Dean, College of Agriculture, University of Baghdad 1.4.2006-1.6.2006.

Title of M.Sc. thesis: Using of Solar Heating For Soil Sterilization of Plastic Houses. 1983/ University of Baghdad. College of Agriculture.

Title of Ph.D thesis: Studies on Citrus Replaning Problem in Iraq. 1987/ University of Baghdad. College of Agriculture.

Undergraduate Croses:-

- 1. Fungi 3^{rd} year , Plant Protection Department .
- 2. Plant Disease 4th year, Agricultural Extension and Education.

- 3. Field Crop Disease 4th year, Field Crop Department and Plant Protection Dept.
- 4. Orchard and Veg. Diseases 4th year, Plant Protection and 3rd year Horticulture Departments.
- 5. Principles of plant protection 2nd year Horticulture Department.

Post graduate Croses:-

Advanced Plant Disease.

Alleopathy.

Seed Pathology Advance.

Mycology Advance.

Mycology Advance.

Epidemiology Advance.

Postgraduate students:-

- 1. Amal Abass AL-Fakri: Effect of The Infection of Grape Halwany cv. With Powdery Mildew on Its Storability .M.Sc.
- 2. Jinan Khazal Abdul Razzak: Studies on Tomato Stem–Canker Disease Caused by *Alternaria alternata* F.sp *Lycopersici*. M.Sc.
- 3. Samir Abdul Razzak Hassan Hamad :Effect of Some Plant Extract and Plant Growth Regulator in TYLCV in Tomato . M.Sc.
- 4. Nabil Jawad Kadhum: Effect of Dippling With Each of Garlic Extract, Calcium Chloride and Agrimycin-100 to Control Bacterial Soft Rot and Storability of Potato Tubers. M.Sc.
- 5. Bushra Subeer: Using Organic Mannure and Biological Conrol to Control Some Root Diseases in Cucumber . M.Sc.
- 6. Weleed Omran Hussain: Effect of *Alternaria alternata* Associated With Rice Seed in Seed Germination . M.Sc.
- 7. Sattar Aziz Shams Allah: Biological and Protectional Studies on Covered Smut Disease of Wheat in Iraq . M.Sc.
- 8. Ali Imad Mohamed: Epidomological Studies of Wheat Leaf Rust and Its Effects on Qualitative and Quantitive Characters of Grains. M.Sc.
- 9. Saad Tarik Abdul Malic: Studies in Intercropping in Vegetable Crops and Its Effect on Soil Fungi. M.Sc.
- 10. Hussain Salem: Storage Diseases of Kidny Beans . M.Sc.
- 11. Estabrak Mohammad Abdul Reda: Epidomological Studies of Downy Mildew of Onion. M.Sc.
- 12. Osama AL-Obaidy: Organic Manure Incomprated *T. hazianum* Against Soil Fungi *F. solani* and *R. solani*. M.Sc.
- 13. Yaser Bany: Using of Magnetic Water in Controlling of *P.aphanidermatum* on Cucumber . Ph.D.
- 14. Nadum Tarad: Study on Common Smut of Corn.Ph.D.

- 15. Ali Abas Qadhm: Effect of organic agric. on *R. solani* and its interaction with Bacterial inoculum / Ph. D.
- 16. Aiman Abdlstar: Study of transferred fungi with Agric. College Well's.M.Sc.

Scientific Paper:

- 1. House Garden Pests: State Organization For Extension 1989.
- 2. Leaflet on Pest and Disease Control Measure / The Agricultural Research Organization 1989.
- 3. Vegetable Diseases: State Organization Extension 2002.
- 4. House Garden: State Organization For Extension 2002.

Scientific Conference:

- 1. The Conference For Grain Protection in The Mediterranean Countries / Turkey /1979.
- 2. The Conference in Planting Under Controlled Conditions, Scientific Research Council / Iraq /1983.
- 3. The Conference in Agricultural Research / Iraq 1984.
- 4. The Scientific Research Conference / Iraq /1985.
- 5. The World Conference in Plant Pathology/Japan /1988.
- 6. Ciba Gaigi conference / Iraq /1989.
- 7. The8th Scientific Conference/The Agricultural Engineering Society/Iraq/ 1992.
- 8. The 1st Field Crop Conference / Iraq /1993.
- 9. Integrated Control of Plant Pest and Disease and Ecology Protection / Iraq /1995.
- 10. The Scientific Conference For The Biological Science Society AL Najaf / Iraq /1997.
- 11. The 6th Scientific Conference For Plant Protection/ Lebanon/1997.
- 12. The 7th Scientific Conference For Plant Protection/Jordan/2000.
- 13. The 3rd Scientific Conference in Agricultural Researches / Iraq / 2000.
- 14. The 1st Local Scientific Conference For Plant Protection / Iraq /2001.
- 15. The 4th Agricultural Scientific Science Conference/Jarash University/ Jordan /2001.
- 16. The 4th Scientific Conference For Agriculture Researches/Agri. Ministry /2002.
- 17. The 4th Scientific Conference For Dialla University/Iraq .2002.
- 18. The 2nd Iraqi conference for Plant Protection / Iraq /2002.
- 19. The 9th Scientific Conference For Plant Protection/Syria/2006.
- 20. The 6th Scientific Conference For Agriculture Researches / Agri. Ministry/2007.
- 21. The1st Scientific Conference for Agric. Res./Diala Univ./ 15-16 March/2009.
- 22. The 11th Annual Scientific Conference of the Univ. of Babylon/ 29-30 April/ 2009.
- 23. The 1st Conference of IPM/ Tishreen Univ./11-13 May/2009.
- 24. The 7th Scientific Conference For Agric. Res./Agri.Ministry/2009.

- 25. The 10th Arab Congress of Plant Protection /Beirut, Lebanon/2009.
- 26. The 3rd Scientific Conference in Agriculture College/ Univ. of Anbar/11-12/Dept./2010.

Societies and Committees Membership:

- 1. Iraqi Ministry of Agriculture/Plant Quarantine.
- 2. American Society For Plant Pathology.
- 3. Iraqi Society for Plant Protection.
- 4. Iraqi Ministry of Agriculture / Variety Evaluation Committee.
- 5. Iraqi Ecological Society.
- 6. Committee For Date palm Disease Investigation.
- 7. Arab Society For Plant Protection.

Training Courses:

Visiting Japanese Laboratories Sumitomo Company /two months 1988.

Other activities:

- 1. Lecturing For Training Courses in Eba Center, The Central Training Center. Ministry of Agriculture in Disease of Vegetable and Fruits and Agricultural Ouarantine.
- 2. Participation in Vegetable and Field Crop Cultivars Evaluation Carried Out By Iraq Ministry of Agriculture.
- 3. Participation in Foreign Pesticide Companies Activity in Iraq.
- 4. Evaluation of Reserval Papers For Different Scientific Journals.
- 5. Participation in The Examination of Post Graduate Student From University of Baghdad, Kadisa, Mousl, Babylon, Anbar, Basrah and Dhuok.
- 6. Evaluation of Patent.

Scientific Articles:

- 1. Fungal Toxeines: Iraqi Journal 1987 No. 1+2:34-39.
- 2. Viroid as a Disease Agent : Iraqi Journal 1988 NO. 1+2:70-75.
- 3. Citrus Gummosis: Iraqi Journal 1988 No. 3:46-49.
- 4. Atomen Blight of Citrus: Iraqi Journal 1989 No. 3:83-87.
- 5. Identification of Plant Disease : Iraqi Journal 1989 No. 4:77-81.
- 6. For Good Environment: Iraqi Journal 1990 No. 2:34-38.
- 7. Soil Sterilization By Solar Heating in Iraq: 1989 Arab .J.Pl.Prot.7:: 122 -125.
- 8. Minimizing of Pesticide in Greenhouse 2004: Iraqi Journal:. No. 2: 28-29.

Published Researches:

1- Mustafa,F.H.,M.S.Hasan and Hilal Jamil.1981.Survery of Seed Borne Disease in Iraq.Year Book of Plant Prot.2(2):7-17.

- 2- Mustafa, F.H., M.S.Hasan and Hilal Jamil. 1981. Survery of Pathogenic Agents on Newly-Harvested Seeds. Year Book of Plant Prot. 2(2):19-23.
- 3- AL-Beldawi, A.S., M.M.AL-Oda and M.S.Hassan. 1981. General Survey of Loose-Smut Disease on Barely and Wheat in Iraq. Year Book of Plant Prot. 2(2):25-36.
- 4- Hassan, M.S., F.H. Mustafa. 1981. Screening Some Fungicides Against Stinking Smut of Wheat. Year Book of Plant Prot.2(2):45-50.
- 5-AL-Beldawi, A.S.,H.M.Sheik Raddy,M.S.Hassan,M.M.Oda, and A.H.Bander. 1983. The latest Survey of The Covered Smut in Northern Iraq.Year Book of Plant Prot.3(2):205-213.
- 6- M.S.Hassan, A.H. Elbehadli, and M.A. Younis. 1983. Using of Solar Heating for Soil Sterilization and The Effect of Recovering Plastic Sheet on Tomato Plants . 1983. Iraqi . J. Agri. Sci. 18(1):261-271.
- 7- Hassan, M.S., and M.A. Younis. 1984. Cucumber Cultivation With Soil Solarization and Plastic Mulching. Arab. J. Pl. Port. 2:65-96.
- 8- Hassan, M.S., and M.A. Younis. 1985. Solar Sterilization of Soils in Plastic Houses in Central Iraq. J. Solar Energy Research. 3(1):1-10.
- 9- Samir ,S.H.,K.M.AL-Adil, and M.S.Hassan.1988.Comparison of The Effects of Glyphosate and Paraquat Herbicides on Johnsongrass (*Sorghum halepense*) .Iraqi.J.Agri.Sci.19(2):207-214.
- 10- Hassan, M.S. and Najla N.Askar. 1988. New Record of White Mold on Lettuce in The Open Field in Iraq. Basrah J. Agri. Sci. 2:85-87.
- 11-Hassan, M.S., A.H.EL-Behadli, I.S.AL Saadawi. 1989. Citrus Replant Problem in Iraq. I. Possible Role of Soil and Nematodes. Plant and Soil. 116: 151-155.
- 12-Hassan, M.S., I.S.AL Saadawi, and A.H.EL-Behadli. 1989. Citrus Replant Problem in Iraq. II. Possible Role of Allelopathy. Plant and Soil . 1161:157-160.
- 13-Hassan, M.S., A.H.EL-Behadli, and I.S.AL Saadawi. 1989. Citrus Replant Problem in Iraq. III. Interactive Effect of Soil Fungi and Allelopathy. Plant and Soil. 116:161-166.
- 14-Stephan, Z.A., M.S. Hassan, and Bassima G. Antoon. 1990. Seasonal Population Changes of The Citrus Nematode and Some Fungi on Different Citrus Trees in Iraq. Basrah J. Agric. Sci., 3 (1+2):47-64.
- 15-Hassan, M.S., A.K. AL-Molla, and I.D. AL-Mafragy. 1990. Testing of Brodeaux Mixture Against Downey Mildew of Cucumber Caused by *Pseudoperonospora cubensis* (BERK AND CURT) ROSTO. Iraqi J. Agri. Sci. 21(2):338-344.
- 16-Hassan, M.S., and M.AL-Khayat. 1990 Susceptibility of Some Apple Cultivars to Apple Scab Disease and Its Chemical Control in The Middle of Iraq. Iraqi J. Agri. Sci. 21(2): 329-337.
- 17-Hassan , M.S., Najla N.Askar , M.AL-Khayat and Margo Shamoail. 1991. Determination of The Inoculum Potential of Some Pathogenic Fungi Associated With Citrus Roots and Soil. Iraqi J. Agri. Sci. 22(1):199-204.

- 18-Hassan, M.S., Z.A. Stephan, Bassima G. Antoon, and Najlaa N. Askar .1991 Disease Complex in Cucumber Caused By *Meloidogyne javanica* and *Rhizoctonia solani* .Iraqi J, Agri.Sci.22(2):71-76.
- 19-Hassan , M.S., S.S. Saadaldin , and M.O.AL-Muathidi.1992.Pests Survey on Imported Tubers For The Season 1987-1988 and 1989-1990.8th Scientific Conference /Agri.Eng.Soc.:507-516.
- 20-Stephan, Z.A., M.S.Hassan ,N.Yousif , and Bassima G.Antoon. 1993. Effect of Interaction Between *Meloidogyne javania* , *Pythium aphanidermatum* and *Rhizobium leguminosarum* on Faba Bean. Basrah J. Agri.Sci.6(1):17-24.
- 21-Stephan ,Z.A.,M.S.Hassan ,H.H.AL-Zahroon ,B.G.Antoon , and M.SH.Georgess. 1996. Effect of Root-Knot Nematodes –Fusarium Wilt Disease Complex on Tomato Roos and Their Biological and Chemical Control.Iraqi. Agri.J.1(1):71-80.
- 22-Hassan, M.S., and K.M.Aish.1997. New Fungicides to Control Apple Scab in the Middle of Iraq. Iraqi Agri. J., 2(1):79-87.
- 23-Stephan ,Z.A. ,A.K.Abdal-Hadi , and M.S.Hassan. 1999.Disease Complex Between Citrus Root Nematodes *Tylenchlus semipenetrans* and the Fungus *Rhizoctonia solani* on Some Citrus Rootstocks .Iraqi .J.Agri.4 (1):200-207.
- 24-Stephan ,Z.A.,M.S.Hassan,H.I.Abbass, and B.G.Antoon.1999. Influence of Vesicular –Arbuscular Mycorhizae on Wilt –Root Knot Disease Complex of Eggplant and Tomato Seedlings.Iraqi J. Agri. 4(4):54-60.
- 25-Jasem,R.H.,A.S.Shaker, and M.S.Hassan.1999.Evaluation of The Performance of Tomato Hybrid Resistant to Tomato Yellow Leaf Curl Virus(TYLCV) Disease .Iraqi J. Agri.Sci.,30(2):251-258.
- 26-Stephan , Z.A., M.S.Hassan, A.I.Hammadi, and B.G.Antoon. 2000. New Race of Wheat Gall Nematode *Anguina tritici* and Susceptibility of Some Cultivars to This Race. Iraqi J. Agri. 5(6): 1-5.
- 27-AL-Beldawi, M.S.Hassan, and S.Shamseldin. 2000. Diagnosis Study of Some Decline Cases of Date Palms. Emir. J. Agri. Sci., 12:33-44.
- 28-Stephan, Z.A., R.T. Jassim, and M.S. Hassan. 2001. Effect of Different Factors on Infection by Root–Knot Nematode (*Meloidogyne javanica*) on Faba Bean Crop. Dirasat. Agri. Sci., 28(1):106-110.
- 29-Hamadi, A.I., M.S. Hassan, and S.A. Shamisallah. 2001. First Record of Foliar Disease of Leaves, Buds and Stems of Celery Caused by *Aphelenchoides ritzemabosi* in Iraq. Iraqi J. Agri., 6(2):161-165.
- 30-Hassan, M.S., A.A.AL-Fakri, and A.H.EL-Behadli. 2001. Effect of the Infection of Grape Halwany Cv. With Powdery Mildew on Its Storability. AL-Teqni. J., 80:154-161.
- 31-Hassan, M.S., N.N.Hama, A.K.AL-Taae, S.A.Shamis Aldin, and M. Saleih .2001. Production of Fingicide Against Wheat Bunt From Local Materials .J.Tikrit Agri.Sci., 1(7):79-85.

- 32-Hassan , M.S. 2001. Studies on Cowpea Root and Stalk Rot Caused by *Macrophomina phaseolina* (Tassi) Gold.Iraqi J.Agri.Sci.32(5): 151-154.
- 33-Hassan, M.S. 2001. Evaluation of Cuzin-S In Controlling Tomato Early Blight. Iraqi J. Agri. Sci. 32 (5):155-156.
- 34-AL-Aameri, N.J., M.S. Hassan and S.M. Jamil. 2002. Utilization of Garlic Bulb Extract Protection of Potato Tubers From Bacterial Soft Rot Disease . Iraqi J. Agri., 7(5):105-113.
- 35- Abdalrazak, J.K., and M.S. Hassan. 2002. Isolation and Identification of *Alternaria alternata* f.sp. *lycopersici* Causal Agent of Tomato Stem Canker in Iraq. Iraqi J. Agri. Sci., 3(2):98-100. ((Ninava))
- 36-Hassan, M.S., and J.K. Abdalrazak. 2002. Primary Infection, Cultivars Reaction and Control of Tomato Stem Canker Caused by *Alternaria alternata* f.sp. *lycopersici*. Basrah J. Agri. Sci., 15(4):151-160.
- 37-Stephan, Z.A., M.S.Hassan and I.K.Hassoon. 2002.Efficacy of Fenamiphos, *Trichoderma harzianum*, *Paecilomyces lilacinus* and Some Organic Soil Amendments in The Control of Root –Knot and Root-Rot /Wilt Disease Complex of Eggplant .Arab J.Pl.Prot. 20(1):1-5.
- 38-Hassan, M.S. 2002. Efficacy of Two Isolates of *Rhizoctonia solani* to Infect Cabbage , Cauliflower , Pepper and Eggplant Seedling In Varius Ages .AL-Teqni J. , 98:122-128.
- 39-Hassan ,M.S., B.S.EL-Maliky , and A.S. AL-Quaiti.2003. Using of Animal Manure and *Trichoderma harzianum* in Controlling *Pythium aphanidermatum* on Cucumber .Iraqi J.Agri.,8(3):96-103.
- 40-EL-Maliky,B.S.,M.S.Hassan, and A.S.AL-Quaiti.2003.Effect of Animal Manure on *Pythium aphanidermatum* a Causal Agent of Cucumber Seed Rot and Seedling Death.Iraqi J.Agri.Sci.,34(3): 173-180.
- 41-Hassan, M.S.,B.S. EL-Maliky, and A.S.AL-Quaiti.2003.Integrated Control of Cucumber Damping off Caused by *Pythium aphanidermatum (Edson)* Fitz.Iraqi J.Agri. Sci. ,4(3):135-139 ((Ninava)).
- 42-Hassan, M.S. 2003. Using of Garlic Bulbs Extract to Control Some Pathogenic Fungi. Iraqi J. Agri. Sci., 4(2)42-44. ((Ninava))
- 43- Hassan, M.S. 2006. Controlling of Wheat Covered Smut by Sulfur Foam. AL-Anbar J. Agri. Sci., 4(2):253-256.
- 44-Hassan, M.S., W.O.Hussain, and H.M. Salih .2006.Effect of *Alternaria alternata* Associated With Rice Seeds on Seed Germination. Iraqi J.Agri. Sci.,37(2):81-86.
- 45- Hassan, M.S., W.O. Hussain, and H.M. Salih. 2006. Seed Borne Fungi Associated With Some Rice Cultivars Seeds in The Middle of Iraq. Iraqi J. Agri. Sci., 37(6):105-108.
- 46- Hassan, M.S., W.O. Hussain, and H.M. Salih. 2006. Chemical and Physical Control of *Alternaria alternata* Associated With Rice Seeds . J.AL-Qadisiya 11(2):80-88.

- 47- Al-Maaroff , E.M. , S.A. Shams Allah and M.S. Hassan .2006. Carrent status of wheat bunt disease in Iraq . Czech J. Genet. Breed. , 42:45 50 .
- 48- Hassan, M.S., S.A.R. Hamad and R.A. Hamad .2007. Effects of Some Plant Growth Regulator and Plant Extracts in Inhibition of *Tomato Yellow Leaf Curl Begomovirus*. Iraqi .J. Agri., 12(1): 75-81.
- 49- Hassan, M.S., H.A.S. Alrubiayi. 2007. Effect of the use of some treatments on storage characters and infection severity of some rot causing fungi on green bean fruits under 12 18°c.. AL-Anbar J. Agri. Sci., 5(2):
- 50- Hassan, M.S., M.Y., Youssef and S.M.Jamel.2007. Effect of some Fungal Pathogen and Some Storage Treatments on Tomato and Cucumber Fruits Under Cold Storage (8°). J. Um-Salama. (in press).
- 51- Hassan, M.S. 2008. Chemical Control of Apple Branch Wilt Disease Caused by *Hendersonula toruloidea* Nattrass. J. AL- Qadisiya for Pure Sci. 13(2):63-66.
- 52- Hassan, M.S. and H.A. Alrubaiyi.2009. Storage of Green Bean at 4° c and its Fungal Rot Causal Agents. AL-Taqani J.22(1):238-345.
- 53- AL-Kazrajy, Y.E. and M.S. Hassan.2009. The effect of salicylic acid and Tashegazol fungicide in protection of cucumber plant from infection by *Pythium aphanidermatum* (Edson) Fitz in Green House Condition. AL-Anbar J. Agric. Sci. 7(2):192-201.
- 54- Hassan, M.S. and Estabraq M. AL-Kanaany.2009. Pathogenicity of pathogenesis of onion downy mildew caused agent *Peronospora destructor* (Berk.) Casp. Iraqi J. Agric. 14(3):22-27.
- 55- Hassan , M.S., M.Y. Youssef and S.M. Jamel. 2009. Causal Agents of Tomato and Cucumber Fruits Rot Under Cold Storage 4 °c. Diala J. Agric. 1(1):117-122.
- 56- Salim, H.A. and M.S. Hassan. 2009. Efficiency of Some Storage Packages to Protect Green Bean Pods Under 8 °c. Diala J. Agric. 1(1):224-230.
- 57- Hassan, M.S., A.I. AL-Azawe and E.M.AL-Maarof.2009. Development of wheat rust and determine the resistant genes in bread and durum wheat in the middle region of Iraq. AL- Anbar J. Agric. Sci. 7(3):159-170.
- 58- Hassan, M.S., A.I.AL-Azawe and E.M.AL-Maarof.2010. Host Response of Some Bread and Durum Wheat Toward Leaf Rust and Effects of Planting Date on Disease Severity. J. Tikrit University for Agric. Scie. 10 (1): 145-155
- 59- Salim ,H.A. and M.S.Hassan.2010. Effect of Different temperature degree on fungi which causes rot of green bean pods after storage. Diyala J. for Pure Sciences.6(1):259-274.
- 60- Hassan, M.S. and Estabraq M. AL-Kanaany.2010. Effect of Some Agricultural and Chemical Managements on Epidemic of Onion Downy Mildew in Iraq. AL-Fowrat J. In Press.

- 61- Hassan, M.S.and H.A.A. ALrubaiayi. 2010. New Packages to Prolong the Storage Period of Green Bean Pods Under 4 ° C .J. AL-Qadisiya / Pure Sciences. In Press.
- 62- Hassan, M.S. and Y.A.AL-Khazraje. 2010. Integrated Control of *Pythium aphanidermatum* on Cucumber by Magnetic Water, Techazol and Salicylic Acid. J. Babilon Univ10(1):145-155.
- 63- Hassan, M.S. and S.A. ShamsAllah.2010. Dissemination of Wheat Covered Smut in Iraq. AL-Anbar J. Agric. Sci. In Press.
- 64- Hassan, M.S. 2010. Evaluation of some fungi and water extract of some organic manure efficacy in controlling of *Rhizoctonia solani* on Tomato. Diyala J. for Pure Sciences. In Press.
- 65- Hassan , M.S., S.A. ShamsAllah , and E.M.AL-Maarof. 2010. Susceptibility of some hard and soft wheat cultivars for covered smut and its control. AL-Rafiden J. for Agric. In Press.
- 66- Hassan, M.S. Integrated Control of *Fusarium solani* on Tomato. J. Tikrit Agric. Sci. In Press.
- 67- Hassan , M.S., M.R. AL-Ani and A.N.AL-Baghdadi. 2010. Effect of Foliar Application with Cu and Zn in Gummosis of Some Citrus Root Stocks.J. Tikrit Agric. Sci. In Press.