

Curriculum Vita

Professor Farkad A. Fattah Al-Rawi, PhD
E-mail: farkad.fatah@gmail.com



<u>Date & Place of Birth</u>	Anbar, Iraq, 1949
<u>Nationality</u>	Iraqi
<u>Marital Status</u>	Married with Five Children
<u>Education</u>	Ph.D. , Biology, Simon Fraser University, B.C., Canada, 1983 M.Sc., Biology, University of Baghdad, Baghdad, Iraq, 1974 B.Sc., Botany, University of Baghdad, Baghdad, Iraq, 1971
<u>Positions Held</u>	
<u>2003 - Present</u>	Professor, Department of Plant Protection, College of Agriculture, University of Baghdad, Iraq
<u>2003 – 2003</u>	President, University of Wassit, Iraq
<u>2008 – 2009</u>	Vice President, The Syrian University for Science and Technology, Syria
<u>1998 – 2003</u>	Dean, College of Agriculture, University of Baghdad, Baghdad, Iraq
<u>1995 – 1998</u>	Head, Department of Biotechnology, Agriculture and Biology Research Center, Iraqi Atomic Energy Commission
<u>1993 – 1995</u>	Chief Scientific Researcher and Director of the Biological Control Project, Agriculture and Biology Research Center, Iraqi Atomic Energy Commission
<u>1990 – 1993</u>	Post Doctorate Fellow, International Center for Genetic Engineering and Biotechnology, New Delhi, India
<u>1988 – 1990</u>	Head, Section of Plant Pathology, Agriculture and Biology Research Center Iraqi Atomic Energy

Commission

1985 – 1988

Senior Scientific Researcher, Agriculture and Biology Research Center, Iraqi Atomic Energy Commission

1984-1986

Scientific Researcher, Agriculture and Biology Research Center, Iraqi Atomic Energy Commission

1984 – 1984

Lecturer, Department of Plant Protection, College of Agriculture, University of Baghdad

1976 – 1977

Assistant Lecturer, Department of Plant Protection, College of Agriculture, University of Baghdad, Iraq

1974 – 1976

National Service

Societies Memberships

Society of Nematologists, USA

Arab Plant Protection Society, Lebanon

Iraqi Biological Society (Vice presidents)

Iraqi Microbiological Society

Editorial Committees

Editor In Chief, Iraqi Journal of Agricultural Science, 1998-2003

Editor, IPA Journal of Agricultural Sciences, 1995 – 2003

Courses Taught

Graduate Courses

Biological Electron Microscopy

Advanced Nematology (Plant Parasitic)

Physiological Plant Pathology

Cell Biology

Technical English for Agriculture

Research Methods

Undergraduate Courses

Plant Pathology

Plant Physiology

Nematology (Plant Parasitic)

Human Genetics

Cell Biology

Research & Teaching Assistant

RA & TA, Department of Biosciences, Simon Frazer University, 1977-1983

TA, Department of Biology, University of Baghdad, 1971-1974

Graduate Theses Supervised

15 M.Sc. and 14 Ph.D. Theses

External Examiner of 20 M.Sc. and 15 Ph.D. Theses

Research Interest

Biological Control of Plant Pathogens
Host Parasite Relationships of The Root - Knot Nematodes
Biological Electron Microscopy
Nematode –Fungus Interaction

Publications

1. **Fattah, F.A.** and J.M. Webster. 1983. Ultrastructural changes caused by *Fusarium oxysporum* f. sp. *Lycopersici* in *Meloidogyne javanica* induced giant cells in *Fusarium* resistant and susceptible tomato cultivars. Journal of Nematology 15: 128-135. USA
2. **Fattah, F.A.** and J.M. Webster. 1984. Fine structure of the giant cells induced by *Meloicogyne javanica* in lima bean. Canadian J. of Botany 62: 429-436. Canada
3. **Fattah, F.A.** 1988. Chitinolytic activity of fungi associated with females and eggs of the citrus nematode, *Tylenchulus semipenetrans* J. of Agric. and Wat. Reso. Res. 7: 1-9. Iraq
4. **Fattah, F.A.** 1988. Effects of inoculation methods on the incidence of ear-cockle and "tundu" on wheat under field conditions. Plant and Soil 109 : 195-198. Netherland
5. **Fattah, F.A.** 1986. Occurrence of spike blight (Tundu) disease on wheat in Iraq. Proc. of the 4th Scien. Conf. SRC 1: 1514-1519. Iraq
6. Sabri, A.W. and **F.A. Fattah**, 1986. Observations on nematoda population in river Tigris. J. of Biol. Sci. Res. 19: 109-116. Iraq
7. Al-Samarria, F.H., A.H. EL-Bahadli and **F.A. Fattah**. 1988. Comparison between effects of soil disinfestation methods on some pathogens of cucumber. Arab J. Pl. Prot. 6: 106-112. Lebanon
8. Al-Samarria, F.H., **F. A. Al-Rawi** and A.H. EL-Bahadli 1988. Reinfestation of soil after different disinfestation treatments. Arab J. of Pl. Prot. 6: 113-118. Lebanon
9. Al-Samarria, F.H., A.H. EL-Bahadli and **F.A. Al-Rawi**. 1987. Effects of soil disinfestation methods and biocontrol agents on reinfestation with plant pathogens. Proc. of the 5th Conf. SRC. Iraq
10. **Fattah, F.A.** 1989. Histopathology of nematode and bacteria colonized galls induced by *Anguina tritici* in wheat. J. of Biol. Sci. Res. Iraq
11. **Fattah, F.A.** 1989. Parasitism of citrus nematode, *Tylenchulus semipenetrans* by *Pasteuria penetrans* in Iraq. Journal of Nematology 21: 431-433. USA
12. **Fattah, F.A.** 1989. Occurrence of a bacterial parasite *Bacillus penetrans*) on *Meloidogyne* spp. in Iraq. Iraqi J. of Agric. Sci. Iraq
13. Kgzal, M.A. and **F.A. Fattah**. 1989. The importance and possible causes of female sterility in sweet lemon trees in Iraq. J. of Agric. Sci. Iraq
14. Al-Tamimi, K.M., **F.A. Fattah** and M.A. Al-Hamdany. 1989. Shoot apex faciation in *Sesumum indicum* associated with mycoplasma like organisms. Plant Pathology 38: 300-304. England

15. **Fattah, F.A.** 1990. The role of *Fusarium solani* in citrus decline. Iraqi J. of Biology, Iraq
16. **Fattah, F.A.** 1989. The role of the root-knot nematode in date palm decline. Proc. 1st Int. Conf. on Palm and Palm Products, Nigeria, Nigeria
17. Aboud, H.M. and **F. A. Fattah.** 1989. The effect of *Trichoderma* isolates on some plant growth parameters and parasitism of nematode eggs. Proc. 1st Int. Conf. on Biological Control, Turkey, Turkey
18. **Fattah, F.A.** and J.M. Webster. 1989. Ultrastructural modifications of *Meloidogyne javanica* induced giant cells caused by fungal culture filtrates. Rev. de Nematol. 12: 197-210, France
19. **Al-Rawi, F.A., AL-Ani, R.A. and M.M. Jergice.** 1990. Mycoplasma like organisms associated with *Lactuca serriola* L. phyllody. Arab J. Pl. Prot. 8: 45-48, Lebanon
20. Aboud, H.M, Saleh, H.M, **Fattah, F.A.** and H. A. Hadwan. 1992. *Trichoderma viride* as biocontrol agent of root-knot nematode. Iraq. J. Agric. Sci. 23: 1992, Iraq
21. **Fattah, F.A., H.M. Aboud and H.M. Saleh.** 1992. The use of rooted leaves technique in the biological control of the citrus nematode, *Tylenchulus semipenetrans*. Proc. of the Sci. Soc. Conf. Baghdad, Iraq, Iraq
22. Saleh, H.M., Aboud, H.M. and **F. A. Fattah.** 1992. Biological and chemical control of the plant parasitic nematode, *Meloidogyne javanica*. Iraqi J. Agric. Sci. 23: 20-25, Iraq
23. Al-Jibouri, A.A.M, **F. A. Fattah**, I. S. Al-Sadawi, M. Selbi and M. Kgazal. 1990. Morphometrics and scanning electron microscopy of pollen of date palm (*Phoenix dactylifera* L.). Arab Gulf J. Sci. Res. 8: 109-117, KSA
24. Kagazal , A. M., **F. A. Fattah** and A.A.M. AL-Jibouri, 1990. Bisexuality in the date palm in Iraq. J. Islamic Acad. Sci. 3: 131-133, Turkey
25. **Al-Rawi, F.A.** and R. A. Al-Ani. 1991. Ultrastructural changes in tomato phloem cells caused by curly top virus infection. Arab. J. Pl. Prot. 9: 38-46, Lebanon
26. **Fattah, F.A., Saleh, H.M. Aboud, H. M. and M. A. Kgazal.** 1989. Pathological effects of the root-knot nematode *Meloidogyne* spp. on date palm seedlings. Proc. Int. Conf. on Palm and Palm Prod., Nifor, Benin City, Nigeria, Nigeria
27. **Fattah, F.A., A. A. Al-Ammar and I. A. Al-Suhaily.** 1991. Effects of *Septoria tritici* on the ultrastructure of leaf cells in susceptible and resistant wheat. Arab. J. Pl. Prot. 9: 32-37, Lebanon
28. **Fattah, F.A., Saleh, H. M. and Aboud, H. M.** 1992. Efficiency of three host plants for mass production of *Pasteuria penetrans*. Iraqi J. Microbiol. Iraq
29. Saleh, H. M. and **F.A. Fattah.** 1990. Studies on wheat seed gall nematode. Nematol. Medit. 18: 59-62, Italy
30. Saleh, H. M. and **F.A. Fattah.** 1989. Reaction of wheat genotypes to infection by *Anguina tritici*. Rev. de Nematol. 12: 429-431, France

31. Aboud, H. M., Saleh, H. M. and **F.A. Fattah**. 1991. Interaction of some fungi and root-knot nematode, *Meloidogyne javanica* on date palm seedlings. **Iraq**
32. Saleh, H. M., H. M. Aboud and **F.A. Fattah**. 1991. Reaction of wheat variants to seed gall and spike blight (tundu). Rev. de Nematol. France
33. Al-Ani, R. A. and **F.A. Fattah**. 1991. Inclusion bodies in broadbean plants infected with leaf curl and roll disease and its role in the identification. Iraqi J. Agric. Res. 22: 180-186. **Iraq**
34. Majumder, K., **F. A. Fattah**, A. Selvapandyan and R. K. Bhatnagar. 1995. Background-minimized cassette mutagenesis by PCR using cassette-specific selection marker: A useful general approach for studying structure-function relationships of multisubstrate enzymes. PCR Methods and Applications 4: 212-218. **EUR**
35. Majumder, K., A. Selvapandyan, **F. A. Fattah**, N. Arora, S. Ahmad and R.K. Bhatnagar. 1995. 5- enolpyruvyl-shikimate-3- phosphate synthase of *Bacillus subtilis* is an allosteric enzyme. Analysis of Arg 24 → ASP, Pro 105 → Ser and His 385 → Lys mutations suggests a hidden phosphoenolpyruvate-binding site. Eur. J. Biochem. 229: 99-106. **EUR**
36. Selvapandyan, A., K. Majumder, **F. A. Fattah**, S. Ahmed, N. arora and R. K. Bhatnagar. 1995. Point mutation of a conserved arginine (104) to Lysine introduces hypersensitivity to inhibition by glyphosate in the 5-enolpyruvylshikimate-3- phosphate synthase of *Bacillus subtilis* . FEBS Letter 374: 251-256. **EUR**
37. **Fattah, F. A.**, H. M. Aboud and H. M. Saleh. 1996. Encapsulation of three biocontrol fungi in alginate pellets for control of citrus nematode, *Tylenchulus semipenetrans*. IPA J. of Agric. Res. 6: 213-220. **Iraq**
38. Aboud, H. M., H. M. Salih and **F. A. Fattah**. 1996. Induced benlat tolerant mutants of *Paecilomyces lilacinus*. Third Arab Conf. on the Peac. Uses of Atom. Energ., Damascus 9-13 Dec. AAEA. Syria
39. Ali, A. M., R. A. Al-Ani and **F. A. Fattah**. 1998. Purification and serological studies of fig mosaic and yellow vein banding viruses. Iraqi J. Agric. Sci. 30: **Iraq**
40. Saleh, H. M., **F. A. Fattah** and R. A. Al-Ani. 1999. Threshold level of the bacterium *Pasteuria penetrans* on *Meloidogyne javanica* juveniles on tomato. Arab. J. Pl. Prot. 17: 88-91. **Lebanon**
41. Juber, K. S., R. A. AL-Ani and **F. A. Fattah**. 1999. Effect of the interaction between root-knot nematode *Meloidogyne javanica* and the fungus *Fusarium solani* on eggplant (*Solanum melongena* L.). Iraq J. Agr. Sci. 30: 407-420. **Iraq**
42. Yousef S. A. and **F. A. Fattah**. 1999. Propagation of neem plant (*Azadirachta indica* L.) by tissue culture (Research Note). Derasat Agric. Sci. 26: 287-291. **Jordan**
43. Juber, K. S., R. A. AL-Ani and **F. A. Fattah**. 2000. Biological control of the root-knot nematode, *Meloidogyne javanica* and *Fusarium solani* disease complex on eggplant. Almustansria J. of Sci. 11: 29-41. **Iraq**

- 44.** Juber, K. S., R. A. AL-Ani and **F. A. Fattah**. 1998. Effect of root and stalk rot pathogens on eggplants (*Solanum melongena*). Arab J. Agric. Res. 2: 171-188. **Sudan**
- 45.** **Fattah, F. A.** 2000. Biological control of weeds by microorganisms. First Nat. Workshop on Biol. Cont. of Agric. Pests. Iraqi Atomic Energy Commission, Baghdad. Iraq
- 46.** Al-Fadhl, F. A., R. A. AL-Ani, A. N. Al-Shamri and **F. A. Fattah**. 2000. Cultivation and growing of suada witch's broom phytoplasma in synthetic media. Arab J. Agric. Res. 5: 260-274. **Sudan**
- 47.** Al-Ani, R. A., F. A. Al-Fadhl, **F. A. Al-Rawi** and A. N. Al-Shamri. 2001. Serological relationship between suada witch's broom phytoplasma and those infecting some crops and weed plants in Iraq. Arab J. Pl. Prot. 19: 59-64. **Lebanon**
- 48.** **Al-Rawi, F. A.**, F. A. AL-Fadhl and R. A. Al-Ani. 2001. Histological methods for detection and monitoring distribution of phytoplasma in some crops and weed plants in central Iraq. Arab. J. Pl. Prot. 19: 3-11. **Lebanon**
- 49.** Yosef, S. A. and **F. A. Fattah**. 2001. Neem propagation. J. of Tikrit Univ. for Agric. Sci., Special Issue 1: 218-227. **Iraq**
- 50.** Aboud, H. M., A. A. Al-Heeti, **F. A. Fattah** and H. M. Saleh. 2002. Effect of chitosan on some biological activities of *Fusarium oxysporum* f. sp. *lycopersici* Snyd. & Hans. Arab J. Pl. Prot. 20: 29-33. **Lebanon**
- 51.** Jbara, I. M., **F. A. Al-Rawi** and Z. A. Stephan. 2003. Determining the best application of the biopesticides Tahadi and Sumod for controlling tomato infection from root-knot nematode. Iraqi J. Agric. (Special Issue). 8: 24-34. **Iraq**
- 52.** Stephan, Z. A., I. M. Jbara and **F. A. Al-Rawi**. 2003. Effect of soil moisture content and thermal treatment on the activity of bioagent fungi *Trichoderma harzianum* Rifai and *Paecilomyces lilacinus* (Thom) Samson on some tomato plant growth parameters. Arab J. Pl. Prot. 21: 1-5. **Lebanon**
- 53.** Jbara, I. M., Z. A. Stephan and **F. A. Al-Rawi**. 2003. Ability of biopesticides Tahadi and Sumud to survive in the soil and the effect of pasteurization on their efficacy under green house conditions. Iraqi J. Agric. (Special Issue) 8: 111-120. **Iraq**
- 54.** Al-Zawbaii, I. A., **F. A. Fattah** and A. I. Al-Meshedani. Pathogenecity study of some *Fusarium* species and susceptibility of some potato cultivars. Arab J. Pl. Protec. **Lebanon**
- 55.** **Fattah, F. A.** 2004. Breeding tomato, *Lycopersicon esculentum* Mill., for resistance to root-knot nematodes in Iraq. Iraqi J. Agric. Sci. **Iraq**
- 56.** Fattah,F.A.and K.Al-Assas.2010. Histopathological comparison of galls induced by *Anguina tritici* with galls subsequently colonized by *Ratheyibacter tritici* in wheat.Nematol. medit.38: 173-177. **Italy**
- 57.** Fayadh, A. H., Al-Maaroof, E. M. and **F.A.Fattah**. 2013. Induced resistance to wheat yellow rust by chemical inducers. J.Biol.Agric.and Healthcare.3:56-63.
- 58.** Muttar,S.and **F.A.Fattah**. 2013.Induced systemic resistance to *Meloidogyne* Spp by β,amino butyric acid in tomato.Agricultural Resaearch.4:608-613. **China**

- 59.** Muttar,S.and **F.A.Fattah.** 2013. Red light-induced systemic resistance to root knot nematodes in tomato J.Biol.Agric.and Healthcare.3:110-114. **China**
- 60.** Muttar,S.and **F.A.Fattah.** 2013.Induced systemic resistance in tomato to *Meloidogyne* Spp by seed treatment with β ,amino butyric and Benzothiazol. J.Biol.Agric.and Healthcare.3: 49-55. **China**
- 61.** Muttar,S.and **F.A.Fattah.** 2014. Induced systemic resistance in tomato,*Solanum lycopersicon* to root knot nematodes by Benzothiazol. J.Biotech.Cent.(in press). **Iraq**
- 62.** **Fattah, F.A.** and A.Alton. 2014. Host-parasite relationship of *Pasteuria penetrans* and *Meloidogyne* Spp at the molecular level. The Iraqi J.Agric.Scie. (in press). **Iraq**
- 63.** Saleh, H.M., H.M. Aboud , M.A. Kgzal and **F.A. Fattah.** 2014. Histopathology of root knot nematodes and interaction of *Meloidogyne javanica* with *Fusarium* sp. and *Thelaviopsis paradoxa* on date palm, *Phoenix dactylifera* seedlings. Date Palm Journal. **Iraq**