

RESUME

ZUHAIR AZIZ STEPHAN
2571 Old Quarry Rd.
Apt.# 2006
San Diego, California 92108
Tel. 619-504-3636 Cell
619-280-4940 Home
zuhairstephan@yahoo.com

1- Date & Place of Birth, Native Country:

12 / 10 / 1942 Baghdad, Iraq. Iraqi

2- Educational Qualifications:

- a- B.Sc. Agriculture College, Baghdad University, Baghdad, Iraq, 1965.
- b- M.Sc. Macdonald College, McGill University, Montreal, Canada, 1980.
- c- Ph.D. Dundee University, Dundee, Scotland, UK., 1983.

3- Field Speciality:

- a- Major Speciality : Plant Pathology.
- b- Minor Speciality : Plant Nematology.
- c- Research Experience: 40 years.
- d- Teaching Experience: 30 years.

4- Contribution in the Field of ResearchSpecialization:

- a- Collaborator for the International Meloidogyne Project (IMP), a world wide net work of Nematologists coordinated by Dr.J.N.Sasser of North Carolina State University.
- b- Collaborator Expert Consultation on Plant Nematode problems and their control in the Near East Region.

5- Recent Advance made in the Field of Research Specialization:

For the **First time** in the world and Iraq, **New Races** of the Root knot nematode, *Meloidogyne javanica* and Ear-Cockle Nematode *Anguina tritici* were identified.

6- Number of Students Guided:

- a- Jamal Fadhil Wuhaib Al-Obeidy, M.Sc., 1985.
- b- Hussain Ali Al-Saaedy, M.Sc. 1985.
- c- Riyadh Talib Jassim, M.Sc. 1998.
- d- Iftikhar Mossa Jbarra, M.Sc. 2002.
- e- Bassima George Antoon, M.Sc., 2005.
- f- Ahmad Kadhim Abd Al-Hadi, Ph.D., 1998.

7- Professional Training Courses:

- a- Expert counterpart with Dr.A.R.Maggenti, University of California (1965-1966) , 8 months.
- b- In the Department of Nematology, Cairo University, Egypt (1968-1969), 3 months.
- c- Expert counterpart with Dr.A.Vilardebo, FAO Expert (1969), 9 months.
- d- In Station de Recherches sur les nematode, Antibe, France. (1970-1971), 6 months.

8- Professional Scientific Conferences Attended:

- a- First Scientific Conference, Ministry of Higher Education and Scientific Research, Baghdad, Iraq. 1972.
- b- First Plant Pathology Conference, Cairo, Egypt. 1973.
- c- Nematode Transmitting Virus Diseases Conference, Bari, Italy. 1974.
- d- Second Scientific Conference, Ministry of Higher Education and Scientific Research, Baghdad, Iraq. 1975.
- e- Iraqi Agricultural Engineering Union, Baghdad, Iraq. 1975.
- f- Eighth International Plant Protection Conference, Moscow, USSR. 1976.
- g- Planning Conference for the Middle East Center, International Meloidogyne Project (IMP), Cairo, Egypt. 1978.
- h- Planning Conference for the Middle East Center, International

- Meloidogyne Project (IMP), Athens, Greece. **1979.**
- i- Concepts in Nematode Systematics, Cambridge, UK. **1981.**
 - j- Sixth International Symposium of the European Society of Nematologists. St. Andrews, Scotland, UK. **1982.**
 - k- First Scientific Conference of the State Board for Agricultural Research, Ministry of Agriculture, Baghdad, Iraq. **1984.**
 - l- Nematodes parasitic to cereals and legumes in Temperate and Semi-Arid Regions. Larnaca, Cyprus. **1987.**
 - m- First International Conference on soil solarization. Amman, Jordan. **1990.**
 - n- Expert consultation on the nematode problems and their control in the Near East Region, Karachi, Pakistan. **1992.**
 - o- Twenty-second International Symposium of the European Society of Nematologists. Gent, Belgium. **1994.**
 - p- Regional training course for organizing research management, Cairo, Egypt. **1996.**
 - q- First Conference of Biology. College of Ibn Al-Haitham, Baghdad University. **1998.**
 - r- First Scientific Conference of the Agricultural Research. Ministry of Agriculture, Baghdad, Iraq. **1998.**
 - s- Seventh Arab Congress Society of Plant Protection, Amman, Jordan. **2000.**
 - t- First National Workshop on Biological Control of Agricultural Pests. Baghdad, Iraq. **2000.**
 - u- Third Scientific Conference of the Agricultural Research. Ministry of Agriculture, Baghdad, Iraq. **2000.**
 - v- Workshop and collaborative project planning meeting on biological control of pests and weeds for sustainable development, Bangalore, India. **2001.**
 - w- Fourth Scientific Conference of the Agricultural Research. Ministry of Agriculture. Tikreet, Iraq. **2002.**
 - x- Fifth Scientific Conference of the Agricultural Research. Ministry of Agriculture, Mosul, Iraq. **2003.**
 - y- Study Tour to Australia. **2003.**
 - z- Study Tour to United State of America. **2004.**

9- Other Scientific Activities:

- a- Member of the committee to import potatoes from France, **1986.**
- b- Member of the editorial board of Biovid Agricultural Journal in India. **1990.**
- c- In-Charge of Agricultural Pests control sector for the National Program to improve the cultivation and yield of tomato in Iraq (1996-2004).
- d- Lecturer for under-graduate students in the College of Agriculture, Baghdad University, Baghdad.
- e- Lecturer for graduate students in the College of Agriculture, Baghdad University, Baghdad.
- f- Lecturer in the Training Agricultural Center, Ministry of Agriculture, Baghdad, Iraq.
- g- Chairman of the reprints committee for scientific promotion.
- h- Member of the National Pesticides Registration Committee.
- i- Member of the National Seeds Registration Committee.1999-2005.
- j- Chairman or member of the examining committee for graduate students.
- k- Head, Plant Protection Research Center, State Board for Agricultural Research, Ministry of Agriculture,Baghdad, Iraq.1999-2003.
- j- Project Manager for the controlling Moroccan Locust and other pests (2000-2002).
- k- Chairman of the committee on biological control technology of insects and weeds (2001-2003).
- l- Member of the Scientific Council in the Ministry of Agriculture.
- m- Member of the Social State in the Ministry of Agriculture.
- n- Member of the Ministerial council in the Ministry of Agriculture.
- o- Director General of the State Board for Agricultural Research, Ministry of Agriculture (2003-2004).
- p- Reporter of the permanent committee of the experts.
- q- Member of the Editorial board of the Iraqi Agricultural Journal.
- r- Member of the steering committee for the scientific conference of the Ministry of Agriculture,2004.

- s- Roll player (linguistic) since September 2006.
- t- Member of the Editorial Board of the Arab Journal of Plant Protection (2007-2009).
- u- Review Board Team Member of the Agriculture and Biology Journal of North America (ABJNA),2009.
- v- Passing R6 Sigma Course at Ft.Irwin, California,USA, 2010

10-Scientific Prizes:

- a- Awarded “Mabayn El-Nahrain” Third prize for Agricultural Sciences by the Ministry of Agriculture in **1992**.
- b- Awarded “ Mabayn El-Nahrain” Third prize for Agricultural Sciences by the Ministry of Agriculture in **1993**.

11-Scientific Published Articles:

- a- Scientific principles to study the nematodes in the laboratory. Iraqi Agricultural J., **27: 23-38, 1972**.
- b-The importance of the nematodes in Iraq and their practical control applications. Iraqi Agricultural J., **24-28. 1986**.
- c- Citrus nematode diseases. Iraqi Agricultural J., **1&2: 25-29. 1986**.
- d- The parasitic nematodes on vegetables. Iraqi Agricultural J., **1988**.
- e- Wheat Ear-cockle nematode diseases. Extension Bull. **1988**.
- f- Wheat and barley Ear-cockle nematodes. Extension Bull.,**1995**.
- g- Root-knot nematode, Meloidogyne spp., Extension Bull., **1998**.
- h- White Fly. Extension Bull., **1998**.
- i- Protection program for controlling the pests of tomato crop in Iraq. Iraqi Agric. J., **1: 36-39. 1999**.
- j- Wheat and Barley Ear-cockle nematode *Anguina tritici*. Iraqi Agricultural J., **2 & 3: 34-36. 1999**.
- k- Biological control of plant parasitic nematodes. Iraqi Agricultural J., **1 & 2: 36-39. 2000**.
- l- Integrated pest management of agricultural pests. Aloom, **2000**.
- M- Vegetable Diseases under Green House Conditions.**2007**

12- Published Books:

- a- **Published A Book Entitled Tomato Pests in Iraq.1998.**
- b- **Plant Nematology in the Arab worlds, 2010.**

c- Dictionary of the scientific terms in the field of Plant Nematology from English to Arabic and French, 2010.

d- Dictionary of the scientific terms in the field of Plant Pathology from English to Arabic, 2010.

13- Included in The Law of Scientific Patronage. 1999.

14- Nationality: I am holding an American Green Card and expecting to have the American Citizenship at the 3rd quarter of 2010.

15- Research Publications:

I have published 90 research papers. Forty two of which appeared in the International Scientific Journals and the rest are published in the Iraqi Scientific Journals.

16- List of Publications:

- 1- Allow, J.M. and Z.A. Katcho. 1967. Nematode identification of sugarcane in Iraq. Plant Disease Reporter, 51: 809.
- 2- Katcho, Z.A. and J.M. Allow. 1968. Dagger nematode *Xiphinema index* on grapevines in Iraq. Plant Disease Reporter, 52: 626-627.
- 3- Katcho, Z.A. and J.M. Allow. 1969. Some new records of plant parasitic nematodes from Iraq. Bulletin Iraq Natural History Museum, University of Baghdad, 4: 15-20.
- 4- Katcho, Z.A. and J.M. Allow. 1969. Citrus-root nematode in Iran. Plant Disease Reporter, 53: 84.
- 5- Katcho, Z.A. 1972. First occurrence of certain root-knot nematode species in Iraq. Plant Disease Reporter, 56: 824.
- 6- Natour, R.M., J.M. Allow and Z.A. Katcho. 1975. The effect of DBCP on citrus root nematode and citrus growth and yield in Iraq. J.Nematology 7(3): 270-274.
- 7- Stephan, Z.A., A.H. Alwan and A.H. Bandar. 1975. Seasonal fluctuations on the population of citrus-root nematode, *Tylenchulus semipenetrans* Cobb, and their effect on citrus-root stocks. 8th International Plant Protection Conference, Moscow, USSR, Section II: 404-413.

- 8- Katcho,Z.A., A.H.Alwan and A.H.Bandar. 1976. Root-knot nematodes and their hosts in Iraq. Bulletin Natural History Research Center 7(1): 38-41.
- 9- El-Haidari,H.S. and Z.A.Katcho. 1976. Plant Parasitic nematodes attacking fruit trees. FAO Plant Protection Bulletin 24: 54.
- 10- Al-Beldawi,A.S., Z.A.Stephan and A.H.Alwan. 1977. General survey of wheat gall nematode *Anguina tritici* in Iraq. Yearbook of Plant Protection Research, 1: 237-267.
- 11- Al-Beldawi,A.S., Z.A.Stephan, A.H.Alwan and R.A.Al-Shally. 1977. Studies on the wheat gall nematode in Iraq. Yearbook of Plant Protection Research, 1: 268-283.
- 12- Stephan,Z.A., A.H.Alwan and A.S.Al-Beldawi. 1977. General survey of root-knot nematode disease on tobacco in Iraq. Yearbook of Plant Protection Research 1: 285-294.
- 13- Stephan,Z.A., A.H.Alwan and R.A.Al-Shally. 1977. Testing some tobacco varieties and nematicides against *Meloidogyne* spp., the cause of root-knot nematode disease. Yearbook of Plant Protection Research, 1: 295-304.
- 14- Stephan,Z.A., K.K.Al-Hassan and A.H.Alwan. 1977. Reaction of citrus root-stocks to citrus-root nematode population *Tylenchulus semipenetrans* Cobb. In Iraq. Yearbook of Plant Protection Research, 1: 320-331.
- 15- Al-Hassan,K.K., Z.A.Stephan, A.H.Alwan, and A.W.Hamadi. 1977. Testing some tomato varieties and nematicides against *Meloidogyne* spp. the cause of root-knot disease. Yearbook of Plant Protection Research, 1: 332-357.
- 16- Stephan,Z.A. 1979. The survey program of IMP Project in Iraq. IMP Proceedings of the second research planning conference on root-knot nematode *Meloidogyne* spp. Athens, Greece: 64-66.
- 17- Stephan,Z.A., A.H.Alwan, A.H.Bandar, B.G.Antoon and A.K.Ismail. 1981. General survey of plant parasitic nematodes on sugarcane in Iraq. Yearbook of Plant Protection Research, 2(2): 183-193.
- 18- Stephan,Z.A., M.H.Al-Hashimi and B.K.Waleed. 1981. Survey of Die-back and decline of citrus trees in Iraq. Yearbook of Plant Protection Research, 2(2): 195-203.
- 19- Stephan,Z.A., A.H.Alwan, A.H.Bandar, B.G.Antoon and A.K.Ismail. 1981. Controlling citrus-root nematode on citrus seedlings by chemicals. Yearbook of Plant Protection Research, 2(2): 205-216.
- 20- Stephan,Z.A. 1982. Selection of the root-knot nematode *Meloidogyne hapla* on cucumber. Nematologica 28: 174 (Abstract).

- 21- Stephan,Z.A. and R.H.Estey. 1982. Effect of soil texture, moisture and temperature on the migration of *Meloidogyne hapla* larvae and their invasion of tomato roots. *Phytoprotection* 63: 6-9.
- 22- Stephan,Z.A. and D.L.Trudgill. 1982. Population fluctuations, life cycle of root-knot nematode *Meloidogyne ardenensis* in Cupar, Scotland, and the effect of temperature on its development. *Revue de Nematologie* 5: 281-284.
- 23- Stephan,Z.A. 1982. The influence of temperature and storage time on eggs of four species of *Meloidogyne*. *Nematologia mediterranea* 10: 167-173.
- 24- Stephan,Z.A. and D.L.Trudgill. 1982. Development of four populations of *Meloidogyne hapla* on two cultivars of cucumber at different temperatures. *J.Nematology* 14: 545-549.
- 25- Stephan,Z.A. and D.L.Trudgill. 1983. Effect of time of application on the action of foliar sprays of oxamyl on *Meloidogyne hapla* in tomato. *J.Nematology* 15: 96-100.
- 26- Stephan,Z.A. 1983. The effect of different densities of *Meloidogyne ardenensis* and of three populations of *M. hapla* on the growth of tomato at four soil temperatures. *Nematologia mediterranea* 11: 93-100.
- 27- Stephan,Z.A. 1983. Variation in development and infectivity among populations of *Meloidogyne hapla* on four tomato cultivars and other host plants. *Nematologia mediterranea* 11: 125-131.
- 28- Stephan,Z.A., A.H.Alwan and B.G.Antoon. 1985. Occurrence of plant parasitic nematodes in vineyard soils in Iraq. *Nematologia mediterranea* 13: 261-264.
- 29- Al-Beldawi,A.S., Z.A.Stephan, A.H.Alwan, B.G.Antoon and A.K.Ismail. 1985. Susceptibility of some wheat cultivars to wheat gall nematode and the effect of level of inoculum, time and method of inoculation on infection. *J.Agric. Water Resources Research* 4: 201-210.
- 30- Al-Saaedy,H.A. and Z.A.Stephan. 1986. Root-knot nematodes on eggplant in Iraq. *Nematologia mediterranea* 14: 283-284.
- 31- Al-Talib,N.Y., A.K.Al-Taae, S.M.Nimer, Z.A.Stephan and A.S.Al-Beldawi. 1986. New record of *Anguina tritici* on barley from Iraq. *Int. Nematol. Network News letter* 3(3): 25-27.
- 32- Stephan,Z.A. 1987. Plant parasitic nematodes on cereals and legumes in Iraq. In: Saxena,M.C., R.A.Sikora and J.P.Srivastava (eds.), *Nematodes parasitic to cereals and legumes in temperate and Semi-arid regions*. Proc. Workshop held at Larnaca,Cyprus, 1-5

March, 1987.

- 33- Al-Obaedi, J.F.W., A.R. Al-Askari and Z.A. Stephan. 1987. Some plant extracts for the control of the root-knot nematode *Meloidogyne javanica*. *Nematologia mediterranea* 15: 149-153.
- 34- Stephan, Z.A. and S. Shems Al-Din. 1987. Influence of temperature and culture media on the growth of the fungus *Paecilomyces lilacinus*. *Revue de Nematologie* 10(4): 494.
- 35- Stephan, Z.A. 1988. New race of *Meloidogyne javanica* from Iraq. *Int. Nematol. Network News letter* 5(1): 21.
- 36- Stephan, Z.A. 1988. Newly reported hosts of root-knot nematodes in Iraq. *Int. Nematol. Network News letter* 5(3): 36-43.
- 37- Stephan, Z.A., A.H. Alwan and B.G. Antoon. 1988. Effect of planting date on development of root-knot nematode (*Meloidogyne javanica*), plant production and percentage of infection of tomato, eggplant and cucumber. *ZANCO* 6(4): 59-68.
- 38- Stephan, Z.A., I.K. Al-Maamoury and B.G. Antoon. 1988. The efficacy of nematicides; solar heating and the fungus *Paecilomyces lilacinus* in controlling root-knot nematode *Meloidogyne javanica* in Iraq. *ZANCO* 6(4): 69-76.
- 39- Stephan, Z.A. 1989. New hosts for *Ditylenchus dipsaci* in Iraq. *Int. Nematol. Network News letter* 6(2): 30.
- 40- Stephan, Z.A., A.H. Michbas and I. Shakir. 1989. Effect of organic amendments, nematicides and solar heating on root-knot nematode infecting eggplant. *Int. Nematol. Network News letter* 6(1): 34-35.
- 41- Stephan, Z.A., A.A. Al-Askari and B.G. Antoon. 1989. Effect of *Haplophylum tuberculatum* plant extract on root-knot nematode. *Int. Nematol. Network News letter*, 6(2): 31-32.
- 42- Al-Saaedy, H.A., Z.A. Stephan and M.M. Girgees. 1989. Effect of *Meloidogyne javanica* on eggplant seedlings of different ages. *Nematologia mediterranea* 17: 31-32.
- 43- Stephan, Z.A., S. Shems Al-Din and B.G. Antoon. 1989. Physiological and biological studies on the fungus *Paecilomyces lilacinus*. *Iraqi J. Agric. Sci.*, 20(1): 175-190.
- 44- Stephan, Z.A., A.H. Michbas and C.W. Shahrir. 1989. Control of root-knot nematode on eggplant by nematicides. *Int. Nematol. Network News letter*, 6(3): 25-26.
- 45- Stephan, Z.A., A.N. Yousef and B.G. Antoon. 1989. Interactive effect of root-knot nematode, nematicide (nematicure) and root-nodule bacteria on nodulation and growth of faba bean and bean plants. *J. Agric. Water Resources Research*, 8(2): 319-328.

- 46- Stephan,Z.A. 1989. Threshold temperature, thermal acclimatation and the effect of temperature on the development of *Meloidogyne hapla* on tomato and potato. J.Agric. Water Resources Research 8(1): 43-53.
- 47- Stephan,Z.A., A.H.El-Behadli, B.G.Antoon and H.H.Al-Zahroon. 1989. Effect of *Glomus mosseae* on citrus rootstocks growth and its interaction with *Tylenchulus semipenetrans* and the fungus *Phytophthora citrophthora* infecting citrus roots. Iraqi J. Agric. Sci. 20(1): 191-200.
- 48- Stephan,Z.A., A.H.Michbas, I.Mahmoud and B.G.Antoon. 1990. Control of root-knot nematode on tomato with oxamyl. Int.Nematol. Network News letter 7(1): 28-30.
- 49- Al-Askari,A.A., Z.A.Stephan, B.G.Antoon and J.F.W.Al-Obaedi. 1990. Effect of plant extracts on the control of the root-knot nematode *Meloidogyne javanica*. Iraqi J.Agric. Sci. 21(2): 1-12.
- 50- Stephan,Z.A., M.S.Hassan and B.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.
- 51- Stephan,Z.A. and B.G.Antoon. 1990. Biotypes of earcockle nematode *Anguina tritici* in Iraq. Current Nematology 1(2): 85-88.
- 52- Hassan,M.S., Z.A.Stephan, B.G.Antoon and N.N.Askar. 1991. Disease complex in cucumber caused by *Meloidogyne javanica* and *Rhizoctonia solani*. Iraqi J.Agric.Sci., 22(2): 71-75.
- 53- El-Behadli,A.H., Z.A.Stephan, H.H.Al-Zahroon and B.G.Antoon. 1991. Effects of chemical control on the *Fusarium-Meloidogyne* disease complex of eggplant. Iraqi J.Agric.Sci., 22(1): 40-46.
- 54- Stephan,Z.A., M.S.Hassan, A.N.Yousif and B.G.Antoon. 1993. Effect of interaction between *Meloidogyne javanica*, *Pythium aphanidermatum* and *Rhizobium leguminosarum* on faba bean. Basrah J.Agric.Sci., 6(1): 17-24.
- 55- Al-Saaedy,H.A., Z.A.Stephan and M.M.Girgees. 1993. Effect of different population densities of root-knot nematode on eggplant growth and production inoculated at different ages. Basrah J.Agric.Sci., 6(1): 95-109.
- 56- Al-Taae,A.K., N.Y.Al-Talib, Z.A.Stephan, S.M.Nimer, S.S.Al-Din, M.Ayoob, B.G.Antoon and W.Hassan. 1993. Studies on barley seed gall nematode *Anguina tritici* in Iraq. IPA J.Agric.Res., 3(2): 202-216.
- 57- Stephan,Z.A. 1995. The efficacy of nematodes and horse manure in controlling root-knot nematodes on tomato and eggplant. Nematologia mediterranea 23: 29-30.

- 58- Stephan,Z.A., A.H.El-Behadli, H.H.Al-Zahroon and B.G.Antoon. 1996. Control of root-knot-wilt disease complex on tomato plants. DIRASAT, Agric.Sci., 23(1): 13-16.
- 59- Abul-Hab,J., A.H.El-Behadli, A.S.Al-Beldawi, N.Jaber, Z.A.Stephan and A.D.Ali. 1996. Studies on the nature and control of citrus fall blight in Iraq. IPA J. of Agric.Res. 6(3): 120-134.
- 60- Stephan,Z.A., M.S.Hassan, H.H.Al-Zahroon and B.G.Antoon. Effect of root-knot nematode-Fusarium wilt disease complex on tomato roots and their biological and chemical control. Iraqi Agric. J., 1(1): 71-80.
- 61- Stephan,Z.A., I.K.Hassoon and B.G.Antoon. 1998. Use of biocontrol agents and nematicides in the control of *Meloidogyne javanica* root-knot nematode on tomato and eggplant. Pakistan J.Nematol., 16(2): 151-155.
- 62- Al-Shook,R.H.I., H.A.Al-Aziz, F.H.Al-Sahaf and Z.A.Stephan. 1999. Evaluation of three hybrid tomato varieties in central region of Iraq. Iraqi J.Agric., 4(3): 33-41.
- 63- Stephan,Z.A., A.K.Abdal-Hadi and M.S.Hassan. 1999. Disease complex between citrus-root nematode *Tylenchulus semipenetrans* and the fungus *Rhizoctonia solani* on some citrus rootstocks. Iraqi J.Agric., 4(1): 200-207.
- 64- Stephan,Z.A., R.T.Jassim and A.I.Hammadi. 1999. Interactive effect between root-knot nematode (*Meloidogyne spp.*) and nitrogen fixing bacteria (*Rhizobium leguminosarum*) on faba bean. Iraqi J.Agric., 4(2): 131-139.
- 65- Al-Jboory,I.J., A.S.A.Ali, Z.A.Stephan and W.A.Ahmed. Efficacy of some insect growth regulators and insecticides to control the white fly in the open fields and green houses. Ibn Al-Haitham J. for Pure & Applied Sci., 12(1): 7-15.
- 66- Stephan,Z.A., M.S.Hassan, H.I.Abbass and B.G.Antoon. 1999. Influence of vesicular-arbuscular mycorrhizae on wilt-root knot disease complex of eggplant and tomato seedlings. Iraqi J.Agric., 4(4): 54-60.
- 67- 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.Agric., 5(6): 1-5.
- 68- Stephan,Z.A., M.A.Al-Hamadany, S.Sh.Saad Al-Din and H.B.Dawood. 2001. Efficacy of furfural treatment in controlling the disease complex of root-knot nematode and Fusarium wilt on tomato and eggplant under lathhouse conditions. Arab J. Plant Protection, 19: 97-100.

- 69- Stephan,Z.A., A.K.Abd Al-Hadi and H.A.Al-Ani. 2000. Role of the biocontrol fungi *Trichoderma harzianum* and *Paecilomyces lilacinus* in controlling citrus-root nematode and some pathogenic soil fungi attacking sour orange roots. Iraqi J.Agric., 5(3): 1-7.
- 70- Daoud,M.S., H.A.Al-Aziz and Z.A.Stephan. 2001. Evaluation of some hybrid tomato varieties in central region of Iraq. Iraqi J.Agric., 6(2): 117-124.
- 71- 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,Agric.Sci., 28(1): 106-110.
- 72- Khattat,A.R., Z.A.Stephan and N.Ibrahim. 2001. Biorational insecticides for control of vegetable leafminer *Liriomyza bryoniae* (Kal.) (Diptera: Agromyzidae) in open field tomato with emphasis on the sampling technique. Iraqi J.Agric., 6(2): 198-206.
- 73- Stephan,Z.A., O.K.Ruman, J.F.W. Al-Obaeidy and K.H.Tawfeek. 2001. Nematicidal activity in some plant extracts against root-knot nematode *Meloidogyne javanica* on eggplant. Pakistan J. Nematol., 19(1&2): 81-86.
- 74- Stephan,Z.A., S.Sh.Saad Al-Din, H.B.Dawood and A.R.Nasir. 2002. Interrelationship between root-knot nematode and the bacteria *Pseudomonas* infecting tomato roots. Second National Conference of Biology Science, Science College, Mustansiriya University, Dec. 21-22,2002.
- 75- Stephan,Z.A., K.S.Juber, B.G.Antoon and H.B.Dawood. 2002. Biological control of root-knot nematode and *Rhizoctonia* in eggplant and cucumber plants. Iraqi J.Agric., 7(5): 1-8.
- 76- Khattat,A.R., Z.A.Stephan and N.Ibrahim. 2002. Temporal and spatial distribution of larval populations of the vegetable leaf miner (Diptera: Agromyzidae) in open field tomatoes. Iraqi J.Agric., 7(7): 210-219.
- 77- Stephan,Z.A., M.S.Hassan and I.K.Hasson. 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. Plant Protection 20: 1-5.
- 78- Stephan,Z.A., Jbara,I.M. 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. Plant Protection, 21: 1-5.

- 79- 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., 8(3): 111-120
- 80- Jbara,I.M., F.A.Al-Rawi and Z.A.Stephan. 2003. Determining the best application of the bio-pesticides Tahadi and Sumud for controlling tomato infection from Fusarium wilt and root-knot nematode. Iraqi J.Agric. 8(3): 24-35.
- 81- Stephan,Z.A., A.M.T.Hammadi, H.I.Abbass, H.B.Dawood and B.G.Antoon. 2003. Effect of superphosphate, some organic manures and arbuscular mycorrhizal fungi in Karbala desert soil on root-knot nematode attacking tomato plants. Iraqi J. Agric.Sci., 34(5): 171-176.
- 82- Stephan,Z.A., O.K.Ruman, K.H.Tawfeek and R.D.Salman. 2004. Efficiency evaluation of alfalfa powder against root-knot nematode *Meloidogyne javanica* on cucumber and eggplant roots. Iraqi J.Agric., 9(1): 49-54.
- 83- Stephan,Z.A., F.A.H.Fadhil, A.A.Ligan and H.B.Dawood. 2005. Effect of Fusarium wilt disease on peanut plants and their biological and chemical control. Iraqi J.Agric., 10(1): 69-74.
- 84- Stephan,Z.A., H.M.Salih, I.M.Jbara and H.B.Dawood. 2005. Influence of the biological and chemical pesticides and foliar fertilization in controlling the appearance of citrus trees deterioration at Rashidiya. Iraqi J.Agric., 10(2): 113-120.
- 85- Stephan,Z.A., K.S.Juber, and H.B.Dawood. 2005. Isolating fungi from the soybean seeds and plants and their effect on seed germination and seedlings and their biological control. Arab J. Plant Protection, 23: 51-56.
- 86- Stephan,Z.A., O.K.Ruman, H.B.Dawood and K.H.Tawfeek. 2006. Efficacy of cauliflower leave powder against root-knot nematode *Meloidogyne javanica* on eggplant and cucumber roots. Iraqi J.Agric., 11(2): 60-67.
- 87- Antoon,B.G., Z.A.Stephan and M.H.Al-Jboory. 2006. Susceptibility of some tobacco varieties against root-knot nematodes *Meloidogyne javanica* , soil fungi *Fusarium solani* and *Macrophomina phaseolina* and their biological and chemical control. Iraqi J.Agric., 11(2): 68-80.
- 88- Stephan,Z.A., H.B.Dawood and A.R.Nasir. 2006. Effect of root-knot nematode *Meloidogyne javanica* on germination and different ages of soybean seedlings growth and its interaction with the fungi *Rhizoctonia solani* and *Macrophomina phaseolina*. Arab J.Plant Protection, 24: 98-101.

- 89- Antoon, B.G., M.H. Al-Jboory and Z.A. Stephan. 2009. Effect of root-knot nematode *Meloidogyne javanica* and its interaction with some soil born pathogens on tobacco seed germination and seedlings growth at different ages. Iraqi J. Agriculture 14(6): 200-207.
- 90- Stephan, Z.A., I.K. Al-Samerai, B.G. Antoon, H.B. Dawood and N.D. Salman. 2009. Effect of Mycorrhizal fungi on disease complex of root-knot nematode and *Rhizoctonia solani* on eggplant roots under Lathhouse conditions. Arab J. Plant Protection, 27(2): 145 - 151.

اهم البحوث المنشورة خلال السنوات العشرة الماضية.

- 1- Stephan,Z.A.; A.M.T.Hammadi; H.I.Abbass, H.B.Dawood and B.G.Antoon. 2003. Effect of superphosphate, some organic manures and arbuscular mycorrhizal fungi in Karbala desert soil on root-knot nematode attacking tomato plants. *Iraqi J. Agric. Sci*, 34(5): 171-176.
- 2- Stephan,Z.A.; O.K.Ruman, K.H. Tawfeek and R.D.Salman. 2004. Efficiency evaluation of alfalfa powder against root-knot nematode, *Meloidogyne javanica* on cucumber and eggplant roots. *Iraqi J. Agric.* 9(1): 49 – 54.
- 3- Stephan,Z.A.; H.M.Salih; I.M.Jbara and H.B.Dawood. 2005. Influence of the biological and chemical pesticides and foliar fertilization in controlling the appearance of citrus trees deterioration at Rashidiya. *Iraqi J. Agric.*, 10(2): 113 – 120.
- 4- Stephan, Z.A.; O.K.Ruman; H.B.Dawood and K.H.Tawfeek. 2006. Efficacy of cauliflower leave powder against root-knot nematode *Meloidogyne javanica* on eggplant and cucumber roots. *Iraqi J. Agric.*, 11(2): 51 – 56.
- 5- Stephan,Z.A.; H.B.Dawood and A.R.Nasir. 2006. Effect of root-knot nematode, *Meloidogyne javanica* on germination and different ages of soybean seedlings growth and its interaction with the fungi *Rhizoctonia solani* and *Macrophomina phaseolina*. *Arab J. Plant Protection* 24: 98 – 101.
- 6- Stephan,Z.A.; I.K.Al-Samerai; B.G.Antoon and N.D.Salman. 2009. Effect of Mycorrhizal fungi on disease complex of root-knot nematode and *Rhizoctonia solani* on eggplant roots under lathhouse conditions. *Arab J. Plant Protection* 27(2): 145 – 151.