

## السيرة الذاتية والعلمية



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الخرطوم ، مدينة الطائف مربع 22 بناية رقم 240 شقة رقم 3 ، جمهورية السودان .  
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### التحصيل العلمي :

- دكتوراة / الحشرات / فسلجة وبيوكيمياء الحشرات / جامعة ولاية كنساس 1980 , عنوان الأطروحة :  
• Sterol composition of the southwestern corn borer, *Diatraea grandiosella* Dyar, and corn plant tissues, sterol utilization for growth and reproduction, uptake and carry over of radiolabelled sterols and effects of azasteroid inhibitors .
- الماجستير : كلية الزراعة ، جامعة بغداد 1972 ، عنوان الأطروحة :  
• Bionomics of mealybug, *Nipaecoccus vastator* infesting citrus trees in Iraq

### المواقع الوظيفية (الأحدث ثم الأقدم) :

- منذ أيلول 2001 ولحد الآن: خبير ، المنظمة العربية للتنمية الزراعية . الخرطوم ، جمهورية السودان.
- منذ مارس 1991 ولغاية أيلول 2001: رئيس باحثين ومدير قسم الحشرات، دائرة البحوث الزراعية، منظمة الطاقة الذرية العراقية، بغداد جمهورية العراق.
- منذ حزيران 1986 ولغاية مارس 1991 : باحث علمي أقدم، مركز البحوث النووية، منظمة الطاقة الذرية العراقية، بغداد جمهورية العراق.
- منذ حزيران 1980 ولغاية حزيران 1986: باحث علمي، قسم الزراعة والبيولوجي، منظمة الطاقة الذرية العراقية، بغداد جمهورية العراق.

### مجالات العمل العلمي في العراق :

- دراسات حياتية وبيئية عن مجموعة من الحشرات الاقتصادية منها: دودة ثمار الرمان *Ectomyelois ceratoniae* ، دودة الشمع *Galleria mellonella* ، حفار ساق الذرة *Sesamia cretica* ، السونة *Eurygaster integriceps*، الدوباس *Ommatissus binotatus lybicus*
- برمجة مكافحة دودة ثمار الرمان بتقنية الحشرات العقيمة والزنبور المتطفل *Apanteles angaleti* والطرق الزراعية.
- برنامج تربية الذرة الصفراء للحصول على نباتات تتحمل الإصابة بحفار ساق الذرة *Sesamia cretica*.
- استخدام الفطريات المتطفلة على الحشرات Entomopathogenic fungi لمكافحة حشرة السونة بشمال العراق.
- برنامج بحثي لتحسين سلالة نحل العسل المحلية *Apis mellifera* يشمل التربية والتغذية الاصطناعية وإنتاج الملكات اصطناعياً والتلقيح الصناعي للملكات.
- برنامج مكافحة حشرات النخيل (الدوباس *Ommatissus binotatus lybicus* والحميرة *Batrachedra amydraulla*) بالطرق الزراعية وتوقيت فترة المكافحة بالمبيدات الحشرية.
- دراسات حياتية وبيئية والتربية الاصطناعية واستخدام الاشعاع لمكافحة / استئصال ذبابة الدودة الحلزونية للعالم القديم .

### الخبرة العلمية :

- رئيس باحثين علمي .
- خبير / المنظمة العربية للتنمية الزراعية.
- خبرة استشارية / منظمة الزراعة والأغذية للأمم المتحدة.
- خبرة استشارية / الوكالة الدولية للطاقة الذرية.

1. **FAO/IAEA International Conference** on Area-Wide Control of Insect Pests: Integrating the Sterile Insect and Related Nuclear and other Techniques, 9 – 13 May 2005. Vienna International Centre, Vienna, Austria, present the poster entitled " Effect of Gamma Rays on Adult Flight Agility and Distribution of OWS, *Chrysomya bezziana* irradiated at the pupal stage".
2. **The 2nd International Conference on Sunn Pest** , ICARDA, Aleppo, Syria, 19-22/7/2004. Present three papers:
  - a. The Role of biocontrol agents in decreasing the population of Sunn Insect *Eurygaster integriceps* Puton in wheat fields in the north of Iraq.
  - b. Biological Parameters of Sunn Pest, *Eurygaster integriceps* Puton in wheat fields in the north of Iraq.
  - c. Population density of Sunn Pest, *Eurygaster integriceps* Puton, during hibernation and aestivation in the north of Iraq.The papers were accepted to be published in the Proceedings of the 2nd International Conference on Sunn Pest under the auspices of the Arab Journal of Plant Protection (AJPP).
3. **Screwworm Fly Emergency Preparedness Conference**, Canberra, 12–15/11/2001. Present the paper entitled "The Activities taken by AOAD to Control the Old World Screw-worm, *Chrysomya bezziana* Vill. In Middle East and Gulf Countries".
4. **The 6th Conference of the OIE Regional Commission** for the Middle East, Jounieh (Lebanon), 24–27/9/2001. Present the paper entitled "Existence of Old World Screwworm Fly, *Chrysomya bezziana* Vill. In some countries of the Middle East and Gulf Countries. (Final Report of OIE).
5. **International Conference** "Control of OWS Fly in some Countries of the Middle East", Manama, Bahrain, 9-12/4/2001. Present two papers:
  - I- Insect laboratory rearing, pupal irradiation and adult trapping of OWS fly in Iraq.
  - II- Efficacy test of three insecticides against larvae of OWS fly.
6. **Arab League of Atomic Energy**, The 4th conference held in Tunisia, 14-18/11/1998. Present the paper entitled "Distribution and Effects of Old World Screwworm Fly in Iraq".

- Iraqi J. of Agriculture (1996-2001).
- Iraqi Scientific J. of Iraqi Atomic Energy Commission (1999-2001).

**IAEA Scientific visit** (IRQ/97012 PV), 2000. Visit Jamaica and London:

1. Visit the Veterinary Services Division, Ministry of Agriculture, Kingston, Jamaica. Following their activities of the National Screwworm Eradication Program (NSEP) in Jamaica to eradicate the New World Screwworm (NWS), *Cochliomyia hominivorax* from Jamaica.
2. Visit the Department of Entomology, Natural History Museum, London, United Kingdom. Review the overall activities concerning the diagnosis of screwworm fly and assess the genetic status of Old World Screwworm Fly by using the molecular analysis in the Molecular Systematic Laboratory.

**IAEA Fellowship**, April 1990. Visit USA, joining a five months training fellowship in USDA, ARS, Insect rearing Research Unit of R. T. Gast Rearing Laboratory, Mississippi State. The work concerned on the mechanization of artificial diet and mass production of boll weevil, corn stem borers and the parasitoids. Visited the following Laboratories:

1. Stored-Product Insect Research and Development Laboratory, USDA, ARS Savannah, GA.,
2. Department of Entomology, Kansas State University and U.S. Grain Marketing Research Laboratory, USDA, ARS, Manhattan, Kansas.
3. Southern Field Crop Insect Management Laboratory, USDA, ARS, Stoneville, Mississippi.

القيام بعدد من الدراسات خلال الفترة 1998-1999 عن ذبابة الدودة الحلزونية بالعراق مدعومة من قبل المنظمة العربية للتنمية الزراعية ومنها:

1. The Possibility of Formulating Fly Attractants for Adult Trapping and Monitoring the OWS Fly in the Field.
2. The Laboratory Rearing of OWS and developed a technology for Producing the Sterile Insects.
3. Screen insecticides for the Chemical Control of OWS Fly.
4. Determination the Efficiency of Sterile Males of OWS Fly, *Chrysomya bezziana* (Villeuneve) released in confined areas in Iraq.
5. Systems and Trap designs Assembled with Attractive baits for trapping the OWS Fly.
6. Determination of the Ecological requirements for Rearing the developmental stages of OWS Fly, *Chrysomya bezziana*.

التدريس لطلبة الدراسات العليا في في كليات الزراعة، والتربية، التربية للبنات ومعهد الليزر المواضيع التالية:

- Insect Nutrition.
- Genetics and Insect Nutrition.
- Insect External Morphology.
- Host Plant Resistance.
- Insect Pest Managements.
- Special Problems related to the student dissertations.

مشرف مشارك على عدد من طلبة الدراسات العليا [ ( 7 ) الماجستير و(4) الدكتوراه]:

1. Gamma Radiation Effects on potato tuber moth, *Phthorhmaea operculella* Zeller, inhibition of sprouting during cold storage. (M. Sc. Thesis, Isam H. H. Al-Ajil, 1983, Agric. College, University of Baghdad).
2. Artificial diet for rearing of Corn Stem Borer, *Seasamia cretica* Led. (M. Sc. Thesis, Mohammed Z. Kh. Al-Jobouri, 1994, Agric. College, University of Baghdad).
3. Artificial Production and Insemination of Honey Bee Queens of the local strain. (M. Sc. Thesis, Hassan Tarik, 1994, Agric. College, University of Baghdad).
4. Heat accumulation and Life Tables, implemented strategies for Management of Pomegranate Fruit Moth, *Ectmyeloides ceratonia* Zeller. (Ph. D. Dissertation, Hutham A.W.Hassoon, 1997, Agric. College, University of Baghdad).
5. Biological Control of Pomegranate Fruit Moth, *Ectomyeloides ceratoniae* (Lepidoptera : Pyralidae) by using the parasitoid *Apanteles angaleti* (Hymenoptera : Braconidae). Ph. D. Dissertation, Nasir A. Al-Jamali, 1998, Agric. College, University of Baghdad ).
6. Feeding of Honey bee, *Apis mellifera* L. on honey and pollen substitutes and supplements and their effects on brood rearing, honey and pollen collection. (Ph. D. Dissertation, Aied N. O. Al-Zubaidi, 1998, Agric. College, University of Baghdad ).
7. Effect of number of frames, larval age and artificial feeding on mass queen rearing of Honey bee, *Apis mellifera* L. ( M.Sc. Thesis, Ryiadh A. Okaily, 1999, College of Education for Women, University of Baghdad ).
8. Seasonal Occurrence of the Sunn pest, *Eurygaster integriceps* Puton with Remarks on its natural enemies in Arbil, Iraq. (Ph. D. Dissertation, Abdul-Bassit M. Mohammad, 2000, College of Education / IBN-Al-Haithum, University of Baghdad).
9. Effect of some environmental factors on the biology of the Old World Screwworm Fly, *Chrysomya bezziana* (Villeuneve), Diptera : Calliphoridae. (M.Sc. Thesis, Soolaf A.K. Al-Jowary, 2000, College of Education for Women, University of Baghdad).

10. Biological Effects of N<sub>2</sub> and He-Ne Lasers on the Old World Screw-worm Fly, *Chrysomya bezziana* Villeneuve (Diptera: Calliphoridae). ( M.Sc. Thesis, Rana R.Kh. Al-Ani, 2001, Institute of Laser and Plasma for Postgraduate Studies, University of Baghdad.
11. Supervisor for other 2 students studying on OWS concerning :  
 Distribution, surveillance and incidence of myiasis cases in South of Iraq. ( College of Science, Basrah University).  
 Effect of extracts of Al Han-dhal plant, *Citrullus colocynthis* Schrad on growth and development of OWS Fly (College of Science, Koffa University)

#### عضو الجمعيات العلمية التالية:

- Entomological Society of America, since 1976
- SIGMA XI, The Scientific Research Society of North America
- Kansas State University, Agricultural Alumni Member
- Iraqi Agricultural Engineers Syndicate
- Biological Society of Iraq
- Bee Breeders Society of Iraq
- Inter. Org. , Biol. & Integrated Control of Noxious An. & Pl.

#### الجوائز العلمية :

1. Jabber Ben Hayan Trophy for Scientific Achievement.
2. Mesopotamia Award for Agricultural Research.
3. Awards for Agricultural Research.

#### النشریات العلمية مقسمة حسب المواضيع وكما يأتي:

##### • الأوساط الغذائية وتربية الحشرات

1. Okaily, R. A., I. A. Mahmood and M. A. J. Al-Izzi. 2000 . Effect of artificial feeding of Honey bee, *Apis mellifera* L. on Queen behavior, brood production and reserved food. J. of College of Education for Women. 11: 19 – 34 .
2. Al-Izzi, M. A. J., M. N. Jassim and N. F. Jabbo . 1996 . Dietary L- Lysine-HCL utilization during development of Pomegranate Fruit Moth , *Ectomyelois ceratoniae* Zeller . Dirasat, Agric.Sci. 23: 23–25 .
3. Al-Izzi, M. A. J. 1990 . Pomegranate Fruit Moth, *Ectomyelois ceratoniae* Zeller. Its Biology, Economic Effects and Control. Technical Paper, 14 pp, Ministry of Agriculture and Irrigation, Republic of Iraq (Arabic).
4. Al-Izzi, M. A. J. and S. K. Al-Maliky. 1989. Oviposition and larval feeding behavior of *Ectomyelois ceratoniae* on pomegranate fruits in Iraq. Proc. 5th Sci. Conf., Sci. Res. Council. ( Agric. Res. ).1(6): 44–53.
5. Al-Izzi, M. A. J., S. K. Al-Maliky and N. F. Jabbo. 1988. Effect of Supplemental Dietary L-Lysine and Soybean flour on growth and fertility of *Ectomyelois ceratoniae* Zeller . J. Econ. Entomol. 81 : 970 – 972 .
6. Al-Izzi, M. A. J., S. K. Al-Maliky and N. F. Jabbo. 1987. Culturing the Carob Moth, *Ectomyelois ceratoniae* Zeller on an Artificial Diet . J. Econ. Entomol. 80 : 277 – 280 .
7. Alrubeai, H. F. and M. A. J. Al-Izzi . 1986. Laboratory rearing of *Galleria mellonella* on artificial diet. J. Biol. Sci. Res. (Iraq). 17 : 57 – 64.
8. Al-Izzi, M.A.J. and T.L. Hopkins. 1982. Dietary sterol utilization during development and reproduction of the corn stem borer, *Diatraea grandiosella*. Comp. Biochem. Physiol. 71B : 637 – 641.
9. Al-Izzi, M.A.J. and T.L. Hopkins. 1982. Effect of 25-Azasteroids on development and reproduction of the SWCB, *Diatraea grandiosella* Dyar. J. Insect Physiol., 28 : 267 – 271.
10. Al-Izzi, M.A.J. and T.L. Hopkins. 1982. Effect of dietary sterols on development and reproduction of SWCB, *Diatraea grandiosella* Dyar. J. Insect Physiol. 28 : 189 – 192.

● استخدام أشعة كاما لإستحداث العقم

11. Al-Izzi, M. A. J., H. A. W. Hassoon and M. Z. Khalaf. 1999. Radio sensitivity and Population Suppression of Pomegranate Fruit Moth, *Ectomyelois ceratoniae* Zell. by releasing of Irradiated insects and the parasitoids *Apanteles angaleti* . Iraqi J. Agric. 4 : 99 – 105 .
12. Al-Izzi, M. A. J., S. K. Al-Maliky, M. Z. Khalaf and N. F. Jabbo. 1996 . Effect of Gamma rays on inherited sterility of laboratory reared pomegranate fruit moth and their subsequent generations after mating with native females. IPA J. of Agric. Res. (Iraq) 6: 89–98. (Arabic).
13. Al-Izzi, M. A. J., S. K. Al-Maliky and M. Z. Khalaf. 1993 . Effects of Gamma Irradiation on Inherited Sterility of Pomegranate fruit moth , *Ectomyelois ceratoniae* Zeller . Insect Sci. Applic. 14: 675 – 679 .
14. Al-Izzi, M. A. J., S. K. Al-Maliky and N. F. Jabbo . 1990 . Effect of Gamma rays on males of *Ectomyelois ceratoniae* Zeller irradiated as pupae or adults . Anns . Soc. ent. Fr. (N.S.). 26 : 65 – 69 .
15. Al-Izzi, M. A. J., 1986 . Effect of Gamma radiation on larvae of *Ectomyelois ceratoniae* Zell., Proc . 4th Sci. Confr. , Scientific research Council , Baghdad , Iraq . 1-2-77 : 1434 – 39 .
16. Alrubeai, H. F. and M. A. J. Al-Izzi . 1986 . Effect of Irradiation on reproductive biology of *Ectomyelois ceratoniae* . Proc. 4th Sci. Confr., Scientific Res. Council , 1-2-80: 1460 – 67 .
17. Al-Izzi, M. A. J. 1986 . Effect of gamma radiation on larvae of *Ectomyelois ceratoniae* Zell . Proc. 5th Sci. Conf. / SRC. Iraq . Baghdad 7 – 11 – Oct. 1986 1-2-77 .
18. Al-Izzi, M.A.J. and T.L. Hopkins. 1982. Larval uptake and carryover of (4-<sup>14</sup>C) Cholesterol and (4-<sup>14</sup>C) Sitosterol for growth and reproduction by SWCB, *Diatraea grandiosella* Dyar. Comp. Biochem. Physiol. 72B : 153 – 155.

● الدراسات البيئية الحياتية ومقاومة النباتات للحشرات

19. Khalaf, M. Z., M. A. J. Al-Izzi and H. F. Hassan. 2001. Cost/ Benefit analysis of Resistant Corn to Stem Borer, *Sesamia cretica* (Lepidoptera: Phalaenidae). Arab Agric. Res. J. 5 :201–210. (Arabic).
20. Khalaf, M. Z., M. A. J. Al-Izzi, H. F. Hassan and N. H. Yasin. 2001. Use of Electrophoresis Technique for Isozyme Studies in Genetic Variation of *Zea mays*. Arab Agric. Res. J. 5 : 211–221. (Arabic).
21. Khalaf, M. Z., R. F. Ahmed and M. A. J. Al-Izzi . 2001. Study the Biology of Corn Stem Borer, *Sesamia cretica* Led. on different parts of Corn Plants, *Zea mays* . Sci. J. Iraqi At. Energy Comm. 3: 30 – 37.
22. Khalaf, M. Z. and M. A. J. Al-Izzi . 2001 . Effect of Physiological Age of Corn *Zea mays* L. on Infection with Corn Stem Borer, *Sesamia cretica* . IBN Al-Haithum J. for Pure & Appl. Sci. 14: 60 – 68 .
23. Hassoon, H. A. W., M. A. J. Al-Izzi and H. F. Hassan . 1999 . Life and Fertility Tables of Pomegranate Fruit Moth. Arab Agric. Res. J. 3: 242 - 254. (Arabic).
24. Al-Izzi, M. A. J., S. K. Al-Maliky and N. F. Jabbo. 1989 . Seasonal occurrence and field biology of Dubas bug, *Ommatissus binotatus lybicus* De Berg In Iraq. Proc. 3rd National Conf. of Pests & Diseases of Veget. & Fruits in Egypt and Arab Countries. Egypt. Pp 310 – 320.
25. Al-Izzi, M. A. J., S. K. Al-Maliky , M. A. Younis and N. F. Jabbo . 1985 Bionomics of *Ectomyelois ceratoniae* on Pomegranates in Iraq . Environ. Entomol. 14 : 149 – 153 .

● دراسات عن المتطفلات

26. Al-Jamali, N. A., H. F. Hassan and M. A. J. Al-Izzi. 2001. The Behavior Response of Parasitoid, *Apanteles angaleti* towards its Host, *Ectomyelois ceratoniae* . Arab Agric. Res. J. 5 : 275 – 295. (Arabic).
27. Al-Izzi, M. A. J., S. K. Al-Maliky and H. A. W. Hassoon. 1999. Potential for Storage of Immature stages of the parasite *Apanteles angaleti* ( Mus.) at constant and variable temperature . Iraqi J. Agric. 4 : 120 – 124 .
28. Al-Izzi, M. A. J., S. K. Al-Maliky and M. Z. Khalaf. 1997. Field cage evaluation of Laboratory reared parasite *Apanteles angaleti* (Hymenoptera : Braconidae ) . Iraqi J. Agric. 2 : 149 – 157 .

29. Al-Izzi, M. A. J., S. K. Al-Maliky and M. Z. Khalaf. 1992. Low temperature for predicting induction and termination of diapause in *Apanteles angaleti* (Muesebeck) . Annls. Soc. ent. Fr. (N. S.) 28 : 385-389 .
30. Al-Maliky , S. K. and M. A. J. Al-Izzi . 1990 . The progeny production of a hymenopterous parasitoid , *Apanteles* sp. group *ultor* , as affected by temperature . Entomophaga 35 : 217 – 222 .
31. Al-Izzi , M. A. J., S. K. Al-Maliky and N. F. Jabbo . 1989 . Thermal unit accumulation for development of *Apanteles* sp. group *ultor* J. appl. Entomol. 108 : 245 – 249 .
32. Al-Maliky , S. K., M. A. J. Al-Izzi and N. F. Jabbo . 1988. Effects of Temperature and Photoperiod on the development and oviposition of *Apanteles* sp. group *ultor* , a larval parasite of moth , *Ectomyelois ceratoniae* . Entomophaga 33 : 193 – 200 .
33. Alrubeai, H. F. et al.1988. Susceptibility of *Ectomyelois ceratoniae* to *Bacillus thuringiensis* isolates under laboratory and field conditions . J. Agric. Water Reso. Res. (Iraq) 7 : 125 – 135 .
34. Al-Maliky , S. K. and M. A. J. Al-Izzi . 1986 . Parasites of **Ectomyelois ceratoniae** ( Zeller ) with biological studies on *Apanteles* sp. group *ultor* in Iraq . Entomophaga 31 : 313 – 319 .

● تأثير المبيدات ومنظمات النمو والتاتين

35. Al-Izzi, M. A. J. , M. Z. Khalaf and H. A. W. Hasoon . 2001 . Determination the Activity of Citriplan, Prelud and Ultracidin on the Yellow Scale Insects, *Aonidiella orientalis* (Newstead), Homoptera : Coccidae. The Year Book, The National Committee for Pesticide Registration and Approval. 1: 46 – 48.
36. Tariq, A. M., I. J. Al-Giboory, A. S. Ali and M. A. J. Al-Izzi. 1999 . Effect of IGI Match on Maize Stalk Borer, *Sesamia cretica* Led. (Lepidoptera : Phalaenidae) under Laboratory and Field Conditions . Arab J. Plant Protection. 17 : 1 – 8 .
37. Al-Izzi , M. A. J. and S. K. Al-Maliky . 1997 . Action of Tannic acid on Consumption and Utilisation of food by *Ectomyelois ceratoniae* Zeller . J. Stored Prod. Res. 32 : 127 – 133 .
38. Al-Izzi , M. A. J. , M. Z. Khalaf and S. K. Al-Maliky . 1996 . Effect of Tannic acid content of the pomegranate fruit on *Ectomyelois ceratoniae* Zell. IPA J. Agric. Res. (Iraq). 6 : 192 – 202 .
39. Al-Izzi, M. A. J. 1986 . Effect of pomegranate fruit tissues on *Ectomyelois ceratoniae* , larval growth and parasitization . Proceeding 4th Sci. Conf., Scientific Res. Council, Baghdad , Iraq. 1-2-76 .

● نصابة الدودة الحلزونية للعالم القديم *Chrysomya bezziana*

40. AL-Serai, M. H., Al-Taweel, A. A., Mahmood, I. A. & Al-Izzi, M. A. J. (2006). "Effect of Gamma Radiation on Some Biological Performance of OWSWF, *Chrysomya bezziana*. Iraqi J of Agriculture, 11(2): 52 – 59
41. AL- Izzi, M. A. J., Shehab, B., Al-Taweel, A. A., & Hassoon, H. A. W. (2005) "Effect of Gamma Rays on Adult Flight Agility & Distribution of OWSWF, *Chrysomya bezziana*, Irradiated at the Pupal Stage. FAO/ IAEA International Conference on Area- Wide control of Insect Pests: Integrating the Sterile Insect & Related Nuclear & Other Techiques, 9- 13 May 2005, Vienna Austria. Book of Extended Synopses. pp. 366- 368
42. Siddig A. , S. Al- Jowary , M. Al-Izzi , J . Hopkins, M. J. R. Halls and J . Slingenbergh. 2005. Seasonality of Old World screwworm myiasis in the Mesopotamia valley in Iraq. Medical and Veterinary Entomology 19: 140–150. 140 # 2005 The Royal Entomological Society
43. Al-Izzi , M. A. J. 2001. The Status of Old World Screwworm in Middle East and Gulf Countries . Preparedness Conference: Preparing for Attack of the Killer Maggot, Rydges Lakeside Canberra, 12 – 15 November 2001.
44. Al-Izzi , M. A. J. 2001. Work by the AOAD to Control the Old World Screw-worm Fly. Proceeding of the Screw-worm Fly Emergency Preparedness Conference, Canberra, 12 – 15 November 2001: 187 – 193.
45. Al-Izzi , M. A. J. 2001. Existence of Old World Screwworm Fly, *Chrysomya bezziana* Vill. In some countries of the Middle East and Gulf Countries. 6th Conference of the OIE Regional Commission for the Middle East, Jounieh (Lebanon), 24 – 27 September 2001.

46. Al-Taweel, A. A., Al-Izzi, M. A. J. and Jassim. F. A. (2000) Incidence of old world screwworm Fly, *Chrysomya bezziana* in Iraq. Area wide Control of Fruit Flies & Other Insect Pests. Ed. K. H. Tan, Penerbit University Sains, Malaysia, Penang. 101-105.
47. Al-Izzi , M. A. J., A. A. Al-Taweel and M. S. Abdul-Rassoul. 1999 . Artificial diet for Rearing OWS, *Chrysomya bezziana* (Villeneuve) under mass rearing conditions . Iraqi J. Agric. 4 (7): 59 – 66 .
48. Al-Taweel A.A., M. A. J. Al-Izzi and M. S. Abdul-Rassoul. 1999. Effect of Gamma Rays on Pupae of OWS, *Chrysomya bezziana* (Villeneuve) . . Iraqi J. Agric. 4 (7): 67 -70 .
49. Al-Izzi , M. A. J. 1998 . Spread of Old World Screwworm , *Chrysomya bezziana* in Iraq and the methods taken locally and internationally to control the pest . Proceeding of the 4th Conference of the Peaceful uses of Atomic Energy. Tunisia 14 – 18th of November 1998 ( Arab Faculty of Atomic Energy ) .
50. Al-Izzi , M. A. J., A. A. Al-Taweel and F. A. Jassim . 1999 . Epidemiology and Rearing of Old World Screwworm , *Chrysomya bezziana* in Iraq . Presented in FAO / IAEA Int.Conf. on Area-Wide Control of Insect Pests, Penang, May 28 to June 2, 1998 , and Published in J. Iraqi Agric. 4 (8) 153 – 160 .
51. Al-Taweel , A. A., M. A. J. Al-Izzi and F. A. Jassim . 1998 . Incidence of Old World Screwworm fly , *Chrysomya bezziana* in Iraq . FAO / IAEA Int. Conf. on Area-Wide Control of Insect Pests , Penang , May 28 to June 2 , 1998 .