Curriculum Vitae

Name: Prof. Dr. Hedayat Allah Mahmoud Salem

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<u>prf</u>



Personal Data:

Date and place: 05/10/1955, Cairo - Egypt

of birth

Nationality : Egyptian

Address : 3 Ahmed El Zomor _Nasr city – Cairo- Egypt

Martial state : Married

Position: Prof. Dr., Pests & Plant Protection

Laboratory : Natural Control

Institution : Specialist at Entomology & Plant Production

Department, National Center for Radiation Research and Technology (NCRRT) – Egyptian Atomic Energy Authority (EAEA) P.O Box 29, Nasr City

Cairo- Egypt

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Education:

• 1977: B.Sc. of Agriculture, Pests & Plant Protection Dept. (Entomology) - Faculty of Agriculture Science – Ain Shams University.

• 1984: Ph.D., Pests & Plant Protection Dept. (Entomology) - Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.

Affiliation:

- From 1979 to 1984: Researcher at faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.
- From 1/1/1985 to 16/7/1986: Specialist at Entomology & Plant Production Department, NCRRT EAEA.
- 17/7/1986 to 29/1/1992: Lecturer at Entomology & Plant Production Department, NCRRT EAEA.

- 30/1/1992 to 30/6/1997: Associate Professor at Natural Product Department, NCRRT EAEA.
- 1/7/1997 to time being: Professor Natural Product Department, NCRRT EAEA.

Positions:

- From 19/2/2003 to 2/9/2006: Head of Natural Product Department, NCRRT EAEA.
- From 3/9/2006 to 12/5/2009: Vice Chairman of Biotechnology Division, NCRRT EAEA.
- From 13/5/2009 to 13/5/2012: Chairman of Biotechnology Division, NCRRT EAEA.

Scientific Fellowship:

- 1989: 3 months fellowship at Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.
- 1991 1992: 2 years fellowship at Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.
- 1995: 3 months fellowship at Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.
- 1996: 3 months fellowship at Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.
- 2000: 1 months fellowship at Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.

Scientific Expert:

- From 1992 to 1994: Agriculture expert at National Agriculture Research Center, Niamy Nigger.
- From 2006 to time being: Arab Atomic Energy Agency (AAEA), Tunisia.

Scientific Activities

Conferences:

- **1. International Conference for Plant Protection:** Gent Univ., Belgium. (1979, 1980, 1981, 1982, 1988, 1989 and 1990).
- 2. 3rd International Conference for Agriculture Development, Faculty of Agriculture Science Cairo, Egypt 1992.

- **3. 44**th **International Conference for Plant Protection:** Faculty of Agriculture & Applied Biological Sciences, Gent Univ., Belgium.1992.
- **4.** 2nd Arab Conference on the Peaceful Uses of Nuclear Energy, organized by the Arab Atomic Energy Agency, Cairo, Egypt, 1994.
- **5. BioVision Alexandria:** New life Sciences: Changing lives, 26 -29 April 2006, Alexandia, Egypt.
- **6.** 8th annual Symposium "Towards support Egypt's nuclear program" Nuclear Engineering Department Faculty of Engineering, Alexandria University, 24 June 2006.
- 7. 9th annual symposium "Towards support Egypt's nuclear program"
 Nuclear Engineering Department Faculty of Engineering, Alexandria
 University, 7 June, 2007.
- **8. 9**th **International Conference of Nuclear Sciences and Applications,** organized by the Egyptian Society of Nuclear Sciences and Applications, Sharm El-Shiekh Sinai Egypt, 11 14 February 2008.
- **9.** 3rd International Conference of Palm Dates, organized by faculty of Agriculture Sciences El Arish, Suez Canal University, Egypt, 25 27 April 2008.
- **10. Coordinator of the 1st International Conference in Radiation Sciences and Applications,** organized by the Egyptian Society of Radiation Sciences and Applications, Sharm El-Sheikh, 1 4 December 2008.
- 11. 9th Arab Conference on the Peaceful Uses of Atomic Energy, organized by the Arab Atomic Energy Agency, Beirut, 3-6 December 2008.
- **12. Coordinator of the 2nd International Conference in Radiation Sciences and Applications,** organized by the Egyptian Society of Radiation Sciences and Applications, 28 March 1 April, 2010, Marsa Alam, Egypt.
- **13.** 10th Arab Conference on the Peaceful Uses of Atomic Energy, organized by the Arab Atomic Energy Agency, Arbil Iraq, 12 -16 December 2010.
- **14.** 10th International Conference of Nuclear Sciences and Applications, organized by the Egyptian Society of Nuclear Sciences and Applications, 4 8 Feb., 2008. El Quser Egypt.
- **15. Regional Symposium on the Management of Fruit Flies in Near East Countries**, organized by the Arab Atomic Energy Agency and FAO. Hammamet, Tunisia 6 8 November, 2012.

- **16.** Chairman of the 3rd International Conference in Radiation Sciences and Applications, organized by the Egyptian Society of Radiation Sciences and Applications, 12 -16 November 2012, Hurghada, Egypt.
- 17. 11th Arab Conference on the Peaceful Uses of Atomic Energy, organized by the Arab Atomic Energy Agency, Khartoum, Sudan, 16-20 December 2012.
- **18.** Chairman of the 4th International Conference in Radiation Sciences and Applications, organized by the Egyptian Society of Radiation Sciences and Applications, 7-11 October 2014, Taba, Egypt.
- 19. Member of the organizing committee of 12th Arab Conference on the Peaceful Uses of Atomic Energy, organized by the Arab Atomic Energy Agency, Sharm El-Sheikh, Egypt, 16-20 May 2015.
- **20.** Chairman of the 5th International Conference in Radiation Sciences and Applications, organized by the Egyptian Society of Radiation Sciences and Applications, 18 -22 December 2016, Luxor-Aswan, Egypt.
- 21. Participating 13th Arab Conference on the Peaceful Uses of Atomic Energy, organized by the Arab Atomic Energy Agency, Hammamet, Republic of Tunisia, 18-22 December 2016.

Training Course & Workshop:

- Lecturer, 1st Arabic training Course: Preservation of food by irradiation and detection methods for irradiated food, organized by AAEA and EAEA, held in Cairo, Egypt, 23-27 April, 2006.
- General Coordinator and lecturer, training course: Radiation and Integrated pests Management Programs, organized by AAEA and EAEA, held in Cairo, Egypt, 25 February 1 March 2007.
- Lecturer at 2nd Arabic training Course entitled: Preservation of food by irradiation and detection methods for irradiated food, organized by AAEA and EAEA, held in Cairo, Egypt, 26-31 May, 2007.
- General Coordinator and lecturer, training course: Radiation and Integrated pests Management Programs, organized by AAEA and EAEA, held in Cairo, Egypt, March 2008.
- Lecturer, training course: Radiation and Integrated pests Management Programs, organized by EAEA, held in Cairo, July, 2008.
- Lecturer, Training course: Integrated pests Management Programs, organized by AAEA, Tunisia, 6 10 July, 2009.

- Training workshop on the Reclassification and Improving Integrated Pests Management (IPM) for Fruit Flies Control in Central and North Africa, organized by Union Africa (IAPSC) and Egypt, held in Cairo Egypt, 14 19 December 2009
- Lecturer, Training course: Integrated pests Management Programs, organized by AAEA, Tunisia, 12 18 July, 2010.
- Lecturer, 9th Arabic Training Course: Preservation of food by irradiation and detection methods for irradiated food, organized by AAEA and EAEA, held in Cairo, Egypt, 19-23 Sep., 2010.
- Lecturer, Training course: The role of food processing radioactive facilitate trade exchange between Arab countries in food, organized by AAEA and EAEA, held in Cairo, Egypt,, 10-15 Sep., 2011.
- Lecturer, training course: Radiation and Integrated pests Management Programs, organized by EAEA, held in Cairo, 8 -12 July, 2012.
- Lecturer, training course: Radiation and Integrated pests Management Programs, organized by AAEA, Tunisia, 10 -14 June, 2013.
- Training workshop "Being and Author for International Journal", organized by ELSEVIER and Egyptian Academy of Scientific Research and Technology, held in Cairo Egypt, 14 April 2014.

Scientific Committees:

- Ex., member of the International Cooperation and deployment Committee, NCRRT, EAEA.
- Ex., member of the training and research projects Committee, NCRRT, EAEA.
- Ex., member of the Sub-committee of scientific publication, NCRRT, EAEA.
- From 19/2/2003 to 2/9/2006: member of the Graduate Studies Committee, Biotechnology Division, NCRRT, EAEA.
- From 19/2/2003 to 2/9/2006: member of the technological Committee, Biotechnology Division, NCRRT, EAEA.
- From 3/9/2006 to 13/5/2009: Chairman, Technological Committee, Biotechnology Division, NCRRT, EAEA.
- From 2003 to 2011: Member of the permanent Scientific Committee for Biological and Medical Sciences, EAEA.
- From 25/5/2011 to 5/2013: Member of the permanent Scientific Committee for Agriculture Sciences, EAEA.

Academic Supervisions:

• Supervisor of Awarded 8 theses (Ph.D. and M.Sc.). Supervisor of another 4 M.Sc. thesis currently under preparing.

Scientific Reviewer:

- Reviewing 3 Ph.D. thesis and 3M.Sc.thesis.
- Participating in reviewing scientific papers by lecturers for getting associate Professor and by associate Professor for getting Professor.

Scientific Societies:

- From 31/3/2008 to time being: founder of the Egyptian Society of Radiation Sciences and Applications (ESRSA).
- Chairman of the ESRSA Board.
- Member of the Egyptian Society of Nuclear Sciences and Applications.
- Member of the Entomological Society of Egypt.

Scientific Journals:

- Editor in chief Journal of Radiation Researches and Applied Sciences
 ELSEVIER Publisher (http://www.journals.elsevier.com/journal-of-radiation-research-and-applied-sciences).
- Editor in chief of Journal of Nuclear Technology in Applied Sciences Published by ESRSA.
- Member of the advisory board: Egyptian Journal of Radiation Sciences and Applications.

Awards:

- Egyptian Atomic Energy Authority Medal for organizing 1st International Conference in Radiation Sciences and Applications, 1 4 December 2008, Sharm El-Sheikh.
- Appreciation certificate for organizing 2nd International Conference in Radiation Sciences and Applications, 28 March 1 April 2010, Marsa Alam.
- Appreciation certificate for organizing 3rd International Conference in Radiation Sciences and Applications, 12 -16 November 2012, Hurghada.

Language:

Arabic: Mother tongue. French: Excellent. English: Excellent.

List of publications

1. De Loof, A; T. Briers; M. Peferoen; <u>H. Salem</u> and P. Stoppie (1980): Ecdysteroid titre, acid phosphatase activity in the fat body and diapause proteins in relation

- to diapause induction in the Colorado potato beetle. XVI International Congress of Entomology, Kyoto, Japan PP: 104.
- **2.** Salem, H.; M. Peferoen, ADe Loofand D. Degheele (1982): Changes in the ultrastructure of the fat body of prediapausing Colorado beetles as relation to the juvenile hormone and ecdysteroid titres. General and Comparative Endocrinology, 46 (3): 86.
- **3.** <u>Salem, H.</u> and D. Degheele (1988): Influence of gamma-irradiation on the ultrastructure of the testes of the southern cowpea weevil *Callosobruchus maculatus* Fabricius (Coleoptera: Bruchidae). Parasitica, 44 (2): 59-70.
- **4.** Degheele, D.; <u>H. Salem</u>, E. De Vos and G. Hegazy (1988): Effect of gamma radiation on the ovary of adults of cabbage root fly. *Delia radicum* Bouche' (Diptera: Anthomyidae). Med. Fac. Landbouww. Rijksuniv. Gent., 53(3a): 1225-1239.
- **5.** <u>Salem. H.</u>; D. Degheele; M. Peferoen and A De Loof (1989): Ultrastructure of the fat body of prediapausing adult Colorado beetles, Leptinotarsa decemlineata Say (Coleoptera: Chrysomelidae). Med. Fac. Landbouww. Rijksuniv. Gent., 54 (3a): 767-780.
- 6. Salem. H. and D.Degheele (1989): Ultrastructure of the fat body and oenocytes of reproducing adult Colorado beetles, *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae). Med. Fac. Landbouww. Rijksuniv. Gent., 54 (3a): 781-791.
- **7.** Salem. H.; D. Degheele; D. Valcke and G. Hegazy (1989): Radiation effects on the ultrastructure of the testes of the cabbage root fly, *Delia radicum* Bouche' (Diptera: Anthomyidae). Parasitica, 45 (1): 3-12.
- **8.** <u>Salem. H.</u>; F. Many; G. Hegazy and O. Gareeb (1989): Ultrastmeture studies of radiation induced abnormalities in the testes of the Khapra-beetle, *Trogoderma granahum* Everts (Coleoptera: Dermestidae). Med. Fac. Landbouww. Rijksuniv. Gent., 54(1): 41-51.
- **9.** Hegazy, G.; A. De Cock; D. Degheele and <u>H. Salem</u> (1989): Chitin-protein biosynthesis in the cuticle relationships of four benzoylphenyl ureas in the last instar larva of *Leptinotarsa decemlineata* (Say). Med. Fac. Landbouww. Rijksuniv. Gent., 54(1): 103-114.
- **10.** De Cock, A.; G. Hegazy; <u>H. Salem</u> and D. Degheele (1989): Distribution of radiolabeled chlorfluazuron and diflubenzuron in the last instar larvae of *Leptinotarsa decemlineata* (Say) (Coleopatera :Chrysomelidae). Med. Fac. Landbouww. Rijksuniv. Gent., 54(1): 115-120.
- **11.** Salem, Hedaya (1990): Histological effects of gamma radiation on the ovaries of the cowpea weevil, *Callosobruchus maculatus* Fabricius (Coleoptera: Brachidae). 3rd Conf. Agric. Dev. Res., Fac. Agric, Ain Shams Univ. Cairo, Egypt, Dec. 22-24, 1990. Annals Agric. Sci., Special Isue, 479-495.
- 12. Ahmed, M. Y. Y; H. Salem and O. H. Gharib (1992): Effect of substerilizing

- gamma dose on mating competitiveness of *Trogoderma Granahum*. Everts males through three filial generations. Med. Fac. Landbouww. Univ. Gent, 57/3a, 715-718.
- **13.** Salem, H.; K. Van Laecke, N. Speybroeck and D. Degheele (1992): Distribution of diflubenzuron, teflubenzuron and hexaflumuron in last instar lavae of *Spodoptera exempta* (Walker) (Lepidoptera: Noctuidae). Parasitica, 48(1): 15-22.
- **14.** Salem. H.; A. El-Morsy M. Salama; A. Abdel- Rahaman and F. Megahed (1996): Effect of gamma irradiation on the ultrastructure of the ovaries of previtellogenic females of *Culex pipiens L.* Med. Fac. Landbouww. Rijksuniv. Gent, 61: 791-798.
- **15.** Salem. H; M. Salama; A. Abdel- Rahaman; A. El-Morsy and F. Megahed (1996): Ultrastructure studies of the sterilizing effect of gamma irradiation on ovaries of *Culex pipiens L*. Med. Fac. Landbouww. Rijksuniv. Gent, 61: 799-810
- **16.** Smagghe, G.; <u>H. Salem</u>; L. Tiny and D. Degheele (1996): Action of a novel insect growth tebufenozide against different developmental stages of four stored product insects. Parasitica, 52(2): 61-69.
- **17.** Smagghe, G.; <u>H. Salem</u> and D. Degheele (1996): Tebufenozide: effects of a nonsteroidal ecdysteroid agonist on cuticle formation in Indean meal moth, *Plodia interpunctella* larvae. Parasitica, 52(4): 143-151.
- **18.** Salem, H. (1996): Effectiveness of four insecticides adjuvant mixtures against susceptible and resistant strain of *Spodoptera exisua* (Huhner). Bull. Ent. Soc. Egypt, Vol. 23.
- **19.** Salem, H. (1996): Effect of 'Atplus' adjuvants on retention and elimination of ₁₄C-diflubenzuron in *Spodoptera exigua* (Hubner). Bull. Ent. Soc. Egypt, vol. 23.
- **20.** Salem, H. and M. Auda (1996): Evaluation of adjuvant- monocrotophos and diflubenzuron mixtures under greenhouse conditions and synergistic effect of adjuvant on *Spodoptera exizua* (Hubner). Bull. Ent. Soc. Egypt, Vol. 23.
- **21.** Salem, H. (1996): Effect of tebufenozide, a nonsteroidal against, on reproduction of *Spodoptera exigua* (Hubner). Med-Fac. Landhowuw, Univ. Gent, 62/1.
- **22.** Salem, H. (1997): Neem-based insecticide as a repellent growth inhibitor against the red flour betle *Tribolium Castaneum* (Coleoptra: Tenehrionidae). Med-Fac. Landhowuw, Univ. Gent, 62/1.
- **23.** Salem, H. G. Smagghe and D. Degheele (1997): Effects of tebufenozide on oocyte growthin *Plodia interpunctella*. Med-Fac. Landhowuw, Univ. Gent, 62: 9 13.
- **24.** Auda, M. And <u>H. Salem</u> (1997): Diflubenzuron effects on growth, development and digestive enzymes of the beet armyworm *Spodoptera exigua* Larvae. Bull. Ent. Soc. Egypt, vol. 24.
- **25.** Salem, H.M.; M.F. Eldegwi (1997): Effect of substerilizing doses of gamma radiation on fertility, fecundity and ovaries structure of pulse beetle *Callosobruchus maculates* female. Agric. Sci. Mansura Univ., 22(7):2441-

2450.

- **26.** Salwa, A. R., N.El-Halafawy and <u>H. Salem</u> (2001): Toxicity and effect of Margosan-o and Azadizachtin on haemocytes of *Spodoptera littoralis* (Boisd) Larvae. Bull. Ent. Soc. Egypt, vol. 28.
- **27.** Zahran, F.M.; M.A. Rizk; L.A. Youssef; <u>H. Salem</u> and I.M. Haiba (2005): Certain biological aspects of potato tuber moth, *Phthorimaea operculella* (Zeller) treated with gamma radiation. Res. Bult., Ain Shams Univ.
- **28.** M.S. Hamed; M.S. Salama; <u>H. Salem</u>; S.A. Abbassy & Y.S. Zaghloul (2009): Sterility and Associated Molecular Characteristics in Male *Callosobruchus maculatus*. J. Rad. Res. Appl. Sci., 2(3):437-651.
- **29.** M.S. Hamed; M.S. Salama; <u>H. Salem</u>; S.A. Abbassy and Y.S. Zaghloul (2009): Alteration in the protein pattern of the cowpea weevil Callosobruchus maculates treated with gamma rays. Isotope & Rad. Res., 41(4): 957 970.
- **30.** Zahran, N.F.M.; Hegazy, G.M.; <u>Salem, H.M.</u>; Elsayed, W. and Mahmoud, Y.A. (2013): The Effect of Gamma Radiation on some Biological Aspects of Peach Fruit Fly, *Bactrocera zonata* (Saunders). J. Nucl. Tech. Appl. Sci, 1 (1): 91:100.
- **31.** Salem, H.M., Fouda, M.A., Abas, A.A., Ali, W.M., Gabarty, A. (2014): Effects of gamma irradiation on the development and reproduction of the greasy cutworm, *Agrotis ipsilon* (Hufn). Journal of Radiation Research & Applied Science, 7(1): 110 115.
- **32.** Fouda, M.A., <u>Salem, H.M.</u>, Abas, A.A., Ali, W.M., Gabarty, A. (2014): Pathogencity induced by the entomopathogenic fungi *Beauveria bassiana* and *Metarhizium anisopliae* in *Agrotis ipsilon* (Hufn.). Journal of Radiation Research & Applied Science, 7(1): 95 100.
- **33.** <u>H.M. Salem</u>; M.A. Hussein; S.E. Hafez; M. A. Hussein and R.M. Sayed (2014): Ultrastructure Changes in the haemocytes of *Galleria mellonella* larvae treated with gamma irradiated *Steinernema carpocapsae* BA2. Journal of Radiation Research & Applied Science, 7(1): 74 79.
- **34.** Abass, A.A.; <u>Salem, H.M.</u>; Abd El Hamid, N.A.; Gabarty, A., Embaby, D.M. (2017): Effects of Gamma Irradiation on the Biological Activity of The Cotton Leaf Worm, *Spodoptera littoralis* (Boisd.). J. Nucl. Tech. Appl. Sci, 5(1): 19-26.

International Conference papers

1. <u>Salem, H.M.</u>; L.A. Youssef; Iman, M. Haiba and Nagwan, F.M. Zahran (2008): Combined Effect of Gamma Irradiation with Protecto on Potato Tuber Moth, *Phthorimaea operculella* Zeller. International 9th Conference of Nuclear Sciences and Applications, Organized by the Egyptian Society of Nuclear Sciences and Applications, 11-14 February 2008, Sharm El-Shiekh

- **2.** Ismail, M.S. El-Degwi, <u>Hedaya M. Salem</u> and S.A.S. El-Maasarawy (2008): Effect of gamma radiation on morphology and histology of sex pheromone gland of *Callosobruchus maculatus* (F.) female. International 9th Conference of Nuclear Sciences and Applications, Organized by the Egyptian Society of Nuclear Sciences and Applications, 11-14 February 2008, Sharm El-Shiekh
- **3.** <u>Salem, H.M.</u>; M.A. Hussein; S.E. Hafez; S.A. Rizk and R.M. Sayed (2008): Susceptibility of irradiated *Galleria mellonella* F₁ Larvae to entomopathogenic nematodes. Ninth Arab Conference on the Peaceful Uses of Atomic Energy, Beirut, 3-6 Deceber 2008.
- **4.** <u>H.M. Salem</u>; M.A. Hussein; S.E. Hafez; M. A. Hussein and R.M. Sayed (2012): Eficacy of gamma irradiated *Steinernema carpocapsae* BA2 against *Corcyra cephalonica* and *Ephestia kuehniella*. 10th International conference of nuclear sciences and applications, Quseir Egypt. 4-8 February.
- **5.** Salem, H.M.; Hegazy, G.M.; Zahran, N.F.M.; Elsayed, W. and Y.A. Mahmoud (2015): Radiation Effect on the Ulterastructure of Female Ovipositor of Peach Fruit Fly, *Bactrocera zonata* (Saunders) Twelfth Arab Conference on the Peaceful Uses of Atomic Energy, Sharm El- Sheikh, Arab- Republic of Egypt, 16-20 May 2015.
- **6.** <u>H.M. Salem</u>; M.A. Hussein; S.E. Hafez; M. A. Hussein and R.M. Sayed (2016): Biochemical Changes in the haemolymph of *Galleria mellonella* larvae infected by gamma irradiated *Steinernema carpocapsae* BA2. Thirteenth Arab Conference on the Peaceful Uses of Atomic Energy, Hammamet, Republic of Tunisia, 18-22 December 2016.
- **7.** Zahran, N.F.M.; Hegazy, G.M.; <u>Salem, H.M.</u>; Elsayed, W. (2016): Influence of Gamma Radiation on Elemente Composition in Peach Fruit Fly, *Bactrocera zonata* (Saunders). Thirteenth Arab Conference on the Peaceful Uses of Atomic Energy, Hammamet, Republic of Tunisia, 18-22 December 2016.