

CURRICULUM VITAE

Nadia Helmy Ahmed, M.Sc., Ph.D.
Professor (Medical Entomology)

GENERAL INFORMATION:

Nationality: Egyptian.

Date & Place of Birth: January 1, 1957 (Cairo, Egypt).

Marital Status: Married (Two children).

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EDUCATION:

B.Sc. Entomology, Faculty of Science, Ain Shams University, Cairo, (1978).

M.Sc., Ain Shams University, Cairo, (1982). Thesis: “Seasonal dynamics and incidence of infection with the relapsing fever spirochetes *Borrelia crocidurae*, in Egypt and biological studies in the female *Ornithodoros erraticus* tick.

Ph.D., Ain Shams University, Cairo, (1988). Thesis: “Neuroendocrine-reproduction interrelationships in the female tick *Argas (Argas) hermanni* Audouin.

PROFESSIONAL POSITIONS:

Entomology Department, Faculty of Science, Ain Shams University:

Demonstrator: (1978 – 1982).

Assistant Lecturer: (1982 – 1988).

Lecturer (Medical Entomology): (1988 – 1993).

Assistant Professor: (1993 – 2000).

Professor (Medical Entomology): (2000 – Present).

Naval Medical Research Unit No. 3 (NAMRU-3):

Guest Investigator in Medical Zoology Department and Biochemical Department (Tick born diseases and tick physiology) : (1980-1988).

Consultant in Medical Zoology Department (Tick born diseases and tick physiology): (1988 – 1992).

Research and Training Center on Vectors of Diseases (RTC), Ain Shams University:

Investigator (Tick born Rickettsial diseases project): (1988 – 1991).

Principal Investigator (Tick born borrelial and rickettsial diseases projects): (1995 – 2003).

Principal Investigator (Characterization of Rickettsiae & Borreliae infecting two common Ixodid ticks in Egypt and specificity of pathogens to the tick vectors).(2006-present).

Awards & appreciation certificates:

1-Appreciation certificate from the United States Naval Medical Research Unit No 3(NAMRU-3) in Cairo, Egypt for participation in the tropical medicine course (Endemic diseases of northern Africa & Southwest Asia) (1998).

2-Award & appreciation certificate of Ain Shams University Cairo, Egypt for the best distinguished research in the university.(2001).

Training programs :

1-Decision-making and Problem solving.(11-13 / 12 / 2004)

2-Management of Human Resource. (18-21 / 6 / 2005)

3-Legal Aspect in Universities. (10-12 / 9 / 2005)

PUBLICATIONS:

(1983):

(1) Helmy, N., G.M. Khalil, and H. Hoogstraal, 1983. Hyperparasitism in *Ornithodoros erraticus*. J. Parasitol. 69(1): 229-233.(U.S.A).

(1984):

(2) Khalil, G.M., N. Helmy, H. Hoogstraal, and A. El Said, 1984. Seasonal dynamics of *Ornithodoros (Pavlovskyella) erraticus* (Acari: Ixodidae: Argasidae) and spirochete *Borrelia crocidurae* in Egypt. J. Med. Entomol. 21(5): 536-539.(U.S.A).

(1986):

(3) Khalil, G.M., N. Helmy, H. Hoogstraal, and A. El Said, (1986). Female *Ornithodoros (Pavlovskyella) erraticus* (Acari: Ixodidae: Argasidae): Effect of feeding. J. Med. Entomol. 23(4): 380-383.(U.S.A).

(1990):

(4) Shanbaky, N.M., M.M. Mansour, and N. Helmy, 1990(a). Changes in total hemolymph and ovary proteins during oogenesis in *Argas (Argas) hermanni* (Acari: Argasidae). J. Med. Entomol. 27(6): 982-985.(U.S.A).

(5) Shanbaky, N.M., M.M. Mansour, A.J. Main, A. El Said, and N. Helmy, 1990(b). Hormonal control of vitellogenesis in *Argas (Argas) hermanni* Audouin (Acari: Argasidae). J. Med. Entomol. 27(6): 968-974. (U.S.A).

(6) Shanbaky, N.M., M.M. Mansour, A.J. Main, and N. Helmy, 1990(c). Vitellogenic and nonvitellogenic proteins in hemolymph, ovaries and eggs of *Argas (Argas) hermanni* (Acari: Argasidae). J. Med. Entomol. 27(6): 986-992. (U.S.A).

(7) Shanbaky, N.M., A. El Said, and N. Helmy, 1990(d). Changes in neurosecretory cell activity in female *Argas (Argas) hermanni* Audouin (Acari: Argasidae). J. Med. Entomol., 27(6): 975-981. (U.S.A).

(1991):

(8) Lotfy, N.M., and N. Helmy, 1991. Effect of different nutritive media on the toxicity of *Bacillus sphaericus* 1593-4 as mosquito larvicide. Ain Shams Science Bulletin: 28(b): 299-314.

(1992):

(9) Gadallah, A.I., and N. Helmy, 1992. Effect of 20-hydroxy ecdysone on Haemolymph proteins of the female tick, *Hyalomma dromedarii* koch (Acari: Ixodidae) during oogenesis. Al-Azhar J. Agricol. Res. Vol. 16: 94-108.

(10) Helmy, N., 1992. Effect of 20-hydroxy ecdysone on haemolymph isozyme patterns of the female camel tick, *Hyalomma dromedarii* koch (Acari: Ixodidae) during vitellogenesis. Al-Azhar J. Agricol. Res. Vol. 16: 109-124.

(11) Helmy, N. and A.I. Gadallah, 1992. The activity of certain enzymes in the tick, *Argas (Argas) hermanni* during embryogenesis. Al-Azhar J. Agricol. Res. Vol. 15, 301-312.

(1995):

(12) Abbassy, M.M., N. Helmy, M. Osman, S.E. Cope, and S.M. Presley, 1995(a). Embryogenesis of *Phlebotomus papatasi* sand fly (Diptera: Psychodidae): Cell cleavage, Blastoderm formation and gastrulation. Ann. Entomol. Am. Soc. 88: 809-814. (U.S.A).

(13) Abbassy, M.M., N. Helmy, M. Osman, S.E. Cope and S.M. Presely, 1995(b). Embryogenesis of *Phlebotomus papatasi* sand fly (Diptera: Psychodidae): Organogenesis including: Segmentation, Blastokinesis, Mouth parts and Alimentary canal. Ann. Entomol. Soc. 88: 815-820. (U.S.A).

(14) Abbassy, M.M., N. Helmy, M. Osman, S.E. Cope, and S.M. Presely, 1995(c). Embryogenesis of *Phlebotomus papatasi* sand fly (Diptera: Psychodidae) Organogenesis of the nervous system, tracheal system, muscular system, the heart and gonad rudiments. Ann. Entomol. Am. Soc. 88: 821-826. (U.S.A).

(1996):

(15) Helmy, N. N. Lotfy, and A. Abd-ElMohsen, (1996). Dynamics of *Borrelia crocidurae* infection in the mid gut and hemolymph of *Ornithodoros (Pavlovskyella) erraticus* and localization of the spirochete in the mid gut wall. Ain Shams Science Bulletin, 34: 405-423.

(1999):

(16) Guneidy, N.A., N. Helmy, S.M. El-Bermawy, and M.S. Hamed, 1999. Potency of insecticide treatments on reproduction and some physiological aspects in the house fly *Musca domestica* (L.). Ain Shams Science Bulletin , 35:

(17) Helmy, N., N.M. Shanbaky, H.M. Roushdy, and Y.S. Zaghoul, 1999(a). Studies on histopathological changes in gonads of *Cimex lectularius* (L.) sterilized by gamma radiation. J. Egypt. Soc. Parasitol. 29(3): 1049-1059.

(18) Helmy, N., N.M. Shanbaky, H.M. Roushdy, and Y.S. Zaghoul, 1999(b). Changes in the total protein in the gut and ovaries of *Cimex lectularius* (L.) sterilized by gamma radiation. J. Egypt. Soc. Parasitol. 29(3): 1061-1071.

(2000):

(19) Bakr, R.F.A., N.A. Guneidy, S.M. El-Bernawy, N. Helmy, and I. Abu-El-Yazid, 2000. Toxicological effect and ultrastructural changes in *Musca domestica* larvae (Diptera: Muscidae) induced by insect growth regulator (IGR); Admiral combined with new pyrethroid insecticide. J. Union Arab Biol. Vol. 13(A) Zool. (7th Int. Conference Mansora University).

(20) El-Hossary, S.S., M.G. Shehata, N. Helmy, R.P. Lane, and B.M. El-Sawaf, 2000. Studies on the Phlebotomine sand flies (Diptera: Psychodidae) and rodents in a Cutaneous Leishmaniasis focus in Nekhel, North Sinai, Egypt. J. Union Arab Biol. Vol. 13(A) Zool. (7th Int. Conference, Mansora University).

(21) Helmy, N., 2000. Seasonal abundance of *Ornithodoros (O.) savignyi* and prevalence of infection with *Borrelia* spirochetes in Egypt. J. Egypt. Soc. Parasitol. 30(2): 607-619.

(22) Helmy, N. 2000. Prevalence of *Borrelia crocidurae* in *Ornithodoros (Pavlovskyella) erraticus* (Acari: Argasidae) and rodent hosts in Egypt. J. Union Arab Biol. Vol. 13(A) Zool. (7th Int. Conference Mansora University).

(23) Shanbaky, N.M. and N. Helmy, 2000. First record of natural infection with *Borrelia* in *Ornithodoros (Ornithodoros) savignyi*. Reservoir potential and specificity of the tick to *Borrelia*. J. Egypt. Soc. Parasitol. 30(3): 765-780.

(2006):

(24) Abd El-Baky, S.M.M., N. Helmy, A. El Abbas, A. Abdel Mohsen, and E.S. Awaad, 2006. Prevalence of borrelian infections in tick vectors and vertebrate hosts in Esmailiyya governorate, Egypt. J. Agric. Sci. Mansoura Univ., 31 (4):2387-2403.

(25) El Abbas, A., S.M.M, Abd El-Baky, N. Helmy, A. Abdel Mohsen, and E.S. Awaad, 2006. Seasonal abundance of hard ticks (Ixodidae) in two localities (Giza and Esmailiyya governorates) of Egypt. Sci. J. Fac. Sci. Minoufia Univ., Vol. XX:65-87.

(26) Helmy, N. A. El Abbas, S.M.M., Abd El-Baky, A. Abdel Mohsen, and E.S. Awaad, 2006. Prevalence of borrelian infections in tick vectors and vertebrate hosts in Giza governorate, Egypt. . Sci. J. Fac. Sci. Minoufia Univ., Vol. XX:101-131.

(2007):

(27) Awad.A.A.,M.A.Kenawy,A.M.El-Shafei,N.Helmy,Y.Z.A.El-Zohery and Y.M. Abdel-hamid, 2007.The biological effects of the Jh-analogue, pyriproxyfen on the house-dust mites: *Dermatophagoides pteronyssinus* and *D.Farinae (Acari :Pyroglyphidae)*. J.union. Arab. Biol. Cairo, 27A Zool.: 117:128

(28)Kenawy,M.A.,A.A.Awad,N.Helmy,A.M.El-Shafei,Y.Z.A.El-Zohery andY.M.Abdel-hamid,2007.Mice responses to allergens of the two common house dust mites, *Dermatophagoides pteronyssinus* and *Dermatophagoides farinae*. J. Egypt. Ger. Soc. Zool, 53A: 101:111

(2008):

(29) Helmy, N., A.A. Awad, Y.M. Abdel-hamid, M.A. Kenawy, A.M. El-Shafei and Y.Z.A. El-Zohery, 2008. Protein pattern of Admiral treated and untreated house dust mites: *Dermatophagoides pteronyssinus* and *Dermatophagoides farinae* (Acarina: Pyroglyphidae). J. Egypt. Soc. Parasitol. (in press)

(30) Radwan, W.A., N. Helmy, N.A. Guneidy, and S.S. Mohammed, 2008. Ultrastructure study of normal and treated with Admiral embryo of the soft tick *Argas persicus* (Oken) (Acari: Argasidae). J. Egypt. Soc. Parasitol. 38 (3) 823-832 .

(31) Radwan, W.A., N. Helmy, N.A. Guneidy, and S.S. Mohammed, 2009. Effect of juvenile hormone analogue (Admiral) on viability of eggs of the soft tick *Argas persicus* (Oken) (Acari: Argasidae). Egypt. Acad. J. Biolog. Sci. 2(1) 37-45.

(32) Helmy, N., N.A. Guneidy, W.A. Radwan, and S.S. Mohammed, 2008. Effect of juvenile hormone analogue (Admiral) on the embryonic development of the soft tick *Argas persicus* (Oken) (Acari: Argasidae). (In Preparation).

(33) Awad, A.A., M.A. Kenawy, N. Helmy, A.M. El-Shafei and Y.Z.A. El-Zohery, 2008. House-dust mites from some houses of Asthmatic patient in Cairo, A.R. Egypt. (in preparation).

(34) El-Zohery, Y.Z.A., A.A. Awad, A.M. El-shafei, N. Helmy and M.A. Kenawy, 2008. Levels of five biochemical parameters in Asthmatic patient's blood as markers for bronchial asthma induced by the house-dust mite allergy. (in preparation).

(35) Helmy, N., N.M. Shanbaky and A. Abdel Mohsen, 2008. Effect of temperature on the competence of *Ornithodoros (P.) erraticus* as a vector of the relapsing fever spirochete *Borrelia crocidura* (in preparation).