

**Ashraf Mashaly**  
**B.Sc., M.Sc., Ph.D.**

**PERSONAL DETAILS**

**Title:** Prof.  
**Current position:** Professor  
**Date of Birth:** 30/10/1969  
**Nationality:** Egyptian  
**Address (Work):** 1. Zoology Department  
Faculty of Science  
Minia University  
Minia, Egypt  
  
2. Zoology department  
College of Science  
King Saud University  
Riyadh, Kingdom of Saudi Arabia  
**E-mail:** [mmashely@ksu.edu.sa](mailto:mmashely@ksu.edu.sa)  
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**EDUCATION**

**PhD** April, 2000 - Nov, 2004: Entomology (Neuroscience), Dept. of Cell Biology, Institute of Zoology and Anthropology, University of Göttingen, Göttingen, Germany, titled: Neurogenesis, Growth and Integration of Local Nerve Cells in a Multisensory Compartment in the Central Brain of Mature Insects. A Light and Electron Microscopic Study of the Mushroom Bodies in the Cricket *Gryllus bimaculatus*  
**M.Sc.** Dec, 1994 - Dec, 1996. Entomology (Insect Physiology): Zoology Dept., Minia University, Egypt, titled: Studies on the pheromones of some myrmicine ant species.  
**B.Sc.** May, 1991. Entomology, Entomology Dept, University of Zagazig, Benha Branch, Egypt.

**APPOINTMENTS**

**Professor** 2017- Present: Zoology Department, Faculty of Science, King Saud University, Saudi Arabia  
**Associate Professor** 2011- Present: Zoology Department, Faculty of Science, King Saud University, Saudi Arabia  
**Lecturer** March 2005 -2011: Zoology Department, Faculty of Science, Minia University, El-Minia, Egypt  
**Assistant Lecturer** 1997 to March 2005: Zoology Department, Faculty of Science, Minia University, El-Minia, Egypt  
**Demonstrator** 1992 to 1997: Zoology Department, Faculty of Science, Minia University, El-Minia, Egypt.

## Publications

### A. Peer-Reviewed Articles:

1. **Ashraf Mashaly**, Reem Alajmi, Abd El-Zaher Mustafa, Ahmed Rady and Hussein Alkhedir (2017). Species abundance and identification of forensically important flies of Saudi Arabia by DNA barcoding. *Journal of Medical Entomology*. 54(4): 837-843.
2. **Ashraf Mohamed Ali Mashaly** (2017). Carrion beetles succession in three different habitats in Riyadh, Saudi Arabia. *Saudi Journal of Biological Sciences*, 24, 430–435.
3. Fahd A. Al-Mekhlafi, Nael Abutaha, **Ashraf M.A. Mashaly**, Fahd A. Nasr, Khalid E Ibrahim, Muhammad A. Wadaan (2017). Biological Activity of *Xanthium strumarium* Seed Extracts on Different Cancer Cell Lines and the Larvae of *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). *Saudi Journal of Biological Sciences*, 24: 817-821.
4. R. A. Alajmi, H. Al-Jefry, A. Farrukh and H. Aljohani, **A. M. A. Mashaly** (2016). First Report of Necrophagous Insects on Human Corpses in Riyadh, Saudi Arabia. *Journal of Medical Entomology*. 53(6): 1276-1282.
5. **Ashraf Mohamed Ali Mashaly** (2016). Entomofaunal succession patterns on burnt and unburnt rabbit carrion. *Journal of Medical Entomology*. 53(2): 296–303.
6. **Ashraf Mohamed Ali Mashaly**, Fahd A. Al-Mekhlafi (2016). Differential Diptera succession patterns onto decomposed rabbit carcasses in three different habitats. *Journal of Medical Entomology*, 53(5), 1192–1197
7. Fahd Mohammed A. Abd-Algalil, Sureshchandra Popat Zambare, **Ashraf Mohamed Ali Mashaly** (2016). First record of *Chrysomya saffrana* (Diptera: Calliphoridae) of forensic importance in India. *Tropical biomedicine* 33(1): 102-108.
8. Fahd Mohammed A. Abd-Algalil, Sureshchandra Popat Zambare, **Ashraf Mohamed Ali Mashaly** (2016). Impact of *Megaselia scalaris* on the life cycle stages of the sarcophagid fly, *Parasarcophaga ruficornis*. *Entomologia Generalis*. 36(1): 25-32.
9. Alkhedir, Hussein; Karlovsky, Petr; **Mashaly, Ashraf**; Vidal, Stefan (2016). Specialization and host plant use of the common clones of *Sitobion avenae*. *Applied Entomology and Zoology*. 51:289–295.
10. **Ashraf M. A. Mashaly**, Ayman El-Faham (2016). Larvicidal activity of N1,N1,N4,N4-tetramethylpiperazine-1,4-dicarboxamide against *Aedes caspius* and *Culex pipiens*. *Pakistan Journal of Zoology*, 48(2): 493-499.
11. Hussein Alkhedir; Petr Karlovsky; **Ashraf Mohamed Ali Mashaly**; Stefan Vidal (2015). Phylogenetic relationships of the symbiotic bacteria in the aphid *Sitobion avenae* (Hemiptera: Aphididae). *Environmental Entomology*, 44(5): 1358-1366.
12. Nael Abutaha, **Ashraf M.A. Mashaly**, Fahd A. Al-Mekhlafi, Muhammed Farooq, Mohammed Al-shami, Muhammad A. Wadaan (2015). Larvicidal activity of endophytic fungal extract of *Cochliobolus spicifer* on *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). *Applied Entomology and Zoology*, 50: 405-414.
13. Hussein Alkhedir, Antje Habekuss, Edgar Schliephake, **Ashraf Mashaly** and Stefan Vidal (2015). Do secondary bacterial endosymbionts of aphids affect the vector specificity or transmission efficiency of plant viruses?. *African Entomology*, 23(2): 356–360.
14. Mohammed Saleh Al-Khalifa, **Ashraf Mohamed Ali Mashaly**, Mohammed Iqbal Siddiqui, Fahd Abdu Al-Mekhlafi (2015). Samsun Ant, *Brachyponera sennaarensis* (Formicidae: Ponerinae): Distribution in Saudi Arabia. *Saudi journal of biological sciences*, 22: 575-579.
15. **Mashaly, A.M.A.**, Ahmed, A.M., Túlio M. Nunes, Morgan, D. (2014). Secretions of the Dufour's gland of some formicidae ants. *African Entomology* 22(4): 779-782
16. Jamal Khaled, Fahd Al-Mekhlafi, Nael Abutaha, **Ashraf Mashaly**, Abdulla Khalel, Mohamed Wadaan (2014). Efficacy of entomopathogenic fungi isolated from the nest of the samsun ant, *Pachycondyla*

- sennaarensis* against larvae of the mosquitoes *Aedes caspius* and *Culex pipiens*. *Entomologia Generalis*. 35(2): 77- 86
17. **Ashraf Mohamed Ali Mashaly**, Muhammad Farooq, Wael Hozzein, Abdullah Mohammed Al-Qahtani, Fahd Abdu Al-Mekhlafi (2014). Assessment of Toxic Baits for the Control of the Samsun Ant, *Pachycondyla sennaarensis* (Formicidae: Ponerinae). *African Entomology* 22(1): 204-209
  18. **Mashaly, A.M.A.**, Al-Mekhlafi, F.A. and Al-qahtani, A.M. (2013). Food Preferences and Foraging Activity of Field Populations of a Samsun Ant, *Pachycondyla sennaarensis*. *Bulletin of Insectology*. 62(2): 187-193
  19. Fahd A. Al-Mekhlafi, Nael Abu Taha, **Ashraf M.A. Mashaly**, and Mohamed A. Wadaan (2013). Larvicidal Activity of Selected Xerophytic Plants Against *Culex pipiens* and *Aedes caspius* (Diptera: Culicidae). *Pakistan J. Zool.*, vol. 45(1): 241-246
  20. Hustert R., **Mashaly, A.M.A.** (2013). Spontaneous behavioral rhythms in the isolated CNS of insects – Presenting new model systems. *Journal of Physiology*, 107: 147–151.
  21. Al-Mekhlafi, F.A., **Mashaly, A.M.A.**, Wadaan, M.A., Al-Mallah, N.M. (2012). Overlap effects of Cryomazine concentration, treatment method and rearing temperature on Southern cowpea weevil *Callosobruchus maculatus* reared on Mung bean. *Pakistan journal of Zoology*, 44(1): 285-290.
  22. Al-Mekhlafi, F.A., **Mashaly, A.M.A.**, Ebaid, H., Wadaan, M.A., Al-Mallah, N.M. (2012). Control of the seed beetle *Callosobruchus muculatus* reared on chickpeas by different applicable conditions of the insect growth regulator, Cyromazine. *Scientific Research and Essays*, 7(1): 55-60.
  23. Al-Mekhlafi, F.A., **Mashaly, A.M.A.**, Wadaan, M.A., Al-Mallah, N.M. (2012). Effect of different applicable conditions of the insect growth regulator (Cyromazine) on the Southern cowpea weevils, *Callosobruchus maculatus* reared on peas. *Pakistan journal of Zoology*, 44(2), pp.481-488.
  24. Mahmoud Fadl Ali, **Ashraf Mohamed Ali Mashaly**, Tarek Mohamed Abd El Aziz (2011). The bioactivity of some plant extracts against the carpet beetle *Attagenus fasciatus* (Thunberg) (Coleoptera: Dermestidae). *J. Egypt Ger. Zool.* 63E, *Entomology*, 71-98.
  25. **Mashaly, A.M.A.**, Ahmed, A.M. Al-Abdula, M.A. and Al-Khalifa, M.S. (2011). The trail pheromone of the venomous samsun ant, *Pachycondyla sennaarensis*. *J. Insect Science*, 11: 1-12.
  26. **Mashaly, A.M.A.**, Shoker, N.I. and Negm, M.W. (2011). Observations on mites associated with three ant species (Hymenoptera: Formicidae), from Saudi Arabia. *Pakistan journal of Zoology* 43(6):1095-1100.
  27. **Mashaly, A.M.A.** (2011). Trail communication in two Messor species, *Messor meridionalis* and *Messor foreli* (Hymenoptera: Formicidae). *Italian journal of Zoology*, 78(4): 524-531.
  28. Al-Mekhlafi, F.A., **Mashaly, A.M.A.**, Wadaan, M.A., Al-Mallah, N.M. (2011). Cryomazine concentration and host type effects on the biology of the southern cowpea weevil *Callosobruchus maculatus* F. *African journal of microbiology research*, 5(20): 3321-3326.
  29. Al-Mekhlafi, F.A., **Mashaly, A.M.A.**, Wadaan, M.A., Ahmed A. Mahmoud Abdel Mageed, Al-Mallah, N.M. (2011). Overlap effects of cyromazine concentration, treatment method and rearing temperature on the Southern cowpea weevil *Callosobruchus maculatus* F. reared on cowpea. *African journal of microbiology research*, 5(32): 5848-5853.
  30. Ali, M. F., **Mashaly, A.M.A.**, Mohammed A.A. and Abo El -Magd M.M. (2011). Effect of temperature and relative humidities on biology of the carpet beetle *Attagenus fasciatus* (Thunberg) (Coleoptera: Dermestidae). *Journal of Stored Products Research*, 47(1): 25-31
  31. Siddiqui, M.I., **Mashaly, A.M.A.**, Ahmed, A.M., Fahd A. Al-Mekhlafi, Al-Khalifa, M.S. (2010) Ultrastructure of Antennal Sensilla of the Samsun ant, *Pachycondylla sennaarensis* (Hymenoptera: Formicidae: Ponerinae) from Saudi Arabia. *African Journal of Biotechnology*, Vol. 9(41), pp. 6956-6962

32. Al-Khalifa, M.S., Ahmed, A.M., **Mashaly, A.M.**, Al-Mekhlafi, F. Khalil, G., Siddiqui, M.I. and Ali, M.F. (2010). The samsum ants, *Pachycondyla sennaarensis*: Distribution and seasonal changes in Riyadh region. Pakistan journal of Zoology, 42(6), pp. 707-713
33. **Mashaly, A.M.A.** (2010). Monomorium ant's trail pheromones: Glandular source, optimal concentration, longevity and specificity. J. Asian Pacific Entomol. 13: 23-26
34. **Mashaly, A.M.A.**, Ali, A.S., Ali, M.F. (2010). Source, optimal dose concentration and longevity of trail pheromone in two Monomorium ants (Formicidae: Hymenoptera) Journal of King Saud University - Science. 22 (2): 57-60.
35. **Mashaly, A.M.A.**, Ahmed, A.M., Al-Khalifa, M. S., Túlio M. Nunes, Morgan, D. (2010). Identification of the alkaloidal venoms of some Monomorium ants of Saudi Arabia. Biochemical Systematics and Ecology 38:875–879.
36. **Ashraf Mashaly**, Margret Winkler, Ina Frambach, Heribert Gras, Friedrich-Wilhelm Schürmann (2008). Sprouting interneurons in mushroom bodies of adult cricket brains. The Journal of Comparative Neurology. 508 (1): 153-174.
37. **Mashaly A.M.A.**, Ali, A.S. Ali, M.F. (2008). Trail Communication In *Paratrechina longicornis* (Latreille) and *Paratrechina vividula* (Nylander) (Hymenoptera: Formicidae). Egypt. J. Zool., 51:449-459.
38. **Mashaly A**, Schürmann F-W, Frambach I. (2003). A substrate for plasticity: Sprouting neurons in an olfactory neuropile of the mature cricket brain. Comp Biochem Physiol 134A:S67–S68.
39. Ali M. F. and **Mashaly A.M.A.** (1997): Trail pheromone investigation of some Pheidole ants (Formicidae: Hymenoptera). Egypt. J. Zoo. 28: 113-123.
40. Ali M. F. and **Mashaly A.M.A.** (1997): Study on trail pheromone of three myrmicine species, *Leptothorax angulatus* Mayr, *Tetramorium simillimum* Smith and *Crematogaster inermis* Mayr (Formicidae:Hymenoptera). J. Egypt Ger. Zool. 24, 1-16(E).

#### B. Peer-Reviewed Articles in different disciplines:

41. Ahmed H. Mahmoud, **Ashraf M. Mashaly**, Ahmed M. Rady, Khalid M. Al-Anazi, Amgad A. Saleh (2017). Allelic variation of Melanocortin-1 Receptor (MC1R) locus in Saudi indigenous sheep exhibiting different color coats. Asian-Australasian Journal of Animal Sciences. 30(2):154-159.
42. Nael Abutaha, **Ashraf MA Mashaly**, Muhammad Farooq and Muhammad A Wadaan (2015). Apoptotic Potential of Artemisia sieberia Besser (Asteraceae) Fraction against Human Cancer Cell Lines. Tropical Journal of Pharmaceutical Research, 14(10): 1779-1785.
43. Khalil A.I., Hassouna M.S., Shaheen M.M., Abou Bakr M.A., **Mashaly A.M.A.** (2014). Monitoring of physical, chemical, microbial and enzymatic parameters during composting of municipal solid wastes: a comparative study. Journal of Pure and Applied Microbiology. 8(1): 211-224.
44. Hossam Ebaid, Iftekhar Hassan, Samir Bashandy, Nael Abu Taha, Amer Mahmood, Suliman Alomar, Ibrahim Alhazza, **Ashraf Mashaly**, Ahmed Rady (2014). Zinc improves the immune function and the proliferation of lymphocytes in Cadmium-treated rats. Experimental immunology, 39 (4): 441-448.
45. Khalid A. Ali AbdelRahim, Abdullah A. Al-Arfaj, **Ashraf M. A. Mashaly** and Klaus Rudolph (2013). Plasmids in races of *Xanthomonas axonopodis* pv. malvacearum (Xam), the causal agent of bacterial blight of cotton. African Journal of Microbiology Research. 7(9): 807-813.

#### C. Abstracts from Meetings and Conferences

1. 3<sup>rd</sup> International Arab Forensic Science & Forensic Medicine Conference (ASFSFM 2017). 21-23 November, Riyadh, Saudi Arabia
2. 32<sup>nd</sup> Meeting of the Saudi Biological Society. Makkah Al-Mukarrama, Saudi Arabia, April 18-20, 2017. Factors affecting decomposition and carrion insect succession, in Riyadh, Saudi Arabia.

3. 2<sup>nd</sup> Saudi International Conference of Forensic Medicine and Sciences, Riyadh, Saudi Arabia, 5-8 March, 2017. Forensic entomology in Saudi Arabia.
4. 12<sup>th</sup> Meeting of the European Association of Forensic Entomology (Huddersfield, UK, May 0<sup>y</sup>-09, 2015). Dipterans associated with a decomposing animal carcass in Riyadh, Saudi Arabia
5. 1<sup>st</sup> International Conference of Funerary Archaeoentomology (Huddersfield, UK, May 06, 2015).
6. 30<sup>th</sup> annual meeting of the Saudi Biological Society. Tabuk, Saudi Arabia, April 07-09, 2015. The decomposition of rabbit carcasses and associated Diptera in Riyadh, Saudi Arabia.
7. Asian conference on engineering and natural sciences. Tokyo, Japan, February 03-05 (2015). Trail Pheromones in samsum ant Control.
8. 8<sup>th</sup> International Congress of Dipterology, Potsdam, Germany, August 10-15 (2014). (A. preliminary study of forensically important necrophagous Diptera in Riyadh, Saudi Arabia).
9. International Symposium on Insects, "Insect, Human & Environment" Kuala Lumpur, Malaysia, December 3-5, 2012. (Secretions of the Dufour's gland of some ants of Saudi Arabia).
10. Third Biopesticide International Conference" held at St. Xavier's College, Manonmaniam Sundaranar University, Tamil Nadu, India from 28 - 30 November (2011). (Assessment of the toxicity of selected plant extracts against the Samsum ant, *Pachycondyla sennaarensis* (Hymenoptera: Formicidae)
11. 26<sup>th</sup> annual meeting of the Saudi Biological Society: Climate change and biodiversity in collaboration with the University of Taif and the General Presidency of Meteorology and Environment Protection, and the Saudi Organization for the Protection of Wildlife Prince Sultan chair of the environment and wildlife (10-12/5/2011).
12. The 9th Göttingen Meeting, Georg- August- Universität in Göttingen, Germany. March 23-27, (2011). 'Local distribution of serotonin-immunoreactive fibres in mushroom body compartments of mature cricket brains'.
13. 25<sup>th</sup> annual meeting of the Saudi Biological Society: "Nanotechnology in life sciences" in collaboration with Gaml Research Center, King Faisal University and King Abdullah Institute for Nanotechnology at King Saud University (11-13/5/2010).
14. Fourth Saudi Conference for Science: the contribution of colleges of Science in Saudi Arabia in the course of development. College of Science, Taibah University, Al-Madinah Al-Monawwara, Saudi Arabia, (22-24/3/2010).
15. The first scientific meeting of the Chair of advanced proteomics and cytomics research in collaboration with the Research Chair of Medical and Molecular Genetics: trend in modern drug discovery and metabolic disorders, (9/6/2009).
16. International Conference on Nanotechnology industry - leading technology for the twenty-first century - King Abdullah Institute of Nanotechnology 5-7/4/2009.
17. 24<sup>th</sup> annual meeting of the Saudi Biological Society: Biotechnology, the reality and Applications: Al-Madinah Al-Monawwara: Saudi Arabia (7-9/4/2009).
18. 29th Göttingen Neurobiology Conference, Göttingen, Germany, 12 - 15. June 2003, Poster presentation; Integration of growing local interneuron into the mushroom body system of mature cricket brains is reflected by structure.
19. SEB Annual Meeting, Southampton, England, 31st March – 4th April 2003, Poster presentation; A substrate for plasticity: Sprouting neurons in an olfactory neuropile of the mature cricket brain.
20. 28th Göttingen Neurobiology Conference, Göttingen, Germany, June 7 - 10, 2001.

#### D. Books

1. English to Arabic book translation (2014): (Insect Biotechnology). King Saud University Press.
2. Book Chapter (2012): Trail Pheromones in Pest Control. In: New Perspectives in Plant Protection. Edited by Ali R. Bandani, InTech

## E. Supervision of graduate students

### **Master Degree:**

#### **A- Finished:**

##### **I. Minia University**

1. Asmaa Ahmed Mohamed (Effect of Temperature and Relative Humidities on the Biology of *Attagenus fasciatus* (Thunberg) (Coleoptera: Dermestidae). *Date of grant: 23/1/2008*
2. Asmaa Saber Ali (Detection of the trail pheromone source and effect of certain factors on trail following activity of some ants) *Date of grant: 27/10/2009.*
3. Tariq Mohamed Abdel-Aziz (Vital activity of some plant extracts against the carpet beetle (*Attagenus fasciatus* (Thunberg) (Coleoptera: Dermestidae)

##### **II. King Saud University**

1. Musa Abdullah Al-Abdullah (Seasonal Survey of the Black Samsum Ant, *Pachycondyla sennaarensis* (Hymenoptera: Formicidae) in Ehsaa' Governorate and Studying the Role of Trail Pheromone in its Social Life).
2. Abdullah Mohamed Al-Kahtany (Biocontrol of the black samsum ant *Pachycondyla sennaarensis* (Hymenoptera: Formicidae).
3. Halla Al-Johany (Molecular Identification of the Forensically Important Beetles (Coleoptera) Based on COI Gene in Selected Regions of Saudi Arabia).
4. Medghom Al-Sebaiy (Seasonal diversity of carrion insects in Riyadh).

#### **B. In progress**

##### **I. King Saud University**

1. Afnan Al-Qurshi (Influence of Seasonal Diversity on Insect Succession and Rabbit Carcasses Decomposition in the Coastal Area, Al-Jubail, kingdom of Saudi Arabia).

### **PhD degree**

#### **A. In progress**

##### **I. King Saud University**

1. Abdullah Mohamed Al-Kahtany (Effect of Heroin and Alcoholic beverage on Carrions Decomposition and Succession and Development of Forensically Important Insects).
2. Noura Al-Otabei (Molecular Diversity of Subterranean Termites (Order: Isoptera) in Riyadh and Taif Cities, Saudi Arabia).
3. Abdulmani Al-Kahtany (Study of Forensically Important Insect species Attracted to Human Corpses in Riyadh Region, Saudi Arabia).

### **Participate in projects and applied research:**

1. Principle investigator of the research group project (No. RGP- 028) belong to Deanship of Scientific Research at king Saud University. 2011-2017

2. CO- investigator in the project (Modulation of some immunological disorders associated with allergy caused by venom of the samsum ant, *Pachycondyla sennaarensis* by some medicinal plants). King Abdulaziz City for Science and Technology (KACST- MS-35-233) -2015.
3. Principle investigator in the project (Molecular identification of some forensically important fly of Saudi Arabian regions), King Abdulaziz City for Science and Technology (KACST- MS-34-103) - 2014.
4. Principle investigator in the project (A Study of Forensically Important Diptera in Riyadh Region, Saudi Arabia), King Abdulaziz City for Science and Technology (KACST- Ms-34-68) – 2013.
5. CO- Principle investigator in the project (Studies on the Samsum ant and the effectiveness of venom extract on breast cancer cells). Deanship of Scientific Research, KSU. (NLCP-1/2009)
6. Principle investigator in the project (The trail pheromone and humoral immune responses of the *Monomorium* ants (Hymenoptera: Formicidae): a step towards an integrated control strategy). Research center, College of Science. (Zoo/2009/44)
7. CO- Principle investigator in the project (Isolation, characterization, *in vitro* and *in vivo* evaluation of *Phoenix dactylifera* endophyte extracts from Saudi Arabia), Strategic technology program, National Science, Technology and Innovation Plan (11-BIO2112-02). 2012-2014.
8. CO- Principle investigator in the project (Fabrication of Electrospun Bio-Nanofibers for Oil Spill Leakage Treatment along the eastern coast of Saudi Arabia), Strategic technology program, National Science, Technology and Innovation Plan (12-NAN2541-02). 2012-2014.
9. CO- Principle investigator in the project (Environmental and medical survey of the Samsum ant, *Pachycondyla sennaarensis*, in Riyadh city, Saudi Arabia). Deanship of Scientific Research, KSU. (DSR-AR-2 (65)). 2010.

#### International Scientific Collaboration:

- 1- Gottingen University, Germany – visit during July, 2013 to carry out scientific experiments in the laboratory of Prof. Dr. Reinhold Hustert Department of Neurobiology.
- 2- Gottingen University, Germany – visit during August, 2014 to carry out scientific experiments in the laboratory of Prof. Dr. Peter Karlovsky Department of Agricultural Insects.
- 3- UKM, Malaysia – visit during January, 2015 to carry out scientific experiments in the laboratory of Prof. Dr. Baharudin Bin Omar, Faculty of Health Sciences.
- 4- Gottingen University, Germany- visit during August, 2015 to carry out scientific experiments in the laboratory of Professor Dr. Peter Karlovsky in cooperation with Dr. Hussain Al-Khader, Department of Agricultural Insects, where a joint research project was signed with the funding of King Saud University.
- 5- McGill University, Canada- visit during August, 2017 to carry out scientific experiments in the laboratory of Prof. Dr. Ehab Abouheif, biological section during which I introduced two lectures: ants and the Biosystems; ants as a forensic insects.

#### Research interest

- 1- Forensic Entomology.
- 2- Behavioural ecology: Insect pheromones: Studying the ant trail pheromones.

- 3- Insect Biological Control: Investigating new natural plant extract suitable for use as biological control agents.

#### **Professional activities:**

**Coordinator of the Academic Accreditation of the department of Zoology, College of Science, King Saud University.**

**1- Participated in the College work in obtaining:**

- I- The international accreditation from the German association for academic accreditation (ASIIN), 2011.
- II- The national accreditation from the National Commission for Academic Accreditation & Assessment (NCAAA), 2016.
- III- The international RE-accreditation from the German association for academic accreditation (ASIIN), 2017.

**2- Participated in the University work in obtaining:**

- I- The Institutional accreditation from the National Commission for Academic Accreditation & Assessment (NCAAA), 2017.