

Fahd Abdu almekhlafi

B.Sc., M.Sc., Ph.D



PERSONAL DETAILS

Title:	Dr
Current position:	Associate Professor
Date of Birth:	24 / 8 / 1973
Nationality:	Yemeni
Address(work):	Bioproducts Research Chair Zoology Department Faculty of Science King Saud University Riyadh. Kingdom of Saudi Arabia
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EDUCATION

Ph.D	September, 2005 - February, 2010: Entomology, Dept. of Zoology, University of King Saud, Riyadh, title: Biological and Toxicological Aspects on Black Samsum Ant, <i>Pachycondyla sennaarensis</i> (Hymenoptera: Formicidae) in Selected Regions in the Kingdom of Saudi Arabia.
M.S.c	September, 1999 - September, 2002. Economic Entomology, Plant Protection Dept, Mosul University, Iraq, Title: biological effect of insect growth regulators (trigard) on <i>Callosobruchus maculatus</i> (Fab.) (Bruchidae: Coleoptera) <i>Phthormaea opercullella</i> (Zell.) (Gelechiidae: Lepidoptera).
B.sc.	May, 1995. Plant Protection, Plant Protection Dept, University of Sana'a Yemen.

APPOINTMENTS

Associate Professor	March, 2018- present: Zoology Department, Bioproducts Research Chair, Faculty of Science, King Saud University, Kingdom of Saudi Arabia.
Assistant Professor	Aug, 2010- March, 2018: Zoology Department, Bioproducts Research Chair, Faculty of Science, King Saud University, Kingdom of Saudi Arabia.
	March, 2010- July 210: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Thamar University, Thamar, Yemen
Lecturer	May, 2003- May2005: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Thamar University, Thamar, Yemen.
Research Assistant	March 1997- Aug 1999: Agricultural production Department, Faculty of Agriculture and Veterinary Medicine, Thamar University, Thamar, Yemen.

Teaching

Institution	Course No	Course
King Saud University	ZOO 511	Applied Entomology and Parasitology
	ZOO 519	Medical Entomology
	ZOO 317	(Medical Arthropods)
	ZOO 311	General Entomology
	ZOO 103	Principles of Zoology
	ZOO 305	Modern Animal Taxonomy
	ZOO 413	Insects and Environmental Health
Thamar Univesity		General Entomology
		Principles of Zoology
		Basics of Plant Protection
		honey bee
		Economic Entomology

RESEARCH INTEREST

- 1- Insect Biological Control: Investigating new natural plant extract suitable for use as biological control agents
- 2- Forensic Entomology
- 3- entomology environment

Patent

1. Yahia Nasser Mabkhot, Jamal Mohammed Ali Khaled, Naiyf Sultan Helial Alaloi Alharbi, Fahd Ali Nasr Mohammed, **Fahd Abdo Almekhlafi**, Nael Mahmmoud Abutaha, Salim S. Al>Showiman. Synthesis of thiazole derivative as anticancer and anti-antibiotics resistant bacteria agent. 5th Conventor.Patent No.:US 10501426. Dec.10, 2019.

PUBLICATIONS

A. Peer-Reviewed Articles

1. **Al-mekhlafi, F. A., Al-Khalifa, M. S. Wadaan, M. A. (2022).** Effect of sedative drug zolpidem tartrate on the development rate of *Sarcophaga* (Boettcherisca) *peregrina* (Diptera: Sarcophagidae). Entomological Research, accept
2. Abd Al Galil, F. M., Al-Keridis, L. A., **Al-Mekhlafi, F. A.**, Al-Amri, A. M., & Al-Khalifa, M. S. (2022). First Record of *Brachymeria podagrion* (Hymenoptera: Chalcididae) in Bisha City, Asir Region, Saudi Arabia. Journal of Medical Entomology. <https://doi.org/10.1093/jme/tjac080>
3. Al-Keridis, L. A., Abutaha, N., **AL-mekhlafi, F. A.**, Rady, A. M., & Al-Khalifa, M. S. (2022). Larvicidal and antiviral nature of *Phoenix dactylifera* L. natural products by targeting dengue virus and *Aedes aegypti* L. Proteins through molecular docking. Journal of King Saud University-Science, 34(7), 102274.

4. Abutaha, N., **Al-mekhlafi, F. A.**, Alsayadi, A. I., & Wadaan, M. A. (2022). ROS-Dependent Apoptotic Effect of Washingtonia filifera H. Wendl. Extracts on Human Breast Cancer Cell MCF-7. *Applied Biological Research* 24(2): 175-183.
5. Abutaha, N., Almalki, A., **Fahd, A. M.**, Al-Keridis, L. A., Mohamed, R. A. E. H., & Wadaan, M. A. (2022). Psiadia punctulata (DC.) Vatke induces cell apoptosis in highly metastatic MDA-MB-231 cells. *Tropical Journal of Pharmaceutical Research*, 21(4), 769-777.
6. Abutaha, N., **Al-mekhlafi, F. A.**, Wadaan, M. A., & Al-Khalifa, M. S. (2022). Larvicidal activity and chemical compositions of Aloe ferox mill, and Commiphora abyssinica (O. Berg) combination against the mosquito vectors Culex pipiens L. *Journal of King Saud University-Science*, 34(4), 101962.
7. Alsayadi, A. I., Abutaha, N., Almutairi, B. O., **Al-Mekhlafi, F. A.**, & Wadaan, M. A. (2022). Evaluating the efficacy of an innovative herbal formulation (HF6) on different human cancer cell lines. *Environmental Science and Pollution Research*, 29(34):51768-51777.
8. Abutaha, N., **Al-mekhlafi, F. A.**, Ibrahim, K. E., & Wadaan, M. A. (2022). Larvicidal Activity of Hexane-Extracts of Cinnamomum cassia and Zingiber officinale and Their Combination Against Culex pipiens (Diptera: Culicidae). *Applied Biological Research* 24(1): 8-16
9. Assouguem, A., Kara, M., Mechchate, H., **Al-Mekhlafi, F. A.**, Nasr, F., Farah, A., & Lazraq, A. (2022). Evaluation of the Impact of Different Management Methods on Tetranychus urticae (Acari: Tetranychidae) and Their Predators in Citrus Orchards. *Plants*, 11(5), 623.
10. Abutaha, N., **Al-Mekhlafi, F. A.**, Al-Khalifa, M. S., & Wadaan, M. A. (2022). Larvicidal activity and Histopathological changes of Cinnamomum burmannii, Syzygium aromaticum extracts and their combination on Culex pipiens. *Saudi Journal of Biological Sciences*, 29(4), 2591-2596.
11. Abutaha, N., **AL-Mekhlafi, F. A.**, Almutairi, B. O., & Wadaan, M. A. (2022). S-phase cell cycle arrest, and apoptotic potential of Echium arabicum phenolic fraction in hepatocellular carcinoma HepG2 cells. *Journal of King Saud University-Science*, 34(1), 101735.
12. Abutaha, N., **Al-Mekhlafi, F. A.**, Al-Khalifa, M. S., & Wadaan, M. A. (2022). Insecticidal effects of a novel polyherbal formulation (HF7) against Culex pipiens L.(Diptera: Culicidae). *Saudi Journal of Biological Sciences*, 29(1), 279-286.
13. Ahmed Al-Keridis, L., Al Galil, F. M. A., **Al-Mekhlafi, F. A.**, Wadaan, M. A., & Al-Khalifa, M. S. (2022). Impact of Hypnotic Drug Zolpidem Tartrate on the Development of Forensic Fly Sarcophaga ruficornis (Diptera: Sarcophagidae). *Journal of Medical Entomology*, 59(3), 820-825.
14. Abutaha, N., Al-Keridis, L. A., Mohamed, R. A. E. H., & **AL-mekhlafi, F. A.** (2021). Potency and selectivity indices of Myristica fragrans Houtt. mace

- chloroform extract against non-clinical and clinical human pathogens. Open Chemistry, 19(1), 1096-1107.
15. Aljari, S. M., Abutaha, N., Al-Keridis, L. A., Al-Doaiss, A. A., **Fahd, A. M.**, & Wadaan, M. A. (2021). Acute and subacute toxicity studies of a new herbal formula induced apoptosis in the highly metastatic MDA-MB-231 cells. Journal of King Saud University-Science, 33(8), 101646.
 16. Abd Al Galil, F. M., Al-Keridis, L. A., **AL-Mekhlafi, F. A.**, Al-Shuraym, L. A., Alhag, S. K., Ali El Hadi Mohamed, R., & Wadaan, M. A. (2021). Growth and development of Chrysomya saffranea (Diptera: Calliphoridae) in response to different food substrates. Entomological Research, 51(10), 528-532.
 17. Al-Keridis, L. A., Mohamed, R. A. E. H., Abutaha, N., **Al-Mekhlafi, F. A.**, Al-Doaiss, A. A., Almashaan, T. A., & Wadaan, M. A. (2021). Larvicidal, and cytotoxicity of *Lepidium sativum* L. seed extract against *Culex pipiens* L.(Diptera: Culicidae). Turkish Journal of Zoology, 45, 408-415.
 18. **Al-Mekhlafi, F. A.**, Abutaha, N., Al-Doaiss, A. A., Al-Keridis, L. A., Alsayadi, A. I., Mohamed, R. A. E. H., ... & Al-Khalifa, M. S. (2021). Target and Non-target Effects of *Foeniculum vulgare* and *Matricaria chamomilla* combined extract on *Culex pipiens* mosquitoes. Saudi Journal of Biological Sciences. 28(10):5773-5780
 19. Mohamed, R. A. E. H., Abd Al Galil, F. M., Al-Keridis, L. A., Al-Shuraym, L. A., **AL-mekhlafi, F. A.**, & Alhag, S. K. (2021). Effect of diets on the developmental rate of calliphorid fly of forensic importance *Chrysomya megacephala* (Fabricius, 1794). Journal of Asia-Pacific Entomology. 24(3):832-836.
 20. **F.A. Al-Mekhlafi**, R.A. Alajmi, F.M. Abd Al Galil, L. A. AL-keridisc, Z. Almusawi, S.K. Alhag6,7 R. A. El Hadi Mohamed & L.A.M. Al-shuraym. A (2021) preliminary study on ants (Hymenoptera: Formicidae) attracted to albino rats Carcasses in Riyadh City, Saudi Arabia., African Entomology. 29(2), 499-506
 21. **Fahd A. Al-Mekhlafi**, Nael Abutaha, Sadeq K. Alhaga and Muhammad Al-Wadaan. (2021). Effects of Seed Extract of *Peganum harmala* (Zygophyllaceae) on the *Culex pipiens* (Diptera: Culicidae). Brazilian Journal of Biology, 82, e241338.
 22. Laila A. Al-Shuraym, **Fahd A. Al-Mekhlafi**, Fahd Mohammed Abd Al Galil, Sadeq K. Alhag, Lamya Ahmed Al- Keridis, Rania Ali El Hadi Mohamed, Muhammad A. Wadaan, Mohammed S. Al-Khalifa. (2021). Effect of zolpidem tartrate on the developmental rate of forensically important Calliphoridae flies *Chrysomya megacephala* and *Chrysomya saffranea*. Journal of Medical Entomology. 58 (6) 2101–2106.
 23. **Fahd A. Al-Mekhlafi** (2021) Decomposition process for buried rat (*Rattus norvegicus*, Berkenhout 1769) carcasses in Riyadh city, Saudi Arabia: A

- preliminary study. Saudi Journal of Biological Sciences, 28(7): 3745-3750.
24. Apurva M, Shinde Archana L. Mahakalkar Hemant P. Sapkal Fahd Mohammed Abd Al GALil, **Fahd A. Al-Mekhlafi** Muhammad A. Wadaan (2021). Molecular identification of a forensically relevant blowfly species (Diptera: Calliphoridae) from the Nagpur region of Maharashtra, India. Entomological Research 51:315–320
25. A.A. Al-Doaiss, F.A. **Al-Mekhlafi**, N.M. Abutaha , L.A. Al-Keridis, A.A. Shati, M.A. Al-Kahtani & M.Y. Alfaifi (2021). Morphological, histological and ultrastructural characterisation of *Culex pipiens* (Diptera: Culicidae) larval midgut. African Entomology 29(1): 274–288.
26. Alhag, S. K., **Al-Mekhlafi, F. A.**, Abutaha, N., Abd Al Galil, F. M., & Wadaan, M. A. (2021). Larvicidal potential of gold and silver nanoparticles synthesized using *Acalypha fruticosa* leaf extracts against *Culex pipiens* (Culicidae: Diptera). Journal of Asia-Pacific Entomology, 24(1), 184-189.
27. Sadeq K. Alhag, Hamed A. GhrAmh, **Fahd A. Almeklafi**, Essam H. Ibrahim, Khalid A. KHAN. (2021). Biogenic synthesis of silver nanoparticles (AgNPs) using *Solanum indicum* Linn Indian Journal of Pharmaceutical Education and Research, 55 ; 202-208.
28. Abd Al Galil, F. M., Zambare, S. P., **Al-Mekhlafi, F. A.**, & Al-Keridis, L. A. (2021). Effect of dimethoate on the developmental rate of forensic importance Calliphoridae flies. Saudi Journal of Biological Sciences, 28(2), 1267-1271.
29. Abd Al Galil, F. M., Zambare, S. P., **Al-Mekhlafi, F. A.**, Wadaan, M. A., & Al-Khalifa, M. S. (2021). Effects of insecticide dimethoate on the developmental rate of forensic importance sarcophagid flies. Journal of King Saud University- Science, 33(2), 101349.
30. **Fahd A. Al-Mekhlafi1**, Reem Alajmi, Zainab Almusawi, Fahd Mohammed Abd Al GALil, Pawandeep Kaurf, Muhammad Al-Wadaana, Mohammed S. Al-Khalifa (2020) A Study of Insect Succession of Forensic Importance: Dipteran Flies (Diptera) in Two Different Habitats of Small Rodents in Riyadh City, Saudi Arabia. Journal of King Saud University – Science, 32, 3111–3118
31. **Fahd A. Al-Mekhlafi** (2020) Beetles succession on different microhabitats of small mammals in Riyadh, Kingdom of Saudi Arabia. Entomological Research. 50, 433–439
32. Nael Abutaha, Abdo Hezam, **Fahd A. Almekhlafi**, Adel Morshed Nagi Saeed, K. Namratha, K. Byrappa. (2020). Rational design of Ag-ZnO-Fe₃O₄ nanocomposite with promising antimicrobial activity under LED light illumination. Applied Surface Science 527:146893.
33. Nael Abutaha, **Fahd A. Al-Mekhlafi**, Muhammad Farooq (2020) Target and non-target toxicity of *Cassia fistula* Linn. fruit extract against *Culex pipiens* (Diptera: Culicidae), lung cells (BEAS-2B) and zebrafish (*Danio rerio*) embryos, Journal of Medical Entomology, 57(2): 493–502.

- 34.** Abutaha, N. M., Farooq, M. F., Nasr, F. A., **Almekhlafi, F. A.**, Wadaan, M. W. Bioassay-Guided Fractionation of Endophytic Fungal Extract of *Fusarium solani* (Saccardo) against Cancer Cell Lines and Zebrafish Embryo. Indian Journal of Pharmaceutical Education and Research. 54 (2):301- 306.|
- 35.** Nael Abutaha¹, **Fahd A. Al-Mekhlafi¹** (2020). Bioassay-guided fractionation of a dried commercial source, *Alpinia galanga*(L.) Willd rhizomes extract, against *Culex pipiens* (Diptera: Culicidae). Journal of Asia-Pacific Entomology, 23: 260-267.
- 36.** **Fahd A. Al-Mekhlafi**, Nael Abutaha, And Muhammad Al-Wadaan (2020). Inhibition of the growth and development of mosquito larvae of *Culex pipiens* L. (Diptera: Culicidae) treated with extract from flower of *Matricaria chamomilla* (Asteraceae) Entomological Research. 50(3):138-145.
- 37.** Ashraf Mashaly, et.al and **Fahd A. Al-Mekhlafi** (2019) Standard practices and guidelines In Forensic entomology. Arab Society for Forensic Science and Forensic Medicine.(accepted)
- 38.** Nael Abutaha¹,Fahd A. Nasr, Al-Zahrani Mohammed, AbdelHabib Semlali, **Fahd A. Al-Mekhlafi**, Mohamed A. Wadaan (2019). Calendula arvensis L. as an anti-cancer agent against breast cancer cell lines. Molecular Biology Reports 46:2187–2196.
- 39.** **Fahd A. Al-Mekhlafi**, Nael Abutaha¹, Muhammad Farooq and Muhammad Al-Wadaan (2018). Insecticidal Effect of *Solenostemma argel* (Del.) Extract against *Culex pipiens* L. (Diptera: Culicidae). Journal of the American Mosquito Control Association 34(3):217–223.
- 40.** Nael Abutaha, **Fahd A. Al-Mekhlafi**, Lamya Ahmed Al-Keridis, Muhammad Farooq, Fahd A. Nasr, Mohamed A. Wadaan (2018). Larvicidal Potency of Selected Xerophytic Plant Extracts on *Culex pipiens* (Diptera: Culicidae). Entomological Research, 48 :362–371
- 41.** Ashraf Mashaly, Mostafa Sharaf, Medghom al-Subeai, **Fahd Al-Mekhlafi**, Abdulrahman Aldawood, Gail Anderson (2018). Ants (Hymenoptera: Formicidae) Attracted to Rabbit Carcasses in Three Different Habitats. Sociobiology 65(3): 433-440.
- 42.** **Fahd A. Al-Mekhlafi.** (2018). Larvicidal and Ovicidal activities, histopathological alteration induced by *Carum copticum* extract in *Culex pipiens* (Diptera: Culicidae). Saudi Journal of Biological Sciences, 25:52-56.
- 43.** Jamal M. Khaled, **Fahd A. Al-Mekhlafi**, Ramzi A. Mothana, Naiyf S. Alharbi, Khalid E. Alzaharni, Anwar H. Sharafaddin, Shine Kadaikunnan, Ahmed S. Aloabidi, Noofal I. Bayaqoob. Marimuthu Govindarajan & Giovanni Benelli (2018). *Brevibacillus laterosporus* isolated from the digestive tract of honeybees has high antimicrobial activity and promotes growth and productivity of honeybee's colonies. Environ Sci Pollut Res, 25:10447-10455.
- 44.** **Fahd A. Al-Mekhlafi.** (2017). Larvicidal activity of some fungal extracts on *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). Entomological Research.47: 388-393.

- 45.** Ashraf M. Ahmed, Hamdy I. Hussein, Talat A. El-Kersh, Yazeed A. Al-Sheikh, **Fahd A. Al-Mekhlafi**, Mohamed S. Ibrahim, Jameel Al-Tamimi1 and Fahd A. Nasr. (2017). Activities of Indigenous *Bacillus thuringiensis* Isolates and Nematode Symbiotic Bacterial Toxins against the Mosquito Vector, *Culex pipiens* (Diptera: Culicidae). Journal of Arthropod- Borne Diseases. 11(2): 260–277.
- 46.** **Fahd A. Al-Mekhlafi** , Nael Abutaha, Ashraf M. A. Mashaly, Fahd A. Nasr, Khalid E Ibrahim, Mohamed 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, Vol. 24, 817-821.
- 47.** Nael Abutaha, AL-Zharani Mohammed, **Fahd A. Al-Mekhlafi**, Jameel Al-Tamimi, Ashraf M. A. Mashaly,Muhammad A. Wadaan (2017) Acute and Subacute Toxicity of Ethyl Acetate Fraction of *Cochliobolus spicifer* (Nelson) isolated from *Phoenix dactylifera*(Linnaeus) on Balb/c Mice. Research Journal of Biotechnology. Vol. 12, 9-13
- 48.** Ashraf Mohamed Ali Mashaly, **Fahd A. Al-Mekhlafi** (2016). Necrophagous Diptera associated with decomposed rabbit carcasses in Riyadh, Saudi Arabia. Journal of Medical Entomology. 1192-1197.
- 49.** Ahmed M. A. Ibrahim , Lamia A. Alrakan , Saleh Ahmed Alaifan , **Fahd Al-Mekhlafi**, and Ahmed Ch. Kassab. (2015). Temporal Analysis of 16 STR Loci in Human Blood Drawn from two Culicid Mosquitoes Cultured at Different Temperatures. Entomological Research 45, 268–274.
- 50.** Mohammed Saleh Al-Khalifa a, Ashraf Mohamed Ali, Mashaly,Mohammed, Iqbal Siddiqui a, **Fahd Abdu Al-Mekhlafi** (2015). Samsum ant, *Brachyponera sennaarensis* (Formicidae: Ponerinae): Distribution and abundance in Saudi Arabia. Saudi Journal of Biological Sciences 22, 575–579.
- 51.** Abutaha , N., Mashaly, A.M.A.,, **Al-Mekhlafi**, F.A, Muhammed Farooq, Mohammed Al-shami1, Muhammad A. Wadaan., (2015). Larvicidal activity of endophytic fungal extract of *Cochliobolus spicifer* on *Aedes caspius* and *Culex pipiens* (Diptera: Culicidae). Appl Entomol Zool. 50, 405-414
- 52.** Nael Abutaha, Mohamad Al shami1 , **Fahd A. Al Mekhlafi**, and Mohamed A. Wadaan.(2014). Cytotoxic and antimicrobial activity of selected fungal isolates from soil of Yemen Republic. Saudi Journal of Biological Sciences. 20, 33-44
- 53.** Abutaha, N., **Al-Mekhlafi F. A.**, (2014). Evaluation of the safe use of the larvicidal fraction of *Capparis cartilaginea* Decne.against *Aedes caspius* (Pallas) (Diptera: Culicidae) larvae. African Entomology, 22(4): 838–846.
- 54.** Abutaha , N., Muhammed Farooq, **Al-mekhlafi , F. A .**, Baabbad Almohannad1, Sabir Shehata1 Wadaan, M.A.(2014). Evaluating Developmental Toxicity of Solvent Fractions Obtained from *Pulicaria glutinosa* on Zebrafish Embryo and their Antimicrobial Potential. Journal Of Pure And Applied Microbiology, 8(4):2679-2685.
- 55.** Mashaly A.M.A., Farooq M., Hozzein W., Al-Qahtani A.M. & **Al-Mekhlafi F.A.** (2014). Assessment of toxic baits for the control of the samsum ant, *Pachycondyla sennaarensis* (Formicidae: Ponerinae). African Entomology . 22(1) : 204–209

- 56.** Khaled, J.M., **Al-Mekhlafi F.A**, Mashaly A.M.A., Wadaan M. A., Khalel A.S , Abutaha N, (2014). Efficacy of entomopathogenic fungi isolated from the nest of the samsum ant, *Pachycondyla sennaarensis* against larvae of the mosquitoes *Aedes caspius* and *Culex pipiens* Entemologia Generalis. Entomologia Generalis. 35 :77–86
- 57.** Abutaha , N., **Al-mekhlafi , F. A.**, Semlali Abdelhabib., Baabbaad Almohannad., Wadaan, M.A. (2014). Aspergillus sydowi Metabolites Efficacies Against the Mosquito Larval *Culex pipiens* and *Aedes caspius* Population and Cytotoxicity After Purification With Column Chromatography. Research Journal of Biotechnology, 9(1): 84-89
- 58.** Mashaly, A.M.A.; **Al-Mekhalfi, F.A.** and Al-qahtani, A.M. (2013). Foraging Activity and Food Preferences ofa Samsum Ant, *Pachycondyla sennaarensis* Bulletin of Insectology 66 (2):187-193.
- 59.** Ghazzali, M. Khattab, S.A.N. Elnakady, Y.A. **Al-Mekhlafi, F.A.** Al-Farhan, K. El- Faham, A. (2013). Synthesis, structure, theoretical calculations and biological activity of sulfonate active ester new derivatives, Journal of Molecular Structure,1046, 147-152
- 60.** **Al-Mekhalfi, F.A.**, Abu Taha,N., Mashaly, A.M.A., Wadaan, M.A. (2013). Larvicidal Activity of Selected Xerophytic Plants Against *Culex pipiens* and *Aedes caspius* (Diptera: Culicidae). Pakistan journal of Zoology,vol. 45(1), 241-246
- 61.** **Al-Mekhalfi, F.A.**, Al-Khalifa, M.S., Abu Taha,N., Ahmed, A.M., Mashaly, A.M.A., Wadaan, M.A.(2012). Structure of the sting and estimation of total and number of proteins in the venom of samsum ant *Pachycondyla sennaarensis* (Hymenopter:Formicidae). Saudi Journal of Biological Sciences. Vol, 19,187-193
- 62.** **Al-Mekhalfi, 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 Vol. 5(32), 5848-5853.
- 63.** **Al-Mekhalfi, F.A.**, Mashaly, A.M.A., Hossam Ebaid., 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 Vol. 7(1), 55-60
- 64.** **Al-Mekhalfi, 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,vol. 44(2), 481-488
- 65.** **Al-Mekhalfi, 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, vol 44(1), 285-290.
- 66.** **Al-Mekhalfi, 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.,vol 5(20), 3321-3326.
67. Al-Khalifa, M.S., Ahmed, A.M., Mashaly, A.M.A., **Al-Mekhlafi, F.A.**, Khalil, G., Siddiqui, M.I., Ali, M.F. (2010). Studies on the distribution of Pachycondyla sennaarensis (Hymenoptera: Formicidae: Ponerinae) in Saudi Arabia. 1. Ar-Riyadh Region. Pakistan Journal of Zoology., vol.42(6),707-713
68. Siddiqui, M.I., Mashaly, A.M.A., Ahmed, A.M., **Al-Mekhlafi, F.A.**, Al-Khalifa, M.S. (2010). Ultrastructure of Antennal Sensilla of the Samsum ant, Pachycondyla sennaarensis (Hymenoptera: Formicidae: Ponerinae). African Journal of Biotechnology Vol. 9(41), 6956-6962.
69. **AAI-Mekhlafi, F.A (2009)**. Biological effect of insect growth regulator (trigard) on *phthormaea opercullella* (zell.) (Gelechiidae: Lepidoptera). Saudi Journal of Biological Sciences. Vol, 16,207-216.

B. Books

1. Human–Insect Interactions (ترجمة) التفاعل بين الانسان والحيوانات
2. A Dictionary of Forensic Entomology (أعداد) معجم علم الحشرات الجنائي

C Future Activities

1. **Al-meKhalifa, F.A at al.**, Succession of Forensically Important Insects and their Role in the Decomposition of Buried Rabbit Carcasses in city Riyadh- Saudi Arabia
2. **Al-meKhalifa, F.A at al.**, The Use of Bioactive Botanical Extracts from Kingdom of Saudi Arabia to Eradicate Mosquitos and Their Toxicity Evaluation on Human Cell Lines and Zebrafish Embryos
2. **Al-meKhalifa, F.A at al.**, The Utility Of Forensic Entomology In Legal Medicine: A Study On Seasonal Carrion Insects In Saudi Arabia
3. **Al-meKhalifa, F.A at al.**, Isolate fungi associated with mosquito larvae in the Riyadh region and to evaluate their effectiveness against mosquito *Culex pipiens* and *Aedes caspius*

d. Conferences

1. International Conference (Virtual Conference) Of Medical Parasitology & Entomology (ICMPE 2022), 17- 18 August 2022. University Malaya - Malesia
2. International e-conference on forensic science. 28-29 January 2021, Nagpur, Maharashtra, India.
3. 4th International Conference of Forensic Sciences. 27-29 November 2018. Prince Nayef Arab University for Security Sciences. Riyadh, Saudi Arabia.
4. 3rd International Arab Forensic Science & Forensic Medicine Conference (ASFSFM 2017). 21-23 November, Riyadh, Saudi Arabia

5. 2nd Saudi International Conference of Forensic Medicine and Sciences. Riyadh 5-8 March 2017.
6. The 2ND Saudi international biotechnology conference 2016 King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. February, 23-24.
7. Asian Conference on Engineering and Natural Sciences. Higher Education Forum, Tokyo, Japan, February 03-05, 2015
8. the 8th international congress of dipterology. The Senckenberg Nature Research Society, Kongresshotel Potsdam, Germany 10- 15 Aug 2014.
9. The Saudi International Biotechnology Conference, 2012. King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. September 18-19, 2012.
10. International Symposium on Insects, "Insect, Human & Environment" Kuala Lumpur, Malaysia, December 3-5, 2012.
11. The 2nd Saudi International Nanotechnology Conference (2SINC) 2012. King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia. November 11-13, 2012.
12. Twenty-Sixth meeting of the Saudi Society for the Life Sciences: 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).
13. Third Biopesticide International Conference" held at St. Xavier's College, Manonmaniam Sundaranar University, Tamil Nadu, India from 28 - 30 November (2011).
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. Conference of the Third Saudi Science titled new horizons in science and its applications. from 10 - 13 March 2007
16. Scientific Symposium of the Directorate of Otma as a prelude to announcing a nature reserve. Cultural Center - Sana'a from 14 -15 March, 1999 .
17. Agricultural Exhibition Yemeni Holland international I (Ajrich) -Agricultural Research Center in Thamar 22 - 27 February, 1998.

Workshops

3. Workshop arbitration books translated: the development of mechanisms. Translation Center. Ksu.20/4/2015.
4. Organized the workshop entitled: "Native mosquito larvicidal bacteria isolates as new candidates for control of mosquito -borne diseases in Saudi Arabia" in

Zoology Department-Faculty of Sciences- King Saud University - From 07-08 /12/2014.

5. workshop entitled biological diversity insect kindergarten Khuraim King. Saud University- College of Food and Agricultural Sciences. 02/25/1434 H 01/07/2013.
6. A workshop entitled the role of centers of learning and teaching in the development of university education. King Saud University -Vice President for Academic Affairs and the Academy - Centre of Excellence in learning and education 01/03/2011.
7. Organized the The 2nd meeting entited (Natural Products And Drug Discovery) in Chair Of Advanced Proteomics & Cytomics Research - Zoology Department-Faculty of Sciences- King Saud University - From 01-02 /05/2011.
8. Medical and Therapeutic Uses of Bee Products Scientific Evidences. faculty Medical King Saud University . April 24-25,2011
9. Workshop information security. King Saud University - Deanship of electronic trading and telecommunications, corresponding to 12/12/2010

Skills and training

1. Supervision skills for university thesis Deanship of Skills Development. King Saud University, 4/4/2021.
2. online training course in photoshop 2019. Deanship of e- Transactions& communications. March 2021.
3. Teaching based specialty and literature. Deanship of Skills Development. King Saud University, 15/05/1438h.
4. Safe and comfort learning environment. Deanship of Skills Development. King Saud University, 13/03/1438h.
5. Course design and construction. Deanship of Skills Development. King Saud University, 10-11/07/1437h.
6. Designing Interactive Presentation by Prezi. Deanship of Skills Development. King Saud University, 22/05/1437h.
7. Effective Course Instruction. Deanship of Skills Development. King Saud University, 19-20/05/1437h.
8. Feedback A Tool For Better Learning. Deanship of Skills Development. King Saud University, 25/04/1437h.
9. Competencies Of Professional Teaching.. Deanship of Skills Development. King Saud University, 18/04/1437h.
10. Building Test Question By Specification Table. Deanship of Skills Development. King Saud University, 14-15/04/1437h.

- 11.** Flipped Learning. Deanship of Skills Development. King Saud University, 10-11/04/1437h.
- 12.** Assessment Of Learning Outcomes. Deanship of Skills Development. King Saud University, 26-27/02/1437h.
- 13.** Developing University Teaching Portfolio. Deanship of Skills Development. King Saud University, 20/02/1437h.
- 14.** Outcomes based learning. Deanship of Skills Development. King Saud University, 17-18/02/1437h.
- 15.** Publication in international Journals (ISI). Deanship of Skills Development. King Saud University, 13-14/02/1437h.
- 16.** Building and managing teamwork. Deanship of Skills Development. King Saud University, 16-17/02/1436h.
- 17.** quality management system in educational institutions(2008-9001ISO). Deanship of Skills Development. King Saud University, 08-10/02/1436h.
- 18.** Polymerase chain reaction (PCR). DNA research chair, King Saud University, 24 May 2009

Participate in projects and applied research

- 1.** Co- investigator in the investigator of the research group project (No. RGP- 028) belong to Deanship of Scientific Research at king Saud University. 2011-2018
- 2.** Co- investigator in the Pharmacological Effects Of Secondary Metabolites From Microorganisms Isolated From Intestinal Tract Of Honey Bees In Riyadh Region. belong to King Abdulaziz City for Science and Technology (KACST), BS 34-112.-2014
- 3.** Co- investigator 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.
- 4.** CO- 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.
- 5.** Studies on the Samsum ant and the effectiveness of venom extract on breast cancer cells. Deanship of Scientific Research, KSU. (NLCP-1/2009).
- 6.** 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.** Environmental and medical survey of the Samsum ant, Pachycondyla sennaarensis, in Riyadh city, Saudi Arabia. Deanship of Scientific Research, KSU. (DSR-AR-2 (65))

