

Curriculum Vitae

Personal Information

Name : **Mohammed Saleh Al-Khalifa**

Date of Birth : 1947

Place of Birth : Qassim, Ar-Rus

Qualification : B. Sc., Ph. D. (Wales, U. K.)

Current Status : Professor of Entomology and Acarology,

Present Address : Department of Zoology, College of Science,

King Saud University, P. O. Box 2455

Riyadh 11451, Saudi Arabia

Email : mkhalifa@ksu.edu.sa

Employment History

SN	Dates	Position Title or Rank	Institution or Organization
1.	1988 – Present	Professor	King Saud University
2.	1981 – 1988	Associate Professor	King Saud University
3.	1977 – 1981	Assistant Professor	King Saud University
4.	1971 – 1977	Demonstrator	King Saud University

Teaching Experience:

Formed and taught different courses covering all aspect of Entomology, and Arthropoda (General Entomology, Insect Ecology, Insect Physiology and Economic Entomology, Arthropoda), Physiology, Light and Electron Microscope and Cytology to undergraduate students.

Also developed many courses and taught to the students of Masters Degree level covering the aspects of Cell Physiology, Ecophysiology, Physiology of Invertebrates, Medical Entomology and Economic Arthropods including the Parasitology and Medically Important Arthropods.

Chaired the Committee developing courses for the degree of Doctorate of Philosophy in Zoology and designed many courses in Entomology, Physiology and Acarology.

At Riyadh University, I have developed and taught Courses in B. Sc. , M. Sc and Ph. D. girls students including Advance Entomology, Invertebrate Physiology and Economic Arthropods.

Supervision and Examination of the Student's Research Projects:

The Research Project of the students for the award of their Doctors Masters and Bachelors Degrees have also been supervised and examined throughout my academic profession and some of them are listed below.

a) Ph.D. Degree:

1. Ruqaiah, M. Al-Mehmady Ph.D. (1990). Evaluation of Efficiency of *Bacillus thurigenesis* and *B. aspergillus* on the Biological Control of *Culex univittatus*. In Saudi Arabia.
2. Wafa, A. H. Al-kherb, Ph.D. (2001) The Physiological and Biochemical Changes Associated with the American Cockroach, *Periplaneta americana* (L) Treatment by Insect Growth Regulators.
3. Sahar, A. B. Fallatah, Ph.D. (2003) Bioactivity and Histological Effects of Some Plant Products and Microbial Pesticides against the Potato Tuber Moth *Phthorimaea operculella* (Zeller) (Lepidoptera : Gelechiidae).
4. Saleh, A. S. Al-Quraishi, Ph.D. (2005) *Sarcocystis* Parasites (Coccidia : Apicomplexa) Infecting some Slaughtered Animals in Riyadh City, Saudi Arabia.
5. Bader, A. A. Al-Dahmish, Ph.D. (2007). Multiplex DNA Depletion Detaction of Three Different Genes Within Saudi Population.
6. Saleh, A. M. Al-Farraj, Ph. D. (2006) Biodiversity of Free Living Marine Ciliates from the Intertidal Zone of the Arabian Gulf, Saudi Coast, Ecological, Structural and Systematic Studies.
7. Bashar, A. G. Al-Hawary, Ph.D. (2006) The Effect of Ramram, *Heliotropium strigosum* Willd., Water Extract on Mouse DNA Evaluated by Multiple Short-Term Tests.
8. Mona, M. Al-Dossary (2007) Sensory Receptors and Behaviour of the Red Palm Weevil, *Rhynchophorus ferrugineus* (Oliv.) (Col., Curculionidae) with Reference to Attractants, Repellents and Control.
9. Ebrahim, S. Al-Nasser Ph.D. (2007) The Life Cycle of *Sarcocystis* species Infecting Neimy Sheep (*Ovis aries*) and Dog(*Canis familians*) with Special Reference to Host-Parasite Relationships.
10. Fahd, A. A. Mukhlafy, Ph.D. (2007) (P.A.) Studies on Reproductive System of Red Palm Weevil.

b) M.Sc. Degree:

1. Saad, J. Al-Gahtani, M.Sc. (1988) Studies on the Mode of Action of the Prostaglandin Synthesis Inhibitor : Indomethacin, as an antifertility drug.
2. Nadia, A. Al-Eisa, M.Sc. (1989) Effect of Lindane (Gamma hexachlorocyclohexane) on the physiology of Reproduction in Rats.

3. Amal, A. Al-Hazza, M.Sc. (1991) Effect of Experimental Liver Damage on some Physiological Parameters in Rats.
4. Saud, A. Al-Farraj, M.Sc. (1993) A Study on some Ecological and Physiological aspects of *Scincus mitranus* in Central Region of Saudi Arabia.
5. Hamadan, I. Al-Mohammed, M.Sc. (1995) Studies on Charactersization of Stains of *Trypanosoma evansi* (Steele,1885) Balbiani, 1888 form Camels in Saudi Arabia
6. Ahmed, A. Al-Fuhaid, M.Sc. (1996) Efficiency of Vermonal Traps Used for Control of the Red Flour Beetle, *Tribolium castaneum*.
7. Abdul-Rehman, A. Al-Laho, M.Sc. (P.A.) (1996) Studies on the Biology of one of the *Rhipicephalus sanguineus* group Species in Saudi Arabia.
8. Hathal, M. H. Al-Dhafer, M.Sc. (1997) Biology and Morphological Characteristics of Red Palm Weevil, *Rhynchophorus ferrugineus*.
9. Saleh, A. S. Al-Quraishi, M.Sc. (1998) Studies on Fox's Parasites in Certain Regions of Saudi Arabia.
10. Saad, M. A. Duajm, M.Sc.(1998) Studies on the Cutaneous Lyshmaniasis in Selected Region of Saudi Arabia.
11. Mahamoud, Y. A. Laubid, M.Sc. (2001) (P.A.) Immunological Studies on Cutaneous Leishmaniasis Patient Before and After Treatment in Al-kharj Region, Saudi Arabia.
12. Mohammed, a. M. Al-Oqail M.Sc. (2001) Short Term Effect of Malathion on Mitotic Index and Chromosome Aberration of Spleen and Bone Marrow Cells of Mice.
13. Manal, H. S. Farhood, M.Sc. (2003) Effect of Sublethal Exposure to Vitathoate 40EC Containing Dimethoate on Some Blood Parameters and Hepatic Tissue of Laboratory Albino Mice.
14. Gasim, M. A. AboTawil, M.Sc. (2002) Effect of Perinatal Lead Exposure on the Development and behaviour of Laboratory Mice Offsprings.
15. Abd Alhakim, A. O. Al-Turki, M.Sc. (2002) Effect of perinatal Cadmium exposure on the Development and behaviour of Laboratory Mice Offsprings.
16. Garsah, S. Al-Murshid, M.Sc. (2003) Helminth Parasites Infecting Some Lizards in Riyadh Region, Saudi Arabia.
17. Ebrahim, S. Al-Nasser, M.Sc. (2003) Coccidia Parasites Infection in the Quail "Cotunix cotunix" in Saudi Arabia : Farms and their Pathogenecity.
18. Ali, O. Z. Al-Ghamdi, M.Sc. (2004) Coccidial Infection in Rabbits and Host – Parasite Relationship.
19. Layla, A. M. Al-Shreem, M.Sc. (2004) Evaluate the Toxic Effect of Cyfluthrin on the Biochemcial Mechamism and Histological Structures of Some Body Systems in the Red Flour Beetle, *Tribolium castaneum* (H) (Col. : Tenbrionidae)
20. Abdulrehman, A. A. Al-Yahya M.Sc. (2005) Effect of Gemcitabine on Mouse Bone Marrow Cells.

21. Reem, Atalh Al-Ajmy, M.Sc. (2005) Anatomical and Molecular Taxonomy for Some Types of Sand Flies in Some Regions of Saudi Arabia.
22. Abdalhadi, A. Al-Onizi, M. sc. (2005) Species of *Plasmodium* Parasites and their Effect on some Blood Constituents in Malaria Patients in Riyadh City.
23. Jazem, A. M. Abdulrahman, M.Sc. (2005) Effect of Food Types, temperature and Silica Dust on the Biology of the Cowpea Beetle *Callosobruchus maculatus* (F).
24. Kawther, H. H. Al-Hawaj, M.Sc. (2006) Comparative Histology and Ultrastructure of the Termites Gut *Psammotermes hypostoma* and *Microtermes najdensis*.
25. Muna, M. Mustafa, M.Sc. (2007) Histological Structure of Culex Female Mosquito and Sand Flies Midgut using Light and Electron microscopy.
26. Sultan, A. Al-Shehri, M.Sc. (2007) Protective Effect of Vitamin B6 Against Carbon Tetrachloride Induced Hepatotoxicity in Male Rats.
27. Waleed, S. Al-Wanian, M.Sc. (2007) (P.A.)Effect of Gamma Radiation on Male Reproductive System of Red Palm Weevil.

Other Academic Experience :

During my academic carrier in King Saud University, I have been actively involved in scientific work like evaluation of many publications and contributed in organizing different publishing Journals and Societies and worked in the following positions.

1. Co-Editor, Proceeding of Ninth Conference of Saudi Biological Society (1989) (SBS).
2. Member of the Editorial Board, for the Proceeding of Tenth conference of the Saudi Biological Society (1990) (SBS).
3. Member of the Editorial Board for the proceeding of the Saudi Biological Society (1991) (SBS).
4. Member of the Editorial Board of the first issue of the Journal of Saudi Biological Society (Science), (1992) (SMS).
5. Member of the Editorial Board of Journal of the King Saud University (Science), (1989-1994).
6. Member of the National Committee for Science (1982- 1990) in the Ministry of Education, Kingdom of Saudi Arabia.
7. Advanced Electron Microscopy preparation techniques held in tNorwich, U. K. , Feb. 1979 (for 2 weeks).
8. Represented Saudi Universities in the Second Committee meeting of Governmental Experts held in UNESCO, Paris on the safe guarding of works in public domain, during Jan 17th – 21st, 1983.
9. Completed a training course in operation of Scanning / Transmission Electron Microscope on Image Device (100JEM) held by Jeol Ltd. Tokyo Japan during Feb 16th –March 6th, 1981.

10. Group Training Course: Component essential for ecologically sound pest and vector management system held at the ICIPE, in collaboration with UNEP, Nairobi, Kenya, July 19th – Aug.8th, 1981.
11. Member of the Advisory Committee for Fauna of Saudi Arabia 1990-present.
12. Member of the Advisory Committee for Fauna of Arabia , 1997-Present.
13. Member of the Editorial Board of Arabian Wild Life, Arabias First Wildlife magazine, (1994-present).
14. Member of the Wildlife Committee of Arabian Gulf – NCWCD, Saudi Arabia (1993 – present)
15. Member of the Advisory Committee on National Research Project for the Control of Red Palm Weevils in Saudi Arabia, KACST, Saudi Arabia (1996).
16. Refereed Several Research Projects Submitted to King Abdul Aziz City for Science and Technology for Adoption and Support also Refereed Progress and Final Reports of Projects Supported by King Abdul Aziz City for Science and technology.
17. Refereed Several Research Projects Submitted to King Abdul Aziz University for Adoption and Support.
18. Refereed many Scientific Books Submitted to Scientific Council of Various Saudi Universities for Publication.
19. Refereed many Scientific Papers in Entomology, Cell Biology, Physiology and various Zoological Aspects submitted for Publication in International, Foreign and Local Specialized Scientific Journals
20. Refereed Several Scientific Books Submitted to the Kuwaiti Scientific Council.
21. Refereed Several Scientific Publication for Universities Academic Staff – for Promotion.
22. Member of the Expert Selection Panel of the King Faisal International Prize in Science. The Panel reviews the Scientific contributions of a short List of Renowned International Candidates for the Yearly Award of the Prize. Panels responsibility is to evaluate experts repeats from reviewers and to select the Prize Winner.
23. Recently furnished Scientific Advise to the Preventive Medicine Administration of Ministry of Health as well as the Ministry of Agriculture and Ar-Riyadh Municipality on Medical and Veterinary Science.

Administrative and Organizational Experience

1. Acting Dean, University Libraries Deanship, King Saud University for one year, 1985 – 1986.
2. Vice Dean, University Libraries Deanship, King Saud University for one year, 1981 – 1985.
3. Member of the University Council Board from Jan., 1985 to jan. 1986.

4. Member of the University Committee arranging movement to new university campus (The Chairman of this Committee was the university Rector) 1984.
5. Member of College of Science board for one academic year 1979/1980.
6. Member of Committee for Higher Studies in the department (1988-1990) and then Chairman of this Committee (1991 – Present).
7. Participation in the meeting concerning the Inter Library Loan between Universities and Institutes in the Arab Gulf States, Arab Bureau of Education for Gulf States, Riyadh, 1986, (Represented KSU).
8. Member of the Book Exhibition Committee, Ministry of Higher Education (Represented the Saudi Universities),, 1985-86.
9. Chairman of the Libraries Deanship Committee arranging movement to the University Campus, 1984).
10. Member of the University Audio Visual Centre Committee, 1985-1986 (Represented KSU Libraries).
11. Supervisor of the Electron Microscopy Unit, Zoology Department 1978-Present.
12. Member of the Departmental Microtechnique Committee, (1984-Present).
13. Chairman of the Departmental Invertebrate Zoology Committee, (1984-Present).
14. Member of the Departmental Parasitology and Entomology Committee, (1984-Present).
15. Member of the Departmental Physiology Committee, (1984-Present).
16. Responsible for Departmental Purchase (1978 – 1982).
17. Member of College Graduate Studies Committee for two years , 1982 & 1983.
18. Member of the College Instrumental Committee, 1978 – 1982.
19. College of Science representative in the Post Graduate Council (1992 – 1998).
20. Member of Pure and Applied Science Committee / College of Post Graduate Studies (1992 – 1998).
21. Chairman of the Committee for Higher Studies / College of Science Council (1992 – 1998).
22. Chairman of the Departmental Committee for Higher Studies (1992 – Present).
23. Member of the University Committee for Academic Thesis and Dissertations (1996 – 2001).
24. Chairman of the University Committee for Academic Thesis and Dissertations (2002 – Present).

Honours and Awards:

Received Annual Distinguished Service Award, King Saud University, 1983

Conferences Attended

1. Second Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Science, King Abdul Aziz University, Jeddah, Jan.4th -8th , 1978.
2. Third Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Agriculture Sciences and Food, King Faisal University, Al-Hassa, Jan.24th -27th , 1979.
3. The International Symposium on New Researches in Biology and Genetics : Problems of Sciences and Ethics Islamabad, Pakistan, Dec.8th – 13th , 1979.
4. Federation of American Societies for Experimental Biology , 64th Annual Meeting Anaheim, California, U. S. A. , April 13th – 18th , 1980.
5. *Fourth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Science, King Saud University, Riyadh, March 10th – 13th ,1980.
6. *Fifth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Education, KSU, Abha branch, April 13th -16th , 1981.
7. *The Second Arab Scientific Conference of Biological Sciences, Held at the Faculty of Sciences, Fes., Kingdom of Morocco, March 17th – 20th , 1982.
8. *Sixth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Sciences, King Abdul Aziz University, Jeddah, March 15th – 17th , 1983.
9. *Seventh Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Agriculture and Veterinary Medicine, KSU, Qasim Branch , March 20th – 22nd , 1984.
10. *Eighth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Agriculture Sciences and Food, King Faisal University, Al-hassa, March 12th – 14th , 1985.
11. *Ninth Symposium on the Biological Aspects of Saudi Arabia, Held at Ministry of Agriculture and Water , Riyadh, March 24th – 27th , 1986.
12. *Annual Meeting of Entomological Society of America, Reno, USA, Dec.2nd -7th , 1991.
13. *Fourteenth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Sciences, King Abdul Aziz University, Jeddah, Feb.16th -19th , 1993.
14. *Sixteenth Symposium on the Biological Aspects of Saudi Arabia, Held at the College of Science, King Saud University, Riyadh, March 1995.
15. *Twenty-first Symposium on the Biological Aspects of Saudi Arabia, held at the College of Science , King Khalid University, Abha March, 2003.
16. *Twenty second Symposium on Biological Aspects of Saudi Arabia King Saud University, Al-Gassim Dec., (2003).
17. Red Palm Weevil Work Shop – KACST, Riyadh Feb., 2007.

18. *3rd Saudi Science Conference "New Horizons in Science and Their Applications" Held at King Fahad Cultural Center –Riyadh organized by College of Science of King Saud University, Riyadh. 10th – 13th March , (2007)
19. *International Conference on the Arabian Oryx in the Arabian Peninsula Held at King Fahad Cultural Center –Riyadh 21st -23rd April, (2007)
20. The Fourth Symposium on Date Palm in Saudi Arabia (Challenges of Processing, Marketing and Pests Control), King Faisal University-Al-hassa 5th – 8th May, (2007)

***Papaers have been presented.**

Members of National and International Scientific Societies

1. Member of the Saudi Biological Society 1978- Present.
2. Member of the Royal Microscopical Society (U. K.)1979- Present.
3. Member of the African Association Insect Scientists (AAIS), Kenya, 1982 – Present.
4. Member of the Arachnological Society for East Asia , Japan , 1983- Present.
5. Member of the Entomological Society of America, USA (1989 – Present).

Scientific Research Projects

Generally my participation in the Research Projects included as Principal Investigator and Co-Inverstigator:

1. Principal Inverstigator in the Project No. 9/1402/Zoo " Study of the Distribution and Ecology of Soil Arthropods in Saudi Arabia". Supported by Research Centre King Saud University, Riyadh.
2. Principal Inverstigator in the Project No. 10/1402/Zoo " Field Studies on Ticks Parasitizing Farm Animals." Supported by Research Centre King Saud University, Riyadh.
3. Principal Inverstigator in the Project No.21/1404/Zoo " Seasonal Studies of Parasitic Arthropods of Domestic Animals of Saudi Arabia" Supported by Research Centre King Saud University, Riyadh.
4. Principal Inverstigator in the Project No. AR/10/84 " Studies on Ticks and Tick borne Diseases of Man, Domestic and Wild Animals in Saudi Arabia . A huge Nationwide Project Sponsored by King Abdul Aziz City for Science and Technology (KACST).
5. Co-Invesitgator in the Project No. 11/1399/Zoo "Studies on Aquatic Animals distribution in Saudi Arabia" Supported by Research Centre, king saud Universitym Riyadh.
6. Principal Inverstigator in the Project " Studies on the Red Palm Weevil of Saudi Arabia " A Grand and National and Nationwide Project Sponsored by King Abdul Aziz City for Science and Technology (KACST).

7. Principal Investigator in the Project "Medical and Ecological Survey of the Black Ant, *Pachycondyla ennarensis* in Ar-Riyadh Region Supported by Deanship of Scientific Research, King Saud University, Riyadh

Scientific Publications

a) Refereed Research Articles

1. Al-Khalifa, M. S. (1979). The Effect of Mating upon the Oviposition Rate of *Sitophilus granarius* L Fac. Sci. Riyadh Univ., 10, 87-95.
2. King, P. E., Fordy, M. and Al-Khalifa, M. S. (1979). Observations on the Intertidal *Micralymma marinum* (Strom.) (Col., Staphylinidae). Ent. Mon. Mag. 115, 133-135.
3. King, P. E., Al-Khalifa, M. S. and Fordy, M. (1980). Environmental; Adaptations of *Aepopsis robinii* an intertidal carabid of rocky shores. J. Natural History, 14, 309-317.
4. King, P. E. and Al-Khalifa, M. S. (1980). Oosorption in the Coleopteran *Sitophilus granarius*. Acta Zool., 61, 79-865. Al-Khalifa, M. S. (1981). The Ultrastructure and Possible Function of the Fat Body Cells of *Sitophilus granarius*(L.) during Egg Development. J. Fac. Sci., Riyadh Univ., 12, 127-138.
6. Al-Khalifa, M. S. (1981). An Electron Microscopical And Histological Study of the Egg Development in Flour Beetle, *Tribolium Castaneum* (Herbst.), (Tenebrionidae, Col.). J. Fac. Sci., Riyadh Univ., 12, 127-138
7. Al-Khalifa, M. S. (1981). The spermathecal Structure of the Flour Beetle, *Triholium castaneum*(Herbst.) (Col., Tenebrionidae). Ind. J. Zool., 9, 1-6.
8. Al-Khalifa, M. S. and Bayoumi, B. M. (1983). New records of the soil Acarina and Collembola in Riyadh region. J. Coll. Sci., King Saud Univ., 14, 57-61.
9. Al-Khalifa, M. S., Diab, F. M. and Al-Asgah, N. A. (1983). A Check List of Ticks (Ixodoidea) Infesting Local Farm Animals in Saudi Arabia. Ticks of Al-Qasim Region. J. Coll. Sci., King Saud Univ., 14, 335-339
10. Bayoumi, M. B. and Al-Khalifa, M. S. (1983). Soil Mites and Collembola from Al-Qasim Province, Saudi Arabia. Arab Gulf J. Scient. Res., 1, 179-186.
11. Al-Khalifa M. S. and Bayoumi, B. M. (1983). Distribution of Soil Mites and Collembolans under Pine Trees in Riyadh Region, Saudi Arabia. Acta Arachnol., 32, 27-36.
12. Al-Khalifa, M. S. (1984). The Effect of Age on the Ultrastructure of the Fat Body Cells of the Granary Weevil, *Sitophilus granarius* (L.) (Coleoptera: Curculionidae) Arab Gulf J. Scient. Res., 2(1) 239-254.
13. Al-Khalifa, M. S. (1984). Observations on the Effect of Age on the Time of Onset of Oosorption in *Sitophilus granarius* (L.) (Coleoptera). J. Coll. Sci., King Saud Univ., 15(1), pp. 129-132.
14. Al-Khalifa, M. S., Al-Asgah, N. A. and Diab, F. M. (1984). Ticks (Acari: Ixodidae) infesting common domestic animals in Al-Qasim Province, Saudi Arabia. J. Med. Entomol., 21, 114-115

15. Bayoumi, M. B. and Al-Khalifa, M. S.(1984). Oribatid mites (Acari, Oribatei) from South Western Arabia. Mitt. Zool Mus. Berl., 60, 203-211.
16. Hoogstraal, H., Wassef, H. Y., Diab, F. M., Al-Asgah, N. A. and Al-Khalifa, M. S. (1984). Acarina of Saudi Arabia *Ornithodoros (Alveonassus) lahorensis* (Fam. Argasidae) in Saudi Arabia. Biological, Veterinary and Medical implications. Fauna of Saudi Arabia, 6, 165-169
17. Al-Khalifa, M. S. (1984). The Transovarial Transmission of Symbionts in the Grain Weevil. J. Invertebr. Pathol., 44, 106-109
18. Al-Asgah, N. A., Hussein, H. S., Al-Khalifa, M. S. and Diab, F. M. (1985) *Hyalomma schillzei* (The Large Camel Tick) Distribution in Saudi Arabia. J. Med. Entomol., 22, 230-231.
19. Al-Khalifa, M. S. and Siddiqui, M. I. (1985). A comparative study of haemocytes in some Coleopterous Species . J. Coll. Sci.. King Saud Univ. 16, 119-134.
20. Al-Khalifa, M. S. (1985) Symbionts in the Follicle Cells of The Beetle. *Aepopsis Robinii* (Laboulbene) (Col.: Carabidae). Int. J. Insect Morphol. and Embryol., 14, 319-321.
21. Diab, F. M. . Hoogstraal, H., Wassef, H. Y. . Al-Khalifa, M. S. and Al-Asgah, N. A. (1985). *Hyalomma (Hyalommina) arabica*: Nymphal and Larval Identity and Spiny Mouse Hosts in Saudi Arabia (Acarina: Ixodoidea: Ixodidae) . J. Parasitol., 71, 630-634.
22. Bayoumi, M. B. and Al-Khalifa, M. S. (1985). Oribatid mites (Acari) of Saudi Arabia. Fauna of Saudi Arabia, 7, 66-92. (ABSTRACT)
23. Bayoumi, M. B. and Al-Khalifa, M. S. (1985). Three New Oribatid Mites from Saudi Arabia (Acari, Oribatidae). Bull. Soc. Amis. Sci. Lettr., Poznan, 33, 119-126. (ABSTRACT)
24. Al-Khalifa, M. S. (1986). The Structure and Possible Function of the Calyx Region of the Female Reproductive System in the Granary Weevil. *Sitophilus Granarius* (L.) (Col.). Arab Gulf J. Scient. Res. 4 (I), 327-335
25. Al-Khalifa, M. S., Al-Asgah, N. A. and Diab, F. M. (1986). *H. valomma (Hyalommina) arabica*, the Arabian Goat and Sheep Tick: Distribution and Abundance in Saudi Arabia . J Med. Entomol., 23(2). 220-221.
26. Al-Khalifa, M. S. and Siddiqui, M. I. (1986). A Study *Invitro* of Phagocytosis in the Haemocytes of the Scavenger Beetle *Dermestes vulpinus* (Klug.) (Dermestidae: Coleoptera) . J Coll. Sci. King Saud Univ, 17, 47-54.
27. Al-Khalifa, M. S., Diab, F. M. (1986). A Checklist of Ticks (Ixodoidea) Infesting Local Farm Animals in Saudi Arabia. 11. Riyadh Province . J Coll. Sci. King Saud Univ., 17, 151-157.
28. Bayoumi, M. B. and Al-Khalifa, M. S. (1986). Two Oribatid Mites (Acari: Oribatida) from Saudi Arabia. Acta Arachnol, 35: 15-21.
29. Al-Khalifa, M. S. (1986). Oocyte Development in the Scavenger Beetle, *Dermestes vulpinus* (Klug.) (Dermestidae: Coleoptera). Proc. Saudi J. Biol. Sci. , 9, 176-188.

30. Al-Khalifa, M. S. (1987). The Ultrastructure and Histochemistry of Fat Body Cell of the Adult Female Red Floor Beetle, *Tribolium castaneum* Herbst. J. Coll. Agric. King Saud Univ. 9, (2) pp. 307-315
31. Al-Khalifa, M. S. (1987). The Ultrastructure and Histochemistry of Fat Body Cells of the Adult Female Red Flour Beetle, *Tribolium castaneum* J. Agric. Coll. King Saud Univ.,9, 307-315.
32. Al-Khalifa, M. S. (1987). Studies on Ultrastructural Changes in the Lateral Oviduct of *Sitophilus granarius*, with Ageing. Cytologia, 52, 199-205.
33. Al-Khalifa, M. S., Hussein, H. S., Al-Asgah, N. A. and Diab, F. M. (1987) Ticks (Acari: Ixodidae) Infesting Local Domestic Animals In West And Southern Saudi Arabia. Arab Gulf J. Scient. Res., B-Agric. & Biol. Sci., 5, 301-319.
33. Diab, F. M., Al-Khalifa, M. S., Hussein, H. S. and Al-Asgah, N. A. (1987). Ticks (Acari: Ixodidae) Parasitizing Indigenous Livestock in Northern and Eastern Saudi Arabia. Arab Gulf J. Scient. Res., B-Agric. & Biol. Sci., 5, 273-268.
34. Al-Khalifa, M. S. (1988). The Structure and Possible Functions of the Oviducts In the Flour Beetle *Tribolium castaneum*. J. Coll. Sci. King Saud Univ., 19, 49-57.
35. Hussein, H. S., Al-Khalifa, M. S., Diab, F. M. and Al-Asgah, N. A. (1988) The Distribution, Host Range And Seasonal Abundance Of The Arabian Goat And Sheep Tick, *Boophilus kholsi* In Saudi Arabia. Arab Gulf J. Scient. Res., B-Agric. & Biol. Sci., 275-287.
36. Al-Khalifa, M. S. (1989) Egg Development in the Arabian Goat and Sheep Tick, *Hyalomma arabica* (Acari: Ixodidae). Arab Gulf J. Scient. Res., P-Agric. & Biol. Sci, B7, 145-154.
37. Al-Asgah, N. A., Al-Khalifa, M. S. and Diab, F. M. (1990). Seasonal Dynamics of *Hyalomma arabica* (Acari: Ixodidae) In the Al-Sarwat Mountains of Makkah Province, Saudi Arabia. J. Med. Entomol., 27, 713-716.
38. Al-Asgah, N. A., Diab, F. M. and Al-Khalifa, M. S. (1990). *Haemaphysalis sulcata* (Acari: Ixodidae) Distribution, Hosts and Seasonal changes in Saudi Arabia. Arab Gulf J. Scient. Res., 8, 169-182
39. Hussein, H. S., Al-Asgah, N. A., Al-Khalifa, M. S. and Diab, F. M. (1991) The Blood Parasites Of Indigenous Livestock in Saudi Arabia. Arab Gulf J. Scient. Res., 9, 143-160.
40. Al-Khalifa, M. S. And Siddiqui, M. I. (1993). Free Haemocytes of the Ixodid Ticks, *Hyalomma arabica* and *Hyalomma dromedarii* (Acari: Ixodidae) Arab Gulf J. Scient. Res. 11 (3), 415 – 424.
41. Tantawy, T. A., Al-Khalifa, M. S., Elyan, D. E.; Diab, F. M., Al-Asgah, N. A. Hussein, H. S., Botros, B. A. and Arther, R. R. (1993) Viral Survey of Ticks in Saudi Arabia. J. Parasitol, 79, 229-230.
42. Al-Khalifa, M. S. and Siddiqui, M. I. (1994). Localization of Glycogen in the Haemocytes of the Ixodid Ticks, *Hyalomma dromedarii* and *Hyalomma arabica* (Acari: Ixodidae) Arab Gulf J. Scient. Res. 12, 573 - 580 .
43. Al-Khalifa, M. S. and Siddiqui, M. I. (2003) Larval Haemocytes of the Red Palm *Rhynchophorus ferrugineus* (Oliver) Saudi Biol. Soc. (Presented).

44. Al-Khalifa, M. S. and Siddiqui, M. I. (1999) Study of Free Haemocytes of Red Palm Weevil, *Rhynchophorus ferrugineus*(Oliver)(Col, Curculionidae) Saudi J. Biol. Sci. 6, 3-8.
45. Al-Shawan, M.; Al-Khenaizan, S. and Al-Khalifa, M. S. (2006) Black (samsam) Ant Induced Anaphylaxis in Saudi Arabia, Saudi Med. J. 27(11) 1761-1763.
46. Al-Khalifa, M. S. (2006) The Life Cycle of the Tick *Hyalomma dorsalis* Koch.(Acari : xodidae) under Laboratory Conditions, J. Egypt. Ger. Soc. Zool. (Entomology) 49(E) 41-48.
47. Al-Khalifa, M. S.; Al-Lahoo, A. A. and Hussein, H. S. (2006) The Effect of Temperature and Relative Humidity on Moulting of Engorged Larvae and Nymphs of *Rhipicephalus turanicus* Pomerantzer, 1936 13(1)193-201.
48. Al-Khalifa, M. S.; Diab, F. M. ; Al-Asgah, A. A.; Hussein, H. S. and Khalil, G.M.(2006) Ticks (Acari: Argasidae) Recorded on Wild Animals in Saudi Arabia, Fauna of Arabia, 22. 225-231.
49. Diab, F. M. ; Al-Khalifa, M. S. ; Al-Asgah, N. A.; Hussein, H. S. and Khalil, G. M. (2006) Ticks(Acari: Argasidae, Ixodidae) Infesting Livestock in Saudi Arabia, Fauna of Arabia, 22: 233-242.
50. Al-Khalifa, M. S. ; Diab, F. M and Khalil, M. G. (2007) Man-Threatening Viruses Isolated from Ticks in Saudi Arabia , Saudi Med. J. 28 ,1864-1867
51. Al-Khalifa, M. S. ; Khalil, G. M. and Diab, F. M (2007) A Two Years Study of Ticks Infesting Goats and Sheep in Abha, Saudi Arabia , Saudi J. Biol. Sci. 14(1) 83-91.
52. Al-Khalifa, M. S. ; Khalil, G. M. and Diab, F. M (2007) A Two Years Study of Ticks Infesting Camels in Al-Kharj in Saudi Arabia Arabia, Saudi Arabia , Saudi J. Biol. Sci.14(2) 211-220.
53. Al-Khalifa, M. S and Siddiqui, M. I. (2007) Differential Haemocytes in the Fourth Instar Larvae of the Red Palm Weevil, *Rhynchophorus ferrugineus* (Oliver). 3rdSaudi Sci Conf. Riyadh , ¹⁰⁻¹³ March, 2007, to be held at King Fahad Cultural Center, Riyadh.
54. Al-Khalifa, M. S.; Hussein, H. S., F. M. Diab and G. M. Khalil (2008) Blood Parasites of Livestock in Saudi Arabia, Saudi J. Biol. Sci. , 16 (2) 63-69.
55. Al-Khalifa, M. S.; G. M. Khalil ; Hussein, H. S. and F. M. Diab (2008). A Preliminary Study on the Effect of a concurrent Infection with *Eperythrozoon wenyonii* on the Development of *Theileria annulata* in Calves, Saudi Arabia , Saudi J. Biol. Sci 15 (1) 73-79
56. Al-Khalifa, M.S., Ahmed, A.M., Mashaly, A.M.A., Khalil, G., Siddiqui, M.I. and Al-mekhlafi, F. (2010). The samsam ants, *Pachycondyla sennaarensis* : Distribution and seasonal changes in Riyadh region. Pakistan journal of Zoology 42(6) .
57. Mashaly, A.M.A., Ahmed, A.M. and Al-Khalifa, Al-Abdula, M.A. Siddiqui, M.I. (2010). The trail pheromone of the venomous samsam ant, *Pachycondyla sennaarensis*. J. Insect Science 58,
58. Siddiqui, M.I., Mashaly, A.M.A., Ahmed, A.M., Al-Khalifa, M.S. (2010) Ultrastructure of Antennal Sensilla of the Samsam ant, *Pachycondylla sennaarensis* (Hymenoptera:

- Formicidae: Ponerinae) from Saudi Arabia. African journal of biotechnology 9(41), 6956-6962
59. Dkhil, M. A. ; Abdel-Baki, A. S. ; Al-Quraishi, S. and Al-khalifa, M. S. (2010) Anti-inflammatory activity of the venom from Samsun ant *Pachycondyla sennaarensis* , African J. Pharm. & Pharmacol. 4(3), 115 – 118.
 60. Ashraf M. A. Mashaly, Ashraf M. Ahmed, Mohammed S. Al-Khalifa, Tulio M. Nunes, E. David Morgan (2010) Identification of the alkaloidal venoms of some Monomorium ants of Saudi Arabia. Biochem. Sys. Ecol. 38, 875 - 879.
 61. Siddiqui, M. I. and Al-Khalifa, M. S. (2012). Circulating haemocytes in insects: Review of their types. Pakistan. J. Zool. 44(6), 1743-1750.
 62. Hosam, E.; Al-Khalifa, M.; Isa, A. M. and Gadoa, S. (2012) . Bioactivity of Samsun ant (*Pachycondyla sennaarensis*) venom against lipopolysaccharides through antioxidant and upregulation of Akt1 signaling in rat. Lipids in Health and Disease 11: 93-100.
 63. Siddiqui, M. I. and Al-Khalifa, M. S. (2012). Review on Haemocyte Counts, Responses to Chemicals , Phagocytosis, and Metamorphosis in insects. Ital. J. Zool. Pp.1-14
 64. Al-Qahtani, Abdulmani H.; Al-Khalifa, Mohammad S.; Al-Saleh, Abdulaziz A. (2014) Karyotype, Meiosis and Sperm Formation in the Red Palm Weevil *Rhynchophorus ferrugineus* CYTOLOGIA Volume: 79 Issue: 2 Pages: 235-242 Published: JUN 2014
 65. Dkhil, Mohamed A.; Al-Quraishy, Saleh; Al-Khalifa, Mohamed S (2014) The Effect of Babesia divergens Infection on the Spleen of Mongolian Gerbils BIOMED RESEARCH INTERNATIONAL
 66. Mohammed Saleh Al-Khalifa, Ashraf Mohamed Ali Mashaly, Mohammed Iqbal Siddiqui, Fahd Abdu . (2015) Samsun ant, *Brachyponera sennaarensis* (Formicidae: Ponerinae): Distribution and abundance in Saudi Arabia - Saud J. Biol.Sci., 22(5):575-579
 67. Billen J. and Al-Khalifa, M. S. (2015) Morphology and ultrastructure of the pro- and postpharyngeal glands in workers of *Brachyponera sennaarensis* Sociobiology 62(2) 276-281

Refereed Text Books:

1. Al-Khalifa, M. S. , Al-Wahaibi, M. H. & Al-Yousif, M. s. (1983). Complementary Biology for Junior Colleges, 204 pp. Ministry of Education, Kingdom of Saudi Arabia (Text Book in Arabic).
2. Al-Khalifa, M. S. & Al-Saleh, A. A. (1996). " Microscopes and their techniques " 2nd edition. University Libraries, King Saud University, 380pp.
3. Al-Khalifa, M. S., Al-Mammer, A. A. and Taha, M. O. (1991). " The Science " 2nd Years Student's Book in Educational Programme for Elders, Ministry of Education, Kingdom of Saudi Arabia

4. Al-Khalifa, M. S., Al-Mammer, A. A. and Taha, M. O. (1992). " TheScience " 2nd Year's Teacher's Book in Educational Programme for Elders , Ministry of Education, Kingdom of Saudi Arabia, 199pp.
5. Taha, M. O. ; Al-Mammer, A. A. and Al-Khalifa, M. S. (1992). " TheScience " 3rd Year's Student's Book in Educational Programme for Elders, Ministry of Education, Kingdom of Saudi Arabia.
6. Taha, M. O. ; Al-Mammer, A. A. and Al-Khalifa, M. S. (1992). " The Science " 3rd Year's Teacher's Book in Educational Programme for Elders, Ministry of Education, Kingdom of Saudi Arabia.
7. Al-Khalifa, M. S. and Al-Rhama, A. N. (1994). " Biology " 3rd Year'sStudents Book for Senior Secondary level , Ministry of Education, Saudi Arabia, 293pp.
8. Al-Khalifa, M. S. and Al-Rhama, A. N. (1994). " Biology " 3rd Year'sTeachers Book for Senior Secondary level , Ministry of Education, Saudi Arabia, 293pp.
9. Al-Khalifa, M. S. (2001). " General Physiology" Scientific Publications and Press, King Saud University.
10. Al-Khalifa, M. S. (2007). "Entomology and Arthropoda" Saudi Arabia Encyclopedia, King Abdul Aziz Library.
11. Al-Khalifa, M. S. and Kandeel, S. A. (2010). "*Equine Exercise Physiology*" (Eds) Marlin, D. and Kathryn N. (2004) Blackwell Publishing (Translation to Arabic) Translation Centre , King Saud University, Riyadh Saudi Arabia.
12. Mashaly, A. M. A.; Ali, M. F. and Al-Khalifa, M. S. (2012). Trail Pheromones in Pest Control. In "New Perspective in Plant Protection" (Ed) Bandani, A. INTECH/ Open Science , Open Mind.
13. Siddiqui, M. I. and Al-Khalifa, M. S. (2014). Classical Practices and Pheromones in Biopesticides, In "*Biopesticides*" (Ed) Raj, S. K. Springer pp 1-14

Research in Progress

1. Survey & Distribution of the Black Ant, *Pachycondyla sinnarensis*.
2. Hematological Studies on Red Palm Weevil, *Rhynchophorus ferrugineus*.
3. Biological Studies on Medically and Veterinary important Arthropods