

Curriculum Vitae

Dr. Mohammed K. D. AL-Sadoon

Professor

Department of Zoology

College of science

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Nationality : Saudi Arabian

Major field : Zoology

Specialization : Herpetology (Ecophysiology and Toxicology)

Ph. D. : Biology, 1984.

“The Role and the Nature of Metabolic Rate-Temperature Curves in Lizards from Different Climatic Regions : A Comparative Study between *Chalcides ocellatus* (Desert Species) and *Lacerta vivipara* (Cool-Temperate Species)”.

M. Sc. : Biology, 1979.

“The Effect of Temperature on Labial Tooth Development in *Rana pipiens* Tadpoles”.

B. Sc. : Biology, 1974.

King Saud University, K. S. A.

Employment History :

- Head of Department of Zoology, college of science, King Saud university, 1993-1999.
- Professor, Department of zoology, college of science, King Saud university, since 2003.
- Associate Professor at the Department of Zoology, College of Science, King Saud University, 1991-2003.

- Assistant Professor at the Department of Zoology, College of Science, King Saud University, 1984-1991.
- Teaching Assistant at the Department of Biology, Southampton University, from 5/4/1980 till 5/4/1981.
- Demonstrator at the Department of Zoology, College of Science, King Saud University from 9/7/1974 till 8/6/1975.

Membership of Scientific Associations :

- 1 - Member of the Saudi Biological Society, 1985 (1405) till now.
- 2 - Member of Herpetological, 1986 (1406) till now.
- 3 - Member of Physiological Zoology, 1989 till now.
- 4 - Member of Saudi Medical Journal, 1987 (1407) till now.
- 5 - Member of Journal of Herpetology, 1987 (1407) till 1999 (1419).

Committees :

- 1 - Member of the committee for evaluation and follow-up of demonstrators in the Department of Zoology from 1984 (1404) till 1987 (1407).
- 2 - Member of the committee supervising the animal house and environmental rooms in the Department of Zoology from 1984 (1404) till 2001 (1422).
- 3 - Member of the Departmental Laboratories and Technicians Affairs Committee from 1985 (1405) till 1986 (1406).
- 4 - Member of Departmental Museum from 1986 (1406) till 1988 (1408).
- 5 - Secretary of the Animal House Foundation Committee of the College of Science from 1987 (1407) till 1989 (1409).
- 6- Secretary of Cultural Activities Committee of the Zoology Department, from 1991 (1411) till 1999 (1419).
- 7- Member of the Committee for Examining and Promoting a number of King Saud University Employees for the Grades 2-9 in the years 1988 (1408), 1995 (1415), 1996 (1416), 1999 (1419).
- 8- Member of Postgraduate Committee, College of Science from 2001 (1421) till now.

- 9- Secretary of Student Field Trips since 2004 till now.
- 10- Academic advisor for a number of postgraduate students since 1985 till now.

Research Activities :

- Adaptation of Animals to desert environment.
- Zoogeography of vertebrate in Saudi Arabia.
- Toxicological and Ecological studies of venomous snakes and scorpions of Saudi Arabia.
- Ecophysiological studies on Reptiles of Saudi Arabia.

Courses:

B. Sc.

- | | |
|----------------------|---------|
| -Herpetology | ZOO 327 |
| -Terrestrial Ecology | ZOO 373 |
| -Poisonous Animals | ZOO 481 |
| - Field Studies | ZOO 465 |

M. Sc. And Ph. D.

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|--------------------------------|----------|
| - Animal Ecology | ZOO 571 |
| - Advanced Ecology | ZOO 573 |
| - Topics in Ecology | ZOO 579 |
| -Terrestrial Ecology | ZOO 672 |
| -Animal Ecology and pollution | ZOO 671 |
| - Environmental Biology | ENVS 511 |
| - Seminar | ENVS 591 |
| - Research Project | ENVS 599 |
| - Animal Ecology and pollution | ZOO 570 |

Research Projects:

- The use of venoms derived from snakes in Saudi Arabia and Nanotechnology as a new therapeutic method to induce chemotaxis and growth arrest of Breast cancer, Prostate cancer and Multiple Myeloma. (2012-2013)
- Diversity of Land Vertebrates Fauna of Khnaiguiyah Zinc Copper Project Area in the Central Region of Saudi Arabia. (July 2010 to July 2011).
- Zoo-diversity of wild life vertebrates in Halaban area of the central region of Saudi Arabia. (June 2009 to June 2010).

- Biogenic environmental regulations in the Kingdom of Saudi Arabia (Central) region. Supported by the Prince Sultan Research Center for Water and Environment and the desert. (Feb. 2008 to Feb 2009).
- Diversity of Land Vertebrate Fauna of Wa'ad Al Shamaal Project in Turaif Area at the Northern Province of Saudi Arabia.(June 2014 to June 2015).

Publications

A- Research Papers:

1. **Al-Sadoon M. K.** and Spellerberg, I. F. (1985). Comparison of thermal acclimation effects on the metabolism of *Chalcides ocellatus* (desert lizard) and *Lacerta vivipara* (Cool-temperate lizard), Comp. Biochem. Physiol. 81 A, 939-943.
2. **Al-Sadoon M. K.** and Spellerberg, I. F. (1985). Effect of temperature on the oxygen consumption of lizards from different climatic regions, Amphibia-Reptilia 6, 241-258.
3. **Al-Sadoon M. K.** and Spellerberg, I. F. (1985). Seasonal changes in metabolism of the lizard, *Lacerta vivipara*, Herpetological Journal 1, 32-36.
4. **Al-Sadoon M. K.** (1986). An investigation of oxygen consumption in the lizard, *Lacerta vivipara* (Jacquin) in connection with photoperiod and the perietal eye, J. Coll. Sci., King Saud Univ., 17, 55-65.
5. **Al-Sadoon M. K.** (1986). Contribution of aerobic and anaerobic scope to the total metabolic scope of the desert skink, *Chalcides ocellatus* (Forskal), Comp. Biochem. Physiol. 83A, 745-749.
6. **Al-Sadoon M. K.** (1986). The influence of temperature and activity of aerobic and anaerobic metabolism in the viviparous lizard, *Lacerta vivipara* (Jacquin), Herpetological journal 1, 181-185.
7. **Al-Sadoon M. K.** and Spellerberg, I. F. (1987). Metabolism of the lizard, *Chalcides ocellatus* (Forskal) from Egypt., Journal of Arid Environ. 12, 159-168.
8. **Al-Sadoon, M.K.** (1986). Influence of a broad temperature range on the oxygen consumption rates of three desert lizard species. Comp. Biochem. Physiol. 84 (A): 339-344.
9. **Al-Sadoon, M.K.** and El-Banna, A.A. (1986). The effect of thyroxine on the oxygen consumption of the ocellated skink, *Chalcides ocellatus* (Forskal), Comp. Biochem. Physiol. 86: 189-192.

10. **Al-Sadoon, M.K.** (1988). Survey of the reptilian fauna of the kingdom of Saudi Arabia. II- The lizard and amphisbaenian fauna of Riyadh Province, Bull. Maryland Herpetol. Soc. 24 (3): 58-76.
11. **Al-Sadoon, M.K.** and Abdo, N.M. (1988). A comparative study on the metabolic rates of the five species of lizards belonging to three different families, Bull. Maryland Herpetol. Soc. 24 (4): 85-98.
12. **Al-Sadoon, M.K.** (1989). Survey of the reptilian fauna of the Kingdom of Saudi Arabia. I. The snake fauna of the Central Region, J. King Saudi Univ. 1A, Science (1): 53-69.
13. **Al-Sadoon, M.K.** and Abdo, N.M. (1989). Temperature effects on oxygen consumption of two nocturnal geckos, *Ptyodactylus hasselquistii* (Donndorff) and *Bunopus tuberculatus* (Blanford) Reptilia: Gekkonidae) in Saudi Arabia, J. Comp. Physiol. B 159: 1-4.
14. **Al-Sadoon, M.K.;** El-Banna, A.A.; Ibrahim, M.M.; Abdo, N.M. and Al-Rasheid, K.A.(1990). Effect of gonadal steroid hormones on the metabolic rate of the cold-acclimated gonadectomized male and female *Chalcides ocellatus* (Forskal), Gen. Comp. Endocrinol.,80: 345-48.
15. **Al-Sadoon, M.K.** (1991). Metabolic rate-temperature curves of the Horned Viper, *Cerastes cerastes gasperetti*, the Moila snake, *Malpolon moilensis* and the Adder, *Vipera berus*. Comp. Biochem. physiol., 99A (1/2): 119-122.
16. **Al-Sadoon, M.K.** and Abdo, N.M. (1991). Fatal envenoming by the snake *Atractaspis* newly recorded in the Central Region of Saudi Arabia. J. King Saud Univ., 3, Science (2):123-131.
17. **Al-Sadoon, M.K.** and Abdo, N.M. (1991). Temperature and body mass effects of the metabolic rate of *Acanthodactylus schmidtii* Weigman (Reptilia: Lacertidae), J.Arid. Environ. 21: 351-361.
18. **Al-Sadoon, M.K.;** Al-Farraj, S.A. and Abdo, N.M. Survey of the reptilian fauna of the kingdom of Saudi Arabia. III. An ecological survey of the lizard, Amphisbaenian and Snake fauna of Al-Zulfi Area. Bull. Maryland Herpetol. Soc. USA (1991). 27 (1): 1-22.
19. Al-Jammaz, I.; **Al-Sadoon, M.K.;** Attia, M.A. and Fahim, A. Effect of *Walterinnesia aegyptia* venom on serum, tissue metabolites and some enzyme activities in male albino rats. II. Enzyme activities, Ain Shams Sci. Bull. Egypt (1992). 30: 207-222.
20. Al-Shammmary, F. J.; Ghniem, H.K.; **Al-Sadoon, M.K.;** Na'seh, A.M.; Neelofur, A.M. and Saleem, M.M. The effect of crude *Cerastes cerastes gasperetti* venom on the

- activity of key metabolic enzymes in cultured human fibroblasts. Ann. Saudi Med. Saudi Arabia (1992). 12 (2): 201-205.
21. Kasim, A.A.; **Al-Sadoon, M.K.** and Al-Shawa, Y.R. *Scincus mitranus*, Anderson 1871 (Sauria: Scincidae) a new host of *Eimeria scincie*, Phisalix 1923 (Apicomplexa Eimeriidae) in Saudi Arabia. Trop. Zool. Italy (1993). 6: 275-279.
 22. Al-Jammaz, I.; **Al-Sadoon, M.K.**; Fahim, A. and Attia, M.A. The effects of *Walterinnesia aegyptia* venom on the serum and tissue metabolites and on some enzyme activities in albino rats. III. Effects on lipid metabolism and two dehydrogenases. J. King Saud Univ. Saudi Arabia (1994). 6, Sci. (2): 207-215.
 23. Al-Mohareb, F. and **Al-Sadoon, M.K.** Outcome of snakebites in Al-Baha district. Ann. Saudi Med. Saudi Arabia (1994). 14 (1): 26- 29.
 24. **Al-Sadoon, M.K.** and Abdo, N. M. Comparative metabolic rate-temperature curves of *Phrynocephalus arabicus*, Anderson 1894 and *Agama [Stellio] stellio brachydactyla*, Hass 1951 (Agamidae, Sauria, Reptilia). J. Arid Environ. UK (1994). 28: 249-256.
 25. **Al-Sadoon, M.K.** and Jarrar, B. M. A study of the frequency and incidence of scorpion stings and snake bites in Riyadh city. J. King Saud Univ. Saudi Arabia (1994). 6, Sci. (2): 217-226.
 26. Al-Saleh, S.S.; Rabbani, N.; **Al-Sadoon, M.K.**; Al-Jafari, A.A. and Duhaiman, A.S. A rapid fractionation method for the desert cobra venom (*Walterinnesia aegyptia*). Med. Sci. Res. UK (1994). 22: 659-660.
 27. Abu-Tarboush, H.M.; Al-Johany, A.M. and **Al-Sadoon, M.K.** Proximate composition and fatty acids and cholesterol content of dhub's meat (*Uromastix aegyptius*, Blanford 1874) at the end of winter and during spring. J. King Saud Univ. Saudi Arabia (1996). 8, Agric. Sci. (1): 79-92.
 28. Al-Johany, A.M. and **Al-Sadoon, M.K.** Selected body temperature and metabolic rate-temperature curves of three species of desert snakes. J. Arid Environ. UK (1996). 34: 363-370.
 29. Al-Johany, A.M.; **Al-Sadoon, M.K.** and Al-farraj, S.A. Reproductive biology of the skink *Scincus mitranus*, Anderson 1871, in the central region of Saudi Arabia. J. Arid Environ. UK (1997). 36: 319-326.
 30. Al-Yousif, M.S.; **Al-Sadoon, M.K.** and Al-Shawa, Y.R. *Eimeria Schmidt* n.sp. (Apicomplexa: Eimeriidae) from the sandy fringe-toed lizard (*Acanthodactylus schmidt*) in Saudi Arabia. J. Egyptian Soc. Parasitol. Egypt (1997). 27 (2): 465-469.

31. **Al-Sadoon, M. K.** and El-Bahrawy, A.F. Blood parasites of five species of lizards trapped in Abha province, Saudi Arabia. J. Egypt. Soc. Parasitol Egypt (1998). 28 (3): 899-905.
32. Al-Johany, A.M.; **Al-Sadoon, M. K.** and Al-Farraj, S. A. Thermal ecology and activity of the sand fish lizard *Scincus mitranus* (Scincidae) in central Arabia. J. King Saud Univ. Saudi Arabia (1999). 11, Sci. (1): 1-16.
33. **Al-Sadoon, M. K.** Comparative Metabolic rate-temperature curves of five species of snakes of the families Viperidae, Colubridae, and Leptotyphlopidae. J. King Saud Univ. Saudi Arabia (1999). 11, Sci. (2): 69-79.
34. **Al-Sadoon, M. K.;** Al-Johany, A. M. and Al-Farraj, S. A. Food and feeding habits of the sand fish lizard *Scincus mitranus*. Saudi J. of Bio. Sci. Saudi Arabia (1999). 6 (1): 91-101.
35. **Al-Sadoon, M. K.;** Al-Yousif, M. S.; AL-Shawa, Y. R. and Abdel Ghaffar, F. Prevalence of Haemogregarines (Coccidia, Apicomplexa) infecting some snakes in Saudi Arabia and the Host-parasite relationship. J. Egypt. Ger. Soc. Zool. Egypt (1999). 28 (D): 59-69.
36. Al-Jammaz, I.; **Al-Sadoon, M. K.** and Fahim, A. Effect of LD₅₀ dose of *Echis coloratus* venom on serum and tissue metabolites and some enzymes of male albino rats. J. King Saud Univ., Saudi Arabia (1999). 11, Sci. (2): 61-67.
37. **Al-Sadoon, M. K.** Reproductive cycle of *Uromastix aegyptius mirolepis* (Blandford, 1874) in the central region of Saudi Arabia. J. Union Arab Biologists, Egypt (2001). 15 (A), Zoo. 1-14.
38. **Al-Sadoon, M. K.** Thermal selection and metabolic rate of the skink, *Scincus hemprichii* weigmann, 1837 (Scincidae; Reptilia). Egypt. J. Zool. Egypt (2001). 36: 89-102.
39. **Al-Sadoon, M. K.** Measurment of resting and active aerobic and anaerobic metabolism of sand fish, *Scincus mitranus* at selected temperatures. Pakistan J. Biol. Sci. Pakistan (2001). 5 (2) : 192-195.
40. **Al-Sadoon, M. K.** Weight specific oxygen consumption values at various Temperatures for *Scincus mitranus* Anderson, 1871 (Scincidae:Reptilia). Online J. Biol. Sci. Pakistan (2002). (Letter of acceptance attached).
41. **Al-Sadoon, M.K.** and jarrar, B. M. (2003). Epidemiological study of scorpion stings in Saudi Arabia between 1993 and 1997. J. venom. Anim. Toxins, Vol. 9, no. 1, p. 54-64.

42. **Al-Sadoon, M.K.** and Haffor, A.S.A. (2005). The effects of *Cerastes Gasperetti* venom on hepatocyte mitochondria ultrastructure and blood cells count. *Journal of Medical Sciences* Vol 5 No 4: 254-260.
43. Haffor, A.S.A. and **Al-Sadoon, M. K.** (2008). Increased Antioxidant Potential and Decreased Free Radical Production in Response to Mild Injection of Crude Venom, *Cerastes Cerastes Gasperettii* Toxicol Mech Methods. 2008;18(1):11-6.
44. Arif I A, Khan H A, Bahkali A H, ALHomadian A A, Al Farhan A H, Shobrak M, **Al-Sadoon M K** (2009). Comparison of Neighbor- Joining and maximum - Parsimony methods for molecular phylogeny of Oryx species using 12 S rRNA and 16 S rRNA gene sequences. *Ani. Biol. J* Vol. 1. Issue 2. P. 118-125.
45. Ajarem J, Alsafar E, and **Al-Sadoon M.** (2009). Effect of thermal stress alcohol on the locomotory behavior of male mice. *Ultra chemistry* Vol. 5(2), 187-196.
46. Arif I A, Khan H A, H, ALHomadian A A, Al Farhan A H, A. H. Bahkali, M. Shobrak and **M. Al-Sadoon.** (2010). Usefulness of Noninvasive Methods of DNA Sampling but with a Caution. *Ani. Biol. J. Vol. 1. Issue 3.* P.151-155.
47. Arif I A, Khan H A, Shobrak M, ALHomadian A A, **Al-Sadoon M.** and Al Farhan A H. (2010). Measuring the genetic diversity of Arabian Oryx using microsatellite markers: implication for captive breeding. *Genes Genet. Syst.* 85, p.141-145.
48. **Al-Sadoon M. K.** (2010). Reptiles Diversity in Al-Hassa Region of Saudi Arabia. *J. Egypt. Ger. Soc. Zool. Egypt* Vol. 58: 59-85.
49. Arif. I A, Bakir. M A, Khan H A, Ahamed. A, Al Farhan A H, AL Homadian A A, **Al-Sadoon M,** Bahkali A H, Shobrak M.(2010). A Simple Method for DNA Extraction from Mature Date Palm Leaves: Impact of Sand Grinding and Composition of Lysis Buffer. *International Journal of Molecular Sciences.* Vol. 11. P. 3149-3157.
50. Arif. I A, Bakir. M A, Khan H A, Al Farhan A H, AL Homadian A A, Bahkali A H, **Al-Sadoon M,** Shobrak M.(2010). A Brief Review of Molecular Techniques to Assess Plant Diversity. *International Journal of Molecular Sciences.* Vol. 11. P. 2079-2096.
51. Khan H A, Arif. I A, Shobrak M, AL Homadian A A, Al Farhan A H, **Al-Sadoon M.** (2010). Application of mitochondrial genes sequences for measuring the genetic diversity of Arabian oryx. *Genes Genet. Syst.* 85, p.365-370.
52. Arif. I A, Bakir. M A, Khan H A, Al Farhan A H, AL Homadian A A, Bahkali A H, **Al-Sadoon M,** Shobrak M.(2010). Application of RAPD for molecular

- characterization of plant species of medicinal value from an arid environment. *Genetics and Molecular Research* 9 (4): 2191-9198.
53. Arif. I A, Khan H A, Shobrak M, AL Homadian A A, **Al-Sadoon M**, Al Farhan A H, Bahkali A H, (2010). Interpretation of electrophoretograms of seven microsatellite loci to determine the genetic diversity of the Arabian Oryx. *Genetics and Molecular Research* 9 (1): 259-265.
 54. Arif IA, Khan HA, **Al Sadoon M**, Shobrak M, (2011). Limited efficiency of universal mini-barcode primers for DNA amplification from desert reptiles, birds and mammals. *Genetics and Molecular Research (Brazil)* (Accepted).
 55. Arif IA, Khan HA, Bahkali AH, Al Homaidan AA, Al Farhan AH, **Al Sadoon MK**, Shobrak M, (2011). DNA marker technology for wildlife conservation. *Saudi Journal of Biological Sciences (KSA)* ; 18 (3): 219-225.
 56. **Al-Sadoon M K**, Fahim A, Salama S F, Bader G. (2012). The effect of *walterinnesia aegyptia* crude venom of blood parameters of male rats. *African Journal of Microbiology Research* Vol. 6(3), pp. 653-659.
 57. **Al-Sadoon M K**, Fahim A,(2012). Possible recovery from an acute envenomation in male rats with LD50 of *Echis coloratus* crude venom: I-A seven days hematological follow-up study. *Saudi Journal of Biological Sciences* 19, 221–227.
 58. Badr G, **Al-Sadoon M K**, El-Toni A M and Daghestani M.(2012). *Walterinnesia aegyptia* venom combined with silica nanoparticles enhances the functioning of normal lymphocytes through PI3K/AKT, NF_Β and ERK signaling. *Lipids in Health and Disease*, 11:27
 59. **Al-Sadoon M K**, Abdel-Maksoud M A, Rabah D M, Badr G. (2012). Induction of Apoptosis and Growth Arrest in Human Breast Carcinoma Cells by a Snake (*Walterinnesia aegyptia*) Venom Combined With Silica Nanoparticles: Crosstalk Between Bcl2 and Caspase 3. *Cell Physiol Biochem*; 30:653-665.
 60. Badr G, **Al-Sadoon M K** , Abdel-Maksoud M A, Rabah D M and El-Toni A M. (2012). Cellular and Molecular Mechanisms Underlie the Anti- Tumor Activities Exerted by *Walterinnesia aegyptia* Venom Combined with Silica Nanoparticles against Multiple Myeloma Cancer Cell Types. *Plos one*. 7(12): 1-15.
 61. Sayed D, **Al-Sadoon M K**, and Badr G. (2012). Silica Nanoparticles Sensitize Human Multiple Myeloma Cells to Snake (*Walterinnesia aegyptia*) Venom- Induced Apoptosis and Growth Arrest. *Oxidative Medicine and Cellular Longevity*. Vol 2012 : 386286

62. **Al-Sadoon M K**, Rabah D M and Badr G. (2013). Enhanced anticancer efficacy of a snake venom when combined with silica nanoparticles in a murine model of human multiple myeloma: Molecular targets for cell cycle arrest and apoptosis induction. *Cell Immunol.* 284(1-2):129-38.
63. Sayed D, **Al-Sadoon M K** and Badr G. (2013). Snake (*Walterinnesia aegyptia*) venom-loaded silica nanoparticles induce apoptosis and growth arrest in human prostate cancer cells. *Apoptosis.* 18(3):300-14.
64. **Al-Sadoon M K** , Abdel Moneim A E, Diab MS and Bauomy A A. (2013) Hepatic and renal tissue damages induced by *Cerastes cerastes gasperetti* crude venom. *Life Science Journal* 10(4): 191-197.
65. **Al-Sadoon M K**, Orabi G M and Badr G. (2013). Toxic Effects of Crude Venom of a Desert Cobra, *Walterinnesia aegyptia*, on Liver, Abdominal Muscles and Brain of Male Albino Rats. *Pakistan J. Zool.*, vol. 45(5), pp. 1359-1366.
66. **Al-Sadoon M K**, Kandeal S.A, Al-Otaibi F.S. (2013). Reproductive activity of the sand boa, *Eryx jayakari* throughout the year in Riyadh region of Saudi Arabia. *Life Science Journal* vol.10(4): 457-461.
67. **Al-Sadoon M K** , Abdel Moneim A E, Diab MS and Bauomy A A. (2013). Histochemical and Biochemical effects induced by LD50 of *Cerastes cerastes gasperetti* crude venom in mice. *Life Science Journal* vol.10(4): 810-817.
68. Al-Dokhi O A, Ahmed M, Al-Dosary A, **Al-Sadoon M K**. (2013). Ultrastructural study of spermiogenesis in a rare desert amphisbaenian *Diplometopon zarudnyi*. *Comptes Rendus Biologies* Vol 336:473-478.
69. Al-Shammari AM, Khan S, **Al-Sadoon MK**, Al-Saleh SM. (2013). Biochemical Characterization of Pyramid Viper, *Echis pyramidum*, Venom. *Pakistan J. Zool.*, vol. 45(6), pp. 1741-1749, 2013.
70. Al-Sadoon MK. Al-Otaibi FS. (2014). Ecology of the Sand Boa, *Eryx jayakari* in Riyadh Region of Saudi Arabia. *Saudi Journal of Biological Sciences* Vol 21:391–393.
71. Al-Sadoon MK. (2014). Snake bite envenomation in Riyadh province of Saudi Arabia over the period (2005–2010). *Saudi Journal of Biological Sciences* (In press).
72. Al-Sadoon MK. Kandeal SA. Rodiny HA. (2014). Reproductive characteristics of the worm lizard, *Diplometopon zarudnyi*, in relation to months of the year in Riyadh region of Saudi Arabia. *C. R. Biologies* Vol 337: 229–234.

73. Al-Sadoon MK. Fahim A. (2014). Effects of an Acute Envenomation of *Echis coloratus* on Some Tissues Enzymes Activities of Male Rats. journal of pure and applied microbiology. vol. 8(4), p. 3291-3298.
74. Al-Sadoon MK. Kandeal SA. Al-Otaibi FS. (2014). Aerobic and Anaerobic Metabolism of the Snake, *Eryx jayakari*, during Resting and Activity under Experimental Different Temperatures. journal of pure and applied microbiology. vol. 8 (spl. edn. 1), p. 267-271.
75. Al-Sadoon M K. Diab MM, Bauomy AA. and Abdel Moneim AE. (2014). *Cerastes cerastes gasperettii* venom Induced Hematological Alterations and Oxidative Stress in Male Mice. Journal Of Pure And Applied Microbiology. Vol. 8 No. Special Edition.
76. Al-Sadoon M. K., Kandeal S. A. (2015). Reproductive biology of the horned viper, *Cerastes cerastes gasperettii* in the central region of Saudi Arabia. Saudi Journal of Biological Sciences 22, 351–357.
77. Al-Dokhi O., Mukhtar A., Al-Dosary A., Al-Sadoon M.K. (2015). Ultrastructural Differentiation of Sperm Tail Region in *Diplometopon Zarudnyi* (An Amphisbaenian Reptile). Saudi Journal of Biological Sciences 22, 448–452.
78. Paray B. A., Al-sadoon M. K. and Haniffa M. A. (2015). Impact of different feeds on growth, survival and feed conversion in striped snakehead *Channa striatus* (Bloch 1793). Larvae. Indian J. Fish., 62(3) : 82-88.
79. Rani K. U., M. Musthafa S., War M. Al-Sadoon M. K., Paray B. A., T. H. Shareef M. A., Nawas P. M. A. (2015). Impact of tributyltin on antioxidant and DNA damage response in spermatozoa of freshwater prawn *Macrobrachium rosenbergii*. Environ Sci Pollut Res. DOI 10.1007/s11356-015-5202-3.
80. Paray B. A., Haniffa M.A, Mehraj U.d. Din War., Al-Sadoon M. K., Park Y.H., & Rather I. A., (2015). Histological changes in the digestive tract of striped murrel larvae during ontogeny. Indian Journal of Geo-Marine Sciences. Vol. 44(7), pp. 984-992.
81. Al-Sadoon M. K., Paray B. A. (2016). Ecological aspects of the horned viper, *Cerastes cerastes gasperettii* in the central region of Saudi Arabia. Saudi Journal of Biological Sciences Vol.23, 135–138.
82. Paray B. A., Al-sadoon M. K. (2016). Utilization of Organic Manure for Culture of Cladocerans, *Daphnia carinata*, *Ceriodaphnia carnuta* and Copepod, *Thermocyclops decipiens* under laboratory conditions. Indian Journal of Geo-Marine Sciences. Vol. 45(3), pp. 399-404.

83. Al-Sadoon M. K., Diab M. M., Bauomy A. A., Abdel Moneim A E. and Paray B. A. (2016). The possible effects of melatonin in *Cerastes cerastes gasperettii* venom-mediated toxicity and oxidative damage in mice. *CURRENT SCIENCE*, VOL. 110, NO. 8, 25., 1505-1512.
84. Al-Sadoon M. K., Kandeal S. A., Al-Swilum A., Al-Otaibi H. S. (2016). Determination of body temperature in the horned viper (*cerastes cerastes gasperettii*) as affected by field or laboratory ambient temperature. *ЗООЛОГИЧЕСКИЙ ЖУРНАЛ*, том 95, № 5, с. 579–583.
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