

# CURRICULUM VITÆ



## Prof. Dr. Ibrahim bin Abdul Wahid Arif

- Member of the Board of Directors of the National Center for Wildlife Development.
- Member of the Board of Directors of the Center of Excellence in Biotechnology Research.
- Chairman of the Board of Directors of the Saudi Biological Society.
- Supervisor of Prince Sultan Research Chair for Environment and Wildlife.
- Member of the National Committee for Biodiversity.
- Professor of Microbial Ecology- Department of Botany and Microbiology - College of Science - King Saud University.

### PERSONAL INFORMATION

- **Place of birth:** Riyadh, Saudi Arabia.
- **Nationality:** Saudi.
- **Present employer:** Department of Botany and Microbiology - College of Science - King Saud University - Riyadh.
- **Academic degree:** Ph.D.
- **Position:** Professor.
- **General Specialization:** Biology.
- **Miro -Specialization:** Ecology, physiology and biodiversity.
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#### **ACADEMIC QUALIFICATION**

- Bachelor's degree (With Honor) - Faculty of Science - University of Riyadh - Kingdom of Saudi Arabia (1395 A.H.)
- Master Degree - College of Science - Colorado State University - Fort Collins - Colorado - USA (1400 A.H.)
- Doctorate degree - Faculty of Science - Utah State University - Utah - USA (1403 A.H.)

#### **EMPLOYMENT HISTORY**

- Professor: Department of Botany and Microbiology - College of Science - King Saud University (1420 AH - to date).
- Associate Professor: Department of Botany and Microbiology - College of Science - King Saud University (1412 AH - 1420 A.H.).
- Assistant Professor: Department of Botany and Microbiology - College of Science - King Saud University (1403 AH - 1412 A.H.)
- Demonstrator: Department of Botany and Microbiology - College of Sciences - King Saud University (1395 AH - 1396 A.H.)

#### **SCIENTIFIC ACHIEVEMENTS**

- Two patents Registered in the United States of America in the field of genetic changes studies (2010-2011).
- Distinguished Researcher Award (category of research chairs) at King Saud University for the year 2011.
- 174 New genetic sequences recorded in the International Gene bank.

- 104 Scientific papers published in internationally ranked journals.
- Authored 19 scientific books, 8 in Arabic language and co-author of 9 English books and translation of two English books into Arabic language.
- Supervised 14 Ph.D. students and 10 Master degree students.
- Certificate of Appreciation for publishing in Top 10% journals (2024), Deanship of Scientific Research, King Saud University.

### **MANAGEMENT EXPERIENCES**

- Development of the Saudi Biological Society and the Society's Scientific Journal (Saudi Journal of Life Sciences) which has become internationally classified as (ISI) and within the first quarter Journals (Q1) with an impact factor of 3.138 (1417A.H Until now).
- Establishment of Biomed Silico Company, a joint project between Prince Sultan Research Chair for the Environment and Wildlife and the Intellectual Property & Technology licensing Program at King Saud University. Its aim is to produce and develop simple and easy use software tools for specific applications in biomedical field (1430-1435 A.H).
- Establishing and developing the systems of the Department of International Cooperation and Scientific Societies at King Saud University and (1426-1430 A.H.).
- Participation in the team formed to draw up the basic regulations for the university research chairs program (1427-1430 A.H.)

### **COMMUNITY SERVICE**

- Participation as an expert in the workshop entitled (The culture of preserving the environment) organized by King Abdul-Aziz Center for

**National Dialogue in cooperation with the Family Affairs Council (29/8/1439 AH).**

- **Participating in the meetings of the National Committee for Biodiversity to develop the National Biodiversity Strategy organized by the Saudi Wildlife Authority (1436 A.H - until now).**
- **Contribute to the development of regulations and systems for the program of exhibitions and conferences supervised by the General Authority of Tourism and National Heritage (1436-1439 A.H.)**
- **Providing scientific advices and participating in conferences, seminars and events organized by the national program “Our environment is our life” - General Authority of Meteorology and Environmental Protection «1436 A.H -1439 A.H.**
- **Participating in the workshops held by the Ministry of Environment, Water and Agriculture to develop strategic plans for the environment and forests, and talking in the media about the importance of environmental awareness in society and about human and the environment in the Kingdom of Saudi Arabia (1437-1439 A.H.).**
- **Participation in the coordinating supervisory team of the Saudi-Tanzanian Youth Dialogue (Initiative of Custodian of the Two Holy Mosques for Dialogue between Religions and Different Civilizations (Ministry of Foreign Affairs 17-27/3/ 1435 A.H).**
- **Establishing and implementing the scientific Centers project in the Ministry of Education, supervised by Tatweer company for Educational Services (1433-1434 AH).**
- **Participating in establishing the Global Environmental Globe Program and preparing and implementing training courses for teaches participating in the project - Ministry of Education (1424-1433 A.H.).**

- Representing the Ministry of Higher Education in the joint Saudi committees (Italian, Irish, Ukrainian, Turkish and Yemeni) Committees of Experts and the Gulf Cooperation Council meetings.
- Participation in the evaluation and scientific review of designing the intellectual content of King Salman's Science Oasis (1424 A.H.).

### **COMMITTEES PARTICIPATION**

#### **At the ministry level**

- Participation in the coordinating supervisory team of the Saudi-Tanzanian Youth Dialogue (Initiative of Custodian of the Two Holy Mosques for Dialogue between Religions and Different Civilizations (Ministry of Foreign Affairs 17-27/3/ 1435 A.H).
- Representative of the Ministry of Education in the third Gulf Forum and the International Exhibition for Environment and Sustainable Development entitled "Green Economy - Social Responsibility".
- Representing the Ministry of Higher Education in the joint Saudi committees (Italian, Irish, Ukrainian, Turkish and Yemeni) Committees of Experts and the Gulf Cooperation Council meetings.

#### **At the University level**

- Member of the permanent Committee for the Scientific Societies (1438 A.H - until now).
- Chairman of the Professional Competition Committee for Typing and Secretarial Jobs (1425-1433 A.H)
- Member of the Higher Administrative Promotions Committee (Ranks 10-14) (1424-1425 A.H.).
- Member of the permanent Committee for University and Society Week (1419-1423 A.H.).
- Member of the Technical Jobs Competition Committee for the years (1414A.H, 1418A.H, 1419A.H).

- Member of the Technical Jobs Competition Committee (ranks 3-8) (1410 A.H.).
- Member of the Study Schedules Committee (1412-1413 A.H.)

#### **At the College level**

- Member of the Supreme Committee (1441 A.H till now).
- Rapporteur of the committee for establishing the Applied Microbiology Program.
- Supervisor of Alumni Unit (1436-1440 A.H).
- Member of the Plans and Programs Committee.
- Department representative in the Strategic Plan Committee (1432 A.H till now).
- Member of the Organizational Structure Preparation Committee (1418-1423 A.H).
- Member of the Student Affairs and Disciplinary Committee (1413-1419 A.H).
- Member of the committee formed with the Arab Center for Security Studies and Training (1411-1419 A.H).
- Member of the Study Plans and Academic System Committee (1408-1419 A.H).
- Member of the Training Committee (1408-1410 A.H).
- Member of the Academic Advisory Committee (1404-1405 A.H).

#### **At the Department level**

- Rapporteur of Friends of the Environment Club (1441 A.H till now).
- Member of the advisory committee (1439 A.H till now).
- Member of the Supreme Committee (1439 A.H till now).
- Supervisor of the Educational and Academic Affairs Unit (1439 A.H till now).

- **Rapporteur of the Plans and Learning Resources Committee (1432 A.H till now).**
- **Rapporteur of the Promotion Committee (1439 A.H till now).**
- **Rapporteur of the Graduate Studies Committee (1432-1438 A.H).**
- **Rapporteur of the of Hiring and attracting faculty members Committee (1432-1438 A.H).**
- **Rapporteur of the Course Equivalency Committee (1408-1412 A.H).**
- **Rapporteur of the Academic Schedule Committee (1412-1423 A.H).**
- **Rapporteur of the Study Plans Committee (1412-1423 A.H).**
- **Rapporteur of Microbiology Unit (1409 -1410 A.H).**
- **Rapporteur of the Course Equivalency Committee (1412-1423 A.H).**
- **Member of the Academic Schedule Committee (1408-1412 A.H).**
- **Member of the Study Plans Committee (1408-1412 A.H).**
- **Member of the Study Plans Committee (1407-1412 A.H).**
- **Member of the Graduate Studies Committee (1407-1418 A.H).**

#### **Participation in other councils**

- **Chairman of the Board of Directors of the Saudi Biological Society (1417 A.H till now).**
- **Member of Botany and Microbiology Department Board (1403 A.H till now).**
- **Chairman of Botany and Microbiology Department (1416-1419 A.H).**
- **Secretary of Botany and Microbiology Department Board (1411-1412 A.H).**

#### **OTHER ADMINISTRATIVE AND SCIENTIFIC EXPERIENCES**

- **General Supervisor of the Media Journal of the Saudi Biological Society (The World of Life) 1417 AH - until right Now .**

- Assistant of Regional Editor (JFAE) of the Scientific Journal of the International Society for Food, Agriculture and Environment (ISFAE) (2006-2010)
- Collaborating expert with the Arab Organization for Agricultural Development (1425 A.H).
- Preparing and implementing training courses for teaches participating in Global Environmental Globe Program - Ministry of Education (1431-1433 A.H.).
- **Assistant Chairman of the Intellectual Competition Committee for the Prize of His Royal Highness Prince Sultan bin Abdul-Aziz for serving the environment (1423 A.H.).**
- **Research arbitration for the scientific journal of the Arab Education Office for the Arab Gulf States and King Saud University Journal (Science).**
- **Collaborator with the Saudi Wildlife Authority.**
- **Collaborator with the High Authority for the Development of Fifa District.**
- **President of the Saudi Student Club in Logan - USA (1400 – 1403 A.H).**

#### **OTHER ACTIVITIES**

- **Member of the Disabled Children Association in Riyadh (1426 A.H - until now).**
- **Writing articles about the environment in Saudi newspapers, Tourism and Environment magazine, Environment Ashbal magazine, Al-Yamamah magazine, and Science and Technology magazine.**
- **Giving lectures about the importance of environmental awareness in society and about Human and the environment in the Kingdom of Saudi**

**Arabia within the activities of the University of Hail accompanied by Hail International Rally.**

- **Participant in the research of (College of Science in forty years) on the Centennial occasion of the Kingdom of Saudi Arabia.**
- **Participating in awareness programs about the environment through radio and television.**

#### **CONFERENCES, SYMPOSIA, WORKSHOPS ATTENDED**

- **Ninth Session of Riyadh Economic Forum, "The Natural Resources Axis: Environmental Problems and their Impact on Development (Riyadh 1441/1442 A.H).**
- **Working paper (Remotely via Zoom application) entitled: Humans and the environment in the Kingdom of Saudi Arabia on the occasion of the World Environment Day in the first communicational forum "The time has come for nature" (10/13/1441 A.H).**
- **Chairman of the exhibition committee and member of the recommendations and the conclusion of the conference committee at (The First International Conference on Mountainous Semi-Arid Environments "Environment and Sustainable Development in Asir Region" Abha Palace Hotel in Asir Region (17-20 /1/1441 A.H.).**
- **Chairman of the Scientific Committee and Chairman of the Second Session: "Workshops" in the Sixth Forum of Scientific Societies "Scientific Societies and Their Contributions to National Development") - Riyadh 12-13 / 8/1440 AH.**
- **The main speaker in the third session (the first axis): "Scouting and spreading environmental awareness" in the (International Conference "Scouting and Environmental Protection") - Riyadh 7-8/6/1440 A.H.**

- **Chairman and the main speaker at the workshop of (The Interdisciplinary Program for Applied Microbiology: Future Prospects and Career Opportunities) - Riyadh 5/29/1440 A.H.**
- **Chairman of the Scientific Committee and a main speaker in the first session: “Planning and Investment Strategy in Scientific Societies” in -The Fifth Forum for Scientific Societies “Scientific Societies and the Private Sector: Community Partnership”) - Riyadh 18-19/7/1439 A.H.**
- **A working paper entitled: “Humans and the Environment in the Kingdom” at (The First Industrial Environment Forum and Exhibition in the Eastern Region “Towards a Clean Industrial Environment” - My Environment 1)) – Al-Khobar 4-6/6/1439 A.H.**
- **Chairman of the Scientific Committee for the first meeting of the deans of the colleges of science in Saudi universities. Hosted by the College of Science at King Saud University - Riyadh 18-22/5/1439 A.H.**
- **A Lecture entitled: “Environmental Awareness of Society” in the (World Environment Day under the slogan: I’am with Nature)) - Riyadh 9/10/1438 A.H.**
- **A working paper entitled: “The Experience of the Saudi Biological Society in Environmental Voluntary Work” at (The first forum for voluntary associations and bodies in the environment under the slogan: Partners for the Environment of the Nation) - Jeddah 19-20/8/1438 A.H.**
- **A working paper entitled: "Environmental Awareness in the Community" at the (Riyadh Environmental Camp entitled: My Environment My Responsibility) - Rawdat Al-Khafs in Herimla City 9-13/7/1438 A.H.**
- **The main speaker in the first session: “Scientific Societies and Vision 2030” at (The Fourth Forum of Scientific Societies entitled: Scientific**

**Societies and their Role in Community Services to achieve the Kingdon Vision 2030)) - Riyadh 18-19/5/1438 A.H.**

- **Working paper entitled: "Environmental awareness for protecting wildlife" at the (World Environment Day Forum in Jubail) - Jubail 6/5/2016.**
- **participating in the (Middle East Association Congress) - Abu Dhabi 5-6/4/2016 AD.**
- **A working paper entitled: "The Experience of the Saudi Biological Society in Managing Societies Meetings" in (The Third Saudi Forum for Conferences and Exhibitions) - Dammam 26-28/1/1437 A.H.**
- **A working paper entitled: "The Contribution of the research Chairs in Scientific Research and Addressing Community Issues" in (The Third Forum for Research Chairs in the Kingdom at King Saud University) - Riyadh 13-14/7/1435 AH.**
- **Head of the Kingdom's delegation at the workshop entitled: (Scientific Research Strategy in Arab Countries) - Cairo (1431 A.H).**
- **A representative of the Ministry of Education to give a lecture entitled: "Environmental Awareness in the Society" at the (International Third Gulf Forum and Exhibition for Environment and Sustainable Development - entitled: Green Economy and Social Responsibility) - Jeddah (2012).**
- **A lecture entitled: "The Contributions of Prince Sultan - may God have mercy on him - in the environmental field" at (The National Conference of the Saudi Agricultural Sciences Society entitled: The Contributions of Prince Sultan bin Abdulaziz - may God have mercy on him - in the field of environment) - Riyadh (2012).**

- Giving a lecture entitled: “Humans and the Environment in the Kingdom of Saudi Arabia” at the (International Arab Forum for Women) - American University of Sharjah (2012).
- A workshop organized by the Ministry of Interior entitled: (Fighting Nuclear Terrorism) - Riyadh (1432 A.H).
- The twenty-third session of the General Assembly of the Intergovernmental Oceanographic Commission, and the thirty-eighth session of the Executive Council - Paris (1426 A.H).
- A Research entitled: "Evolution of plant studies in the Kingdom of Saudi Arabia" at the (International Conference on the Evolution of Biology) - Cairo University - Egypt (1424 A.H).
- Annual seminars and meetings of the Saudi Biological Society held in the Kingdom of Saudi Arabia (1404 A.H - 1442 A.H).
- The First Arabian Gulf Conference on Biotechnology and Applied Microbiology - Riyadh (1405 A.H).
- American Algae Society Conference – Oklahoma City - USA (1399 A.H).

### **SCIENTIFIC PRODUCTION**

#### **Authorship and translation:**

- A. Y. Basahi, I. A. Arif. (Practical flowering plants). Al-Khraiiji Publishing and Distribution House, Riyadh. (1419 A.H).
- A. A. Al-Humaidan, I. A. Arif. Phytoplankton (translation). Deanship of Library Affairs, King Saud University, Riyadh. (1419 A.H).
- I. A. Arif, A. S. Al-Khalil The practical basis of the microbial environment. Al-Khraiiji Publishing and Distribution House, Riyadh. (1420 A.H).
- I. A. Arif, A. S. Al-Khalil, M. H. Al-Wihaibi, R. M. Al-Sum, K. O. Zayed. Practical Plant Biology, Deanship of Library Affairs, King Saud University, Riyadh. (1425 AH).

- **I. A. Arif**. Sultan bin Abdulaziz the man of the environment and wildlife. King Saud University, Riyadh. (1429 A.H).
- A. S. Al-Khalil, **I. A. Arif**, M. A. Hussain,. Introduction to Microbiology (translation), King Saud University, Riyadh. (1430 A.H)
- M. A. Hussain, **I. A. Arif**, A. S. Al-Khalil, R. M. Al-Sum. Microbiology (Part1, Part2). King Saud University, Riyadh. (1431 A.H)
- **I. A. Arif**, S. M. Al-Sagheer. Humans and the environment in the Kingdom of Saudi Arabia. Prince Sultan Research Chair for Environment and Wildlife - King Saud University, Riyadh. (1431 AH)
- **Ibrahim A. Arif**, Haseeb A. Khan, Ali A. Al Homaidan, Ahmad H. Al Farhan, Ali H. Bahkali, Mohammad Shobrak and Mohammad Al Sadoon. Usefulness of noninvasive methods of DNA sampling but with a caution. In: Animal Science and Issues, Jose R. Gomes (Eds.). Nova Science Publishers, Inc., pp. 151-156 (2011).
- **Ibrahim A. Arif**, Haseeb A. Khan, Ali H. Bahkali, Ali A. Al Homaidan, Ahmad H. Al Farhan, Mohammad Shobrak and Mohammad Al Sadoon. Comparison of Neighbor-joining and maximum-parsimony methods for molecular phylogeny of oryx species using 12S rRNA and 16S rRNA gene sequences. In: Animal Science and Issues, Jose R. Gomes (Eds.). Nova Science Publishers, Inc., pp. 117-126 (2011).
- Haseeb Ahmad Khan and **Ibrahim Abdulwahid Arif**. Toxic Effects of Nanomaterials. Bentham Science Publishers, (2012).
- **Ibrahim Abdulwahid Arif**, Haseeb Ahmad Khan, Salman Al Rokayan, Abdullah Saleh Alhomida, Mohammad Abdul Bakir and Fatima Khanam. Toxicologic and environmental issues related to nanotechnology development. In: Toxic Effects of Nanomaterials, Haseeb A. Khan and Ibrahim A. Arif (Eds.). Bentham Science Publishers, pp. 137-147 (2012).
- **Ibrahim Abdulwahid Arif**, Mohammad Abdul Bakir and Haseeb Ahmad Khan. Microbial remediation of pesticides. In: Pesticides: Evaluation of Environmental

Pollution, Hamir S. Rathore and Leo M.L. Nollet (Eds.). CRC Press, Taylor & Francis group, pp. 131-144 (2012).

- **Ibrahim bin Abdul Wahid Arif**. The contributions of His Royal Highness Prince Sultan bin Abdulaziz - may God have mercy on him - in the field of environment. Saudi Society for Agricultural Sciences (2012).
- Ahmed M. Shuikan, Wael N. Hozzein, Rakan M. Alshuwaykan and **Ibrahim A. Arif** \_ Metabolomics and Genetic Engineering for Secondary Metabolites Discovery\_ Submitted: 22 November 2021 Reviewed: 24 January 2022 Published: 31 March 2022 \_DOI: 10.5772/intechopen.102838
- Ahmed M. Shuikan, Rakan M. Alshuwaykan and **Ibrahim A. Arif** \_The Role of Metagenomic Approaches in the Analysis of Microbial Community in Extreme Environment\_ Reviewed: 14 September 2022 Published: 10 February 2023 DOI: 10.5772/intechopen.108050.
- Rahmatullah Qureshi, **Ibrahim A. Arif**, Turki Khalufa Al-Faraj Asiri, AbdImalek A. Alsheikh, and Mirza B. Baig\_Role of Plants in Restoring Degraded Ecosystems to Improve Biodiversity in Alula Region—Saudi Arabia\_Chapter First Online: 27 September 2024 pp 205–227.

### **Scientific Articles:**

1. P. Kugrens, **I. A. Arif**. Light and electron microscopic studies of the fusion cell in *Asterocolax gardneri* Setch. (Rhodophyta, Ceramiales). Journal of Phycology, 17(3): 215-223 (1981).
2. B. A. Whitton, T. M. Khoja, **I. A. Arif**. Water Chemistry and algal vegetation of streams in the Asir Mountains, Saudi Arabia. Hydrobiologia, 133(2): 97-106 (1986).
3. **I. A. Arif**. Algal distributions in a Hot Spring of Saudi Arabia. Arab Gulf Journal of Scientific Research B-Agricultural and Biological Sciences, 7(2): 145-154 (1989).
4. R. M. Alsum, **I. A. Arif**, M. A. Ghanam and M. I. Hussain. Lipid diversity as a factor in thermal tolerance of prokaryotes. Phyton-International Journal of Experimental Botany, 50 (1/2): 5-11 (1989).

5. **I. A. Arif**. Epizoic Algal communities of Al-Hassa, Saudi Arabia. Arab Gulf Journal of Scientific Research, 9(1): 87-98 (1991).
6. **I. A. Arif**. Algae from the Saline Soil of Al-Shiggah in Al-Qaseem, Saudi Arabia. Journal of Arid Environments, 22(4): 333-338 (1992).
7. **I. A. Arif**. Composition of blue-green algal mats and water chemistry of the Bani Malik hot spring (Gizan Province), Saudi Arabia. Kuwait Journal of Science & Engineering, 24 (1): 109-122 (1997).
8. **I. A. Arif** and A. M. A. El-Syed. Edaphic properties and soil cyanobacteria of South Western Saudi Arabia. Qatar University Science Journal, 17(2): 281-291 (1997).
9. **I. A. Arif**, M. E. Hussein. Effect of antibiotics on Cyanobacteria and Chlorophyceae species possessing antimicrobial potentialities. Al-Azhar journal of microbiology, 35: 42-52 (1997).
10. S. A. Al Rashed, **I. A. Arif**. Effect of crude oil extract and hydrocarbons on *Dunaliella salina* isolated from the Arabian Gulf. Geobios (Jodhpur), 25: 3-9 (1998).
11. **I. A. Arif**, A. R. Hashem. Soil analysis and mycoflora of Jizan City, Saudi Arabia. Phyton-International Journal of Experimental Botany, 62(1/2): 109-113 (1998).
12. **I. A. Arif**, A. M. A. El-Syed. Effect of lead on two isolates of *Chlorogloeopsis fritschii* isolated from the soil of Saudi Arabia. Geobios (Jodhpur), 25(2-3): 82-86 (1998).
13. **I. A. Arif**. The effect of heavy metals on growth, chlorophyll, DNA and protein contents of *Chlorella vulgaris* BEIJ. Al-Azhar journal of microbiology, 39: 1-11 (1998).
14. **I. A. Arif**. Effect of ampicillin and tetracycline on DNA proteins and chlorophyll contents of *Chlorella vulgaris* (Beijeinck). Egy. J. Appl. Sci., 13(7): 32-40 (1998).
15. A. A. Al-Homaidan, **I. A. Arif**. Ecology and bloom-forming algae of a semi-permanent rain-fed pool at Al-Kharj, Saudi Arabia. Journal of Arid Environments, 38(1): 15-25 (1998).
16. **I. A. Arif**. Microflora of petroleum contaminated soils in Riyadh, Saudi Arabia. Philippine Journal of Science, 128(2): 151-160 (1999).
17. **I. A. Arif**. Fresh-water fungi of Saudi Arabia. Pakistan Journal of Biological Sciences, 2(3): 763-766 (1999).
18. Shehata Afaf. I., F. F. Al-Aqeel, **I. A. Arif**. The Adaptive Response of Wild and Mutant Type of *Anabaena Flos – Aquae* to The Polychrinated Pesticide Endosulfan. Saudi Journal of Biological Sciences, 7(2): 199-210 (2000).
19. Shehata Afaf. I., F. F. Al-Aqeel, **I. A. Arif**. Isolation and Characterization of DNA and Protein from Endosulfan Resistant Mutant (Endor) of the

- Cyanobacterium *Anabaena flos-aquae*. Saudi Journal of Biological Sciences, 8(1): 61-69 (2001).
20. Shehata Afaf. I., H.K. Abd Elatife, **I. A. Arif**. PCR Amplification of Rapidly Extracted DNA from Different Pathogenic Yeasts. Saudi Journal of Biological Sciences, 11(2): 189-197 (2004).
  21. A. A. Al-Homaidan., M. S. Al Husainy., A. I. Shehata, and **I. A. Arif**. Effect of Temperature, pH and Salinity on the Growth and Protein Content of two Species of *Spirulina* Isolated from Saudi Arabia. Saudi Journal of Biological Sciences, 12(1): 1-13 (2005).
  22. Shehata, A.I., Al-Ghethar, H., Al-homaidan, A.A., **Arif, I.A.** Comparative cytotoxicity of the herbicide artazine to four inbred maize lines (*Zea mays* L.). Saudi Journal of Biological Sciences, 15(1): 9-23 (2008).
  23. Khan HA, **Arif IA**, Al Farhan AH, Al Homaidan AA. Phylogenetic analysis of oryx species using partial sequences of mitochondrial rRNA genes. Genetics and Molecular Research, 7(4): 1150-1155 (2008).
  24. Khan HA, **Arif IA**, Bahkali AH, Al Farhan AH, Al Homaidan AA. Bayesian, maximum parsimony and UPGMA models for inferring the phylogenies of antelopes using mitochondrial markers. Evolutionary Bioinformatics, 4: 263-270 (2008).
  25. Khan HA, **Arif IA**, Al Homaidan AA, Al Farhan AH. Application of 16S rRNA, cytochrome *b* and control region sequences for understanding the phylogenetic relationships in *Oryx* species. Genetics and Molecular Research, 7(4): 1392-1397 (2008).
  26. Al Kadasah S, Al Mutaury A, Siddiquei M, Khan HA, **Arif IA**, Al Moutaery K, Tariq M. Pentoxifylline attenuates iminodipropionitrile-induced behavioral abnormalities in rats. Behavioral Pharmacology, 20(4): 356-360 (2009).
  27. Khan HA, Alhomida AS, **Arif IA**. Neurovestibular toxicities of acrylonitrile and iminodipropionitrile in rats: a comparative evaluation of putative mechanisms and target sites. Toxicological Sciences, 109(1): 124-131 (2009).
  28. Khan HA, Alhomida AS, **Arif IA**. On the mechanism of nitriles toxicity. Toxicological Sciences, 110(1): 246-248 (2009).
  29. **Arif IA**, Khan HA. Molecular markers for biodiversity analysis of wildlife animals: A brief review. Animal Biodiversity and Conservation, 32(1): 9-17 (2009).
  30. **Arif IA**, Bakir MA, Khan HA, Al Farhan AH, Al Homaidan AA, Bahkali AH, Al Sadoon M, Shobrak M. A brief review of molecular techniques to assess plant diversity. International Journal of Molecular Sciences, 11(5): 2079-2096 (2010).

31. **Arif IA**, Bakir MA, Khan HA, Al Farhan AH, Al Homaidan AA, Bahkali AH, Al Sadoon M, Shobrak M. Application of RAPD for molecular characterization of plant species of medicinal value from an arid environment. *Genetics and Molecular Research*, 9(4): 2191-2198 (2010).
32. **Arif IA**, Bakir MA, Khan HA, Ahamed A, Al Farhan AH, Al Homaidan AA, Al Sadoon M, Bahkali AH, Shobrak M. A simple method for DNA extraction from mature leaves of date palm: impact of sand grinding and composition of lysis buffer. *International Journal of Molecular Sciences*, 11(9): 3149-3157 (2010).
33. **Arif IA**, Khan HA, Shobrak M, Al Homaidan AA, Al Sadoon M, Al Farhan AH, Bahkali AH. Interpretation of electrophoretograms for seven microsatellites loci to determine the genetic diversity of Arabian Oryx. *Genetics and Molecular Research*, 9(1): 259-265 (2010).
34. Khan HA, **Arif IA**, Shobrak M. DNA barcodes of Arabian partridge and Philby's rock partridge: Implications for phylogeny and species identification. *Evolutionary Bioinformatics*, 6: 151-158 (2010).
35. **Arif IA**, Khan HA. Environmental toxins and Parkinson's disease: putative roles of impaired electron transport chain and oxidative stress. *Toxicology and Industrial Health*, 26(2): 121-128 (2010).
36. Al Madani WA, Siddiqi NJ, Alhomida AS, Khan HA, **Arif IA**, Kishore U. Increased urinary excretion of carnitine and acylcarnitine by mercuric chloride is reversed by 2,3-dimercapto-1-propanesulfonic acid in rats. *International Journal of Toxicology*, 29(3): 313-317 (2010).
37. **Arif IA**, Khan HA, Shobrak M, Al Homaidan AA, Al Sadoon M, Al Farhan AH. Measuring the genetic diversity of Arabian Oryx using microsatellite markers: implication for captive breeding. *Genes & Genetic Systems*, 85(2): 141-145 (2010).
38. **Arif IA**, Khan HA, Al Homaidan AA, Ahamed A. Determination of Cu, Mn, Hg, Pb and Zn in the outer tissue washings, outer tissues and inner tissues of different vegetables using ICP-OES. *Polish Journal of Environmental Studies*, 20(4): 835-841 (2011).
39. Khan HA, **Arif IA**, Shobrak M, Al Homaidan AA, Al Farhan AH, Al Sadoon M. Application of mitochondrial genes sequences for measuring the genetic diversity of Arabian oryx. *Genes and Genetic Systems*, 86(1): 67-72 (2011).
40. **Arif IA**, Khan HA, Bahkali AH, Al Homaidan AA, Al Farhan AH, Al Sadoon M, Shobrak M. DNA marker technology for wildlife conservation. *Saudi Journal of Biological Sciences*, 18(3), 219-225 (2011).
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### **New gene sequences registered in the International Gene bank:**

**174 new gene sequences have been registered in the International Gene bank as follows:**

- Arabian Oryx mtDNA 12S rRNA gene sequences: 24 (**Accession Nos. FJ914291-FJ914314**).
- Arabian Oryx mtDNA 16S rRNA gene sequences: 24 (**Accession Nos. FJ914267-FJ914290**).
- Arabian Oryx mtDNA cytochrome b gene sequences: 24 (**Accession Nos. FJ937660-FJ937683**).
- Arabian Oryx mtDNA control region gene sequences: 24 (**Accession Nos. FJ797434, FJ821297-FJ821313, FJ860220-FJ860225**).
- Arabian partridge; COI sequences: 3 (**Accession Nos. HQ168027-HQ168029**).
- Philby's rock partridge; COI sequences: 2 (**Accession Nos. HQ168030-HQ168031**).
- Asian houbara bustard; COI sequences: 4 (**Accession Nos. HQ168032-HQ168035**).
- Spotted crane; COI sequence: 1 (**Accession No. HQ168036**).
- Palm dove; COI sequences: 3 (**Accession Nos. HQ168037-HQ168039**).
- Collared dove; COI sequences: 2 (**Accession Nos. HQ168040-HQ168041**).
- Namaqua dove; COI sequences: 3 (**Accession Nos. HQ168042-HQ168044**).
- White cheeked bulbul; COI sequences: 5 (**Accession Nos. HQ168045-HQ168049**).
- Black scrub robin; COI sequences: 4 (**Accession Nos. HQ168050-HQ168053**).
- House sparrow; COI sequences: 4 (**Accession Nos. HQ168054-HQ168057**).
- Spanish sparrow; COI sequence: 1 (**Accession No. HQ168058**).
- Isabelline shrike; COI sequence: 1 (**Accession No. HQ168059**).
- Crested lark; COI sequences: 2 (**Accession Nos. HQ168060-HQ168061**).
- Spotted flycatcher; COI sequence: 1 (**Accession No. HQ168062**).
- Green bee-eater; COI sequences: 4 (**Accession Nos. HQ168063-HQ168066**).
- Lappet-faced vulture; COI sequences: 2 (**Accession Nos. HQ168067-HQ168068**).
- *Rhazya stricta*; rbcL gene sequence 1 (**Accession No. JN375994**).
- *Lycium shawii*; rbcL gene sequence 1 (**Accession No. JN375995**).
- *Moricandia sinaica*; rbcL gene sequence 1 (**Accession No. JN375996**).
- *Bassia eriophora*; rbcL gene sequence 1 (**Accession No. JN375997**).
- *Withania somnifera*; rbcL gene sequence 1 (**Accession No. JN375998**).
- *Chenopodium murale*; rbcL gene sequence 1 (**Accession No. JN375999**).
- *Salsola imbricata*; rbcL gene sequence 1 (**Accession No. JN376000**).
- *Scorzonera intricate*; rbcL gene sequence 1 (**Accession No. JN376001**).
- *Panicum antidotale*; rbcL gene sequence 1 (**Accession No. JN376002**).
- *Erodium laciniatum*; rbcL gene sequence 1 (**Accession No. JN376003**).
- *Erodium glaucophyllum*; rbcL gene sequence 1 (**Accession No. JN376004**).
- *Melilotus indicus*; rbcL gene sequence 1 (**Accession No. JN376005**).

- *Mimusops laurifolia*; rbcL gene sequence 2 (**Accession No. JQ304270-JQ304271**).
- *Coptosperma graveolens*; rbcL gene sequence 1 (**Accession No. JQ665721**).
- *Microcystis aeruginosa* KSU-WH-1; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807476**).
- *Synechocystis* sp. KSU-WH-2; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807477**).
- *Cyanobacterium aponinum* KSU-WH-5; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807478**).
- *Synechococcus* sp. Arif-30-6-1373; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807479**).
- *Stanieria cyanosphaera* PSRCEW\_WH-7; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KR758749**).
- *Gloeocapsa* sp. KSU-WH-8; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807480**).
- *Chlorogloeopsis fritschii* KSU-WH-10; 16S ribosomal RNA gene, partial sequence 1 (**Accession No. KT807481**).

### **Funded research projects**

- A project for Prince Sultan Research Chair for Environment and Wildlife funded by The National Plan for Science, Technology and Innovation: Characteristics of plasma membranes for fibroblast in desert birds - (BIO-1116-02-10) - One million five hundred eighty-three thousand and two hundred riyals (1,583,200).
- Research Group No. (RGP-VPP RG-1435-042) – Funded by (One hundred and fifty thousand riyals) (150,000).
- financial Support provided by the Deanship of Scientific Research (Research Chair Program) at King Saud University to carry out Prince Sultan Research Chair for Environment and Wildlife - (1435 A.H) - One hundred thousand riyals (100,000).

■ financial Support provided by the Deanship of Scientific Research (Research Chair Program) at King Saud University to carry out Prince Sultan Research Chair for Environment and Wildlife - (1436 A.H) - One hundred thousand riyals (100,000).

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