

Saud A. A. Alarifi

Nationality: Saudi

Academic Position: Professor of Cell and Molecular Biology.

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Academic Degrees: B. Sc.:

King Saud University

College: Science

Department: Zoology University Location: Riyadh, Saudi Arabia

Ph. D.:

University of Essex

Department: Biological Science

University Location:

Essex, United Kingdom.

Date of Obtaining Degree: 2000

Title of Ph.D. Dissertation:

Analysis of the Nuclear Localization of Poly (ADP-ribose) polymerase and Poly (ADP-ribose) Using Confocal Laser Scanning Microscopy.

Job summary:

Period	Job held	Department	Employer
2014- present	Full professor	Zoology	King Saud University
2006- 2014	Associate Professor	Zoology	King Saud University
2000- 2006	Assistant Professor	Zoology	King Saud University

Scholarships, Awards and Grants:

- ❖ Awarded second class Honors for Bachelor in Science from King Saud University. Riyadh (1988).
- ❖ Scholarship from Saudi Basic Industries Corporation (SABIC) to investigate the effect of sodium arsenite on the cytotoxicity and genotoxicity and the possible role of the synthetic antioxidant butylated hydroxytoluene. 2004.
- ❖ Scholarship from King Abdulaziz City for Science and Technology to investigate the role of the synthetic antioxidant butylated hydroxytoluene and the demethylating agent 5-azacytidine on the apoptogenic and genotoxic effects of two arsenic compounds. 2005.
- ❖ Scholarship from Center of Excellence in Biotechnology Research to investigate Hepatitis B and C, 2010-2012, (300,00 US\$).
- ❖ Research Grant, The National Plan for Science, Technology and Innovation, Saudi Arabia. Title (The role of Rho family GTPases in Human Cytomegalovirus (HCMV) infection and pathogenesis). 2012-2014, (510,000 US\$).
- ❖ Research Grant, The National Plan for Science, Technology and Innovation, Saudi Arabia. Title (Role of the novel oncogene KDM2B in the epigenetic regulation of the cytoskeleton), 2015-2017, (514,000 US\$).
- ❖ Research Grant, Deanship of Scientific Research. 2011-present (280,000 US\$).

Conferences, workshops and Symposia:

A) Conferences:

1. The 11th International Conference of the Egyptian German Society of Zoology. Egypt 2001.
2. The Second Saudi Science Conference. King Abdulaziz University, Jeddah, Saudi Arabia, 2004.
3. Conference of University-Private sector Partnership in Research Developments, King Saud University, Riyadh, Saudi Arabia.
4. The 8th International Conference in human genome. Taiwan, China, 2006.
5. The First International Conference on Biotechnology, Riyadh, 2009.
6. International conference in Bioinformatics and Biomedical technology, China, 2010 (presented a paper).
7. The 5th International conference in biotechnology, Egypt, 2010 (presented a paper).
8. International Conference on Biology, Environment and Chemistry, Hong Kong, 2010.
9. The Asian Congress on Biotechnology, China, 2011, (presented a paper).
10. The 6th International Conference on Genomics, Shenzhen, 2011 (presented a paper).
11. The European Society of Toxicology in Vitro 2012 International Conference, ESTIV2012 (presented a paper).
12. The XXXIV International Conference on Environmental, Biological and Ecological Sciences, and Engineering, Rio de Janeiro, 2013 (Presented a paper).
13. The XIII International congress of toxicology 2013, Seoul, Korea, (Presented a paper).
14. 49th Congress of the European Societies of Toxicology, Interlaken, Switzerland, 2013 (presented a paper).
15. The Thirteenth Asia-Pacific Bioinformatics Conference, Shanghai, China, 2014 (Presented a paper).
16. International Conference on Biological and Chemical Sciences, Shanghai, China, 2014 (presented a paper).
17. Chemical biology conference, Heidelberg, Germany, 2014, (Presented a paper).
18. The 9th World Congress of the World Society for Pediatric Infectious Diseases, Rio de Janeiro, Brazil, November 18-21, 2015.
19. 2015 International Congress on Chemical, Biological and Environmental Sciences Kyoto, Japan 2015 (Presented a paper).
20. International Conference on Engineering and Applied Sciences, Hokkaido, Japan July 20-22, 2015 (presented a paper).
21. The Society for General Microbiology Annual Conference, Birmingham, UK, 2015 (presented a paper).

B) Workshops:

1. Workshop in Nano Technology and its applications. King Abdulaziz City for Science and Technology, 2006.
2. Workshop in Biotechnology. King Saud University, 2007.
3. Workshop in Nano Research at Universities. King Saud University, 2007.
4. Organizing the first Workshop for Center of Excellence in King Saud University. King Saud University, Riyadh, 2008.
5. Organizing DNA Research Chair Workshop at King Saud University, Riyadh, 2009.
6. Organizing a training course in PCR technology at King Saud University, Riyadh, 2010.
7. Presented a talk at the centre of nanotechnology, King Abdul-Aziz University, 2014.
8. Presented a talk at the centre of nanotechnology, King Abdul-Aziz University, 2015.

C) Symposia:

1. Cell and Molecular Biology Society in Essex U.K. 1998.
2. Cell and Molecular Biology Society in Essex U.K. 1999.
3. Symposium on "Higher Education", Riyadh, Saudi Arabia, 2002.
4. Symposium on "What means to be a university professor", Riyadh, Saudi Arabia, 2008.

5. Organizing a training course in polymer Chain Reaction (PCR), King Saud University, Riyadh, 2010.

Teaching experience:

Since I obtained my Ph.D. I have been involved in teaching the following courses:

	Course title	Course level
1	General zoology	Undergraduate course
2	General Biology for pre-med students	Undergraduate course
3	General cell biology	Undergraduate course
4	Histology	Undergraduate course
5	Cell and Molecular Biology	Graduate course
6	Advanced Cell and Molecular Biology	Graduate course
7	Advanced Molecular Genetics	Graduate course

Administrative duties:

1. Member of the Departmental Laboratory, Technicians and Animal House Committee, from 2001 till now.
2. Member of the Departmental security and safety Committee, from 2004 till now.
3. Member of the Departmental Cell Biology, Genetics and Histology Group, from 2000 till now.
4. Member of the educational and social Committee in the Dep. Of Zoology, since 2000-2005.
5. Member of The Departmental Museums and Scientific Exhibitions Committee for two years, from 2003-2005.
6. Member of the Departmental Central lab. Committee from 2005-2009.
7. Member of the Departmental Celebrating the 50th Anniversary of King Saud University, 2006.
8. Member of the Research Chairs Committee from 2006-2008.
9. Deputy supervisor of the Centre of Excellence Program at King Saud University from 2007-2013.
10. Member of the Zoology Departmental Board since 2000 until now.
11. Secretary of Departmental Board during the Academic year 2000.
12. Member of the Excellence Centre of Science and Mathematics Education 2008-2013.
13. Member of Molecular Biology Program at King Saud University, College of Science since 2011 till now.
14. Member of Biotechnology Program at King Saud University, College of Science since 2011-2014.
15. Head advisory committee of graduate student scientific affairs at Zoology department since 2016 till now.

University and Community Service:

1. Participated in teaching Radiological Diagnosis and Medical Laboratory students. College of Applied Studies, second semester, 2001/2002.
2. Participated in teaching the Biology Course at the Medical College; the course was sponsored by the Ministry of Health, King Fahad Medical Centre, second semester, 2005.
3. Member of the Research Chairs Committee from 2006-2008.
4. Deputy supervisor of the Centre of Excellence Program at King Saud University from 2007-2013.
- 5- Involved in judging many high school projects around the kingdom.
- 6- I am a volunteer in the scientific committee at King Abdul-Aziz and His Companions Foundations For Giftedness and creativity.
- 7- Helped many high school students in their projects to compete nationally and internationally.
- 8- Organizing the first Workshop for Centre of Excellence in King Saud University. King Saud University, Riyadh, 2008.
- 9- Organizing DNA Research Chair Workshop at king Saud University for Public, Riyadh.

- 10- Organizing a training course in PCR technology at King Saud University for university students.
- 11- I am a volunteer in a Saudi cancer society for helping cancer patients.
- 12 Academic advisor of undergraduate students.
13. Academic advisor of graduate students, 10 master students and 5 PhD students.
14. Supervised a number of students' research projects, Zoology Department.
16. Member of the Examination Committee for many M. Sc. and PhD Thesis.

Training services:

In our lab we have different techniques that we trained students on. We have run many training programs as follow:

1. I have trained many master and PhD students on cell culture techniques.
2. I have trained many master and PhD students on gel electrophoresis and Western bolt techniques.
3. I have trained many master and PhD students PCR and RT-PCR techniques.

Some of my Publications

1. R. Lakshmipathy, D. Haridass, G.L. Balaji, Daoud Ali and **Saud Alarifi**. DEVELOPMENT AND VALIDATION OF RP-HPLC-PDA METHOD FOR IDENTIFICATION AND QUANTIFICATION OF MAJOR ACTIVE CONSTITUENT IN *CYNODON DACTYLON* (L.) PERS. Bull. Chem. Soc. Ethiop. 2024, 38(6), 1533-1542.
2. Brijesh Pare, Roshni Joshia, Vijendra Singh Solanki, Neha Agarwal, Daoud Ali, **Saud Alarifi** and Virendra Kumar Yadav. Synthesis and characterisation of visible light-responsive Fe-doped BiOCl NPs and their application for the remediation of textile dye by LED irradiation. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2024, August.
3. Minoti Gupta, Swatantar Kumar, Vinay Dwivedi, Dikshat Gopal Gupta, Daoud Ali, **Saud Alarifi**, Ashish Patel, and Virendra Kumar Yadav. Selective synergistic effects of oxalic acid and salicylic acid in enhancing amino acid levels and alleviating lead stress in Zea mays L. PLANT SIGNALING & BEHAVIOR, 2024, VOL. 19, NO. 1, e2400451 (15 pages).
4. Prashant Pandey, Dilip Kumar Arya, Payal Deepak, Daoud Ali, **Saud Alarifi**, Saurabh Srivastava, Afsaneh Lavasanifar, and Paruvathanahalli Siddalingam Rajinikanth. $\alpha\beta 3$ Integrin and Folate-Targeted pH-Sensitive Liposomes with Dual Ligand Modification for Metastatic Breast Cancer Treatment. Bioengineering, 2024, 11, 800.
5. Qandeel Ishfaq, Adnan Sami, Muhammad Zeshan Haider, Arsalan Ahmad, Muhammad Shafiq, Qurban Ali, Alia Batool, Muhammad Saleem Haider, Daoud Ali, **Saud Alarifi**, Md Samiul Islam and Muhammad Aamir Manzoor. Genome wide identification of the NPR1 gene family in plant defense mechanisms against biotic stress in chili (*Capsicum annuum* L.). Frontiers in Microbiology, 2024, August.
6. Basavaraju Sumanth, Fazilath Uzma, Narasimhamurthy Konappa, Daoud Ali, **Saud Alarifi**, Chowdappa Srinivas, Sudisha Jogaiah. Isolation of antimicrobial ellagic acid from endophytic fungi and their target-specific drug design through computational docking. Biomass Conversion and Biorefinery, 2024, july.
7. Saika Andleeb, Anum Naseer, Iram Liaqat, Muhammad Sirajuddin, Maisari Utami, **Saud Alarifi**, Anis Ahamed, Soon Woong Chang, Balasubramani Ravindran. Assessment of growth, reproduction, and vermi-remediation potentials of *Eisenia fetida* on heavy metal exposure. Environ Geochem Health, 2024, 46:290.
8. T.L. Soundarya, Babu Nirmala, **Saud Alarifi**, G. Nagaraju. Exploring the synergy of $\text{Zn}_3(\text{OH})_2\text{V}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ @Betalains as a promising photoluminescent nanocomposite for sustainable optical and electrochemical applications. Ceramics International, 2024, Volume 50, Issue 19.
9. P. Prapula Thejashwini, R. Chandrika, M. C. Madhusudhan, Shreya M. Joshi, Daoud Ali, **Saud Alarifi**, Sudisha Jogaiah, Nagaraja Geetha. Psidium guajav-mediated zinc oxide nanoparticles as a multifunctional, microbicidal, antioxidant and antiproliferative agent against destructive pathogens. Bioprocess and Biosystems Engineering, 2024, 47:1571–1584.
10. Temitope D. Melefa, Funmilayo F. Hinmikaiye, Felix A. Andong, Daniel E. Echude, Daoud Ali, **Saud Alarifi**, Priscilla Nkeonye Abara and Christopher. D. Nwani. Biomorphometric and hematobiochemical alterations in the juvenile african catfish *Clarias gariepinus* exposed to propranolol. BMC Zoology, 2024, 9:11.
11. Ashok Kumar Koshariya, Sujit Kumar, Megha Kulkarni, P. Madhu, P. Suresh Kumar, Vinh Dinh Nguyen, **Saud Alarifi**, Anis Ahamed, Soon Woong Chang, Balasubramani Ravindran. Effect of Acidic Treatment for Conventional Processing and Recent Advances on Lignocellulosic *Ricinus Communis*: A Comparative Evaluation on Decomposition of Biomass for Environmental Sustainability. Waste and Biomass Valorization, 2024, june.
12. Shubham Kanaujiya, Dilip Kumar Arya, Prashant Pandey, Sneha Singh, Giriraj Pandey, Shabnam Anjum, Md Meraj Anjum, Daoud Ali, **Saud Alarifi**, Vijayakumar MR, Sri Sivakumar, Saurabh Srivastava, PS Rajinikanth. Resveratrol-Ampicillin Dual-Drug Loaded Polyvinylpyrrolidone/Polyvinyl Alcohol Biomimic Electrospun Nanofiber Enriched with Collagen for Efficient Burn Wound Repair. International Journal of Nanomedicine, 2024, 19 5397–5418.
13. Paras Dayma, Nisha Choudhary, Daoud Ali, **Saud Alarifi**, Pravin Dudhagara, Kuldeep Luhana, Virendra Kumar Yadav, Ashish Patel and Rajesh Patel. Exploring the Potential of Halotolerant Actinomycetes from Rann of Kutch, India: A Study on the Synthesis, Characterization, and Biomedical Applications of Silver Nanoparticles. Pharmaceuticals 2024, 17, 743.
14. Argyro Roumeliotou, Saad Alkahtani, **Saud Alarifi**, Abdullah A. Alkahtane, Christos Stournaras, and Galatea Kallergi. STIM1, ORAI1, and KDM2B in circulating tumor cells (CTCs) isolated from prostate cancer patients. Frontiers in Cell and

Developmental Biology, 2024, vol. 12.

15. Reema Ningthoujam, Pankaj Jangid, Virendra Kumar Yadav, Daoud Ali, **Saud Alarifi**, Ashish Patel, Harish Kumar Dhinra. Fermentation of Rice Straw Hydrolyzates for Bioethanol Production and Increasing its Yield by Applying Random Physical and Chemical Mutagenesis. *Waste and Biomass Valorization*, 2024, 15:5105–5123.
16. Virendra Kumar Yadav, Nisha Choudhary, Daoud Ali, **Saud Alarifi**, Vinay Dwivedi, Ashish Patel, and M. H. Fulekar. A Novel and Economical Approach for the Fusarium Oxysporum Mediated Myco-Synthesis of Mesoporous Floral-Shaped Silica Nanoparticles from Coal Fly Ash Waste. *Particle & Particle Systems Characterization*, 2024, 41, 2400007.
17. Timsi Modi, Tathagata Ghosh, Daoud Ali, **Saud Alarifi**, Nisha Choudhary, Pankaj Kumar, Ashish Patel, Nishant Gupta, Parwiz Niazig, and Virendra Kumar Yadav. Geospatial evaluation of normalized difference vegetation index (NDVI) and urban heat island: a spatio-temporal study of Gandhinagar City, Gujarat, India. *GEOMATICS, NATURAL HAZARDS AND RISK*, 2024, VOL. 15, NO. 1, 2356214.
18. Afaf Alatawi, Jamaan Ajarem, **Saud Alarifi**, Esam Al-Shaebi, Sally Khadrawy, Chuanyi Wang, Saleh Maodaa. *eucrium polium* Extract Ameliorates Neurobehavioral, Neurochemical Induced by Nicotine in Brain of Mice. *Indian Journal of Animal Research*, volume 58 issue 6, 2024, 982-990.
19. Evangelia Pantazaka, Saad Alkahtani, **Saud Alarifi**, Abdullah A Alkahtane, Christos Stournaras, Galatea Kallergi. Role of KDM2B epigenetic factor in regulating calcium signaling in prostate cancer cells. *Saudi Pharmaceutical Journal*, 2024, 32(7):102109.
20. Afaf Alatawi, **Saud Alarifi**, Esam M. Al-Shaebi, Saleh Al-Quraishy, Sarah A. Alawwad, Saleh N. Maoda, Jamaan S. Ajarem. Ameliorative Effect of *Teucrium polium* Extract against Nicotine Induced Liver Toxicity in Swiss Albino Mice. *Indian Journal of Animal Research*, volume 58 issue 7, 2024, 1176-1186.
21. Ramasamy Muthukrishnan Gobinath, Chinnathambi Pothiraj, Ramasubramanian Arumugam, Periyasamy Periyakar, Daoud Ali, **Saud Alarifi**, Veeramani Veeramanikandan, Bhathini Vaikuntavasan Pradeep, Van-Huy Nguyen, Paulraj Balaji. Biocatalytic Conversion of iocatalytic Conversion of Lignocellulosic Water Hyacinth Biomass by Phanerochaete chrysosporium for Sustainable Ethanol Production. *Topics in Catalysis*, 2024, 67:1066–1076.
22. Saad ALKAHTANI, Abdullah A. ALKAHTANE, **Saud ALARIFI**. Physiological and Pathogenesis Significance of Chorein in Health and Disease. *Physiol. Res.* 2024, 73: 189-203.
23. Huma Ali, Savita Dixit, **Saud Alarifi**. Biosynthesis and screening of cobalt nanoparticles using citrus species for antimicrobial activity. *Open Chemistry* 2024; 22: 20240021.
24. Muhammad Zeshan Haider, Adnan Sami, Muhammad Shafiq, Waheed Anwar, Sajid Ali, Qurban Ali, Sher Muhammad, Irfan Manzoor, Muhammad Adnan Shahid, Daoud Ali and **Saud Alarifi**. Genome-wide identification and in-silico expression analysis of carotenoid cleavage oxygenases gene family in *Oryza sativa* (rice) in response to abiotic stress. *Frontiers in Plant Science*, 2024, Oct 25:14:1269995.
25. Mohammed Al-Zharani, Abdullah A. Alkahtane, Norah S. AL-Johani, Bader Almutairi, Nora Alkeraishan, **Saud Alarifi**, Sahirah M. Alrajeh, Khadijah N. Yaseen, Nada H. Aljarba, Fahd A. Nasr, Saad Alkahtani. Investigating the effect of resveratrol on apoptosis and regulation of gene expression of Caco-2 cells: Unravelling potential implications for colorectal cancer treatment. *Open Chemistry* 2024; 22: 20240012.
26. Huma Ali, Savita Dixit, **Saud Alarifi**. Development and characterization study of bagasse with stubble reinforced polyester hybrid composite. *Journal of King Saud University – Science*, 2024, 36. 103231.
27. Kumar, T.O. Raghavendra, M. Shashank, Ramith Ramu, C. Mallikarjunaswamy, R. Harini, **Saud Alarifi**, G. Nagaraju, B. Nirmala. *Limonia acidissima* fruit juice mediated eco-friendly synthesis of pervoskite ZnSnO₃ nanoparticles: Applications to photocatalytic, electrochemical, antioxidant and antibacterial activities. *Inorganic Chemistry Communications*, 2024, 165, 112476.
28. Nouf M. Alyami, Hussah Alobadi, Saleh Maodaa, Norah S. Alothman, Hanouf Almukhlafi, Khadijah N. Yaseen, Zainab A. Alnakhli, Noura M. Alshiban, Doaa M. Elnagar, Ahmed Rady, Wed A. Alharthi, Bader Almetari, Rafa Almeer, **Saud Alarifi**, Daoud Ali. Determination of dose- and time-dependent hepatotoxicity and apoptosis of Lanthanum oxide nanoparticles in female Swiss albino mice. *Environmental Science and Pollution Research* (2024) 31:17124–17139.
29. Bader O. Almutairi, Saud M. Almutairi, **Saud Alarifi**. Synthesis of 1-(4-chlorobenzoyl)-4-(dimethylamino) pyridin-1-ium chloride and determination of cytotoxicity and apoptosis in human colon cancer cells. *Journal of King Saud University – Science*, 2024, 36. 103101.
30. Sami A. Althwab, Waleed Al Abdulmonem, Khaled S. Allemailem, **Saud A. Alarifi**, Essam M. Hamad. Prediction of cardiovascular risk factors and metabolic syndrome in adults from Saudi Arabia using the logarithm of triglyceride/HDL-cholesterol ratio. *International Journal of Health Sciences*, 2024, Vol. 18, Issue 2 (March – April).
31. May A. Alshahrani, Khadijah N. Yaseen, Rafa A. Almeer, **Saud Alarifi**. Role of reactive oxygen species: In the cytotoxicity and apoptosis of colon cancer cell line due to green lead nanoparticles. *Journal of King Saud University – Science*, 2023, 36, 103041.
32. Payal Deepak, Praveen Kumar, Prashant Pandey, Dilip Kumar Arya, Shweta Jaiswal, Anand Kumar, Archana Bharti Sonkar, Daoud Ali, **Saud Alarifi**, Mohankumar Ramar, P S Rajinikanth. Pentapeptide cRGDFK-Surface Engineered Nanostructured Lipid Carriers as an Efficient Tool for Targeted Delivery of Tyrosine Kinase Inhibitor for Battling Hepatocellular Carcinoma. *International Journal of Nanomedicine* 2023:18 7021–7046.
33. Moses Sam Arul Raj, Singamoorthy Amalraj, **Saud Alarifi**, Mohan G. Kalaskar, Rupesh Chikhale, Veerasamy Pushparaj Santhi, Shailendra Gurav and Muniappan Ayyanar. Nutritional Composition, Mineral Profiling, In Vitro Antioxidant, Antibacterial and Enzyme Inhibitory Properties of Selected Indian Guava Cultivars Leaf Extract. *Pharmaceuticals*, 2023, 16, 1636.

34. Reham KH Alamri, Daoud Ali, Wed A. Alharthi, Khadijah N. Yaseen, Bader O Almutairi, Saad Alkahtani and **Saud Alarifi**. Green Synthesis of Copper-Iron Nanoparticles Using the Peel of *Momordica charantia* and its Cytotoxicity and Apoptotic Effect on Human Liver and Breast Cancer Cells. *Natural Product Communications*, 2023, 11, 1-12.
35. Wadyan Lafi Alsulami, Daoud Ali, Bader O. Almutairi, Khadijah N. Yaseen, Saad Alkahtani, Rafa A. Almeer, and **Saud Alarifi**. Green Lead Nanoparticles Induced Apoptosis and Cytotoxicity in MDA-MB-231 Cells by Inducing Reactive Oxygen Species and Caspase 3/7 Enzymes. *Dose-Response*, 2023, 1-8.
36. Shreya Modi, Virendra Kumar Yadav, Daoud Ali, Nisha Choudhary, **Saud Alarifi**, Dipak Kumar Sahoo, Ashish Patel and Madhusudan Hiran Fulekar. Photocatalytic Degradation of Methylene Blue from Aqueous Solutions by Using Nano-ZnO/Kaolin-Clay-Based Nanocomposite. *Water* 2023, 15, 3915.
37. Loganathan Velmurugan, Anis Ahamed, Akbar Idhayadhulla, **Saud Alarifi**, Raman Gurumy. Antioxidant, antibacterial, and cytotoxic activities of Cimemoxin derivatives and their molecular docking studies. *Journal of King Saud University - Science*, 2023, 103011.
38. Shabnam Anjum, Dilip Kumar Arya, Mohammad Saeed, Daoud Ali, Mohammad Saud Athar, Wang Yulin, **Saud Alarifi**, Xixi Wu, P.S. Rajinikanth and Qiang Ao. Multifunctional electrospun nanofibrous scaffold enriched with alendronate and hydroxyapatite for balancing osteogenic and osteoclast activity to promote bone regeneration. *Frontiers in Bioengineering and Biotechnology*, 2023, 11.
39. Shabnam Anjum, Ting Li, Dilip Kumar Arya, Daoud Ali, **Saud Alarifi**, Wang Yulin, Zhang Hengtong, P. S. Rajinikanth and Qiang Ao. Biomimetic electrospun nanofibrous scaffold for tissue engineering: preparation, optimization by design of experiments (DOE), *in-vitro* and *in-vivo* characterization. *Frontiers in Bioengineering and Biotechnology*, 2023, 11: 1288539.
40. Nisha Choudhary, Jaimina Chaudhari, Vidhi Mochi, Pritee Patel, Daoud Ali, **Saud Alarifi**, Dipak Kumar Sahoo, Ashish Patel and Virendra Kumar Yadav. Phytonanofabrication of Copper Oxide by *Albizia saman* and Their Potential as an Antimicrobial Agent and Remediation of Congo Red Dye from Wastewater. *Water*, 2023, 15, 3787.
41. Muhammad Zeshan Haider, Adnan Sami, Muhammad Shafiq, Waheed Anwar, Sajid Ali, Qurban Ali, Sher Muhammad, Irfan Manzoor, Muhammad Adnan Shahid, Daoud Ali and **Saud Alarifi**. Genome-wide identification and in-silico expression analysis of carotenoid cleavage oxygenases gene family in *Oryza sativa* (rice) in response to abiotic stress. *Frontiers in Plant Science*, 2023, 14:1269995.
42. Mashael Alhumaidi Alotaibi, Tahani Mohamed Ibrahim Al-Hazani, Maha Abdulla Alwaili, Areej Saud Jalal, Dalal S. Alshaya, Fatmah Ahmed Safhi, Muna O. Alamoudi, **Saud Alarifi**, Wedad Saeed Al-Qahtani. SARS-CoV-2 virus associated angiotensin converting enzyme 2 expression modulation in colorectal cancer: Insights from mRNA and protein analysis COVID-19 associated (ACE2) expression in colorectal cancer. *Microbial Pathogenesis*, 2023, Volume 185, 106389.
43. Saad Alkahtani, Abdullah A. Alkahtane¹, Christos Stournaras and **Saud Alarifi**. Chorein sensitive microtubule organization in tumor cells., *Peer Journal*, 2023, DOI10.7717/peerj.16074.
44. Mohan Kalaskar, Vivek Redasani, Muniappan Ayyanar, Mahavir Ghante, Sandip Firke, Kapil Agrawal, Vilas Ghawate, Sanjay Surana, **Saud Alarifi**, Rupesh Chikhale and Shailendra Gurav. Isolation and Characterization of Anti-Inflammatory Compounds from *Ficus microcarpa* L.f. Stem Bark. *Plants*, 2023, 12, 3248.
45. Remi Ayu Pratika, Karna Wijaya, Maisari Utami, Sri Mulijani, Aep Patah, **Saud Alarifi**, Ravishankar Ram Mani, Krishna Kumar Yadav, Balasubramani Ravindran, Woo Jin Chung, Soon Woong Chang and Ganesh Munusamy-Ramanujam. The potency of hydrothermally prepared sulfated silica (SO₄/SiO₂) as a heterogeneous acid catalyst for ethanol dehydration into diethyl ether. *Chemosphere* 341 (2023) 139822.
46. Hani Alotheid, Mashael R. Al-Anazi, Arwa A. Al-Qahtani, Dilek Colak, Azeez Yusuf, Mohammed S. Aldughaim, Ali M. Mahzari, Mahmoud M. Habibullah, **Saud Alarifi**, Saad Alkahtani, and Ahmed A. Al-Qahtani. Exposure to Cadmium Telluride Quantum Dots and Gene Expression Profile of Huh-7 Hepatocellular Carcinoma Cell Line. *Dose-Response*, 2023, 1-7.
47. Pooja Dadhwal, Harish Kumar Dhingra, Vinay Dwivedi, **Saud Alarifi**, Haresh Kalasariya, Virendra Kumar Yadav and Ashish Patel. *Hippophae rhamnoides* L. (sea buckthorn) mediated green synthesis of copper nanoparticles and their application in anticancer activity. *Frontiers in Molecular Biosciences*, 2023, 10.3389/fmolb.2023.1246728.
48. Kalpana Prusty, Vasantkumar Rabari, Krupal Patel, Daoud Ali, **Saud Alarifi**, Virendra Kumar Yadav, Dipak Kumar Sahoo, Ashish Patel and Jigneshkumar Trivedi. An Assessment of Microplastic Contamination in a Commercially Important Marine Fish, *Harpodon nehereus* (Hamilton, 1822). *Fishes* 2023, 8, 43.
49. Praveen Satapute, Savitha De Britto, Shiva Hadimani, Mostafa Abdelrahman, **Saud Alarifi**, Sharathchandra Ramasandra Govind, Sudisha Jogaiah. Bacterial chemotaxis of herbicide atrazine provides an insight into the degradation mechanism through intermediates hydroxyatrazine, N–N-isopropylammelide, and cyanuric acid compounds. *Environmental Research*, 2023, 237.
50. Shishay Girmay, Nabeel Ijazb, Nighat Hashmi, Muhammad Irfan Ullahd, Gulnaz Afzale, Amar Nasirf, Shazia Perweeng, Amtul Samih, Nain Tarai, Shaista Abbas, Sayyed Aun Muhammad, Uzma Hussain, Shakeel Ahmed, Jilong Hanm, Huma Alin, **Saud Alarifi** and Hafiz Ishfaq Ahmad. Functional genomics analysis of Leptin-Melanocortin system genes reveals candidate genes associated rapid growth and high carcass yield in sheep. *Journal of King Saud University–Science*, 2023, 35.
51. Saad Alkahtania, Abdullah Alkahtane, **Saud Alarifi** and Christos Stournaras. Chorein-dependent microfilament organization in tumor cells. *Journal of King Saud University–Science*, 2023, 35.
52. Dharmendra Prajapati, Anil Patani, Margi Patel, Daoud Ali, **Saud Alarifi**, Virendra Kumar Yadav, Jigna Tank and Ashish Patel. Effects of Sulfate on the Physiology, Biochemistry, and Activity of Group 1 Sulfate Transporters in Seedlings

of *Brassica pekinensis*. *Horticulturae* 2023, 9, 82.

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