

Curriculum Vita

Dr. Abdul Rahman bin Abdullah Alatar

Associate Professor

Botany and Microbiology Department

Faculty of Science, King Saud University

A: Personal data:

Name: Abdulrahman bin Abdullah Alatar

Work: Associate Professor of Plant Ecology at Plant and Microbiology Department, Faculty of Science, King Saud University.

Qualifications: PhD in the philosophy of Botany, Plant Ecology in 1429H.

B: Administrative contributions:

1. Vice Dean of Graduate Studies in Shawwal 1436 until now.
2. Secretary of the Board of Graduate Studies Deanship in Shawwal 1436 until now.
3. Member of the Standing Committee of Admission & Registration.
4. Vice Dean of Student Affairs in Shawwal 1432H until Shawwal 1434 AH.
5. Member of the Master's program in Bio-Diversity of the academic year 1430 and until 1434h.
6. Member of the supervisory committee on the student accommodation from the year 1433 till 1434H.
7. Member of the National family of Sciences, Ministry of Education for the year 1433-1434 AH.
8. Vice Chairman of the Board of Management Students Fund in 1433H.
9. Affairs Deanship of faculty and staff member of Saudi Electronic University adviser during the period of 1st spring 1434 until 1st spring and until 1435H.
10. Member of the Saudi Electronic University in committee of new contractors Faculty members from the State of India in the year 1435H.
11. Member of the Committee automation procedures contractors Saudi Electronic University during 1435H year.

C: Participate in committees:

1. Faculty member at the Faculty of Science, King Saud University from the year 1430 until now.
2. Vice Dean for the Deanship of Student Affairs of the year 1432 until the year 1434H (in charge of student activities and student housing, nutrition management, grants and events management, student Publications).
3. The President Mawheba 'talent' Summer Program at King Saud University in cooperation with the King Abdul Aziz and His Companions Foundation for Giftedness and Creativity, from the years 1431 until 1434H.
4. Chairman of the Organizing Committee of the 3rd Festival of University Theater of the Gulf in 1434H.
5. Member of the supervisory committee for working student accommodation from 1433H until 1434H.
6. Member of the Committee ideal employee award Deanship of Student Affairs during the period from 1433H -1 434H.
7. Chairman of the Organizing Committee 'Scouts' ceremony marking 50 years of existence.
8. Member of the Sub-Commission on the graduation ceremony of 51 students from the University for the academic year 1432/1433H.

9. Chairman of the functional competitions for applicants for the post of Supervisor Housing rank seventh for the year 1433H.
10. Chairman of the Organizing Committee of the Festival of University Theater 3rd of Universities and Higher education Institutions in the Gulf Cooperation Council (GCC) in 1434H.
11. Chairman of the Committee to assist Foreign students at King Saud University from 1433H until 1434H.
12. Vice Chairman of the Board of Management Students Fund in 1433H.
13. Appointed of the Cultural Committee of the Faculty of Science in 1429 and the period until 1431.
14. Member of the Executive Committee of the Environmental Globe: 'Global Learning and Observation to Benefit the Environment' (GLOBE) during the period from 1424 -1428H
- 15 - Member of the Supervisory Committee on the operation of Student Accommodation at King Saud University.
- 16- Member committee Ideal Employee award Deanship of Student Affairs.
17. Chairman of the Organizing Committee Scouts ceremony on the occasion of the 50th Anniversary of its establishment.
18. Member of the Sub-Commission on the graduation ceremony of 51 Students from the University for the Academic year 1432/1433H.
19. Chairman of the functional competitions for applicants for the post of Supervisor Housing rank seventh for the year 1433 AH.
20. Chairman of the Organizing Committee of the Festival of university Theater third of Universities and higher education institutions in the Gulf Cooperation Council (GCC).
21. Chairman of the Committee to assist Foreign students at King Saud University.
22. Member of the Committee to consider the students Investment Fund Offers.

D: Research Projects:

1. PI of 'Conservation and valuation of plant diversity of potential economic value in mountain ecosystems, Kingdom of Saudi Arabia'. The National Plan for Science and Technology.
2. Co PI of 'Impact assessment and management of invasive species in plant diversity centers and agriculture fields of Saudi Arabia.' The National Plan for Science and Technology.
3. Co PI of Establishment of Data Repository and Processing Infrastructure on Environmental Profile Studies to Support Decision-making for Development of Ad'Diriyah City. Ad'Diriyah Environmental Studies Chair.
4. Co PI of 'Environmental Quality Assessment to Support the Future Development of Ad'Diriyah City: Environmental Pollution'. Ad'Diriyah Environmental Studies Chair.

5. PI of 'Conservation and Utilization of Mangroves in Saudi Arabia: From Knowledge to development. The National Plan for Science and Technology.

6. Research Assistant of the project mutations for some tomato varieties resistant to Alammerad- National Plan for Science and Technology.

E: Grants:

The first teacher at the level of the Riyadh region award in the specialty of Sciences for the academic year 1413/1414H

F: Conferences and Meetings:

• Conferences:

1. Fourth International Conference for Science in the Community and organized by the Convention Center Great Hall, Berkeley (California) in USA from 1-3 / 1/1434H.
2. Shane International conference, organized by the University of Sheffield in Sheffield in the United Kingdom in the period from 15-16 / 10/1432
3. Next Generation Sequencing, which was organized by the University of Nottingham in Nottingham, United Kingdom in the period Mn10-11 / 10/1433H Conference.
4. The International Conference on Water and Wetland in the Mediterranean region, which was held in the Moroccan city of Agadir in the period from 14-16 / 3/1433 e.
5. International Conference Semi-Annual Magazine for Pure Science, the Arts, which was organized by the State University of Connecticut German central German city of Gottenheim from 2-7 / 1/1433H.
6. Environment Conference 2012, organized by The Ohio State University, USA, in the period from 14-19 / 11/1433 AH.
7. Second Asian Conference on Sustainability, Energy and Environment, organized by the International Academy of the Japanese city of Osaka, Japan in the period from 12-14 / 6/1433H.
8. International Conference on Magazine Pure Science and the Arts, which was held in Toronto, Canada, from 20-23 / 6/1432.
9. Training Workshop Founding program of Environmental Globe (Global Learning and Observation to Benefit the Environment) Jordan. 2003 (Beneficiaries).
10. Third Regional Conference for students Globe environmental program for the period 1115 October 2003 (Bahrain).
11. The second training workshop for teachers Globe GLOBE industrial. Aljabil 1425H (Coach).
12. International Conference on Water and Arid Environmental Resources. Riyadh 10/22/1425H.
13. The third training workshop for teachers Globe GLOBE. Jeddah 1425 (Coach).
14. The first training workshop for teachers Globe GLOBE. Riyadh 1424 (coach)

15. Accredited cycle patterns to determine the threatened plant species .Riyadh 1422H.

• **Meetings:**

1. Human Microbiology seminar in the context of anaerobic infections organized by the Health Protection Agency. Klendil, London. United Kingdom in the period from 30/02/1432 to 03.01.1432H.
2. International Symposium "Vital Signal in the Face of the vital construction" at the University of Freiburg University of Freiburg in Freiburg, Germany, in the Federal 14-16 / 10/1431H.
3. A seminar on How to Find the Internet site of the ISI databases 25-5-1431h.
4. King Saud University seminar about the world, research and publication of scientific excellence 01/02/1431H.
5. Outstanding Publishing Seminar in Magazines Nature and Science (16-6-1430H).
6. Outstanding Publishing Seminar in Magazines Nature and Science (17-6-1430H).
7. International Symposium Publishing Magazines under the King Saud University Publishing House (Elsevier) 30-6-1430H.
8. Development Symposium magazines under the King Saud University Publishing House (Elsevier) 23 -11-1430H.
9. Symposium International Research Groups: towards scientific excellence 02/08/1431H.
10. Seminar Carnivorous plants (flytrap initiative will meet with high-tech) 2-6-1431H.

G: Societies:

1. Member of the Saudi Society for the Life Sciences-Riyadh -2010 till now
2. Member of European Dry Grassland Group (EDGG); 2010 until now.
3. Member of the Association of Plant Taxonomy Bangladesh 2010.

H: Councils:

1. Member of the Board Botany and Microbiology Department of, Faculty of Science from 1430 until now.
2. Member of the Council of Graduate Studies and Research Master Biodiversity program at King Saud University from 1431 until now.
3. Member of the student council fund Deanship of Student Affairs from 1433 until 1434H.

I: Supervision of the Theses (Master's and PhD):

- Supervisor of PhD Thesis: Mohammed Alokla. 1434H (continuous)
- Supervisor of MSc. Thesis: Fahd Almuraekhy (1432H).
- Supervisor of MSc. Thesis: Naif Al-Otaibi (1433H).
- Supervisor of MSc. Thesis: Mohammed Alokla (1432H).

- Supervisor of MSc. Thesis: Dial-Rahman (1433H).
- Supervisor of MSc. Thesis: Ali Almusabi (1434H).
- Supervisor of MSc. Thesis: Mohammed Alsoweed (1435H).
- Supervisor of MSc. Thesis: Mohammed Zahrani (1436H).

J: Publications:

a. Giudes and Book Publications:

- Co-author of Book: Environmental Physiology of Plants Practices (1433H) Publisher: Academic Publishing and Press, King Saud University in Riyadh).
- Faisal, M., Anis, M. and A. Alatar (2012). Plant Tissue Culture: An effective tool of biotechnology for conservation of medicinal plants. LAMBERT Academic Publishing GmbH & Co. KG, Germany.
- Co-author in the preparation of Faculty Members Guide the Saudi Electronic University (1436H).
- Co-author in the preparation of Faculty Members of Non-Saudi Arabia electronic guide the university (1436H).
- Co-author in the preparation guide action to End the contractors transactions in the branches of the Saudi Electronic University (1436H).

b. Scientific Publications or Submitted for Publication articles:

Complete List of Publication

1. Moinuddin M., Gulzar S., Aziz I., **Alatar A. A.**, Hegazy A. K. and Khan M. A., (2012). Evaluation of forage quality among coastal and inland grasses from Karachi. **Pakistan Journal of Botany**, 44(2): 573-577.
2. Hegazy A. K., **Alatar A. A.**, Lovett-Doust J. and El-Adawy H. A., (2012). Spatial and temporal plant phenological niche differentiation at desert Wadi Degla ecosystem (Egypt). **Acta Botanica Croatica** 71 (2): 261–277.
3. Hegazy, A. K., Afifi, S. Y., **Alatar, A. A.**, Kabieli, H. F. and Emam, M. H., (2013). Response of crop plant growth and radionuclides availability to organic and chemical fertilization of black sand soil. **Phyton** 53:87-111.
4. M. Faisal, **A. Alatar** and A.K. Hegazy (2013) "Molecular and biochemical characterization in *Rauvolfia tetraphylla* plantlets grown from synthetic seeds following in vitro cold storage". **Applied Biochemistry & Biotechnology**. 169: 408-417.
5. Manzer H. Siddiqui , Mohamed H. Al-Whaibi, Ahmed M. Sakran, Hayssam M. Ali, Mohammed O. Basalah, M. Faisal, **A. Alatar**, Abdullah A. Al-Amri (2012) Calcium-induced Amelioration of Boron Toxicity in Radish. **Journal of Plant Growth Regulation**. 32: 61-71.
6. M. Faisal, **A. Alatar**, N. Ahmad, M. Anis and A.K. Hegazy (2012) An efficient and reproducible method for *in vitro* clonal multiplication of *Rauvolfia tetraphylla* L.

- and evaluation of genetic stability using DNA-based markers. **Applied Biochemistry and Biotechnology**. 168: 1739-1752.
7. M. Faisal, **A. Alatar**, N. Ahmad, and M. Anis (2012) Assessment of genetic fidelity in *Rauvolfia serpentina* plantlets grown from synthetic (encapsulated) seeds following in vitro storage at 4 °C. **Molecules**. 17: 5050-5061.
 8. **A. Alatar**, M. Faisal, AK Hegazy and Alwathnani A. Hend (2012) High frequency shoot regeneration and plant establishment of *Rauvolfia serpentina*-an endangered medicinal plant. **Journal of Medicinal Plants Research**. 6: 3324-3329.
 9. **A. Alatar** and Faisal M (2012) Encapsulation of *R. tetraphylla* microshoots as artificial seeds and evaluation of genetic fidelity using RAPD and ISSR markers. **Journal of Medicinal Plant Research** 6: 1367-1374.
 10. **Alatar, A. A.** (2011) Effect of temperature and salinity on germination of *Achillea fragrantissima* and *Moringa peregrina* from Saudi Arabia. **African Journal of Biotechnology** Vol. 10(17), pp. 3393-3398, 25 April.
 11. **Alatar Abdulrahman A.**; El-Sheikh Mohamed A, Thomas Jacob (2012). Vegetation analysis of Wadi Al-Jufair, a hyper-arid region in Najd, Saudi Arabia. **Saudi Journal of Biological Sciences** 19, 43–54.
 12. **Alatar, A.A.**, M.A. Mahmoud, S.A. Al-Sohaibani and K.A. Abd-Elsalam. (2012) Simple and rapid protocol for the isolation of PCR-amplifiable DNA from medicinal plants. **Genetics and Molecular Research** 11 (1): 348-354.
 13. Hegazy, A. K., Emam M. H. & **Alatar, A. A.** (2011). Growth and reproductive attributes of radionuclides phytoremediators in the Mediterranean coastal black sands. **African Journal of Biotechnology**, 10 (74): 16781-16792.
 14. Basahi, M.A.; Thomas, J.; Al-Turki, T.A.; Alfarhan, A.H.; **Alatar, A.A.** and Sivadasan, M. (2010). Current status and conservation efforts of *Centaurothamnus maximus* Wagenitz & Dittrich (Asteraceae), an endemic, endangered species from Saudi Arabia. **Plant Archives** 10(2): 807-814.
 15. Thomas, J., El-Sheikh, M. A, **Alatar, A. A.**, Alfarhan, A. H. and Sivadasan, M. Distribution and abundance of *Astragalus* L. in some of the peripheral populations in the Central region of Saudi Arabia. **Pakistan Journal of Botany**. (Accepted)
 16. Hegazy, A. K., Kabieli, H. F., **Alatar, A. A.** and Lovett-Dusot, J. (2012). Plasticity in dynamics and hydrochastic persistence of *Anastatica hierochuntica* (Brassicaceae) populations under simulated rainfall treatments. **Polish Journal of Ecology** 61:493-504.
 17. A. Shahzad, M. Faisal, N. Ahmad, M. Anis, **A. Alatar** and Alwathnani A. Hend (2012) An efficient system for *in vitro* multiplication of *Ocimum basilicum* through node culture. **African Journal of Biotechnology** 11: 6055-6059.
 18. Narayanan, M. K. R., S. Mithunlal, P. Sujanal, N. Anil Kumar, M. Sivadasan, Ahmed H. Alfarhan & **A. A. Alatar**. (2011). Ethnobotanically important trees and

their uses by Kattunaikka tribe in Wayanad Wildlife Sanctuary, Kerala, India **Journal of Medicinal Plant Research**. 5(4): 604-612.

19. Jaleel, V. Abdul, M. Sivadasan, Ahmed H. Alfarhan, Jacob Thomas & **A. A. Alatar** (2011). Revision of *Amorphoiphallus* Blume ex Decane. Sect. *Rhaphiophallus* (Schott) Engler (Araceae) in India. **Bangladesh Journal of Plant Taxonomy** 18(1): 1-26.
20. Narayanan, M. K. R., N. Anilkumar, V. Balakrishnan, M. Sivadasan, Ahmed H. Alfarhan & **A. A. Alatar** (2011). Wild edible plants used by the Kattunaikka, Paniya and Kuruma tribes of Wayanad District, Kerala, India. **Journal of Medicinal Plant Research**. 5(15): 3520-3529.
21. Soliman, M. S. A., Hegazy A. K., Goda S. K., Emam M. H. and **Alatar, A. A.** (2011). Cytotoxicity and mutagenic effects of soil radionuclides on some black sand. **Journal of Mediterranean Ecology**, 11: 5-20.
22. Eid. Ebrahim M El-Sheikh, Mohamed.A., **Alatar Abdulrahman A.** (2012) Uptake of Ag, Co and Ni by the Organs of *Typha domingensis* (Pers.) Poir. ex Steud. in Lake Burullus and Their Potential Use as Contamination Indicators **Open Journal of Modern Hydrology**. 2, 21-27.
23. Mohammad Faisal, Quaiser Saquib, **Abdulrahman A. Alatar**, Abdulaziz A. Al-Khedhairi, Ahmad K. Hegazy, Javed Musarratd (**2013**). Phytotoxic hazards of NiO-nanoparticles in tomato: A study on mechanism of cell death. **Journal of Hazardous Materials** 250– 251: 318– 332.
24. Mohammad Faisal, **Abdularhaman A. Alatar** & Ahmad K. Hegazy (**2013**). Molecular and Biochemical Characterization in *Rauvolfia tetraphylla* Plantlets Grown from Synthetic Seeds Following In Vitro Cold Storage. **Applied Biochemistry and Biotechnology** 169: 408–417.
25. A.K. Hegazy, S. L. Al-Rowaily, M. Faisal, **Abdularhaman A. Alatar**, M. I. El-Bana and A. M. Assaeed (**2013**). Nutritive value and antioxidant activity of some edible wild fruits in the Middle East. **Journal of Medicinal Plant Research** 7: 938-946.
26. Mohamed A. El-Sheikh, Jacob Thomas, Abdulrahman A. Alatar, Ahmed K. Hegazy, Ghanim A. Abbady, Ahmed H. Alfarhan, Mohamed I. Okla (**2013**) Vegetation of Thumamah Nature Park: a managed arid land site in Saudi Arabia. **Rend. Fis. Acc. Lincei** 24: 349–367. (Springer Science). (IF=0.92).
27. Shaikh, F., B. Gul, R. Ansari, **Alatar A.A.**, A.K. Hegazy and M. A. Khan (**2013**). Comparative effects of NaCl and seed salt on the seed germination of two halophytic grasses under various light and temperature regimes. **Pakistan Journal of Botany** 45 (3): 743-754.
28. A.K. Hegazy, S.Y. Afifi, A.A. Alatar, H.A. Alwathnani and M.H. Emam (**2013**). Soil characteristics influence the radionuclide uptake of different plant species. **Chemistry and Ecology** 29: 255–269.
29. Hameed A., Ahmad M. Z., Gulzar S. Gul B. Alam J, Hegazy A.K., **Alatar A. A.** and M. A. Khan. (**2013**). Seed germination responses and recovery of *Suaeda heterophylla* to abiotic stresses. **Pakistan Journal of Botany** 45 (5): 1649-1656.

30. Zehra, A., B. Gul, R. Ansari, A.A. Alatar, A.K. Hegazy and M.A. Khan **(2013)**. Action of plant growth regulators in alleviating salinity and temperature effects on the germination of *phragmites karka*. **Pakistan Journal of Botany** 45 (6): 1919-1924.
31. Jaleel V.A., Sivdasan M., Alfarhan A.H., Thomas J. and **Alatar A.A. (2014)**. Revision of *Amorphophallus blume* Ex Decne. Sect *Amorphophallus* (Araceae) in India. **Bangladesh J. Plant Taxon.** 21: 105-120.
32. Hegazy A.K. Alatar A.A. Thomas J., Faisal M. Alfarhan A.H. and Krzywinski K. **(2014)** Compatibility and complementarity of indigenous and scientific knowl-edge of wild plants in the highlands of southwest Saudi Arabia. **Journal of Forestry Research** 25: 437–444. Springer Science.
33. Mohammad Faisal, **Abdularhaman A. Alatar**, Ahmad K. Hegazy **(2014)**. An efficient *in vitro* clonal multiplication of *Mentha arvensis* and evaluation of genetic stability using molecular markers and flow cytometry. **Industrial Crops & Products** 62: 100-106.
34. Permar V., Singh A., Pandey V. **Alatar A.A.**, Faisal M., Jain R.K., and Praveen S. **(2014)** Tospo viral infection instigates necrosis and premature senescence by micro RNA controlled programmed cell death in *Vigna unguiculata*. **Physiological and Molecular Plant Pathology** 88: 77-84.
35. Thomas J., Sivadasan M., Al-Ansari A.M., Alfarhan A., El-Sheikh M., Basahi M. and **Alatar A.A. (2014)**. New generic and species records for the flora of Saudi Arabia. **Saudi Journal of Biological Sciences** 21: 457-464.
36. A.K. Hegazy, **A. A. Alatar**, M. A. Khan and J. Lovett-Doust **(2014)**. Interaction Between “Safe Sites” and “Safe Sides” for Germination of *Neurada procumbens* (Neuradaceae) in the Middle East. *Folia Geobotanica* 49:175–192. Springer Science
37. **Abdulrahman A. Alatar**, Mohamed A. R. El-Sheikh, Jacob Thomas, Ahmad K. Hegazy, and Hosam A. El Adawy **(2015)** Vegetation, Floristic Diversity, and Size-Classes of *Acacia gerrardii* in an Arid Wadi Ecosystem. **Arid Land Research and Management** 29:335–359.
38. Hegazy A.K., Faisal M., **Alatar A.A.**, Kabieli H.F. and Enam M.H. **(2015)** Induced mutagenesis and genotoxicity by accumulated radionuclides in some edible plants cultivated in black sand soil detected by RAPD - DNA profiles and proteomics. **Fresenius Environmental Bulletin.** 24(1): 343-354, Germany.
39. Kaur H., Yadav C.B., **Alatar A.A.**, Faisal M., Jyothsna P., Malathi, V.G. and Praveen S. **(2014)** Gene expression changes in tomato during symptom development in response to leaf curl virus infection. **J. Plant Biochem. Biotechnol.** 3: 347-354.
40. Ahmad N., **Alatar A.A.**, Faisal M., Khan M.I., Fatima N., Anis M. and Hegazy A.K. **(2015)** Effect of metals (Cu and Zn) on the development of sarpagandha (*Rauvolfia serpentina*) cultured in vitro. **Biologia Plantarum** 59: 11-17. Springer Science.
41. Garg V., Permar V., Parkhi V., Mani E., **Alatar A.A.**, Faisal M. & Praveen S. **(2015)**. **J. Plant Biochem. Biotechnol.** DOI: 10.1007/s13562-015-0299-5.
42. Taylor & Francis. **Alatar A.A. (2015)** Thidiazuron induced efficient in vitro multiplication and ex-situ conservation of *Rauvolfia serpentina* - a potent antihypertensive drug producing plant. **Biotechnology & Biotechnological Equip.** 29: 1069-1074. Taylor and Francis, UK.
43. **Alatar A.A.**, Faisal M., Hegazy A.K., Alwathnani H.A. & Okla MK **(2015)**. Clonal in vitro multiplication of grey mangrove and assessment of genetic fidelity using

single primer amplification reaction (SPAR) methods. **Biotechnology Biotechnological Equipment** 29: 1069-1074.

44. AL Rahaily A., Thomas J., Yusuf M., Mayandy S., Alfarhan A.H. El-Sheikh M. A. and **Alatar A.A. (2015)** Taxonomy and distribution of two newly recorded genera in Saudi Arabia. **Kuwait J. Sci.** 42: 145-169.
45. Naz R., Anis M. and **Alatar A.A. (2015)** ISSR marker-based detection of genomic stability in *Cassia occidentalis* L. plantlets derived from somatic embryogenesis. Engineering in Life Sciences. DOI: 10.1002/elsc.201500050.
46. Faisal M, **Alatar A.A.**, El-Sheikha M., Thomas J. & Alwathnani H.A. **(2015)**. Thidiazuron induced in vitro regeneration of Brahmi and assessment of genetic uniformity by flow cytometry and single primer amplification reaction (SPAR) methods. **Industrial Crops & Products** (Submitted) Elsevier Science.
47. Faisal M., Saquib Q., **Alatar A.A.**, AlKhedhiary A.A., Ahmed M., Ansari S.M., Hend A.A., Dwivedi S., Musarrat J. and Praveen S. (2015) Cobalt oxide nanoparticles aggravate D 1 NA damage and cell death in eggplant via mitochondrial swelling and NO signaling pathway. **Journal of Biological Research** (Submitted).