CURRICULUM VITAE

# PERSONAL DETAIL

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| --- | --- | --- |
| **Name :-** |  | Dr. Mohammed Nasser ALyemeni |
| **Designation:-** |  | Professor |
| **Department:-**  **Subdivision:-** |  | Department of Botany & Microbiology  Plant Molecular Ecology |
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| **Address(Office):-** |  | Department of Botany & Microbiology,College of Science, King Saud University, Riyadh Saudi Arabia. |

# ACADEMIC QUALIFICATION (Qualification), (Institution).

**B.Sc: King Saud University, Riyadh, Saudi Arabia**

**M Phil: Reading University, UK**

Thesis: “Some Aspects of The Effect of Artificial wind Speeds on The Growth of Rape ( Brassica napus L.) grown in water Culture.”

**Ph.D. Edinburgh University, UK – Plant Ecology**

Thesis: “Water use of Alfalfa crop under desert conditions in Saudi Arabia.”

# CAREER HISTORY

# (Post), (Organisation), (Period).

**PROFESSOR** at Botany & Microbiology Department King Saud University since 2005 A.D.

**ASSOCIATE PROFESSOR** at Botany & Microbiology Department King Saud University from 1998 to 2005 A.D.

**ASSISTANT PROFESSOR** at Botany & Microbiology Department King Saud University from 1990 to 1998 A.D.

**Lecturer** at Botany & Microbiology Department King Saud University from 1980 to 1989.

**Demonstrator** at Botany & Microbiology Department King Saud University from 1973 to 1980

# Scholarships and Awards:

1. King Saud University Scholarship ( 1974-1980).
2. King Saud University Scholarship ( 1984-1989)
3. Research grant for one year from King Abdulaziz City for Science and Technology ( 1999-2000).
4. Research grant from Saudi basic industry (Sabic) for one year( 2001- 2002).
5. Research grant from Saudi basic industry (Sabic) for one year( 2001- 2002).

# PARTICIPATION IN CONFERENCES, SYMPOSIA AND OTHER ACTIVITIES

## A - Conferences:

1. Co-chairman for the session on plant resources in the third conference on desertification and environmental studies beyond the year 2000- held at King Saud University Riyadh from 30 Nov.-4 Dec.1999.
2. Attended the 2nd International Conference on Economics and Conservation of Natural Resources in Arid Zones, organized by the National Commission for Wildlife Conservation and Development (NCWCD) and held at, Riyadh from 12th - 15th November 2000 A.D.
3. Participating in the 2nd International Conference Under the Theme of Environmental Science & Technology, Environment,Egypt 2006. Organized by National Research Center, Cairo,, Egypt from 4-6 September 2006 A.D.
4. Participating the 2nd Scientific Environmental Conference Toward Clean and Free of Pollution Environment. organized by Faculty Of Science Zagazig University held at, Zagazig University, Zagazig at 20th June 2007 A.D.
5. Participating in the 1st International Conference on land degradation in dry environment. Organized by Kuwait University, Faculty of Science, Department of Earth and environmental Science, 08-14 March, 2009.
6. Participating in the 4th International Conference The Egyptian Society for Environmental Sciences Ismailia, Egypt 10-11 November 2009 (Impacts of Climate Change on Natural Resources).
7. Participating in the 7th International Scientific Conference, Al-Azhar University (ISCAZ 2010). Environment, Development and nanotechnology. Organized by Faculty of Science, Al-Azhar University Cario, Egypt, 22-24 March,2010. (ENHANCED WATER ECONOMY AND CAM IN THE DESERT STEM SUCCULENT CARALLUMA ACUTANGULA IN SOUTHWESTERN SAUDI ARABIA)
8. Participating in the 3rd International Conference on Drug Discovery & Theraphy. February 7th - 10th 2011, Dubai, UAE
9. Participating in the 26th Saudi Biological Society Conference in Taif, Climate change and biodiversity. May 10th-12th 2011
10. Participating in the 4th International Conference on Drug Discovery & Theraphy. February 12th - 15th 2012, Dubai, UAE. EVALUATION OF ANTI-DIABETIC ACTIVITY AND TOXIC POTENTIAL OF Lycium shawii IN ANIMAL MODELS
11. Participating in the 27th Meeting of the Saudi Biological Society, “Natural Resources and Environment Economies.” Jazan University, Jazan, Saudi Arabia, March 6 – 8, 2012. EFFECT OF ENVIRONMENTAL FACTORS ON THE YIELD AND YIELD COMPONENTS OF PLEUROTUS OSTREATUS JACQ IN TWO LOCALITIES OF NWFP ( PAKISTAN )
12. Participating in the URBAN ENVIRONMENTAL POLLUTION – Creating Healthy, Liveable Cities 17-20 June 2012, Amsterdam, The Netherlands. Bioaccumulation of nutrient and heavy metals in two medicinal plants Calotropis procera AitonRBr and Citrullus colocynthisL Schrad and their potential use as contamination indicators
13. Participating in the 3rd European Congress of Conservation Biology. "Conservation on the Edge." Glassgow, 28th August – 1st September 2012. Physiological characteristics and antioxidant enzymes of some exhibited plants grown under Atmospheric air pollution at ALjubail Industrial City, KSA
14. Participating in the Malaysian Conference (ICENV 2012) INTERNATIONAL CONFERENCE ON ENVIRONMENT 2012 (ICENV 2012), PENANG, MALAYSIA, 11-13 DECEMBER 2012. Physico-chemical and heavy metal status of waste water and sediment of Wadi Hanifah-A case study
15. Participating in 5th International Conference on Drug Discovery and Therapy, Dubai UAE, 18th Feb – 21st 2013. Pharmaceutically important plants used in traditional system of Arab medicine for the treatment of livestock ailments in the kingdom of Saudi Arabia.
16. Participating in 11th INTECOL Congress, Ecology: Into the next 100 years, London, 18-23 August 2013
17. Participating in BioMicroWorld 2013 V International Conference on Environmental Industrial and Applied Microbiology. Madrid, Spain. 2 – 4 October 2013. Changes in the yield quantity and quality of the pods of four legume crops in response to elevated ambient ozone in Riyadh.
18. Participating in 5th International Conference on Environmental Science and Development-ICESD 2014. Singapore. 19-23 February 2014. Effect of anthropogenic activities on accumulation of heavy metals in legumes crops, Riyadh, Saudi Arabia
19. Participating in Conference: Salt & Water Stress in Plants, Gordon Research Conferences, Sunday River Resort, Newry, ME, United States. 3 - 8 August 2014. Impact of Sodium Nitroprusside on Nitrate Reductase, Proline Content, and Antioxidant System in Tomato under Salinity Stress
20. Participating in Conference: 2nd International Conference on Sustainable Environment and Agriculture-ICSEA 2014. San Diego, USA. 29-30 October, 2014, Salicylic acid enhances the efficiency of nitrogen fixation and assimilation in Cicer arietinum plants grown under cadmium stress
21. Participating in Conference: Economics of Red Sea and Their Development. 30th Saudi Biological Society Meeting on Tabuk University, Tabuk, Saudi Arabia. 7-9 April, 2015. Effect of 28-Homobrassinolide on the Drought Induced Changes in the Seeds of *Vigna radiata*.

## B - Symposia:

1. Attended the Saudi Biological Society, Fourth Symposium on the Biological aspects of the Kingdom of Saudi Arabia, held at College of Science, King Saud University, Riyadh from 10th - 13th March 1980 A.D.
2. Attended the Saudi Biological Society, Fifth Symposium on the Biological aspects of the Kingdom of Saudi Arabia, held at College of Education, King Saud University, Abha from 13th - 16th April 1981 A.D.
3. Attended the Workshop of Desert Studies in Kingdom of Saudi Arabia, Scopes and Concerns, held at King Saud University, Riyadh from 12th - 23rd November 1989 A.D.
4. Attended the Saudi Biological Society, Twelfth Symposium on the Biological aspects of Kingdom of Saudi Arabia held at College of Science, King Saud University, Riyadh from 19th to 21st December 1989 A.D.
5. Participated in the Saudi Biological Society, Thirteen Symposium on Environment Protection and Components (Animal, Plants, Water and Soils) held at the College of Agriculture and Veterinary Medicine, Buriedah, Qassim Branch, King Saud University, from 11th - 13th February 1992 A.D.

Paper presented:

1. The Bowen ration determination of water use by Alfalfa in The Central region of Saudi Arabia
2. Studies on plants of Riyadh region - An ecological studies on plants of Riyadh region energy exchange and water loss from Calotropis procera L.
3. Participated in the Saudi Biological Society, Fourteen Symposium on the Biological and Natural Resources in Kingdom of Saudi Arabia, held at the College of Meteorology and Ecology and Arid Land Agriculture, Jeddah from 16th - 18th February 1993 A.D.

Paper presented:

Investigation on growth abnormalities of Medicago sativa L. under field conditions.

1. Participated in the Saudi Biological Society, Fifteen Symposium on the Biological aspects in the Kingdom of Saudi Arabia held at Biology Department, Faculty of Applied Umm Al-Qura University, Makkah Al-Mukarramah from 29th - 21st March 1994 A.D.

Paper presented:

The Bowen ratio determination of water use by alfalfa in the Central region of Saudi Arabia.

1. Participated in the Saudi Biological Society, Seventeen Symposium on the Biology Natural Resources held at the College of Agriculture and Veterinary Medicine, Buraidah, Qassim Brach, King Saud University from 28th - 30th May 1996 A.D.

Paper presented:

The response of seedling of Vigna ambacensis L. to draught in Plant growth.

1. Participated in the Saudi Biological Society, Eighteenth Annual Meeting on the Ecological Pollution and Biological aspects of Saudi Arabia held at the Royal Commission for Jubail and Yanbu, Yanbu Al-Sinaiyah, from 24 th – 26 th - 1998.

Paper presented:

Ecology of some plant communities along Riyadh Al- humamah Road, Riyadh, Saudi Arabia..

1. Participated in the 19th Annual Meeting of the Saudi Biological Society on Biological Sciences through Course of Foundation and Development of the Kingdom of Saudi Arabia Symposium on the Biological Aspects of Saudi Arabia, held at Faculty of Science, King Abdulaziz University, Jeddah, 16 th –18 th February, 1999.

Presented a Paper:

Ecological studies on Sand dunes Vegetation in Al-kharj region, Saudi Arabia.

1. Participated in the 20th Annual Meeting of the Saudi Biological Society on Camels are an Important National Resources to be Protected,, held at College Veterinary Medicine and Animal Resources, King Faisal University, Hofuf, Al-Ahsa, Saudi Arabia, 1 th –3 th February, 2000,

Presented a Paper:

Breaking of seed Dormancy in Ducrosin Anthifolin (DC.) Bosff.

1. Participated in the twenty first Annual Meeting of the Saudi Biological Society on Biological Natural Resources of Saudia Arabia, A view of the Fututre, held at College of Science, King Khalid University, Abha, Saudia Arabia, 26 th –28 th April 2002.

Presented a Paper: Germinable soil Seed Bank of Desert Plant Communities in Wadi Al\_ammariah, Riyadh, Saudi Arabia

1. Attended the Workshop of Distinguished Scientist Fellowship Program, Breaking New Ground in Plant Biology. held at King Saud University, Riyadh on 31 March 2016 A.D.

## C. Committees:

1. Member of the student advisory committee for 1993 A.D. Corresponding 1413 H. within the Department.
2. Director of Green House and Ecological Laboratories from 1992 to 1996.
3. Member of the Ecology and taxonomy unit from 1990 till Present.
4. Chairman of the Ecological unit for 1995 , 1999 and 2002 Till present.
5. Member of the Departmental botanical garden and herbarium Committee since 1999 - till present.
6. Member of many committees set up by the Departmental Board for examination of Master Degree thesis.
7. Member of the Curriculum Committee in the Dept.

## D. Councils:

1. Member of the Botany and Microbiology Department Council from 1990 to date.
2. Secretary of the Departmental Board for the academic year 1997/1998.
3. Member of M.Sc council in. biodiversity.

## E. Membership of Scientific Associations:

1. Member of Saudi Biological Society since 1980 - till present.
2. Member of Union of Arab Biologists since 1999 - till present.

## F. University and Community Service:

1. Academic supervisor for many students at the Department.
2. Supervisor of many undergraduate research projects in the Department.
3. Supervisor for one graduate student for M.Sc.
4. Evaluating several research projects submitted to University's research centers and to King Abdulaziz City for Science and Technology.
5. Refereeing many manuscripts submitted for publication in many national, regional and international scientific journals.
6. Regional-Editor for the "Pakistan journal of biological sciences", Pakistan, since January 1998 - till present.

## G. M.Sc. and Ph.D. Thesis and Projects Evaluation

1. Research thesis of M.Sc and Ph.D students in different universities of Saudi Arabia were technically assessed and evaluated.
2. Several research projects submitted to KSU and KACST were technically reviewed and assessed.
3. Supervised four Ph.D. and five M.Sc. students.

# Publications – Complete

## Books

### Arabic

1. اليمني محمد ناصر و رمضان الدسوقي. (1428هـ ). عوامل البيئة النباتية – العملي. ادارة النشر العلمي و المطابع- جامعة الملك سعود الرياض المملكة العرية السعودية.
2. اليمني محمد ناصر و رمضان الدسوقي. ( 1429 هـ ). وسائل عملية في علم البيئة النباتية. ادارة النشر العلمي و المطابع – جامعة الملك سعود.
3. اليمني محمد ناصر و أكرم حسين علي (1430 هـ). قياس ملوثات البيئة. ادارة النشر العلمي و المطابع – جامعة الملك سعود., الرياض المملكة العرية السعودية
4. اليمني محمد ناصر و رمضان الدسوقي.(1430 هـ). أقلمة النبات للظروف البيئية العملي- ادارة النشر العلمي و المطابع – جامعة الملك سعود., الرياض المملكة العرية السعودية

### English

Hayat, S., Alyemeni, M.N. and Ahmad, A.: SALICYLIC ACID: Plant Growth & Development, Springer, The Netherlands.

M Yusuf, S Hayat, MN Alyemeni, Q Fariduddin, A Ahmad. Salicylic Acid: Physiological Roles in Plants

SALICYLIC ACID, 15-30. Springer Netherlands.

## In ISI Listed journals

### 1995-2006

1. Alyemeny, M. and Grace J. (1995). Radiation balance of an alfalfa crop in Saudi Arabia. Journal of Arid Environment,29:447- 454.
2. Alyemeny, M. and Grace J. (1996) Evaluation of Bowen Ratio for water use of Alfalfa under arid conditions. Saudi Biological Society (Biol. Sci.) Vol: 4: 107-121.
3. Alyemeni, M.N. and M.M. Al-Farraj (1995). The seed bank of desert soil in Central Saudi Arabia. Pakistan Journal of Botany, 27 (2): 309-319.
4. Alyemeni, M.N. and A.A. Al-Helal (1996). Studies on germination of Vigna ambacensis L. Seeds. Biological Science (Proc. Saudi Biological Soceity) Vol. 4 : 69-81.
5. Alyemeni, M.N. and A.Y. Basahy (1997). Salinity effect on the growth of Cyamopsis tetragonoloba (L.) Taubert. GeoBios, 24 (2-3) : 93-98.
6. Alfarraj, M.M. A. Alfarhan and M.N. Alyemeni (1997).Ecological studies on Rawdhat system in Saudi Arabia 1. Rawdhat Khorim. Pakistan Journal of Botany, 29 (1): 75-88.
7. Alyemeni, M.N. (1997). Growth response of Vigna ambacensis L. seedling to the interaction between nitrogen source and salt stress. Pakistan Journal of Botany, Vol: 29 (2). 323-330.
8. Alyemeni, M.N. A.A. Al-Helal and M.E. Hussain (1997). Investigation on the growth abnormalities of Medicago sativa L. under field conditions. Qatar University Science Journal. 16 (2).
9. Alyemeni, M.N. (1998). The effect of drought on growth and dry matter allocation in seedlings of Vigna ambacensis L. Journal of King Saud University. Vol. 10, Science, (1): 41-51.
10. Alyemeni, M.N. (1999). A check list of weeds in Al-Kharj area of Saudi Arabia. Pakistan Journal of Biological Sciences, 2 (1): 7-13
11. Alyemeni, M.N. and A.Y. Basahy (1999). Breaking of seed dormancy in Ducrosia anethifolia (DC.) Boiff. Pak. J. Bot. 31 (2): 247-252.
12. Alyemeni, M.N. and K.M. Zayed (1999). Ecology of some plant communities along Riyadh Al-Thumamah Road, Saudi Arabia. Saudi J. Bio. Sci. 6 (1): 9-26.
13. Alyemeni M.M. M.N.,Al-Farraj And A. Al-Farhan (2000). Ecological studies on Rawdhat system in Saudi Arabia II. Soil seed bank of Rawdhat Khorim. Pakistan Journal of Botany, 32 (2): 273-283.
14. Alyemeni, M.N. (2000). Ecological Studies on Sand dunes vegetation in Al-Kharj region Saudi Arabia. Saudi J. Biol. Sci. 7 (1): 64-88.
15. Alyemeni, M.N. and A.A. Al-Helal (2000). Some metabolic changes in germinated *Acacia farnesiana* L. seeds. Kuwait Journal Sci. Eng. Vol. 27 (2): 311-319.
16. Alyemeni, M.N. (2001). Ecology of some plant communities in Wadi Al- Ammaria, Riyadh, Saudi Arabia. Saudi J. Biol. Sci. 8 (2):111-123.
17. Alyemeni, M.N. (2002). Germinable soil seed bank of desert plant communities in Wadi Al-Ammaria,Riyadh, Saudi Arabia. Kuwait Journal Sci. Eng. Vol. 29 (2):111 -123.
18. Alyemeni, M.N. (2002). Effect of Cadmium, Mercury, and Lead on seed germination and early seedling growth of Vigna ambacensis L Indian journal of plant physiology 6 (2): 147-151.
19. Alyemeni, M.N. and A.A. Al-Helal (2002). Effect of Zinc Chloride and Lead on seed germination and early seedling growth of rice and alfalfa. Journal of King Saud University. Vol. 10, Science, (1): 41-51.
20. Alyemeni, M.N. and Hashem. A.R. (2006). Heavy metals & microbial Analysis of soil samples Collected from Aramco Gulf operations Company Al-Khafji, Saudia Arabia.Saudi journal biological sciences vol.13(2):129-1234.

### 2010

1. Alyemeni, Mohammad N., and Hassan,Sher (2010 )Biological spectrum with some others ecological attributes of the Flora and vegetation of the Asir Mountain of South West, Saudi Arabia. African Journal of Biotechnology: Vol. 9(34), pp. 5550-5559, 23 August, 2010.
2. Sher, Hassan., M.N Alyemeni; Yahya S. Masrahi and Arif Hussain Shah (2010). Ethnomedicinal and ethnoecological Evaluation of Salvadora persica L: A threatened medicinal plant in Arabian Peninsula. Journal of Medicinal Plants Research: Vol. 4 (12), pp. 1209-1215, 18 June, 2010
3. Sher, Hassan.,; Mohammad Alyemeni and Hazrat Sher (2010) FOREST RESOURCE UTILIZATION ASSESSMENT FOR ECONOMIC DEVELOPMENT OF RURAL COMMUNITY, NORTHERN PARTS OF PAKISTAN. Journal of Medicinal Plants Research: Vol. 4 (12), pp. 1197-1208, 18 June, 2010
4. Alyemeni, Mohammad N., and Hassan Sher (2010) Ethnobotanical and pharmaceutical Evaluation of Capparis spinosa L, validity of local folk and Unani System of Medicine. Journal of Medicinal Plants Research. Vol. 4(17), pp. 1751-1756
5. Sher, Hassan.,; Mohammad Alyemeni; and Hazrat Sher (2010 ) Effect of environmental factors on the yield of selected mushroom species growing in two different Agro ecological Zones. Saudi Journal of Biological Science. Science.Vol:17 (4) Pp: 321-326
6. Alyemeni, Mohammed., and Hassan Sher. (2010). IMPACT OF HUMAN PRESSURE ON THE POPULATION STRUCTURE OF PERSICARIA AMPLEXICAULE, VALERIANA, JATAMANSI, AND VIOLA SERPENS THE NATRALLY GROWING MEDICINAL PLANTS IN MALAM JABA, SWAT, PAKISTAN. Journal of Medicinal Plants Research: Vol. 4(20), pp. 2080-2091.
7. Sher, Hassan., and Mohammed Alyemeni. (2010). Ethno pharmaceutically important medicinal plants and its utilization in traditional system of medicine, observation from the Northern Parts of Pakistan. Journal of Medicinal Plants Research. Vol. 4(18), pp. 1853-1864.
8. Sher, Hassan.,, Mohammed Alyemeni and Faridullah (2010). Cultivation and domestication study of high value medicinal plant species (its economic potential and linkages with commercialization). African Journal of Agricultural Research. Vol. 5(18), pp. 2462-2470,
9. Alyemeni, Mohammad N., L. Wijaya, and Hassan Sher (2010). Some Observations on Saudi Medicinal Plants of Veterinary Importance. Journal of Medicinal Plants Research. Vol. 4(21), pp. 2298-2304.
10. Akram A. Ali and Mohammed N. Alyemeni (2010). Atmospheric Air Pollution Effects on Some Exhibited Plants at Aljubail Industrial. Australian Journal of Basic and Applied Sciences, 4(6): 1251-1263.

### 2011

1. Hassan, Sher and Mohammed Alyemeni (2011 ). Economically and Ecologically Important Plant Communities in High Altitude Coniferous Forest of Malam Jabba, Swat, Pakistan. Saudi Journal of Biological Sciences 18, 53–61.
2. Sher, Hassan., Mohammad Alyemeni and Kiramat Khan (2011). Cultivation of the Oyster Mushroom (*Pleurotus ostreatus* (Jacq.) P. Kumm.) in two different Agro-ecological Zones of Pakistan. African Journal of Biotechnology Vol. 10 (2), pp. 183-188.
3. Alyemeni, Mohammad N., A. Y. Basahy and Hassan Sher (2011). Physico-chemical analysis and mineral composition of some sesame seeds (*Sesamum indicum* L.) grown in the Gizan area of Saudi Arabia. Journal of Medicinal Plants Research Vol. 5(2), pp. 270-274.
4. Sher, Hassan., and Mohammed N. Alyemeni. (2011) Ecological investigation of the weed flora in arable and non arable lands of Al-kharj Area, Saudi Arabia. African Journal of Agricultural Research Vol. 6(4), pp. 901-906.
5. Alyemeni, Mohammad N., Hassan Sher, Mohamed A. El-Sheikh and Ebrahem M. Eid. Bioaccumulation of nutrient and heavy metals by *Calotropis procera* and *Citrullus colocynthis* and their potential use as contamination indicators. Scientific Research and Essays Vol. 6(4), pp. 966-976, 18 February, 2011
6. Sher, Hassan., Mohammad Elyemeni , Abdur Rehman Khan , Amjad Sabir. (2011). Assessment of local management practices on the population ecology of some medicinal plants in the coniferous forest of Northern Parts of Pakistan. Saudi Journal of Biological Sciences (2011) 18, 141–149
7. Sher, Hassan., and M. N. Alyemeni. (2011). Pharmaceutically important plants used in traditional system of Arab medicine for the treatment of livestock ailments in the kingdom of Saudi Arabia. African Journal of Biotechnology Vol. 10(45), pp. 9153-9159, 17 August, 2011
8. Iqbal, Muhammad., Kiramat Khan, Hassan Sher and Hidayat-ur-Rahman, Mohammad N. Alyemeni. (2011) Genotypic and phenotypic relationship between physiological and grain yield related traits in four maize (*Zea mays* L.) crosses of subtropical climate. Scientific Research and Essays Vol. 6(13), pp. 2864-2872, 4 July, 2011
9. Sher, Hassan., and Mohammed N. Alyemeni. (2011). Evaluation of anti-diabetic activity and toxic potential of *Lycium shawii* in animal models. Journal of Medicinal Plants Research Vol. 5(15), pp. 3387-3395, 4 August, 2011
10. Masrahi, Yahya S., Mohamad N. Alyemeni, Turki A. AL-TURKI, Osama H. SAYED. (2011). Ecophysiological mechanisms of succulent survival in natural conditions: photosynthetic carbon fixation in Caralluma acutangula (Decne. N.R.BR.). Polish Journal of Ecology (Pol. J. Ecol.) 59:3, 381–389.
11. Sher, Hassan., Mohammed Nasser Alyemeni and Leonard Wijaya. (2011). Ethnobotanical and antibacterial potential of *Salvadora persica* l: A well known medicinal plant in Arab and Unani system of medicine. Journal of Medicinal Plants Research Vol. 5(7), pp. 1224-1229, 4 April, 2011
12. AbdurRashid, Mohammad Farooq Swati, Hassan Sher, Mohammad N Al- Yemeni. (2011). Phytoecological evaluation with detail floristic appraisal of the vegetation arround Malam Jabba, Swat, Pakistan. Asian Pacific Journal of Tropical Biomedicine 461-467
13. Kafeel, Ahmad., Muhammad Ibrahim,. Zafar Iqbal Khan,. Yasir Rizwan,. Abid Ejaz, Asia Fardsous,. Sumaira Gondal,. Dong Jin Lee,. Mohammed Alyemeni. (2011). Effect of sewage water on mineral nutritive potential of six fodder species grown under semiarid conditions. Saudi Journal of Biological Sciences 18, 317–321
14. Alyemeni, Mohammad N. and Ibrahim A. Al-Muhaisen.(2011). Harmful effects of ambient Ozone in growth and productivity of two legume crops Glycine max, and Vigna simensis L. in Riyadh city, Kingdom of Saudi Arabia. Saudi Journal of Biological Sciences 18:5, 115-124

### 2012

1. Hayat, Shamsul., Mohd Irfan,. Arif Shafi Wani,. Mohammed Nasser Alyemeni. and Aqil Ahmad,(2012). Salicylic acids: Local, systemic or inter-systemic regulators. Plant Signaling & Behavior 7:1, 1–10.
2. Hayat, Shamsul,. Pragya Maheshwari,. Arif Shafi Wani,. Mohd. Irfan,. Mohammed Nasser Alyemeni,. Aqil Ahmad. (2012). Comparative effect of 28-homobrassinolide and salicylic acid in the amelioration of NaCl stress in Brassica juncea L. Plant Physiology and Biochemistry 53, 61-68. April 2012.
3. Masrahi, Y.S., Alyemeni, M.N., Al-Turki, T.A., Sayed, O.H. (2012). Structural and functional adaptations of the stem succulent Caralluma acutangula to its natural habitat. Kuwait J. Sci. Eng. 39(2A), 155-169. December 2012
4. Masrahi, Yahya S., Mohamad N. Alyemeni, Osama H. Sayed. 2012. Nurse association of the stem succulent *Caralluma acutangula* in its natural habitat. Ekológia (Bratislava) 31:1, 46–53.
5. Khan, Kiramat., Hassan Sher, Muhammad Iqbal and M.N. Alyemeni. Development And Release Of Indigenous Maize Hybrids To Enhance Maize Yield In North-West Frontier Province, Pakistan. African Journal of Biotechnology 11:11, 2759-2762, 7 February, 2012
6. Sher, Hassan., Mohammed N. AlYemeni and Khalid Awadhal-Mutairi. 2012. Uptake of nutrients and heavy metals in cultivated and non-cultivated plant under atmospheric air pollution of Al-jubail Industrial City, Saudi Arabia. African Journal of Agricultural Research 7:12, 1805-1811, 26 March, 2012
7. Varshney, Sugandha., Shamshul Hayat, Mohammed Nasser Alyemeni, and Aqil Ahmad. 2012. Effects of herbicide applications in wheat fields Is phytohormones application a remedy?. Plant Signaling & Behavior 7:5, 1–6; May 2012
8. Hayat, Shamsul., Mohammed Nasser Alyemeni, Syed Aiman Hasan. 2012. Foliar spray of brassinosteroid enhances yield and quality of *Solanum lycopersicum* under cadmium stress. Saudi Journal of Biological Sciences 19, 325–335. July 2012
9. Hayat, Q., Hayat, S., Alyemeni, M. N., and Ahmad, A. 2012. Salicylic acid mediated changes in growth, photosynthesis, nitrogen metabolism and antioxidant defense system in Cicer arietinum L. Plant Soil and Environment 58(9), 417-423. September 2012.
10. Hayat, Shamsul. Qaiser Hayat, Mohammed Nasser Alyemeni, Arif Shafi Wani, John Pichtel and Aqil Ahmad. Role of proline under changing environments. Plant Signaling & Behavior 7(11), 1–11; November 2012
11. Hayat, S., Yadav, S., Wani, A.S., Irfan, M., Alyemeni, M.N. and Ahmad, A. (2012). Impact of Sodium Nitroprusside on Nitrate Reductase, Proline Content, and Antioxidant System in Tomato under Salinity Stress. Horticulture, Environment and Biotechnology. 53(5), 362-367.
12. Hayat, S., Hayat, Q., Alyemeni, M.N. and Ahmad, A. 2012. Salicylic acid enhances the efficiency of nitrogen fixation and assimilation in Cicer arietinum plants grown under cadmium stress. Journal of Plant Interactions. DOI:10.1080/17429145.2012.751635

### 2013

1. Irfan, M., Hayat, S., Ahmad, A., and Alyemeni, MN. 2013. Soil cadmium enrichment: Allocation and plant physiological manifestations. Saudi Journal of Biological Sciences. 20(1), 1-10. January 2013.
2. Hayat, S., Hayat, Q., Alyemeni, M.N. and Ahmad, A. (2013). Nitrogen metabolism and activity of antioxidative enzymes in chickpea plants grown in cadmium amended soils. Pakistan Journal of Botany , 45(3): 835-841. MAY 2013
3. MN Alyemeni, S Hayat, L Wijaya, A Anaji (2013). Foliar application of 28-homobrassinolide mitigates salinity stress by increasing the efficiency of photosynthesis in Brassica juncea. Acta Botanica Brasilica 27 (3), 502-505. JUL 2013
4. Hayat, S., Hayat, Q., Alyemeni, M.N. and Ahmad, A. (2013). Proline enhances antioxidative enzyme activity, photosynthesis and yield of *Cicer arietinum* L. exposed to cadmium stress. Acta Bot. Croat. 72 (2), 323–335. OCT 2013
5. MN Alyemeni, IAA Almohisen (2014). Traffic and industrial activities around Riyadh cause the accumulation of heavy metals in legumes: A case study. Saudi Journal of Biological Sciences. <http://dx.doi.org/10.1016/j.sjbs.2013.09.007> Volume: 21 Issue: 2 Pages: 167-172. APR 2014
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