

CURRICULUM VITAE

NAME AHSANA DAR FAROOQ
DESIGNATION Professor (Pharmacology)
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ACADEMIC QUALIFICATION

Certificate/Degree	Year of Passing	Institution	Division
Ph.D. (Pharmacology)	1992	University of Cambridge, U.K.	
M.Phil (Pharmacology)	1989	University of Cambridge, UK.	
M.S. (Biology)	1981	University of Mo. St-Louis U.S.A.	3.65 GPA
M.Sc. (Genetics)	1973	University of Karachi	First
B.S.c. (Biology)	1971	Karachi Board	First
F.Sc.	1969	Karachi Board	First
Matric	1967	Karachi Board	Second

EMPLOYMENT RECORD OF PROFESSOR DR. AHSANA DAR FAROOQ

Position	Institution	Period	Work Description
Teaching Assistant	Biology Dept. Univ. of Missouri, St. Louis, U.S.A	1978-1981	Biology and Genetics Laboratories.
Cooperative Teacher	Genetics Dept. Univ. of Karachi	1981-1984	Lectures & labs. of Genetics. Conducted refresher courses for college teachers (Molecular Biology). Member Admission Committee.
Lecturer B-17	Genetics Dept. Univ. of Karachi	1984-1985 (22 nd Sept.)	Lectures & labs. of Cellular Physiology and Biochemistry, General Genetics and Physiological Genetics. Member Admission Committee, Board of Studies and Board of Faculty of Science.
Assistant Professor B-18	Genetics Dept. Univ. of Karachi	1985-1987 (1 st Sept.)	Lectures & labs. of Cellular Physiology and Biochemistry, General Genetics and Physiological Genetics. Member Admission Committee, Board of Studies and Board of Faculty of Science.
Assistant Professor B-18	H.E.J. Research Institute of Chemistry Univ. of Karachi	1988-2000 (23 rd May)	Supervision of M.Phil./Ph.D. students Maintenance of Animal House. Responsible for faculty meeting records. Interior designing of seminar room and Director's room.
Associate Professor B-19	H.E.J. Research Institute of Chemistry, ICCBS, University of Karachi	22-4-2000 - 25-12-2003.	Supervision of M.Phil./Ph.D. students. Maintenance of Animal House. Responsible for faculty meeting records. Provost Guest House. International Program Coordinator.
Professor B-20 now 21	Same as above	25-12-2003 to date	Same as above

RESEARCH EXPERIENCE

1. **Ph.D.** Thesis entitled “An *in vitro* study of pulmonary vascular reactivity and amine oxidase activity in the horse”, under the guidance of Dr. B.A. Callingham, Department of Pharmacology, University of Cambridge, England.
2. **M. Phil.** Thesis was conducted on the same animal and the objective was to see for how long the equine blood vessels remain viable in physiological solution.
3. During first year in Cambridge I did Part II courses in Pharmacology and Part II project was done under the guidance of Dr. M.J.W. Waring.
4. **M.S.** Thesis entitled “Changes in carboxypeptidase activity during aging and development of *Nippostrongylus brasiliensis*” under the guidance of Dr. R.I. Bolla, Department of Biology, University of Missouri-St. Louis, USA.
5. **M.Sc.** Thesis entitled “To study the affect of naked-neck gene on some economic traits of chicken”, under the guidance of FAO expert, Dr. Oscar Caceres.

TEACHING EXPERIENCE

1. **Teaching assistant** from (1978-1980) in the Department of Biology, University of Mo-St. Louis, USA.
2. **Cooperative Teacher** (1981-1984) in the Department of Genetics, University of Karachi, Pakistan. Later, appointed as **Lecturer** and than as **Assistant Professor** in the same department uptil November, 1987 before leaving for Ph.D. at University of Cambridge.
3. **MSc (Genetics) Thesis supervised:**
 - i) Ms. Munawar Sultana
Response of different varieties of *Glycine max* to heat shock (1987).
 - ii) Ms. Lubna Masood
A biochemical approach to compare the effects of 2,4,5 Trichlorophenoxy acetic acid in *Drosophila melanogaster* (1987).
4. **MSc (Genetics) Thesis examined:**
 - i) Ms. Soofia Mumtaz
De novo synthesis of soluble enzymes and effects of growth regulators in mung bean seeds. (1991).
 - ii) Ms. Durdana Parveen
Differential expression of enzymes during various stages of growth in mung bean seeds. (1992).
 - iii) Ms. Tasneem Iqbal
Effects of industrial pollutants on blood hematology and enzymes in men. (1993).

- iv) Ms. Saba Imtiaz
Enzymatic variations in normal and lung cancer individuals due to tobacco intake. (1995).
 - v) Ms. Aiysha Abid
Differential protein pattern in aged and after ripened mung bean (*Vigna radiata*) seeds. (1997).
 - vi) Ms. Saeeda Chandio
Effects of exogenous phytohormones on development and germination of aged and after ripened mung bean seeds. (1998)
 - vii) Ms. Zartab Aslam
Effect of tobacco smoke on lipid peroxidation, antioxidant and hydrolytic enzymes in Diabetic and healthy individuals. (2002).
 - viii) Tasneem Shabbir
Pedigree analysis, lipid peroxidation and antioxidant enzyme profile in depressed and control subjects. (2003).
5. **Lectures on Genetic engineering** (1994 to 2005) to the students of H.E.J. Research Institute of Chemistry.
 6. **Interdepartmental Cooperative Teacher** (Jan. – May, 2004) Developmental Genetics (Genet 626, 2 credit hr.Theory only) to MSc final students of Department of Genetics, University of Karachi.
 7. **Interdepartmental Cooperative Teacher** (July – October, 2004) Research Techniques (Genet 639, 2 + 1 credit hr.Theory and Practical) to MSc final students of Department of Genetics, University of Karachi
 8. Lectures on Chromosome Structure & Function (August, 2006 to date) to the M.Phil. students of Dr. Panjwani Center for Molecular Medicine & Drug Research.
 9. Lectures on Gene Expression and its Regulations (April, 2007 to date) to the M.Phil. students of Dr. Panjwani Center for Molecular Medicine & Drug Research.

EXAMINER

1. Pharmacology Examiner. B. Pharm (3rd.year) on 9 and 12th December 2005. Faculty of Pharmacy, Hamdard University, Karachi.
2. Evaluation / Expert opinion for registration of **five drugs** under the drugs ACT 1976- Ministry of Health, Pakistan, December, 2005.
3. Pharmacology Examiner. 2nd Professional Bachelor of Eastern Medicine & Surgery on 6th March 2006. Faculty of Eastern Medicine, Hamdard University, Karachi.

4. Pharmacology Examiner. 2nd Professional B.E.M.S. on 2rd March 2007. Faculty of Eastern Medicine, Hamdard University, Karachi.
5. Pharmacology Examiner. 2nd Professional M.B.B.S. on 4th June 2008. Faculty of Health & Medical Sciences, Hamdard University, Karachi.
6. External Examiner of Pharmacology (M.Phil) thesis of Ms. Aisha Azmat on 6th October 2008. Faculty of Pharmacy, Hamdard University, Karachi.
7. External Examiner of Pharmacology (PhD) thesis entitled “Pharmacological basis for the medicinal use of *Berberis vulgaris* and *Bergenia ligulata* in urolithiasis by Ms. Samra Bashir on 4th November 2008, Aga Khan University, Karachi, Pakistan.

CURRENT RESEARCH ACTIVITIES

Currently, **nine students** are working for their M.Phil. / Ph.D. degrees in following areas:

- a) Anti-depressants and other pharmacological activities from terrestrial and marine plants.
- b) Clinical use of antidepressants and its relations with monoamine oxidase levels in platelets from depressed and schizophrenic patients from Pakistan.
- c) Pharmacogenetics of depressed and schizophrenic patients in local population.
- d) Anti-inflammatory activities from natural products and its mechanism of action at molecular level.
- e) Anti-cancer activities from natural products and synthetic compounds.
- f) Clinical trials of Anti-Leishmanial preparations derived from natural products.

FUTURE AREA OF INTEREST

Pharmacogenetics: Its relation to diseases and drug response in Pakistani population.

M.Phil. AWARDED TO THE FOLLOWING:

1. Mrs Farah Rezapour: Thesis entitled “Spasmolytic, anti-inflammatory and analgesic activities of the essential oil from *Zataria multiflora*.” (2000).
2. Mr. Shahram Behbahanian: Thesis entitled “Hypotensive activity of *Mimusops elengi* and its mechanism of action in rats.” (2000).
3. Mr. Ishfaq Ali Bukhari Thesis entitled “Comparative study of antidepressant activities between commercially available drugs and herbal preparations.” (2002).

Ph.D. AWARDED TO THE FOLLOWING:

1. Mrs. Shabana Channa thesis entitled “Evaluation of *Alstonia scholaris* and *Bacopa monniera* for broncho-vasodilatory activity.” (2001).
2. Miss Shagufta Khatoon thesis entitled “Investigation of anti-depressant agents from *Areca catechu* and *Nigella sativa*.” (2002).
3. Ms. Hina Saeed Baig thesis entitled “Pharmacological activities of *Sargassum* and study of associated harmful dinoflagellates in the coastal waters of Pakistan”. (2004). (Co-supervisor).
4. Ms. Talat Roome thesis entitled “Anti-inflammatory activity of *Aegiceras corniculatum* and its mechanism of action using *in vivo* and *in vitro* systems”. (2008).

RESEARCH GRANTS

1. Galaxo/Wellcome Pakistan Limited, partially funded a project entitled “Evaluation of *Alstonia scholaris* and *Bacopa monniera* for broncho-vasodilatory activity.” Rs. 200000, (0.2 million), 1993-1995, Completed.
2. Office of Naval Research (ONR) is supporting a project on pharmacological activities from marine organisms. Rs. 600000, (0.6 million), 1997-1999, Completed.
3. Ministry of Science and Technology, Pakistan is funding a Pakistan-Kazakhstan joint project entitled Graduates / Post Graduates Training Program for 2-3 months in the field of Pharmacology. Rs. 1870000 (1.87 million) (1998- completed).
4. Pakistan Science Foundation-S-Ku/Chem (367)- entitled “Direct and indirect electrochemical attack on cancer cells”. Rs. 803816 (0.803816 million) (1998-completed).
5. Japan Health Science Foundation entitled “Research and Development of Anti-Leishmania Drugs from Natural Medicines” (Co-PI).Rs.829321.74 (0.829321 million) (2004-2006). Completed.
6. Higher Education Commission “Studies on Reactive Intermediates and antioxidants” (Co-PI) Rs.3156630 (3.156630 million) (2006-2008).

WORKSHOPS ATTENDED

1. Postgraduate training course on nuclear and other advanced techniques in agricultural and biological research held from Nov. 13-26, Nuclear Institute for Agriculture and Biology, Faisalabad, (1982).
2. International symposium and workshop on the applications of genetic engineering to basic biology and agriculture held from Oct. 21-28, University of Punjab, Lahore, (1984).
3. International Human genome diversity workshop held from Oct.9-14, Biomedical and genetic engineering division Dr. A.Q. Khan Research Laboratories, Islamabad, (2000).

- 4 Real time PCR workshop held on August 15, Department of Genetics, University of Karachi (2005).
- 5 Orientation Course in Psychiatry held on August 25, Department of Psychiatry Sindh Government Lyari General Hospital and Dow University of Health Sciences, Karachi (2005).
- 6 1st International Workshop on Molecular Pharmacology and Immunology”held from 4-14, August, Medicinal and Aromatic Plants Research Institute, National Center for Research Khartoum, Sudan (2008).

WORKSHOP ORGANIZED

1. “Workshop on Recent Advances in Psychopharmacology and its Impact on the Management of Psychiatric Illnesses” from February 19 - March 1, 2001 held at H.E.J. Research Institute of Chemistry University of Karachi and from March 12 to 14, 2001 in Islamabad at PIMS and Polyclinic. This was organized under TOKTEN program and Dr. Mujeeb Uddin Shad, Assistant Professor, Department of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh, Pennsylvania, U.S.A
2. Course coordinator “H.E.J. –COMSTECH (CPC)-TWAS International Workshop on the development of medicines from plants” from 8-13 September, 2003 held at H.E.J. Research Institute of Chemistry University of Karachi.
3. Course coordinator “Pak-Japan Workshop on Leishmaniasis-Present Status and its Control” from 14-15 January, 2004 held at H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi.
4. Course coordinator “Pak-China Binational Workshop on the Pharmacology and Standardization of Herbal Medicines” from 22-27 October, 2004 held at H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi.

TRAINING /COLLABORATIONS

Trained in handling of human cancer cell lines Dr. Qasim Mehdi’s group at Biomedical and Genetic engineering Division, Dr. A.Q. Khan Research Laboratories, Islamabad.

VISITING SCIENTIST

1. Institute of Pharmacognosy and Pharmacology, University of Lausanne, Switzerland. Screening for anti-fungal and molluscicidal activities in plant and animal extracts. Also did brine shrimp toxicity assays. (September 1992, for a period of 1-month).
2. National Cancer Institute (NCI), Frederick Maryland, U.S.A. *In vitro* screening for anti-cancer agents (April to July 1994, for a period of 3-months). There is an official collaboration between H.E.J Research Institute of Chemistry and NCI. Professor Atta-ur-Rahman has given me the responsibility to look after it.
3. DAAD scholarship Tuebingen University, Germany. *In vitro* evaluation of cyclooxygenase inhibitors (June to August 1998, for a period of 2-months).

4. Institute of Medicinal Plant Development (IMPLAD), Chinese Academy of Medical Sciences, Peking Union Medical College, Beijing China (May to June, for a period of over 1 month 2007).

TRAINING OF FOREIGN STUDENTS / SCIENTISTS:

From Tuebingen University, Germany

1. Alexander Ploss (1999).
2. Alexander Weber (1999).
3. Cornelia Kilchert (April 2004).
4. Moritz Menzel (August 2004).
5. Felix Gruenewald (2 weeks in August 2004).
6. Jonas Mueller (6 weeks August – September 2007)

From Institute of Phytochemistry Karaganda, Kazakhstan

1. Dr. Pak Ruslan Nikolaevich (March 9 to April 30-2000)
2. Mr. Tursunbekova Annelya Ernazarovna (March 9 to April 30-2000)
3. Ms. Khasenov Bekbolat Baurzhanovich (March 9 to April 30-2000)
4. Dr. Dina D. Kussainova (March 1 to June 1-2001)
5. Dr. Nauan S. Zhangabylov (March 1 to June 1-2001)
6. Dr. Rustam M. Aksartov (March 1 to June 1-2001)
7. Ms. Zhamilya K. Assanova (March 1 to June 1-2001)

From Kazakh National University of Al-Farabi, Almaty, Kazakhstan

1. Ms. Zhanat K.Zhumabekovna (December 15 -2003 to June 5-2004)
2. Ms. Rizvangul Iminova (November 1-2007 to February 28-2008)

From Pharmaceutical Research Department Myanmar Scientific and Technological Research Department Yangon, Myanmar

1. Dr. Khin Khin Win Aung (December 12-2006 to March 12-2007)

From Directorate of Laboratory Services, Tanzania Food and Drugs Authority, P. O. Box 77150, Dar es Salaam, Tanzania

1. Mr. Danstan Hipolite Shewiyo (May 8 to 8 June-2007)

From Biotechnology Department Technological University Kyaukse, Myanmar

1. Dr. Khin Mar Mya (January 15-2008 to November 1-2008)
2. Ms. Chan Myae Nyein (September 5 2008 to October 5-2008)

From Department of Biological Sciences, Covenant University, Ota, Nigeria

1. Abolaji Amos Olalekan (October to December. 2008)

Total Number of Foreign Students / Scientists Trained = 20

PATENTS

1. B.S. Siddiqui, **A. Dar** and S. Faizi
A process for the preparation of a herbal composition for the skin treatment of farm and pet animals. CBR # 21 (2003). The Patent Office, Govt. of Pakistan.
2. S. Faizi, **A. Dar**, S. Naqvi, T. Roome, S. Zikr-ur-Rehman and M. Ali
A process for preparing efficient and safe antioxidant and analgesic composition containing xanthone-C-glucoside (*Mangiferin*) from *Bombax ceiba*, Patent Application No. 633/2005, S.I. No.

MEMBERSHIP / HONARARY POSITIONS

Chemical Society of Pakistan (Life member).

Member American Society for Pharmacology and Experimental Therapeutics.

Member Faculty of Science, University of Karachi.

Member Academic Council, University of Karachi.

Member Board of Governors for Orthopaedic & Medical Institute for Master of Surgery, Karachi (2004-2007).

Visiting Professor, Institute of Medicinal Plant Development (IMPLAD), Chinese Academy of Medical Sciences, Peking Union Medical College, Beijing China (2005-till to date).

Member Board of Studies of Department of Genetics, University of Karachi (2006-2009).

Member BASR Ziauddin University, Karachi (2007- till to date).

Judge for Biology section for the “8th Inter Collegiate and 5th Sindh Inter Board Science Fair” organized by Board of Intermediate Education Karachi held on 29th Feb. to 2nd March 2008 at Women Sports Complex Gulshan-e-Iqbal, Karachi.

Member working group on Pharmaceutical Sector, Vision 2030 for Pakistan, Planning and Development Division, Government of Pakistan (2007 till to date))

Member Independent Ethics Committee, ICCBS, University of Karachi (2009).

OTHERS POSITIONS

1. Maintenance of the faculty meeting records (1993 to May 2004).
2. Planning and interior designing of the following at H.E.J. Research Institute of Chemistry.
 - a) Seminar room (1994).
 - b) Canteen (1995).
 - c) Conference/Director’s room (1997).

3. To organize social activities for the faculty members (1997).
4. Provost guesthouse International Centre for Chemical Sciences (1999-to Sept. 2005).
5. International Program Coordinator (2003 to date).
6. Animal care and use committee (August 2005 to date).
7. Ethical Committee for the use of animals and biological samples (August 2005 to date).
8. Committee to critically evaluate / review the research projects Nov. 2005.
9. Interview panel for the recruitment of future faculty members of PCMD (October. 2005 to date).
10. Interview panel for the admission of candidates for PCMD and HEJ Research Institute of Chemistry (October 2005 to date).
11. Board of Studies sub committee to prepare course contents PCMD, October 2005.
12. Purchase Committee for strengthening of HEJRIC Phase-II Project, October. 2005.
13. Committee on Admission and interview (October, 2005 to date).
14. Safety Committee of International Center for Chemical & Biological Sciences (2006 to date)

LIST OF PUBLICATIONS

Impact factor = 48.443 (citation index = 162)

1. **A. Dar** and R.I. Bolla "Carboxypeptidase-like activity during development and aging of *Nippostrongylus brasiliensis*" *Comp.Biochem.Physiol.* (1984) 78B: 157-162.
2. M.J. McLean, **A. Dar** and M.J. Waring "Differences between sites of binding to DNA and strand cleavage for complexes of Bleomycin with iron or cobalt" *J.Mol.Recognition.* (1989) 1: 184-192.
3. F.N. Naqvi, M. Sultana and **A. Dar** "Effect of heat shock treatments on some biochemical parameters in different varieties of soybean (*Glycine max*)". *Pak.J.Bot.* (1992) 24 (2): 201-208.
4. **A. Dar** and B.A. Callingham "In vitro amine oxidase metabolism by horse lung and intrapulmonary blood vessels". Proceedings 3rd International Symposium on Protein Structure Function Relationship Editors: Z.H. Zaidi and A. Abbasi and D.L. Smith. Publishers TWEL, Karachi. (1993) pp 75-93.
5. S. Channa, Atta-ur-Rahamn and **A. Dar** "Studies of *Bacopa monniera* induced relaxations in rats, rabbits and guinea-pigs using *in vivo* and *in vitro* systems". Proceedings 1st Biennial National Conference on Pharmacology and Therapeutics, Editors: S.I. Ahmad and S.P. Ahmad Publishers B.C.C. & T. Press University of Karachi. (1995) pp 33-37.
6. **A. Dar** and B.A. Callingham "Deamination of methylamine and benzylamine by monoamine oxidase in equine lung". *Pak.J.Biochem.Mol.Biol.* (1995) 28: 41-53.
7. **A. Dar** and S. Khatoon "Antidepressant effects of ethanol extract of *Areca catechu* in rodents". *Phytotherapy Research* (1997) 11: 174-176.
8. **A. Dar** and S. Khatoon, G. Rahman and Atta-ur-Rahman "Anti-depressant activities of *Areca catechu* fruit extract". *Phytomedicine* (1997) 4 (1): 41-45.
9. **A. Dar** and S. Channa "Relaxant effect of ethanol extract of *Bacopa monniera* on trachea, pulmonary artery and aorta from rabbit and guinea pig". *Phytotherapy Research* (1997) 11: 323-325.
10. **A. Dar** and S. Channa "Bronchodilatory and cardiovascular effects of an ethanol extract of *Bacopa monniera* in anaesthetized rats". *Phytomedicine* (1997) 4 (4): 319-323.
11. Atta-ur-Rahman, M.I. Choudhary, F. Asif, A. Farooq, M. Yaqoob and **A. Dar**, "Microbial transformation of sarsasapogenin by *Fusarium lini*". *Phytochemistry*, (1998) 49: 2341-2342.
12. R. Saleem, M. Ahmad, S.A. Hussain, **A. Dar**, A. Saeed and S.I. Ahmad "Preliminary pharmacological studies on some traditional herbal medicines". *Pakistan Journal of Pharmacology*, (1998) 15 (2): 49-55.

13. **A. Dar** and S. Channa "Calcium antagonist activity of *Bacopa monniera* on vascular and intestinal smooth muscles of rabbit and guinea-pig". *J. Ethnopharmacology* (1999) 66: 167-174.
14. **A. Dar**, S. Behbahanian, A. Malik and N. Jahan "Hypotensive effect of the methanolic extract of *Mimusops elengi* in normotensive rats". *Phytomedicine* (1999) 6(5): 373-378.
15. **A. Dar** and S. Khatoon "Behavioral and biochemical studies of dichloromethane fraction from *Areca catechu* nut" *Pharmacology, Biochemistry and Behavior* (2000) 65(1): 1-6.
16. **A. Dar**, T. Roome, F. Rezapour, S. Behanian, A. Sherkheli, M.I. Choudhary, S.A. Ali, S. Anjum, S. Ahmad, F. Akhtar, S. Ali, A. Majeed, R. Swaleh, Atta-ur-Rahman, M.S. Ali, M. Saleem, M. Jahangir and K. Pervez. "Preliminary pharmacological evaluation of marine organisms collected from coastal areas of Karachi." Proceedings of the National O.N.R. Symposium on Arabian Sea as a resource of biological diversity (Sept. 18-20, 2000) Editor Viqar Uddin Ahmad. pp. 1-10.
17. R. Saleem, S. Faizi, B.S. Shaheen, M. Ahmad, S.A. Hussain, A. Qazi, **A. Dar**, S.I. Ahmad, M.H. Qazi, S. Akhtar and S.N. Husnain. "Hypotensive effect of chemical constituents from *Aloe barbadensis*". *Planta Medica* (2001) 67: 757-760.
18. K.M. Khan, S. Rahat, M.I. Choudhary, Atta-ur-Rahman, U. Ghani, S. Perveen, S. Khatoon, **A. Dar** and A. Malik. "Synthesis and biological screening of 2-substituted 5,6-dihydro-5-oxo-4H-1,3,4-oxadiazine-4-propanenitriles and of their intermediates". *Helvetica Chimica Acta* (2002) 85: 559-570.
19. V.U. Ahmad, H. Hussain, J. Hussain, A.R. Jassbi, I.A. Bukhari, A. Yasin, M.I. Choudhary and **A. Dar**. "New bioactive diterpenoid from *Euphorbia decipiens*". *Z. Naturforsch* (2002) 57b: 1066-1071.
20. S. Channa, **A. Dar**, M. Yaqoob, S. Anjum, Z. Sultani, Atta-ur-Rahman. "Broncho-vasodilatory activity of fractions and pure constituents isolated from *Bacopa monniera*". *J. Ethnopharmacology* (2003) 86: 27-35.
21. Zh.K Asanova, E.M Suleimenov, G.A. Atazhanova, A.D. Dembitskii, R.N. Pak, **A. Dar** and S.M. Adekenov. "Biological activity of 1,8-cineole from levant wormwood". *Pharmaceutical Chemistry Journal* (2003) 37(1): 28-30.
22. A. Mohyuddin, Q. Ayub, S Siddiqi, D.R. Carvalho-Silva, K Mazhar, S Rehman, S Firasat, **A. Dar**, C Tyler-Smith and SQ Mehdi. "Genetic instability in EBV-transformed lymphoblastoid cell lines". *Biochimica et Biophysica Acta* (2004) 1670:81-83.
23. **A. Dar** and M. I. Choudhary (Editors). Development of medicines from plants: A Practical Guide (2004). ISBN 969-8113-07.
24. **A. Dar**. Guide Lines: Animal-care and use committee at H.E.J. Research Institute of Chemistry, University of Karachi (2004).
25. S. Channa, **A. Dar**, S. Ahmed, and Atta-ur-Rahman "Evaluation of *Alstonia scholaris* leaves for broncho-vasodilatory activity". *J. Ethnopharmacology* (2005) 97: 469-476.

26. **A. Dar**, S. Faizi, S. Naqvi, T. Roome, S. Zikr-ur-Rahman. "Analgesic and antioxidant activity of mangiferin and its derivatives: the structure activity relationship". *Biol.Pharm.Bull.* (2005) 28(4): 596-600.
27. V.U. Ahmad, H. Hussain, I.A. Bukhari J. Hussain, A.R. Jassbi, A. Yasin, and **A. Dar**. "Antinociceptive diterpene from *Euphorbia decipiens*". *Fitoterapia* (2005) 76: 230-232.
28. **A. Dar**, K.M. Khan, H.S. Ateeq, S. Khan, S. Rahat, S. Perveen, and C.T. Supuran. "Inhibition of monoamine oxidase-A activity in rat brain by synthetic hydrazides: Structure activity relationship (SAR)". *J.Enzyme Inhibition and Medicinal Chemistry* (2005) 20(3): 269-274.
29. H. S. Baig, S. M. Saifullah and **A. Dar**. "Seaweed resources of Pakistan". Proceeding of the regional seminar "Utilization of marine resources" pp. 159-173, Islamic educational, scientific and cultural organization-ISESCO, (2005).
30. S. Channa, **A. Dar**, S. Anjum, M. Yaqoob and Atta-ur-Rahman. "Anti-inflammatory activity of *Bacopa monniera* in rodents". *J. Ethnopharmacology.* (2006) 104: 286-289.
31. H.S. Baig, S. M. Saifullah and **A. Dar**. "Occurrence and toxicity of *Amphidinium carterae* Hulburt in the northern Arabian Sea". *Harmful Algae* (2006) 5(2): 133-140.
32. M. O. Ismail, **A. Dar** and A. Suria. "Depression: prevalence, pathogenesis and treatment options". *Pak. J. Pharm.* (2006) 23(2): 55-64.
33. **A. Dar**, H.S. Baig, S.M. Saifullah, V. U. Ahmed, S. Yasmeen and M. Nizamuddin "Effect of seasonal variation on the anti-inflammatory activity on *Sargassum wightii* growing on the N. Arabian Sea coast of Pakistan." *Journal of Experimental Marine Biology and Ecology* (2007) 351: 1-9.
34. T. Roome, **A. Dar**, S. Naqvi, S. Ali, M.I. Choudhary "A study on antioxidant, free radical scavenging, anti-inflammatory and hepatoprotective actions of *Aegiceras corniculatum* (stem) extracts." *Journal of Ethnopharmacology* (2008) 118 (3): 514-521.
35. T. Roome, **A. Dar**, S. Naqvi, S. Ali, M.I. Choudhary "*Aegiceras corniculatum* extracts suppresses initial and late phases in rat paw and attenuates the production of eicosinoids in rat neutrophils and human platelets " *Journal of Ethnopharmacology* (2008) 120: 248-254.
36. M. Mohammad, **A. Dar**, S. Jahangir, I. A. Tahiri, M. S. Subhani and K. M. Khan. "In quest of friendly free radicals: Reactions of iodine atom free radicals with some biologically important compounds". Chapter 27 *Innovations in Chemical Biology* Edited by B. Sener. Springer Science + Business Media B. V. (2008). Book ID 158318.

BOOKS EDITED

1. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume I (A-D, 1997) Published by COMSTECH-ISESCO.
2. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume II (Egypt, 1998) Published by COMSTECH-ISESCO.
3. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume III (G-I, 1999) Published by COMSTECH-ISESCO.
4. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume IV (J-L, 2000) Published by COMSTECH-ISESCO.
5. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume V (Malaysia, Part A 2002) Published by COMSTECH-ISESCO.
6. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume V (Malaysia, Part B 2002) Published by COMSTECH-ISESCO.
7. **Ahsana Dar** and Atta-ur-Rahman “Directory of Active Scientists in OIC Member States and Their Recent Scientific Publications”. Volume V (Malaysia, Part C 2002) Published by COMSTECH-ISESCO.
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