

DR. ABDUL JABBAR

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PERSONAL:

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| Date of Birth: | 01-01-1963 |
| Marital Status: | Married |
| Nationality | Pakistani |
| Place of Birth | Multan, Pakistan |
| CNIC No. | 42201-6217759-3 |

EDUCATION:

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| <i>Ph.D. (Colour Chemistry)</i> (University of Leeds, UK) | 1998 |
| <i>M. Phil. (Organic Chemistry)</i> (H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.) | 1994 |
| <i>M. Sc. (Organic Chemistry),</i> (University of Agriculture Faisalabad, Pakistan) | 1988 |
| <i>B.Sc. (Chemistry, Zoology, Microbiology),</i> (University of Karachi, Karachi -75270, Pakistan.) | 1986 |

TECHNICAL QUALIFICATION:

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| <i>Chartered Colourist (C.Col.) ASDC, SDC, Bradford UK,</i> | 2003 |
| <i>Functional Organic Material Technology Course</i> <i>Osaka Municipal Technical Research Institute, OSAKA, JAPAN)</i> | 2000 |
| <i>Laboratory Accreditation: ISO/IEC 17025</i> (Accessor Training Course conducted by NORWEGIAN ACCREDITATION (NA) | 2005 |
| <i>Certificate of Competence in Colouration and Shade Matching</i> (Cotton) | |
| <i>Certificate of Competence in Colouration and Shade Matching</i> (Polyester) | |
| <i>Certificate of Competence in Colour Fastness Testing of Textiles</i> (Society of Dyes and Colourists, Bradford, UK) | 2005 |

MANAGEMENT/LABORATORY EXPERIENCE:

Assistant Professor, Textile Chemistry Research Laboratory
May. 2010- Present
(H. E. J. Research Institute of Chemistry, International Centre for Chemical and
Biological Sciences, University of Karachi.)

Main responsibilities include;

- *Supervising 03 Ph.D. students.*
- *Supervising the textile testing facilities at the institute.*
- *Working on the development of University-Industry relationship with the textile industry*

(Technical Director, Textilab International, Karachi)

Nov. 2008- Feb. 2010

Main responsibilities include;

- *Consultancy services to wet-processing mills.*
- *Consultancy Services for establishing new textile testing and quality control Labs and up gradation of existing Labs.*
- *Development and application of textile auxiliaries.*

(Education Consultant, PHMA Institute of Knitwear Technology, Karachi, Pakistan)

(A joint project of Pakistan Hosiery Manufacturer's Association (PHMA) and TDAP, Government of Pakistan)

Dec. 2007- Nov. 2008

Main responsibilities include;

- *Designing and setting up a Textile Testing Laboratory at PHMA Institute of Knitwear Technology, Karachi (IKTK).*
- *Designing a development project to be funded by EDF (Export Development Fund) through Ministry of Textiles.*
- *Selection and appointment of staff*
- *Co-ordinate between the PHMA and the institute.*
- *Redesign the courses and supervise the admission campaign*

(Principal, S.M.A. Rizvi Textile Institute, Karachi, Pakistan)

(A joint project of Pakistan Hosiery Manufacturer's Association and TDAP, Government of Pakistan)

June 2004-May 2007

Main responsibilities include;

- *Designed and established a state of the art colouration and testing Lab. in the institute.*
- *Heading Lab. Testing facilities.*
- *Designed a development project, arranged funding and donations for the institute.*
- *Supervised the development project of the S.M.A. Rizvi Textile Institute, a project of TDAP.*
- *Arranged a donation worth around 10.0 million in the form of latest machinery from the world renowned machinery manufacturers.*
- *Got the B.S. Program approved and affiliated from University of Karachi*
- *Selection and appointment of staff.*

- *Coordinating with the Board of Governors of the Institute, University of Karachi, Sindh Board of Technical Education and TDAP (Government of Pakistan).*
- *Teaching Cellulosic Dyeing, Colour Science, Synthetic Fiber Dyeing, Dyestuff Chemistry and other related courses.*
- *Associated with H.E.J. Research Institute of Chemistry*
- *Presently supervising Ph.D. research students on part time basis.*

Head of Textile Dyeing and Printing Department Sep.2001-June 2004
(Textile Institute of Pakistan (T.I.P.), Karachi, a joint project of APTMA and TDAP)

- *Apart from General teaching and research activities, I designed and started M.S. Textile Chemistry program where Prof. Chris Hawckyard (University of Manchester) was external program coordinator.*

Head of Dyeing (Textile Chemistry) Department Oct. 1999-Aug.2001
(National Textile University Faisalabad, A project of APTMA and Ministry of Industries, Government of Pakistan.)

- *Teaching the Chemistry of Dyes and Pigments to Masters and B.Sc. Students.*
- *Heading Lab. Testing facilities, Supervising the final year research students doing industrial projects.*
- *Had been involved in curriculum development, Disciplinary Committee, Hostel in charge and also worked as acting Principal for some time.*

CONSULTANCY EXPERIENCE:

Main Projects;

- *Worked as a consultant with S.M. Denim Karachi.*
- *Worked as consultant at United Towel Exporters, Karachi Pakistan; designed and established a Research/Testing and Quality Control lab.*
- *Presently engaged with Sine international, a dye-house with a capacity of processing more than 300,000 kgs per month. Doing their performance audit and working to improve their cost effectiveness. Designing and improving their R&D laboratory.*
- *Worked as a consultant in Al-Karam Textiles, a continuous dyeing unit.*
- *Designed and established a state of the art R&D/ Colouration and Testing Lab. in S.M.A. Rizvi Textile Institute Karachi. Main responsibilities included the supervision of testing facilities, selection and appointment of Lab staff, selection and installation of continuous and exhaust dyeing instruments along with testing machines according to international standards.*
- *Worked as a consultant with PHMA-IKTK institute, Karachi.*

RESEARCH/LABORATORY EXPERIENCE:

Research Supervisor
(Third World Centre for Chemical Sciences, University of Karachi)
Supervising Three Ph.D. research students in the field of my research area.

Research Supervisor
(Textile Institute of Pakistan, Karachi)
Supervising Five M.S, Textiles research students in the field of my research area

JICA Participant in “Functional Organic Material Technology Course”
(Osaka Municipal Technical Research Institute, OSAKA, JAPAN)
Aug.2000 - Dec.2000

Synthesis of different dyestuffs, Dyeing techniques, Waste water treatment, Analysis of water, Synthesis and analysis of detergents and shampoos, Instrumental analysis (FT-IR, UV, NMR, LC, GC, GCMS, ECA, SEM etc.), Visits to several textile and dye manufacturing industries).

Senior Research Officer **March1999-Oct. 1999**
(H.E.J. Research Institute of Chemistry, University of Karachi)
Worked on the establishment of a new colour chemistry laboratory, synthesis and production of some auxiliaries and guiding postgraduate students.

Postgraduate Research Student **Nov.,1994-Dec.1998**
(Department of Colour Chemistry and Dyeing
University of Leeds, Leeds LS2 9JT.)
Pretreating cellulose with different cross-linking agents, using commercial and modified reactive dyes for the enhancement of conventional reactive dyeing. The reactive dyeing is a big industrial problem as the use of high salt and alkali concentration results in the high concentration of salt and unreacted hydrolysed dye in the industrial effluent creating environmental problems. A good approach to solve these problems and achieve environmentally friendly dyeing was successfully practised in my research project. Some commercially available as well as specially synthesised cross-linkers were used in this study. Capillary Electrophoresis, FT-IR, FT-Raman, HPLC and various other experimental techniques were extensively used.

Junior Research Fellow **Oct.1990-June1992**
(H.E.J. Research Institute of Chemistry, **Jan.1994-Oct. 1994**
University of Karachi, Karachi, Pakistan.)
Structural studies of Organic compound using 1-D and 2-D N.M.R. (COSY, HOHAHA, X-COSY, HMBC, HMQC, NEOSY, BB, DEPT etc.), U.V.,I.R., EIMS, HREIMS, FAB⁺,HPLC, VLC, TLC and various other separation techniques.

M.Sc. Dissertation **June .1988-Oct.1988**
(Department of Chemistry, University of Agriculture
Faisalabad, Pakistan.)
Isolation of organic compounds by column chromatography and characterisation by using NMR.

MEMBERSHIPS:

- 1) **Senior Member, American Association of Textile Chemists and Colourists (AATCC), USA.**
- 2) **Society of Dyers and Colourists (SDC), Bradford, England.**
- 3) **Society of Chemistry and Industry, London, England.**
- 4) **Infra-red and Raman discussion Group, UK.**

AWARDS/HONOURS:

- **Chairman Society of Dyers and Clourists (Karachi Region, 2005-2007t)**
- **Lead auditor for ISO 17025 laboratory accreditation)**
- **Awarded JICA fellowship for the year 2000 in functional organic material technology course in Osaka Japan.**
- **Awarded merit scholarship for postgraduate studies abroad, from the Government of Pakistan.**

LANGUAGES

- *English (Good writing, reading and speaking)*
- *Japanese (Hiragana writing and reading and fair speaking, learnt upto level four).*

RESEARCH PUBLICATIONS:

- 1) Antimicrobial activity of the essential oil of *Carum roxburghianum.*, **A. Jabbar**, R. Ahmad, F. Kausar and A. Ahmad. *Pak. J. Agr. Sc.*, **26**, 1 (1990).
- 2) Antifungal steroidal lactones from *Withania coagulance*, Choudhary, M. I., Dur-e-Shahwar, Parveen, Z., **Jabbar, A.**, Ali, I. and Atta-ur-Rahman., *Phytochemistry*, **40**, 4, 1243 (1995).
- 3) Cinnamates and Coumarines from the leaves of *Murraya paniculata*, Atta-ur-Rahman, Shabbir, M., Sultani, S. Z., **Jabbar, A.** and Choudhary, M. I., *Phytochemistry*, **44**, 4, 683 (1997).
- 4) Dyeing polyamide and cellulosic fibres by covalently fixing nucleophilic dyes with crosslinking agents, Lewis, D. M., Lei, X. P., Ho, Y. C., Jabbar, A. and Wang, Y.N. Colorchem 96 Conference, Spinderlov Myln, Czech Republic, *Book of Papers*, (1996) pp 32-35.
- 5) The use of 1,3,5- triacroylamino-hexahydro-s-triazine (FAP) to improve reactive dyeing of cotton , Jabbar, A. and Lewis, D.M., *Advances in Colour Science and Technology*, **Vol 7**, (2004) pp 101-107.
- 6) Synthesis of ethyl-4,6-dihydroxy-2-oxo-1-phenyl-5-arylazopyridine-3-carboxylate, Part (IV): New disperse dye, K. M. Khan, Mahwish, Abdul Jabbar, Shahnaz Parveen, Rasheeda Parveen and Syed Moazzam Haider, *J. Chem. Soc. Pak*, **Vol 32**, No.4, (2010).
- 7) The use of divinylsulphone precursors as cross-linking agents to enhance the reactive dye fixation on cellulose fibers, Abdul Jabbar and D. M. Lewis, Submitted for publication .