



CURRICULUM VITAE **DR. MUHAMMAD SHAIQ ALI**

Professor

(Tamgha-i-Imtiaz)

(Updated on 14-03-2016)

CONTACT

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PERSONAL INFORMATION

Father's Name	Late M. Ishtiaq Ali
Nationality	Pakistani
National Identity Card No.	42201-3988655-3
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RESEARCH INTERESTS

- Marine Natural Product Chemistry
- Terrestrial Natural Product Chemistry

ACADEMIC CARRER

Degree/Certificate	Board/University	Division	Year
Ph.D. (Mar. Nat. Prod. Chem.)	H.E.J. (Kar. Univ.)	-	1992
M.Phil. (Bio-organic Chemistry).	Sussex (U.K.)	-	1990
M.Sc. (Organic Chemistry).	Karachi	Ist.	1985
B.Sc. (Chem., Zoo., Bot.).	Karachi	Ist.	1982
Higher Secondary Certificate.	Karachi	2nd.	1978
Secondary School Certificate.	Karachi	Ist.	1976

Ph.D. Thesis Title

Constituents of *Laurencia pinnatifida* and Synthetic Studies on Fujenal and Gibberellins

Supervisor (Ph.D.)

Prof. Dr. Viqar Uddin Ahmad, H.E.J. Research Institute of Chemistry
University of Karachi, Pakistan

M.Phil. Thesis Title

Biotransformations of Some Gibberellins and Beyeranes

Supervisor (M.Phil.)

Prof. Dr. J. R. Hanson, School of Molecular Sciences, University of Sussex, U.K.

ACADEMIC HONOURS/AWARDS

- **Tamgh-e-Imtiaz** (Civil Award) conferred by the President of Pakistan (2011).
- **Fellow** of the *Chemical Society of Pakistan* (2009).
- **Inclusion of Name** in a book of leading scientists entitled *Leading Scientists and Engineers of OIC Members States*, published by COMSTECH, pp 259-260 (2008).
- **Evaluator** of projects in a local college *Science Exhibition* (2008).
- **Mentor** in the *International Chemistry Olympiads*, held in Hungary (2008).
- **Member Academic Council**, University of Karachi (2008).
- **Member Senate**, University of Karachi (2008).
- **PAS Gold Medal** in Chemistry (2007).
- **Mentor** in the *International Chemistry Olympiads*, held in Russia (2007).
- **Member of the Editorial Board** of *Pak. J. Pharm. Sci.* (2007-2010).
- **Recipient of Research Productivity Allowance** (RPA) from PCST (2001-2012)
- **Coordinator** of the *Refresher Course in Organic Chemistry for College Teachers*, held at the ICCBS (2006).
- **Mentor** in the *International Chemistry Olympiads*, held in Korea (2006).
- **Organizing Secretary** of *SAARC-H.E.J. Training Crouse on Bioassay and Pharmacological Techniques for Drug Development*, held at the ICCBS (2003).
- **Dr. Raziuddin Gold Medal** in Chemistry (2001).

- **Associate Organizing Secretary** of the 9th *National Chemistry Conference*, held at the Department of Chemistry (1998), University of Karachi
- **TWAS Young Scientist Prize** (1997).
- **Nishan-e-Zafar** given by the Vice Chancellor, University of Karachi (1997).
- **Certificate of Appreciation** from the Vice Chancellor, University of Karachi, in recognition of meritorious work (1997).
- **STA Fellowship**: Science & Technology Agency (STA) Fellowship from the Govt. of Japan to conduct postdoctoral research on *Marine Algae* at the Shikoku National Industrial Research Institute, Takamatsu, Japan for a period of six months (1995).
- **UNESCO Fellowship**: Sponsored by the Ministry of Education, Japan and UNESCO for 29th International Postgraduate University Course in *Chemistry and Chemical Engineering* at the Tokyo Institute of Technology, Japan for a period of one year (1993-1994).
- **DAAD Fellowship**: To conduct postdoctoral research on *Toxic Natural Products* at the School of Veterinary Medicine, Hanover, Germany for a period of three months (1993).
- **O.D.A. Fellowship**: Sponsored by the Overseas Development Authority and British Council for M. Phil. degree in the field of *Bioorganic Chemistry* at the University of Sussex, U.K. (1988-1990).
- **Organizing Secretary** of four *National Chemistry Talent Contests* (NCTC-1, NCTC-2, NCTC-3& NCTC-4), held at the ICCBS.
- **Approved Ph. D. Supervisor** by the *Higher Education Commission*, Pakistan.
- **Member Board of Science Faculty**, University of Karachi.
- **HEC Projects Evaluator**.

EXPERIENCE

Post (scale): Full Professor (BPS-21) (Present Status)
Organization: International Center for Chemical and Biological Sciences (ICCBS), University of Karachi
Duration: From July 2008.

Post (scale): Associate Professor (BPS-20)
Organization: ICCBS, University of Karachi
Duration: From March 2002 to July 2008.

Post (scale): Assistant Professor (BPS-18)
Organization: (ICCBS), University of Karachi
Duration: From Nov. 1994 to March 2002.

Post (scale): Senior Research Fellow (fixed salary)
Organization: ICCBS, University of Karachi
Duration: From Oct. 1994 to Nov. 1994.

Post (scale): Research Fellow (scholarship from HEJ)
Organization: ICCBS, University of Karachi
Duration: From Feb. 1992 to Oct. 1994.

Post (scale): Junior Research Fellow (scholarship from HEJ)
Organization: ICCBS, University of Karachi
Duration: Form Oct. 1986 to Jan. 1992.

Post: Analyst
Organization: Efroze Chemical Industries (Pvt.) Ltd., Karachi, Pak.
Duration: From March 1986 to Oct. 1986.

PROFESSIONAL MEMBERSHIPS

- Chemical Society of Pakistan (CSP).
- Alumni Association of Tokyo Institute of Tech UNESCO (ATTUNE)
- Alumni, Department of Chemistry, University of Karachi

PUBLICATIONS

Research Papers: Over 225
Book Edited: Entitled "Abbreviations in Organic Chemistry".
Cumulative Scientific Impact Factor: 235.107
Citations: 1308
H-Index: 17

Review Articles

- M. Saleem, H. Ja Kim, **M. S. Ali** and Y. S. Lee (2005) An update on bioactive plant lignans, **Nat. Prod. Rep.**, **22**(6), 696 – 716.
- M. Saleem, **M. S. Ali**, S. Hussain, A. Jabbar , M. Ashraf and Y. S. Lee (2007) Marine natural products of fungal origin, **Nat. Prod. Rep.**, **24**(5), 1142-1152.
- M.Saleem, M.Nazir, **M. S. Ali**, H.Hussain, Y.S.Lee, N.Riaz and A. Jabbar (2010) Antimicrobial Natural Products; an Update on the Future Antibiotic Drug Candidates, **Nat. Prod. Rep.**, **27**, 238-254.

Chapters in Books Published by International Publishers

- V.U. Ahmad, **M.S. Ali** *et al.* (1988) Isolation and structural studies on chemical constituents from some plants and marine organisms of Pakistan, **Nat. Prod. Chem. III** (Atta-ur-Rahman and P.W. Le Quesne, Eds.), Springer-Verlag, p. 355-358.
- V.U. Ahmad and **M.S. Ali** (1993) New compounds from seaweeds and higher plants, **Advances in Natural Product Chem.** (Ed. Atta-ur-Rahman), Harwood Academic Publishers, p 445-462.

- **M. S. Ali**, S. Ahmad, S. A. Ibrahim and W. Ahmed (2008) Chemical constituents of *Salvia nubicola*, **Advances in Natural Products** (Eds: Z. Ahmed and A. Dar), Daya Publishing House, Delhi, p. 33-51.
- I. Azhar, F. Mazhar, M. Hasan and **M. S. Ali** (2008) Biological Studies on *Melilotus officinalis*, **Advances in Natural Products** (Eds: Z. Ahmed and A. Dar), Daya Publishing House, Delhi, p. 27-32.
- **M. S. Ali**, M. K. Pervez and F. Ahmed (2008) Diterpenoids from marine brown alga *Dictyota dichotoma* collected from Karachi coasts of Arabian Sea (Pakistan), **Current Trends in Phytochemistry** (Ed: F. Epifano), Research Signpost, India, p. 253-281.

RESEARCH SUPERVISION

Ph.D. Students Supervised

- (1) **Dr. Muhammad Saleem** (2000)
Thesis Title: Chemical and biological screening of some relatives of Lamiaceae (Labiatae) family and marine alga *Codium iyengarii*
- (2) **Dr. Muhammad Jahangir** (2001)
Thesis Title: Chemical and biological studies on some members of Asteraceae family and *Pseudocalymma elegans*, a native of Brazil
- (3) **Dr. Kashif Pervez** (2003)
Thesis Title: Chemistry and pharmacology of some Rutaceous plants and marine red and brown algae of Arabian Sea
- (4) **Dr. Farman Ahmad** (2003)
Thesis Title: Chemistry and pharmacology of some Leguminosaeous plants and marine brown alga *Dictyota dichotoma*
- (5) **Dr. Waqar Ahmad** (2005)
Thesis Title: Chemistry of *Salvia nubicola*, *S. hypoleuca* and *Mentha longifolia*
- (6) **Dr. Amir Ibrahim** (2006)
Thesis Title: Chemistry of *Leounrus cardiaca*, *Nepeta crassifolia* and *Salvia nubicola* (Lamiaceae)
- (7) **Dr. Shakeel Ahmed** (2008)
Thesis Title: Chemistry of *Euphorbia wallichii* Hook and *Salvia nubicola* Wall.
- (8) **Dr. Shahnaz** (2009)
Thesis Title: Chemistry of *Portulaca grandiflora*, *Codium iyengarii* and Synthetic Studies on Ciprofloxacin, Sarafloxacin and Diketones

- (9) **Dr. Muhammad Imran Ali** (2011)
Thesis Title: Chemical Constituents of *Erythrina vogelii* Hook., *E. mildbraedii* Harms and *E. sigmoidea* Hua (Fabaceae)
- (10) **Dr. Zeeshan Ahmed** (2011)
Thesis Title: Chemical Constituents of *Acalypha segetalis*, *Acalypha torta* (Euphorbiaceae) and *Clerodendrum formicarum* (Lamiaceae)
- (11) **Mr. Ghafoor Ahmed** (2012)
Phytochemical Investigation and Structural Modifications of Triterpenes from *Aegle marmelos*

M. Phil. Students Supervised

- (1) **Farzana Kausar** (1998)
Thesis Title: Isolation of Natural Compounds from *Leptadenia pyrotechnica*, *Tamarindus indica* and *Linaria genestifolia*
- (2) **Mr. Shakeel Ahmad** (2001)
Thesis Title: Chemistry and pharmacology of *Salvia nubicola* and *salvia bucharica*
- (3) **Mr. S. Shaha Uzair** (2001)
Thesis Title: Chemical constituents of some Bignoniaceous plants and their toxicology
- (4) **Ms. Sobia Tabassum** (2006)
Thesis Title: Chemistry of Two Solanaceous Plants from Nigeria: *Solanum erianthum* D. Don and *Solanum torvum* Sw.
- (5) **Ms. Samreen Fatima** (2007)
Thesis Title: Chemistry of Rutaceous Plants: *Haplophyllum acutifolium* and *Zanthoxylum armatum*
- (6) **Ms. Qurat-ul-ain Shaikh** (2012)
Thesis Title: Chemical and Pharmacological Characterization of the Constituents from *Heterophragma adenophyllum*
- (7) **Ms. Qurat-ul-ain Idrees** (2012)
Thesis Title: Chemical and Pharmacological Characterization of the Constituents from *Leea guinensis*
- (8) **Ms. Almas Hashmi** (Thesis submitted)
Thesis Title: Chemistry and Pharmacology of *Ocimum viride* (Lamiaceae)

CO-SUPERVISION

- A student (Mr. Inamullah) of Peshawar University in Ph.D. program (2010).

- A student (Ms. Farah Dal) of Sindh University (Jamshoro) in M. Phil. Program (2012).
- A student (Ms. Naila Raziq) of Peshawar University in Ph.D. program (2014).
- A student (Mr. Adnan Asghar) from the University of Azad Jammu and Kashmir in M. Phil. Program (2015).
- A student (Mr. Obaid-ur-Rahman Khan) from the University of Azad Jammu and Kashmir in M. Phil. Program (2015).

COLLABORATIVE RESEARCH

Several M.Sc., M.Phil. and Ph.D. students from various institutions of Pakistan and abroad have visited my laboratory under various collaborative research programs. A brief summary is given below:

Supervision under TWAS Programs

- **Dr. Isiaka Ogunwande** from Chemistry Department, University of Ibadan (**Nigeria**), visited our laboratory under TWAS South-south fellowship program for three months from January to March, 2002.
- **Dr. Kamdem Waffo Alain Francois** of Douala University (**Cameroon**) visited for three months from November to February, 2003.
- **Dr. Patricia A. Onocha** from Chemistry Department, University of Ibadan (**Nigeria**), visited us two times from July, 2004 to September, 2004 and from July, 2005 to September, 2005.
- **Dr. Joseph Ngoupayo** from University of Yaounde (**Cameroon**), visited us three times from July to September, 2006, July to September, 2008 and July to August, 2011.
- **Mr. Robert Powo** of Douala University (**Cameroon**), visited us from March to August, 2008.
- **Dr. Ibrahim Oladosu** from Chemistry Department, University of Ibadan (**Nigeria**), visited us from April to June, 2008.
- **Dr. Bankeu Kezet Jean Jules** of University of Yaounde 1 (**Cameroon**), visited us from April to September, 2009.
- **Mr. Sielinou Tedjon Valerie** of University of Yaounde 1 (**Cameroon**), visited us from December, 2010 to May, 2011.
- **Mr. Oladimeji Abdulkabir Oladele**, University of Ibadan (**Nigeria**), September, 2012 to March, 2013.

- **Mr. Fongang Fotsing Yannick Stephane** from University of Yaounde 1 (**Cameroon**), visiting us from December, 2012 to November, 2013.
- **Mr. Louis Marie Kamdem** from University of Yaounde 1 (**Cameroon**), visiting us from June, 2013 to November, 2013.
- **Ms. Pagning Ngankeu Annie Laure** from University of Dschang (**Cameroon**), visiting us from mid of August, 2013 to mid of May, 2014. (09)
- **Oluwaseun Adeniyi Osiyemi** from University of Ibadan, Nigeria, visited my laboratory during October, 2014 to end of May, 2015
- **Mr. Maffo Timoleon** from University of Yaounde 1, visited my laboratory during November, 2014 to mid of May, 2015

Supervised Under Collaborative Research (within the Country)

- **University of Karachi**
Department of Chemistry: five M.Sc. and two Ph.D.
Department of Biochemistry: One Ph.D.
Department of Botany: Two M.Phil. and four Ph.D.
Department of Pharmacognosy: Nine M.Phil. and Two Ph.D.
- **University of the Punjab, Lahore**
Department of Chemistry: One Ph.D.
- **Peshawer University, Peshawer**
Department of Chemistry: Three Ph.D.
- **Sindh University, Jamshoroo**
Department of Chemistry: One Ph.D.
Department of Botany: Two Ph.D.
- **Islamia University, Bahawalpur**
Department of Chemistry Two M. Phil.
- **University of Azad Jammun and Kashmir** Two M. Phil.
Department of Chemistry
- **Hamdard University, Karachi.**
Faculty of Eastern Medicines: Two trainees
- Many Students under Summer Internship Program

RESEARCH GRANTS

- A project entitled “Studies on the biologically active metabolites from marine algae” funded by the Office of the Naval Research, USA (Rs. 0.8 million)
- A project entitled “Studies on the biologically active metabolites from plants of central Asia.” under the Pak-Kazakh joint research program funded by the Kazakh Govt. (Rs. 1.0 million).
- A research grant received from TWAS for spare parts.
- Research grants received from COMSTEC for spare parts.
- Grants from HEC under merit / indigenous Ph.D. programs for five students.
- A project entitled “Phytochemical and Pharmacological Investigation of *Cedrus deodara*” funded by HEC.

LECTURES / POSTERS PRESENTED

Lectures/ Poster Presented in International Symposia

- A lecture entitled “Traditional Medicines / Herbal Products and Situation in Pakistan” was delivered in a Consultative Forum on the Establishment of a Subhealth Intervention Technology Consortium in the Asia-Pacific Region, 24-25 September 2012, Changsha, China.
- Poster Presented in the Symposium of Tokyo-UNESCO Fellows, Tokyo, Japan, 10-11 December, 2009.
- Lecture delivered in 5th European Conference on Marine Natural Products held at Naples, Italy, September 16-21, 2007, entitled “Diterpenoids from Marine Brown Alga *Dictyota dichotoma* Collected from Karachi Coasts of Arabian Sea (Pakistan)”.
- Lecture delivered in Second Workshop on Natural Toxins held at Cairo, Egypt, November 12-15, 2000, entitled “Steps toward Drug Discovery”.

Lectures in National Symposia/ Workshops

- A lecture entitled “An Overview on Some Common 2-D NMR Techniques-A Practical Approach” delivered as a resource person in a Workshop on Saponins, a Group of Useful Natural Products at COMSTECH during June 24-26, 2014.
- A series of lectures on “Organometallic Chemistry” was delivered to M. Phil. research students at Urdu University, Karachi.

- In NCGC Workshop on Applications of Modern Spectroscopic Techniques in Chemical Sciences (2004) held at ICCBS, entitled “Theoretical Aspects of U.V. Spectroscopy”.
- At Quid-i-Azam University, Islamabad, entitled “Biotransformation *via* Fungi”
- In the Celebration of Birth Anniversary of Late Prof. Salimuzzaman Siddiqui, entitled “Use of Fungal Metabolites in Organic Synthesis”.
- In the O.N.R. Workshop, entitled “Chemistry and Bioactivity of Algae Collected from Coasts of Karachi (Arabian Sea)”.
- In 7th International Symposium on Natural Product Chemistry (1998) entitled “The *ent*-beyerane 19-oic acids and their effect on gibberellin biosynthetic pathways”.
- In Second International Symposium on Pharmaceutical Sciences (1998) entitled “Algal halo-chamigrenes”.
- In 8th National Chemistry Conference (1997) entitled “Constituents of Rhodophytes”.
- A series of lectures on “Organometallic Chemistry” was delivered to M.Phil. students at ICCBS.
- A series of lectures on “Carbocation” was delivered to M.Phil. students at ICCBS.
- A series of lectures on “Ultra Violet Spectroscopy” was delivered to M.Phil. students at ICCBS.

NATIONAL / INTERNATIONAL WORKSHOPS AND SYMPOSIA ATTENDED

International Symposia / Workshop Attended

- Attended “6th Asian Regional Conservation Forum” under the umbrella of IUCN in Thailand, Bangkok during August 10-12, 2015.

Attended National Symposia/ Workshops / Lectures

- Attended ORIC workshop in NED University organized by HEC, Islamabad

ACADEMIC RESPONSIBILITIES

Incharge Course # 702 entitled: Mechanism and Structure-reactivity Relationship
Teaching Organometallic Chemistry in Course # 706 entitled: Organic Synthesis
Incharge, MCQs based examinations.

Incharge, New Murree Project
Member, ICCBS Clinical Trial Working Group
Attending IUCN meetings

NON ACADEMIC RESPONSIBILITIES

Chairman, Purchase Committee
Incharge, Electrical Affairs
Inchagre, Attendance Records
Member, House Allotment Committee
Member, Qurz-e-Hasana Committee
Incharge, Prayer Place
Incharge repairable / irreparable instruments' screening
Convener Promotion Committee

MISCELLANEOUS

- A three months Japanese Language Course from Tokyo Institute of Technology, Tokyo, Japan (1993).
- A course of Instructions in Medicinal Chemistry was completed at University of Sussex, U.K. (1988-1990).
- English Language Testing Service (ELTS) (1987).
- National Cadet Crop (NCC) training (1978).