

**CURRICULUM VITAE**  
**DR. MUHAMMAD SHAIQ ALI**  
*Associate Professor*



**CONTACT**

---

✉ H. E. J. Research Institute of Chemistry, International Center for Chemical & Biological Sciences (ICCBS), University of Karachi, Karachi-75270 (Pakistan).

☎ 092-21-4824930 Ext 222

UAN 111-222-292

☎ 0300-2294181

E-mail: shaiq303@hotmail.com  
shaiq303@super.net.pk

☎ 92-21-4819018-19

Web page: [www.iccs.edu](http://www.iccs.edu)

**BRIEF CITATION**

---

Dr. Ali did his masters in organic chemistry from University of Karachi. He received M. Phil. degree in microbiological transformation from University of Sussex (U.K.) and got his doctoral degree in 1992 under the supervision of Prof. Viqar Uddin Ahmad of H.E.J. Research Institute of Chemistry in marine chemistry. He was appointed as an Assistant Professor at H.E.J. Research Institute of Chemistry, in 1994 and presently, he is serving as an Associate Professor at the same institution. He was awarded DAAD, STA and UNESCO postdoctoral fellowships from Japan and Germany. In the postdoctoral research, he worked on toxic metabolites of higher plants, enzymatic racemic resolution of fluorinated substrates and isolation & characterization of lipopolysaccharides obtained from cultured bacteria. These contributions have led to the award of TWAS Young Scientist (under 40 years) for 1997 and Raziuddin Gold Medal in Chemistry for 2001 to Dr. Ali. He is Organizing Secretary of National Talent Contests in Chemistry (NTCC) and had participated as a Mentor in "International Chemistry Olympiad (2006)" held in Korea. He had acted as a Coordinator in the organization of "Refresher Course in Organic Chemistry for College Teachers (2006)" held at ICCBS. He has over 155 research publications and a book on "Organic Abbreviations" to his credit. The impact factor of Dr. Ali's research publications is above 100. He has produced six Ph.D., four M.Phil. and guided several M.Sc., M.Phil., Ph.D. students including TWAS Fellows under collaborative research programs. He is Co-supervisor of M.Phil. / Ph.D. students at Sindh and Peshawer Universities. His research interests are marine and terrestrial natural product chemistry and microbiological transformation of organic molecules.

## **PERSONAL INFORMATION**

---

Father's Name Late M. Ishtiaq Ali  
Nationality Pakistani.  
National Identity Card No. 42201-3988655-3  
Passport No. A2188641  
Address (Res.) 221-C, Block-2, P.E.C.H. S., Karachi-75400, Pakistan.  
Telephone (Res.) Karachi – 4395269

## **ACADEMIC CARRER**

---

### **Ph.D. Thesis Title**

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

### **Supervisor (Ph.D.)**

Prof. Viqar Uddin Ahmad, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi - 75270, Pakistan.

### **M. Phil. Thesis Title**

Biotransformations of Some Gibberellins and Beyeranes.

### **Supervisor (M.Phil.)**

Prof. J.R.Hanson, School of Molecular Sciences, University of Sussex, Falmer, Brighton, BNI 9QJ, England (U.K.).

<b>Degree/Certificate</b>	<b>Board/University</b>	<b>Division</b>	<b>Year</b>
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

## **RESEARCH INTERESTS**

---

- Marine Natural Product Chemistry.
- Terrestrial Natural Product Chemistry.
- Biotransformation of Organic Molecules.

## **PRESENT STATUS**

---

**Associate Professor** at ICCBS, University of Karachi, Karachi –75270, Pakistan.

## **ACADEMIC HONOURS/AWARDS**

- **Raziuddin Gold Medal** in chemistry (2001).
- **Certificate of Appreciation** from the Vice Chancellor, University of Karachi, in recognition of meritorious work.
- **Nishan-e-Zafar** given by the Vice Chancellor, University of Karachi.
- **TWAS Prize under 40 years** (1997).
- **STA Fellow:** Science & Technology Agency (STA) fellowship offered by the Govt. of Japan to conduct research on *lipopolysaccharides* at Takamatsu, Japan (1995).
- **UNESCO Fellow:** Fellowship offered by the Japanese Govt. Sponsored by the Ministry of Education, Japan and UNESCO for 29<sup>th</sup> International Postgraduate University Course in the field of *microbiological transformation* at Tokyo Institute of Technology, Japan (1993-1994).
- **DAAD Fellow:** Scholarship offered by the Deutscher Akademischer Austauschdienst (DAAD, Germany) for postdoctoral research on *toxic metabolites of higher plants* at the School of Veterinary Medicine, Hannover, Germany (1993).
- **O.D.A. Fellow:** Fellowship offered by the Overseas Development Authority and British Council for M.Phil. degree in the field of *microbiological transformation* at University of Sussex, U.K. (1988-1990).

## **RESEARCH SUPERVISION**

Ph.D. Produced: Six

M.Phil. Produced: Four

## **PUBLICATIONS**

Research Papers: Over 158

Book: A book on organic abbreviations.

## **EXPERIENCE**

---

**Post (scale):** Associate Professor (BPS-20) Present Status  
**Organization:** International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.  
**Duration:** From March 2002.

**Post (scale):** Assistant Professor (BPS-18)  
**Organization:** International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.  
**Duration:** From Nov. 1994 to March 2002.

**Post (scale):** Senior Research Fellow (fixed salary)  
**Organization:** International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.  
**Duration:** From Oct. 1994 to Nov. 1994.

**Post (scale):** Research Fellow (scholarship from ICCBS)  
**Organization:** International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.  
**Duration:** From Feb. 1992 to Oct. 1994.

**Post (scale):** Junior Research Fellow (scholarship from ICCBS)  
**Organization:** International Center for Chemical and Biological Sciences (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.

## **RESEARCH GRANTS**

---

- A project entitled “Bioactive Secondary Metabolites from Seaweeds” was funded by the Office of the Naval Research, USA.
- A project entitled “Bioactive Compounds from Central Asian Plants” under the Pak-Kazakh joint research program was funded by the Kazakh Govt.
- A research grant received from TWAS for spare parts.
- A research grant received from COMSTEC for spare parts.
- Grants from HEC under merit / indigenous Ph.D. programs for five students.

## COLLABORATIVE RESEARCH

Several M.Sc., M.Phil. and Ph.D. students from various institutions of Pakistan had worked and are working under the collaborative research. A brief summary is given below:

- **University of Karachi**  
*Department of Chemistry:* Three 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.
- **Hamdard University, Karachi.**  
*Faculty of Eastern Medicines:* Two for lab. training
- **University of the Punjab, Lahore**  
*Department of Chemistry:* One Ph.D.
- **Peshawer University, Peshawer**  
*Department of Chemistry:* One M. Phil. /Ph.D.
- **Sindh University, Jamshoroo**  
*Department of Chemistry:* One Ph.D.  
*Department of Botany:* Two Ph.D.
- **A Local A' Level School:** One for training

## Supervised Under TWAS Program

**Dr. Isiaka Ogunwande** from Chemistry Department, **University of Ibadan, Ibadan, Nigeria** visited our laboratory under TWAS South-south fellowship program for three months from Jan. to March 2002.

**Dr. Kamdem Waffo Alain Francois** of **Douala University (Cameroon)** visited us as a TWAS fellow for three months from Nov. to February 2003.

**Dr. Patricia A. Onocha** from Chemistry Department, **University of Ibadan, Ibadan, Nigeria** visited us two times as a TWAS fellow from 16-07-2004 to 30-09-2004 and from 01-07-2005 to 30-09-2005.

**Dr. Joseph Ngoupayo** from **University of Yaounde (Cameroon)** visited us as a TWAS fellow for three months from July to September 2006.

## **LECTURES DELIVERED**

---

- 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 Second Workshop on Natural Toxins held at Cairo, Egypt, November 12-15, 2000, entitled “Steps Toward Drug Discovery”.
- 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 7<sup>th</sup> 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 8<sup>th</sup> 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.

## **MISCELLANEOUS ACHIEVEMENTS**

---

### **Courses/Training/Exam.**

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

### **Organizing Secretary**

- First National Talent Contest in Chemistry (NCTC-1).
- First and second camps of Second National Talent Contest in Chemistry (NCTC-2).
- Third National Talent Contest in Chemistry (NCTC-3).

### **Associate Organizing Secretary**

9<sup>th</sup> National Chemistry Conference.

### **Coordinator**

Refresher Course in Organic Chemistry for College Teachers at ICCBS (2006).

### **Mentor**

International Chemistry Olympiad held in Korea (2006).

### **Reviewer**

National Research Foundation funded projects.

### **Selected As**

Ph.D. research supervisor in the Science & Technology Indigenous/Merit Ph.D. Programs launched by Higher Education Commission (Pakistan).

### **Co-Supervisor**

- Sindh University, Jamshoro, for M.Phil. / Ph.D.
- Peshawer University, Peshawer, for M.Phil. / Ph.D.

### **Professional Memberships**

- Chemical Society of Pakistan (CSP).
- American Chemical Society ACS).
- Science Teachers Forum (STF).