

**CURRICULUM VITAE**  
***OF***  
***PROFESSOR DR. KHALID MOHAMMED KHAN, T. I.***

**H.E.J. Research Institute of Chemistry  
International Center for Chemical and Biological Sciences  
University of Karachi, Karachi-75270, Pakistan**

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## AREAS OF INTEREST

General Synthetic Organic Chemistry, Bioorganic and Medicinal Chemistry

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### PERSONAL

Date of Birth December 1, 1960 (Nawab Shah, Pakistan)  
Languages English, German, Urdu, Sindhi  
Marital Status Married  
N.I.C. No. 42101-1392779-1

Total Scientific Impact Factor: **283.219**

Total Citation: **1759**

### EDUCATION

**Ph.D., (Organic Chemistry):** From HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan, 1992. The topic of research was "D-glucal, A Versatile Chiral Synthon: Synthetic Approaches to A-Ring of Pederin" under the supervision of **Prof. Dr. Mohammed Saleh Shekhani**.

**M.Sc., (Organic Chemistry):** From the Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan. July 1985. The topic of research was "Reactions of Highly Hindered Phenol and its Derivatives," under the supervision of **Prof. Dr. Mrs. Naeema Khan**.

**B.Sc., (Chemistry, Botany, and Geography):** From the Government Degree College Nawab Shah/Sindh University, Jamshoro, Pakistan. 1981.

**F.Sc., (Chemistry, Biology and Physics):** From the Government Degree College Nawab Shah/Board of Intermediate and Secondary Education, Hyderabad, Pakistan. 1979.

**S.Sc., (Chemistry, Biology, Physics and Mathematics):** From the Municipal High School Nawab Shah/Board of Intermediate and Secondary Education, Hyderabad, Pakistan. 1974.

### PROFESSIONAL EXPERIENCE

**Present Position: Professor:**

In **HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, July 2008 .....**

***Associate Professor:***

**In HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, June 2003- July 23, 2008**

**Assistant Professor: In HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, September 1997 - June 2003.**

**Senior Quality Control Officer:** In Lederle Laboratories Division, Cyanamid (Pakistan) Limited, Karachi. **January 1996 - September 1997.** Involved in R&D and Analysis of raw material and finished products. Member of Committee for achieving ISO 9002 certification: First ISO 9002 certified pharmaceutical company of Pakistan has achieved ISO 9002 certification in June 1997.

**Postdoctoral Fellow:** With **Prof. Dr. Atta-ur-Rahman** Director, HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi **November 1995 - January 1996.** Involved in Combinatorial Chemistry

**Postdoctoral Fellow:** With **Prof. Dr. h. c. Wolfgang Voelter**, Leiter der Abteilung für Physikalische Biochemie, Physiologisch-chemisches Institut der Universität Tübingen, Hoppe-Seyler-Str. 4, D-72076 Tübingen, Germany. **September 1992 - September 1995**, involved in an efficient as well as an economical synthesis of the antineoplastic and antibiotic 6-diazo-5-oxo-L-norleucine (DON), synthesis of cholestenopyrimidines, 1,3,4,5-tetrahydro-2H-benzodiazepin-2-ones, their derivatives and development of synthetic methodologies based on carbohydrates and amino acids.

**Postdoctoral Fellow:** With **Prof. Dr. Atta-ur-Rahman**, Director, HEJ Research Institute of Chemistry, University of Karachi, International Center for Chemical and Biological Sciences, Karachi-75270, Pakistan. **July 1991 - September 1992**, involved in the investigations on demulsifiers for furnace oil/water emulsions (an industrial project) which resulted in a patent and synthetic study on glycoposphatidylinositol: highly efficient synthesis of glycobiosyl phosphatidylinositol through H-phosphate approach.

**Research Fellow:** With **Prof. Dr. Mohammed Saleh Shekhani**, HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan. **October 1985 - July 1991.** The research topic was “D-glucal, A Versatile Chiral Synthon: Synthetic Approaches to A-Ring of Pederin,” submitted Ph. D. thesis and took Ph. D. examination.

**Research Fellow:** With **Prof. Dr. Mrs. Naeema Khan**, Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan. **July 1984 - July 1985.** The topic of research was “Reactions of Highly Hindered Phenols and its Derivatives”.

## **AWARDS AND HONOURS**

1. Leader and Trainer of **Two Bronze Medal Winner Pakistani Chemistry Olympiad Team** Participated in **41<sup>st</sup> International Chemistry Olympiad, Cambridge (UK) 18<sup>th</sup> – 27<sup>th</sup> July 2009.**
2. **Fellow** of The Chemical Society of Pakistan, **2008.**
3. Most Cited Paper **2005-2008 Award from** Elsevier Publishers.
4. **Member of Board of Studies**, Institute of Chemical Sciences, University of Peshawar, since **2008.**
5. **Member of Board of Studies**, Department of Chemistry, Quaid-i-Azam University Islamabad, since **2008.**
6. **Associate Editor**, International Journal of Biological and Chemical Sciences since **2007.**
7. Leader and Trainer of **Two Bronze Medal Winner Pakistani Chemistry Olympiad Team** Participated in **39<sup>th</sup> International Chemistry Olympiad, Moscow, Russia (July 15,-July 24, 2007).**
8. **Elected Secretary General**, The Chemical Society of Pakistan since **2006.**
9. **Tamgha-e-Imtiaz 2004** from the President of Pakistan.
10. Pakistan Academy of Sciences **Gold Medal 2004**
11. **Star Award 2004** from South Asia Publications
12. **Star Award 2003** from South Asia Publications
13. Justice Qadeeruddin **Gold Medal 2003**
14. **Secretary**, National Core Group in Chemistry (Constituted in **2002** by Ministry of Science and Technology, Government of Pakistan, Currently working under Higher Education Commission)
15. **Coordinator** of Chemistry for National Science Talent Contest (STEM Careers Project under Higher Education Commission) since **2005.**
16. Head Mentor, Pakistan Olympiad Team for International Chemistry Olympiads since **2006**
17. **Scientific Observer** for **36<sup>th</sup> International Chemistry Olympiad Kiel Germany, 2004** (STEM Careers Project under Higher Education Commission).
18. **Scientific Observer** for **37<sup>th</sup> International Chemistry Olympiad Taipie Taiwan, 2005** (STEM Careers Project under Higher Education Commission).
19. **Member**, Board of Studies, H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan, since **2005.**
20. **Secretary**, National Chemistry Talent Contest-1, August 31 - September 5, 2004 (STEM Careers Project under Higher Education Commission).
21. **Member** of the Peer Review Committee for R&D Institutions in the field of Chemical and Pharmaceutical Sciences, constituted by Pakistan Council for Science and Technology (PCST) **2002.**
22. **Coordinator** of “SAARC-H.E.J. Training Grouse on Bioassay and Pharmacological Techniques for Drug Development,” **October 10-15, 2003** Karachi Pakistan
23. **Member Curriculum Committee** of Department of Chemistry, Urdu University of Arts, Science and Technology, Karachi since **2004.**
24. **Recipient of Research Productivity Allowance (RPA) 2001, 2002, 2003, 2004, 2005, 2006, 2007** from Pakistan Council for Science & Technology (PCST).

## **MERITS AND SCHOLARSHIPS**

1. Merit Scholarship in M. Sc.
2. Scholarship from Pakistan Science Foundation during Ph.D.
3. Scholarship from Ministry of Science and Research Baden-Württemberg (Germany) July 1993 - September 1995.
4. Deutscher Akademischer Austausch Dienst (DAAD), 2006.

## **PROFESSIONAL MEMBERSHIPS**

American Chemical Society

The Chemical Society of Pakistan (Life Member)

## **REFERENCES**

**Prof. Dr. Dr. h. c. Wolfgang Voelter:** Leiter der Abteilung für Physikalische Biochemie, Physiologisch-chemisches Institut der Universität Tübingen, Hoppe-seyler-Str. 4, D-72076, Tübingen, Germany. Tel. 0049-7071-293041, 295333, Telefax 0049-7071-293348

**Prof. Dr. Atta-ur-Rahman:** Chairman HEC and Director, HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan. Tel. 0092-51-9259201, Telefax 0092-51-9259203

**Prof. Dr. Muhammad Iqbal Choudhary:** Director (Acting), HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan. Tel. 0092-21-4824924-5, Telefax 0092-21-4819018-9

## **PARTICIPATION IN INTERNATIONAL AND NATIONAL SYMPOSIA, CONFERENCES, SEMINAR, WORKSHOPS AND TRAININGS**

- 1) A number of International and National Symposia, Conferences, Seminar, Workshops and Trainings were attended and **presented papers** some are as under.
- 2) A number of International and National Symposia, Conferences, Seminar, Workshops and Trainings were **organized** some are as under.
  1. 8<sup>th</sup> International and 20<sup>th</sup> National Chemistry Conference, **February 15-17, 2010**, Department of Chemistry Quid-i-Azam University, Islamabad, Pakistan.
  2. 19<sup>th</sup> National Chemistry Conference, Department of Chemistry, Kohat University of Science and Technology, Kohat, **June 9-11, 2009** (At Peshawar University Summer Campus Baragali), Pakistan.
  3. One Day Workshop Collaboration with HEC-BC (British Council), **May 16, 2009**, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan.
  4. 3<sup>rd</sup> National Seminar, "Intellectual Right to Magic Methods" **April 15-16, 2008**, at Pearl Continental Hotel, Lahore organized by Patent Advisory Cell, PCSIR, Karachi, Pakistan.

5. 11<sup>th</sup> International Symposium on Natural Product Chemistry, **October 29-November 01, 2008**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
6. 1<sup>st</sup> Junior National Chemistry Symposium, **June, 2008**, Department of Chemistry, Azad Kashmir University, Muzaffarabad, Pakistan
7. 18<sup>th</sup> National Chemistry Conference, **February 25-27, 2008**, Institute of Chemistry University of the Punjab Lahore, Pakistan.
8. 9<sup>th</sup> International Symposium on Protein Function Relationship, January 11-14, 2007, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Karachi.
9. 7<sup>th</sup> International and 17<sup>th</sup> National Chemistry Conference, **February 26-28, 2007**, Department of Chemistry, Gomal University D.I. Khan, Pakistan, Theme: "Excellence through Innovation".
10. First IBRO School of Neuroscience **March 26-30, 2007**, Dr Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical & Biological Sciences, University of Karachi, Pakistan.
11. Workshop on New Instrumentation and Application of Mass Spectrometry **August 7-9, 2006**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
12. 10<sup>th</sup> International Symposium on Natural Product Chemistry, **January 06-09, 2006**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
13. 6<sup>th</sup> International and 16<sup>th</sup> National Chemistry Conference, **April 4-6, 2006**, Department of Chemistry, Bahauddin Zakaria University, Multan, Pakistan: Theme "Quality of Life and Chemical Sciences".
14. The Second Sino-Pakistan Bilateral Workshop on Chemical Sciences" Department of Chemistry, University of Shanghai, China, **April 17-20, 2006**.
15. In-Service Training Workshop "Chromatography and Statistics in Chemistry" **December 26, 2004-January 9, 2005**. National Core Group in Chemistry University of Sind, Jamshoro, Pakistan.
16. 8<sup>th</sup> International Symposium on Protein Structure Function Relationship **Januray 7-10, 2005** & Workshop on Characterization of Protein **Jan 12-18, 2005** H. E. J. Research Institute of Chemistry University of Karachi, Pakistan
17. 8<sup>th</sup> International Symposium on Protein Structure Function Relationship January **7-10, 2005**, Karachi, Pakistan.
18. Workshop on Application of Modern Spectroscopic Techniques In Chemical Sciences **December 6-23 2004**. National Core Group in Chemistry H. E. J. Research Institute of Chemistry University of Karachi, Pakistan
19. 5<sup>th</sup> International and 15<sup>th</sup> National Chemistry Conference **November 24-27, 2004**. Department of Chemistry Quai-i-Azam University, Islambad, Pakistan.
20. 9<sup>th</sup> International Symposium on Natural Product Chemistry, **January 10-13, 2004**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan
21. 7<sup>th</sup> International Symposium on Protein Structure Function Relationship **January 20-24, 2003**, Karachi, Pakistan.
22. 4<sup>th</sup> International and 14<sup>th</sup> National Chemistry Conference, **May 16-18, 2004**, PCSIR Laboratories Complex Lahore, Pakistan, Theme "Quality through Innovative Chemistry."
23. SAARC-H.E.J. Training Course on Bioassay and Pharmacological Techniques for Drug Development, **10-15 October, 2003**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
24. 3<sup>rd</sup> International and 13<sup>th</sup> National Chemistry Conference, **December 28-31, 2002**, Department of Chemistry/HEJ Research Institute of Chemistry, University of Karachi, Pakistan.
25. 2<sup>nd</sup> International and 12<sup>th</sup> National Chemistry Conference, **February 4-6, 2002**, University of Sind, Jamshoro, Pakistan
26. 7<sup>th</sup> Eurasia Conference on Chemical Sciences, **March 8-12, 2002**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan
27. 3<sup>rd</sup> Jordanian International Conference of Chemistry **April 22-26 2002**, Chemistry Department, Faculty of Science, Yarmouk University, Irbid-Jordan.

28. International Seminar on Role of Science and Technology in Sustainable Development, **September 22-23, 2002**, Karachi, Pakistan.
29. Bangladesh-Pakistan Bi-National Seminar on Natural Product Chemistry, **September 24-26, 2002**, Karachi, Pakistan.
30. 3<sup>rd</sup> International and 13<sup>th</sup> National Chemistry Conference, **December 28-31, 2002**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
31. 1<sup>st</sup> International and 11<sup>th</sup> National Chemistry Conference, **April 10-14, 2001**, Department of Chemistry, University of Peshawar, Pakistan.
32. National O. N. R. Symposium on Arabian Sea as a Resource of Biological Diversity **September 18-20<sup>th</sup> 2000**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
33. International Workshop on Sustainable Use of Medicinal and Food Plants, **September 15-17, 2000**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
34. HEJ-COMSATS Workshop on the use of Spectroscopic Techniques in Structural Organic Chemistry. **February 14-21 2000**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
35. Workshop on the Technology for Product Development from Medicinal Plant, **January 21-27, 2000**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan
36. 8<sup>th</sup> International Symposium on Natural Product Chemistry, in **January 18-22 2000**, H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
37. 9<sup>th</sup> National Chemistry Conference, **December 6-8 1998**, Department of Chemistry/H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
38. 8<sup>th</sup> National Chemistry Conference, **September, 2-4 1997**, PCSIR Laboratories Complex, Lahore, Pakistan.
39. 7<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, in **December 28 – January 1 1997**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
40. 7<sup>th</sup> National Chemistry Conference, June 2-3, 1996, Department of Chemistry and Institute of Bio-Chemistry, University of Balochistan, Quetta, Pakistan.
41. 19<sup>th</sup> IUPAC Symposium on Natural Product Chemistry, Karachi, Pakistan in **16-20<sup>th</sup> January 1994**. H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
42. 8<sup>th</sup> European Symposium on Organic Chemistry, at Barcelona, Spain, **August-September, 1993**.
43. 5<sup>th</sup> International Symposium Pakistan-US Binational and UNESCO-SCAMAP Workshop on Natural Product Chemistry, Karachi, Pakistan, **January 1992**. H. E. J. Research Institute of Chemistry University of Karachi
44. 3<sup>rd</sup> National Chemistry Conference, **December 1991**, Department of Chemistry, Gomal University, D. I. Khan. Pakistan.
45. 4<sup>th</sup> International Symposium Pakistan-US Binational and UNESCO-SCAMAP Workshop on Natural Product Chemistry, Karachi, Pakistan, **January 1990**.
46. 2<sup>nd</sup> National Chemistry Conference **27-30 December 1990**. Department of Chemistry & H. E. J. Research Institute of Chemistry University of Karachi, Pakistan.
47. 2<sup>nd</sup> International Conference on Protein Structure-Function Relationship Karachi, Pakistan, **December 1989**.
48. 1<sup>st</sup> International Conference on Protein Structure-Function Relationship Karachi, Pakistan, **January 1988**.
49. 3<sup>rd</sup> International Symposium Pakistan-US Bi-national and UNESCO-SCAMAP Workshop on Natural Product Chemistry, Karachi, Pakistan, **January 1988**.
50. International Workshop on Isolation and Structure Elucidation of Natural Product Using Spectroscopic Technique Karachi, Pakistan, **January 1987**.
51. 2<sup>nd</sup> International Symposium Pakistan-US Binational and UNESCO-SCAMAP Workshop on Natural Product Chemistry, Karachi, Pakistan, **January 1986**.

## **PROJECTS FUNDED BY NATIONAL AND INTERNATIONAL FUNDING AGENCIES**

Seven National and International projects are **funded** and **completed** so far. One project is currently approved for funding.

### **SUPERVISION OF RESEARCH STUDENTS**

**Two (2)** Postdoctoral Fellows has completed their works.

**Twenty (20)** M. Phil and Ph.D. students are currently carrying out their research work.

**Five (5)** students have been awarded Ph. D. degree.

**Two (2)** students have been submitted their Ph. D. thesis to BASR.

**Three (3)** students have been completed their Ph. D. research work and writing their thesis.

**One (1)** student has been awarded M. Phil. degree.

**Six (6)** Ph. D. as co-supervisor have been awarded Ph. D. degrees.

**Two (2)** M. Phil. students as co-supervisor have awarded M. Phil. degrees.

**Three (3)** students as co-supervisor are carrying out their Ph. D. research work.

**Three (3)** students are currently carrying out their M. Sc. research work.

**Twenty two (22)** M. Sc. Research workers have completed their thesis.

### **RESEARCH PUBLICATIONS**

kindly see attached list