

Short CURRICULUM VITAE



Dr. A.R. Shakoori

*Tamgha-i-Imtiaz, Aizaz-i-Kamal, ECO Laureate
Fellow, The World Academy of Sciences (TWAS)
Fellow, Pakistan Academy of Sciences*

Meritorious Professor

Former Professor, U Mass Medical School, Worcester, MA, USA

Visiting Professor, Kind Saud University, Riyadh, KSA

President, Zoological Society of Pakistan

Professor Emeritus

Distinguished National Professor & Director

School of Biological Sciences

University of the Punjab, Lahore

1. Field of Specialization	Cell & Molecular Biology
2. Field of research activity:	Molecular Mechanisms of Gene Expression, Environmental Biotechnology, Pesticide Biochemistry & Physiology, Toxicology
3. Number of research papers published	650
4. Number of theses written under my supervision	M.Sc. 200 M.Phil 49 Ph.D. 71
5. Postdoctoral Research experience outside Pakistan	University of Hohenheim, Stuttgart, Germany (1972), U Mass Medical Centre, MA, USA (1989-90,1992-1995, 1998), University of Marburg, Germany (1996), King's College, London, United Kingdom (1997), University of Essex, U.K. (1999)

6. Honours awarded:

- 1) Awarded **ROLL OF HONOUR**, Government College, Lahore for obtaining first class (M.Sc.) in **1962**.
- 2) I was awarded a **CASH PRIZE of Rs. 5,000/-** in 1979 and Rs 7000/- in 1983 for doing research work of exceptional merit in **1979**, by the University of the Punjab.
- 4) **COMMENDATION CERTIFICATE and CASH PRIZE of Rs. 15,000/-** was awarded by National Book Foundation of Pakistan of Ministry of Education, Govt. of Pakistan in July, **1988**. This award was given on the basis of research publications of 1986.
- 5) **SENIOR FULBRIGHT FELLOWSHIP 1992, 1993**.
- 6) **FELLOW, PAKISTAN ACADEMY OF SCIENCES (1991-Continuing)**.
- 7) **ACTIVE MEMBER, THE NEW YORK ACADEMY OF SCIENCES (1993, 1994)**.
- 8) **SENIOR FELLOWSHIP OF Deutsche Akademischer Austausch Dienst, 1996**.
- 9) **Awarded a COMMENDATION CERTIFICATE and 1st Prize** (cash prize of Rs. 25,000) by National Book Foundation of Pakistan, **Ministry of Education** in **1997** for publishing research papers in Foreign Journals of repute.
- 10) **AWARD OF HONOUR** in recognition of Outstanding Services for the promotion of Zoological Sciences by the Zoological Society of Pakistan and Pakistan Agricultural Research Council in **1995**.
- 11) **ZOOLOGIST OF THE YEAR AWARD**, given by Zoological Society of Pakistan, **1996**.
- 12) **PRESIDENT OF PAKISTAN'S HIGHEST ACADEMIC AWARD AIZAZ-I-KAMAL, 1996**.
- 13) **OUTSTANDING ZOOLOGIST AWARD OF HONOUR** in recognition of Outstanding Contributions in Zoological Sciences by the Zoological Society of Pakistan in **1997**.
- 14) **ROYAL SOCIETY OF UNITED KINGDOM FELLOWSHIP, 1998**.
- 15) **TAMGHA-I-IMTIAZ**, Civil Award of **Government of Pakistan** announced on August 14, 1999 and conferred on **March 23, 2000**.
- 16) **RESEARCH PRODUCTIVITY ALLOWANCE** of Ministry of Science & Technology **2002, 2003, 2004, 2005, 2006, 2007, 2008, 2010, 2012, 2013**
- 17) Rated **SEVENTH amongst Biologists of Pakistan** with cumulative **Impact Factor 36.821** during **1999**. (Reference: *Leading Scientists of Pakistan*, Published by the Pakistan Council of Science and Technology, Islamabad, 1999).
- 18) Placed at **POSITION 15 with a total of 44 citations and Cumulative Impact Factor of 72.549** during 2000. (Reference: *Scientific Research in Pakistan*, Published by the Pakistan Council of Science and Technology, Islamabad, 2000).
- 19) Placed at **SECOND POSITION amongst the TOP TEN BIOLOGISTS in the country (Total Points: 1226)**. Also **HEADED the list of TOP TEN ZOOLOGISTS IN THE COUNTRY**. (Reference: *Productive Scientists of Pakistan*, Published by the Pakistan Council of Science and Technology, Islamabad, 2004).
- 20) Placed at **FOURTH POSITION amongst the TOP TEN BIOLOGISTS in the country (Total Points: 1306)**. Also **HEADED the list of TOP TEN ZOOLOGISTS IN THE COUNTRY**. (Reference: *Productive Scientists of Pakistan*, Published by the Pakistan Council of Science and Technology, Islamabad, 2005)
- 21) **Fellow, Academy of Sciences for the Developing World (Third World Academy of Sciences) (2004-ongoing)**
- 22) **Distinguished National Professor, Higher Education Commission (2005-ongoing)**
- 23) **Professor Emeritus, University of the Punjab, Lahore (2010-)**
- 24) **Distinguished Scientist of the Year 2011, awarded by Pakistan Academy of Sciences**.
- 25) **Rated at position # 1 amongst Zoologists of the Country in 2011. Also rated among the top Five Biologists of the Country by PCST in 2011**. (Reference: *Productive Scientists of Pakistan*, Published by the Pakistan Council of Science and Technology, Islamabad, 2011).
- 26) **Awarded ECO Award 2012 in the field of Science and Technology by Economic Cooperation Organization during Summit Meeting in Baku, Azerbaijan on October 16, 2012**.
- 27) **Rated the Top Most Productive Scientist in Biological Sciences 2013 by PCST. Also rated at number three among the ten top most productive scientists of Pakistan 2013**.

7. MEMBERS OF DECISION MAKING BODIES

1. Member Syndicate UVAS, Lahore (2007-2010) , UMT, Lahore (2007-2009), LCWU (2008-2010).
2. Member, Institutional Review Board, Shaikh Zayed Medical Complex, Lahore (2002-2014)
3. Member, Board of Governors, Punjab Curriculum and Textbook Board (2015-continuing)
4. Chairman, Advisory Board, Urdu Science Board, Lahore (2015-continuing)
5. Chairman, Apex Academic Committee, PCTB, Lahore (2015-Continuing)
6. Director, Board of Director, Pakistan Education Foundation (2016-continuing)
7. Member, Executive Council, Pakistan Education Foundation (2016-continuing)

8. Books written

1. **SHAKOORI, A.R.**, HASHMI, T.H., RIAZUDDIN, S. AND SHAIKH, K.H., 1988. (Eds.) *An Annotated Textbook of Biology for Secondary School*, based on modernized curricula in Biology proposed for Secondary Schools in ISESCO Member State, Islamic Educational, Scientific and Cultural Organization, Rabbat, Morocco, pages, 377.
2. **SHAKOORI, A.R.**, HASHMI, T.H., RIAZUDDIN, S. AND SHAIKH, K.H., 1988. (Eds.) *An Annotated Textbook of Biology for Higher Secondary School*, based on modernized curricula in Biology proposed for Secondary Schools in ISESCO Member State, Islamic Educational, Scientific and Cultural Organization, Rabbat, Morocco, pages, 833.
3. **SHAKOORI, A.R.**, 1988. Genetics. In: *An Annotated textbook of Biology for Secondary Schools*, pages 270-310, ISESCO, Rabat, Morocco.
4. **SHAKOORI, A.R.**, 1988. Cellular basis of life (Chapter 1, pages 1-42), Chemistry of Cell (Chapter 2, pages 43-112), Nucleic acids and Genetic Code (Chapter 3, pages 113-145), Reproduction of Cell (Chapter 4, pages 146-168), The Heredity Material (Chapter 5, pages 169-214), The chromosome Theory of Heredity (Chapter 6, pages 215-236), Patterns of Heredity (Chapter 7, pages 237-266), Evolution (Chapter 8, pages 267-301), Human Diseases (Chapter 26, pages 746- 771). In *Annotated Textbook of Biology for Higher Secondary Schools*. ISESCO, Rabbat, Morocco.
5. **SHAKOORI, A.R. (Ed. & Author)**, 1992. Chemical composition of cell. In *Textbook of Biology for Class XI*. Published by Punjab Textbook Board, Lahore.
6. **SHAKOORI, A.R.**, 1999. *Cloning - An Introduction*. Urdu Science Board, Lahore.
7. **SHAKOORI, A.R.**, 2002. *Noble Prize winning discoveries*. Urdu Science Board, Lahore.
8. **SHAKOORI, A.R.**, SAEED, H. AND JOHAR, R. (Eds.), 2003. *Biology XII*. Published by Punjab Textbook Board, Lahore. (Also contributed two chapters CHROMOSOMES AND DNA and BIOTECHNOLOGY)
9. QAMER, S. and **SHAKOOR, A. R.**, 2010. *Composition of honey produced by Asian and exotic honeybees*. Paperback -09-2010, VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG, Germany. ISBN 978-3-639-00828-9. Pp. 236.
10. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2011. *Pollution of Large Sub-Tropical Rivers- River Kabul, Pakistan*. VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG. ISBN 978-3-639-33934-5.
11. KHAN, M. J., KANWAL, M. AND **SHAKOORI, A. R.**, 2011. Interferon Beta 1 Gene and Human Cancer. VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG., Germany. ISBN 978-3-639-35935-0

12. **SHAKOORI, A.R. AND REHMAN, A., 2011.** *Protozoan Fauna of Industrial Wastes and their Role in Bioremediation*, VDM Verlag, Dr. Muller Aktiengesellschaft & CO KG. Germany. ISBN 978-3-639-36906-9.
13. **SHAKOORI, A.R. AND BUKHARI, D.A., 2011.** *Molecular Characterization of Cry4 Gene from Bacillus thuringiensis*. VDM Verlag, Dr. Muller Aktiengesellschaft & CO KG. Germany. ISBN 978-3-639-37596-1. Pp. 345
14. **SHAKOORI, A.R. AND AHMED, B., 2011.** *Plasmid Mediated Antibiotic Resistance in Gram-Negative Bacteria*. VDM Verlag, Dr. Muller Aktiengesellschaft & CO KG. Germany. ISBN 978-3-639-37920-4
15. DAR, S. AND **SHAKOORI, A.R., 2011.** *Cloning and Gene Expression of a Synthetic Gene of Paramecium species*. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8454-778140-2
16. SULEMAN, A. AND **SHAKOORI, A.R., 2011.** *Physiological Importance of Cadmium Metallothionein Protein*. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8454-7719-0.
17. ZAHID, N. AND **SHAKOORI, A.R., 2011.** *Functional Analysis of Promoter of cus Operon - Activity of Copper-mediated Induction of cus Operon Promoter in E. coli*. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8465-0511-3
18. CHAUDHRY, R. AND **SHAKOORI, A.R., 2011.** *Copper metallothionein Gene of Tetrahymena. – Copper Metallothionein Gene Isoforms*. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8465-1669-0.
19. **SHUJA, R.N. AND SHAKOORI, A.R., 2011.** **Cadmium metallothionein genes of ciliates: Isolation and characterization of cadmium metallothionein genes.** LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN-13: 978-3-8465-3139-6. pp.160.
20. **SALIHA, Z., SATTAR, A., FARID, A. AND SHAKOORI, A.R., 2012.** **Termites of Pakistan & their Control.** Zoological Society of Pakistan, pp. 102. ISBN: 9078-969-9715-00-6
21. **KANWAL, M., KHAN, M.J. AND SHAKOORI, A.R., 2012.** **Acute lymphoblastic leukemias (ALL) and interferon beta-1 genes: Mutational analysis of interferon beta 1 (IFN1).** LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN-13: 9783-6592-3041-7. pp.172
22. **SALEEM, F. AND SHAKOORI, A.R., 2012.** **Development of Bioinsecticides: Molecular characterization of cry2 gene from Pakistani isolates of Bacillus thuringiensis.** LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN-13: 978-3-84844231-7. pp.168.
23. SHAKOORI, T.A. AND **SHAKOORI, A.R., 2013.** *Role of surfactant protein D in chronic Obstructive Pulmonary Disease*. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN-13: 978-3-659-34158-8. Pp168-
24. Contributed the following Chapters in “Chromosomal Structure and Aberrations” Editors: Tariq Ahmad Butt and Aijaz Ahmad Wani. Published by Springer Verlag, 2016. ISBN: 978-81-322-3671-9 (Hard Cover), 978-81-322-3673-3 (eBook), DOI 10.1007/978-81-322-3673-3
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