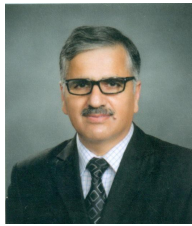



## PERSONAL INFORMATION




## Prof. Dr. Muhammad Naeem Khan

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 [www.uobs.edu.pk](http://www.uobs.edu.pk) [vc@uobs.edu.pk](mailto:vc@uobs.edu.pk)

Sex Male | Date of birth 10 Jun 1961 | Nationality Pakistan, Canada

## POSITION

Vice Chancellor University of Baltistan, Skardu Gilgit-Baltistan Pakistan

## WORK EXPERIENCE

- 
- Sep 2015–Mar 2016 **European Commission Erasmus Mundus EXPERT SUSTAIN Post-Doc Fellow & Visiting Professor**  
University of Zagreb, Croatia., Zagreb (Croatia)
- Sep 2016–Dec 2016 **European Commission Erasmus Mundus LEADER Academic Staff Exchange & Visiting Professor**  
University of Crete, Herklion, Crete (Greece)
- Apr 2015–Present **Dean, Faculty of Life Sciences**  
University of the Punjab, Lahore (Pakistan)
- Convener, Board of Faculty
  - Academic Development & Management of Faculty
  - Academic & administrative supervision of research & teaching of 14 constituent departments
  - Academic & industrial linkages
  - Membership of university committees
  - Consultancy & practice
  - Quality assurance & standards
  - External examinations, membership of BOS, Selection Board of other universities
- Dec 2004–Present **Professor of Zoology**  
University of the Punjab, Lahore (Pakistan)
- Research, Teaching, HRD and Capacity Building
  - Aquaculture & Fisheries Development
  - Research theses supervision BS, MS/M.Phil, PhD
  - External Examiner & Subject Expert
  - Member BOS
  - Academic & Industrial linkages
- Mar 2005–Sep 2010 **Registrar & Principal Administrative Officer**  
University of the Punjab, Lahore (Pakistan)
- Principal Administrative Officer of the university
  - Management of all university affairs

- Custodian of university seal, Academic Records & University Properties
- Secretary of Senate, Syndicate, Selection Board, Academic Council, Advanced Studies & Research Board, Affiliation Committee, Doctoral Program Committee & others
- Higher Education Management

**2005–2006 Director External Linkages**

University of the Punjab, Lahore (Pakistan)

- Academic linkages & collaborations international Institutions
- Development of MOUs with foreign universities
- Academic mobility & exchange

**2003–2004 Dean, Faculty of Fisheries & Wildlife & Professor (UVAS)**

University of Veterinary &amp; Animal Sciences, Lahore (Pakistan)

- Research, Teaching, HRD & Capacity Building
- Academic Development & Management of Faculty
- Chairperson, Department of Fisheries & Aquaculture
- Chairperson, Department of Wildlife & Ecosystems

**1996–2003 Director Fisheries**

Department of Fisheries, Government of Punjab, Lahore (Pakistan)

- Aquaculture & Fisheries Development
- River Fisheries Management Fish Seed Production & Fish Hatcheries Management
- Aquaculture Extension
- Reservoir & Riverine Fisheries Management
- Research & Training of Fish Farmers
- Disease Diagnosis & Water Quality

**1996–1997 Salmon Marine Fish Biologist**

Pacific National (Salmon Aquaculture Private Ltd), Tofino, Vancouver Island, BC, Canada

- Offshore Marine Salmon Aquaculture
- Salmon Cage Culture
- Salmon Feeding & Disease Management

**1989–1996 Deputy Director Fisheries**

Department of Fisheries, Government of Punjab, Lahore (Pakistan)

**1986–1989 Assistant Director Fisheries**

Department of Fisheries, Government of Punjab, Lahore (Pakistan)

**EDUCATION AND TRAINING**

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**Sep 2015–Mar 2016 Post-Doctorate**

University of Zagreb, Croatia

**Sep 2016–Dec 2016 Post-Doctorate**

University of Crete, Heraklion, Greece

- 1992–1996 **Ph.D (Zoology)**  
University of Guelph, Ontario, Canada
- 1981–1983 **M.Sc (Zoology)**  
University of the Punjab, Lahore, Pakistan.
- 1978–1980 **B.Sc**  
University of the Punjab, Lahore, Pakistan.
- 1987–1988 **LL.B**  
University of the Punjab, Lahore, Pakistan.

**PERSONAL SKILLS**

Mother tongue(s) Punjabi (Pothohari)

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Urdu	C2	C2	C2	C2	C2
Arabic	A1	C1	A1	C2	A2
Persian	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Excellent communication skills having 22 years of school, college and university education in English as the medium of instructions and examinations
- Excellent communication skills gained through 31 years of work experience (19 years post-PhD experience) with universities, government and research institute as senior executive & academic

Organisational / managerial skills

- Excellent organizational / managerial leadership skills skills gained as Dean of Faculty, Professor, Registrar & Director External Linkages of Punjab University & Director Fisheries, Government of Pakistan, where I was responsible for academic development, higher education administration & management
- Excellent lab and field research & experimental skills gained as researcher, biologist and university Professor
- Author of more than 80 international (36 overseas) peer reviewed research publications in the field of fish physiology, aquaculture development & fisheries management

Job-related skills

- Professorial & university academic administration skills
- Research and R&D skills
- Winner of five gold medals
- Distinction as youngest professor, youngest dean, youngest registrar, youngest director fisheries
- Attended 24 international conference overseas and presented research papers
- 28 years of diversified experience in university teaching, research, higher education administration, academic development and Government

Digital skills

- Good command of office suite (word processor, spread sheet, presentation software)

## ADDITIONAL INFORMATION

## Awards / Honours

**International Awards/Honors**

1. Winner of American Fisheries Society (AFS) Western Division International Professional Travel Grant Award, Anchorage, Alaska, USA, May 21-25, 2018
2. Recipient of Belarus Academic Fellowship under YKSUG Visiting Professor Program-2017, Yanka Kupala State University of Grodno, Belarus, Nov 27-Dec 2, 2017
3. Recipient of British Council Transnational Education Program Mobility Award, Aerosol Society Sciences Conference, Birmingham, UK, November 8-9, 2017
4. Recipient of Turkish Academic Fellowship under Mevlana Exchange Program, Kastamonu University, Turkey, October 1-14, 2017
5. Recipient of American Fisheries Society (AFS) International Professional Travel Grant Award, Missoula, Montana, USA, May 22-26, 2017
6. Recipient of European Commission Erasmus Mundus Actions-2 LEADER Academic Staff Exchange Mobility, University of Crete, Greece, from Aug 30, 2016 to Dec 16, 2016
7. Visiting Professor, University of Cyprus, Nicosia, Cyprus, Nov 25-30, 2016
8. Recipient of American Fisheries Society (AFS) International Professional Travel Grant Award, Reno, Nevada, USA, March 21-24, 2016
9. Visiting Professor, University of South Bohemia, Ceske Budejovice, Czech Republic, February 8-11, 2016
10. Visiting Professor, NARIC Research Institute of Fisheries & Aquaculture (HAKI), Szarvas, Hungary, January 25-30, 2016
11. Recipient of European Commission Erasmus Mundus EXPERTS SUSTAIN Post-Doc Fellowship, University of Zagreb, Croatia, from Sep 15, 2015 to March 15, 2016
12. Founding Member & Electoral Assembly European Association of University Professors (EuAUP), Zagreb, Croatia, October 28-29, 2015
13. Invited Guest Speaker OMIC International Conference on Aquaculture & Fisheries, Brisbane, Australia, July 20-22, 2015
14. Recipient of FAO / Michigan State University, USA, International Travel Grant Award, Global Cross-Sectoral Conference: Freshwater, Fish and the Future, FAO Head Quarters, Rome, Italy, January 26-30, 2015
15. Invited Keynote / Session Chair IICBE International Conference on Advances in Agricultural, Biological & Environmental Sciences (AABEs-2014), Dubai, UAE, Oct 15-16, 2014
16. First Recipient of Nor-Fishing Foundation, Norway Travel Grant Award for Developing Countries, Nor-Fishing Exhibition in Trondheim, Norway, August 19-22, 2014

17. Invited Guest Speaker & Recipient of World Aquaculture Society Partial Travel Grant Award, World Aquaculture 2014, Adelaide, Australia, June 7-11, 2014
18. Recipient of American Fisheries Society (AFS) International Professional Travel Grant Award, Mazatlán, Mexico, April 7-11, 2014
19. Recipient of FAO/UN International Travel Award, Fourth International Fishing Industry Safety & Health Conference (IFISH-IV), Reykjavik, Iceland, May 10-14, 2009
20. Represented Pakistan / University of the Punjab (Registrar) in the Global University Network for Innovation (GUNI) 4<sup>th</sup> International Barcelona Conference on Higher Education: New Challenges and Emerging roles for Human & Social Development, Technical University of Catalonia, Barcelona, Spain, March 31-April 2, 2008
21. Recipient of PU Travel Grant to attend “Eco Summit 2007- Ecological Complexity and Sustainability: Challenges and Opportunities for 21<sup>st</sup> Century’s Ecology”, Beijing, China, May 22-27, 2007
22. Recipient of PU Travel Grant to attend International Conference on Environment and Sustainability, Nicosia, Northern Cyprus, February 19-24, 2007
23. Represented Pakistan / University of the Punjab (Registrar) in the “International Conference on Buddhist Manuscripts and Buddhist Studies”, Geumgang University, South Korea, October 20-21, 2006
24. Represented Pakistan / University of the Punjab (Registrar) in the World University Presidents Summit / 3<sup>rd</sup> FISU Rectors’ Forum, Bangkok, Thailand, July 19-22, 2006
25. Represented Pakistan / University of the Punjab in the International Conference on Healthy University, University of Science Malaysia, Penang, Malaysia, November 20-22, 2005
26. Recipient of FAO/UN International Travel Award, 4<sup>th</sup> World Recreational Fisheries Conference, Trondheim, Norway, June 12-16, 2005
27. Country Representative & Link Coordinator, HEC-British Council Joint Higher Education Link Program, University of Wales, Swansea, UK, November 1-30, 2004
28. Recipient of HEC-British Council International Mobility Grant to participate in Workshop on Environmental Impact Assessment (EIA), University of Wales, Swansea, UK, November 3-5, 2004
29. Recipient of American Fisheries Society (AFS) Mentorship Program Award for “Workshop on Introduction to Microcomputer Applications for Fisheries”, Simon Fraser University, Vancouver, Canada, May 7, 2004.
30. Recipient of American Fisheries Society (AFS) 4<sup>th</sup> World Fisheries Congress Mentorship Program Award, Vancouver, Canada, May 2-6, 2004
31. Invited Official Guest by the Government of UAE to sign MOU between UVAS, Pakistan and the Environmental Research and Wildlife Development Agency (ERWDA), Abu Dhabi, UAE, March 7-9, 2004
32. Recipient of the International Travel Grant for “Kathmandu Summit Meeting” on veterinary use of the drug, Diclofenac: A new environmental threat exposed by the collapse of vulture population in

South Asia, The Peregrine Fund, USA, Kathmandu, Nepal, February, 5-6, 2004

33. Recipient of FAO/UN International Travel Award, 2<sup>nd</sup> International Fishing Industry Safety & Health Conference (IFISH-II), Sitka, Alaska, USA, September 22-24, 2003

34. Recipient of Government of Malaysia Scholarship for "International Marine Shrimp Hatchery Operation & Management" Training Course, Kota Kuala Muda, Kedah, Malaysia, July 12 to August 22, 2002

35. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for 29<sup>th</sup> Annual Meeting of the Society for the Study of Reproduction, London, Ontario, Canada, July 27-30, 1996

36. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for International Congress on the Biology of Fishes, San Francisco, California, USA, July 14-18, 1996

37. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for 13<sup>th</sup> Annual Meeting of the Aquaculture Association of Canada, Ottawa, Canada, June 2-5, 1996

38. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for 18<sup>th</sup> Annual Larval Fish Conference, AFS, St. Andrews, New Brunswick, Canada, June 26-28, 1994

39. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for 3<sup>rd</sup> Annual Fish Physiology and Biochemistry Workshop, Keene, Ontario, Canada, February 25-27, 1994

40. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for 32<sup>nd</sup> Annual Conference of Canadian Society of Zoologists, Guelph, Ontario, Canada, May 5-8, 1993

41. Recipient of NSERC / OMAFRA / University of Guelph, Ontario, Canada, Travel Grant for International Congress on Comparative Endocrinology, Toronto, Canada, May 16-21, 1993

42. Recipient of Asian Development Bank (ADB), International Scholarship for PhD Studies (4-years), University of Guelph, Ontario, Canada, September, 1992 to October, 1996

#### **National Awards:**

- Nominated by Punjab University for Presidential Civil Awards "**IZAZ-I-KAMAL**", 2009
- Nominated by Punjab University for Presidential Civil Awards "**IZAZ-I-FAZEELAT**", 2009
- Nominated by Punjab University for Presidential Civil Award, "**Sitara-i-Imtiaz**", on Independence Day 14<sup>th</sup> August 2008.
- Nominated by Punjab University for Presidential Civil Awards, "**Sitara-i-Imtiaz**", on Independence Day 14<sup>th</sup> August 2007.
- Recipient of Star Laureate Award, South Asia Publications, Karachi, 2009
- Recipient of **Quaid-i-Azam Gold Medal**, (*Tehreek Istehqam-e-Pakistan Council*), Pakistan, 2006.
- Recipient of **Sir Roberts William Gold-Medal**, Punjab University, **Best Zoologist, 2001**.

- Recipient of **Dr. A.R. Shakoori Gold-Medal** for Young Scientist, ZSP, 2000
- Recipient of University Gold Medal, University of the Punjab (**First Position** in M.Sc, Zoology), 1981-82
- **President**, Pakistan Aquaculture & Fisheries Society (PAFS), 2013-15.
- **Member Working Group**, Fisheries Sector, Government of the Punjab, 2013-14.
- Founding **Director (External Linkages)**, University of the Punjab, Lahore (2005-6)
- **Link Coordinator**, HEC-British Council Higher Education Link Program UVAS-University of Wales, Swansea, UK, 2004-05
- Recipient, **Higher Education Commission (HEC) Short Term Faculty Exchange** Programme Fellowship, 2004.
- Recipient of **ADB Post-Graduate scholarship** for PhD, Canada, 1992-96
- **Youngest Registrar** of University appointed by Syndicate PU, 2005
- 
- **Youngest Dean of Faculty** appointed by Chancellor UVAS / Governor Punjab, 2003
- **Youngest Professor** (BS-21) selected by UVAS Selection Board, 2003
- **Youngest** officer promoted by Provincial Selection Board Punjab as **Director Fisheries** (BS-19), 1997
- Selection as **Deputy Director Fisheries** (PPSC, 1989), **First Position**
- Selection as **Assistant Director Fisheries** (PPSC, 1986), **First Position**
- Fisheries Department **In-Service Examinations** for Officers (1986), **First Position**
- Qualified **Central Superior Services (CSS)** examinations of Pakistan, 1987, 1988

#### Publications

##### A). International Refereed Publications:

Shahzad, K. Khan, M.N., Jabeen, F., Kousar, N, Chaudhry, A.S. & Sohail, M. (2018). Evaluating toxicity of copper (II) oxide nanoparticles (CuO-NPs) through water borne exposure to tilapia (*Oreochromis mossambicus*) by tissue accumulation, oxidative stress, histopathology and genotoxicity. *Environmental Science and Pollution Research*, DOI: 10.1007/s11356-018-1813-9 (ACCEPTED FOR PUBLICATION).

1. Sohail, M., **Khan, M.N.**, Qureshi, N.A. & Chaudhry, A.S. (2017). Monitoring DNA Damage in Gills of Freshwater Mussels (*Anodonta anatina*) Exposed to Heavy Metals. *Pakistan Journal of Zoology*, 49(1).305-311.

2. Shahzad, K., **Khan, M.N.**, Jabeen, F., Kosour, N., Sohail, M., Khan, M.K.A., & Ahmad, M. (2017).

Bioaccumulation of manufactured Titanium dioxide (TiO<sub>2</sub>), Copper oxide (CuO) and Zinc oxides (ZnO) nanoparticles in the soft tissues of tilapia (*Oreochromis mossambicus*). *Punjab University Journal of Zoology*, 32(2). 237-243

3. Chatta, M.A., **Khan, M.N.**, Hadyat, I., Ali, A. & Naqvi, S.A. (2017). Detection of heavy metals (cadmium, lead and chromium) in farmed carp fish species, marketed at Lahore, Pakistan: A serious health concern for the consumers. *International Journal of Biosciences*, 10(4), 199-211
4. Sohail, M., **Khan, M.N.**, Chaudhry, A.S. & Qureshi, N.A. (2016). Bioaccumulation of heavy metals and analysis of mineral element alongside proximate composition in foot, gills and mantle of freshwater mussels (*Anodonta anatina*). *Rendiconti Lincei*, 27(4), 687-696.
5. Sohail, M., **Khan, M.N.**, Chaudhry, A.S. & Shahzad, K. (2016). Proximate composition and elemental analysis in soft tissues of freshwater mussels (*Anodonta anatina*) from the Chashma Lake, River Indus Pakistan. *Frontiers in Biology*, 11(4), 331-337.
6. **Khan, M.N.** (2016). Review of the decline in freshwater natural resources and the future of inland fisheries and aquaculture: Threatened Livelihood and Food Security in Indus Valley, Pakistan. In Proceedings of the Global Cross-Sectoral Conference: Freshwater, Fish and the Future, by FAO, American Fisheries Society & Michigan State University, FAO, Head Quarters, Rome, Italy, January 26-28, 2016 (William W. Taylor, Devin M. Bartley, Chris I. Goddard, Nancy J. Leonard and Robin Welcomme, Eds), 211-218
7. Chatta, A.M., **Khan, M.N.**, Mirza, Z.S., and Ali, A. (2016). Heavy metal (Cadmium, Lead and Chromium) contamination in farmed fish: a potential risk for consumer's health. *Turkish Journal of Zoology*. 40: 248-256
8. **Khan, M.N.** Shahzad, K., Chatta, A.M., Sohail, M., Piria, M., Treer, T. (2016). A review of introduction of common carp (*Cyprinus carpio*) in Pakistan: Origin, Purpose, Impact, and Management, *Croatian Journal Fisheries* 74(1), 71-80
9. Chatta, A.M., Khan, A.M., **Khan, M.N.**, and Ayub, M. (2015). A study of growth performance and survival of Indus Golden Mahseer (*Tor macrolepis*) with Indian major carps in semi-intensive polyculture system. *Journal of Animal & Plant Sciences*, 25(2):561-566, 2015.
10. **Khan, M.N.** (2015). Review of the decline of artisanal fisheries along the Arabian Sea coast, Pakistan. In Proceedings of the 2nd International Symposium on *Mangroves as Fish Habitat*, Mazatlan, Mexico, April 7-12, 2014, American Fisheries Society, (Karen J. Murchie and Pedram P. Daneshgar, Eds), AFS Symposium 83:61-63.
11. Hutchison, J., Philipp, D.P., Claussen, J.E., and **Khan, M.N.** et al., (2015). Building an expert-judgment-based Model of Mangrove Fisheries. In Proceedings of the 2nd International Symposium on *Mangroves as Fish Habitat*, held in Mazatlan, Mexico, April 7-12, 2014, American Fisheries Society, (Karen J. Murchie and Pedram P. Daneshgar, Eds), AFS Symposium 83:17-42.
12. Sohail, M. Qureshi, N.A., Khan, N., **Khan, M.N.**, Iqbal, K.J. & Abbas, F. (2014). Effect of supplementary feed, fertilizer, and physico-chemical parameters on pond productivity stocked with Indian major carps in monoculture system. *Pakistan Journal of Zoology*, 46(6), 1633-1639.
13. N. Khan, M. Ashraf, M. S. Mughal, N. A. Qureshi, **Khan, M. N.**, F. Rasool, M. H., M. Nasir, W. Ali and K. J. Iqbal (2014). Survival and Growth Potential of Genetically Male Tilapia (GMT) Fry in Flow through System under Different Dietary Protein Concentrations. *Pakistan Journal of Zoology*, 46(2), 377-382
14. R. Tayyab, N. Khan, M. S. Mughal, N. A. Qureshi, **Khan, M. N.** and F. Rasool (2014). Evaluation of Locally Available Plant Meals as a Replacement of Soybean Meal as Dietary Protein Source for



*Catla catla* Fingerlings. *Pakistan Journal of Zoology*, 46: 61-66

15. **Khan, M.N.** (2014). Prospects of Cage aquaculture along the Persian Gulf coast of United Arab Emirates. *Journal of Aquaculture Research and Development*, 6(6):38
16. **Khan, M.N.** (2014). Prospects of aquaculture along the Arabian Sea coast, Pakistan. In Proceedings of the World Aquaculture Adelaide 2014, World Aquaculture Society, (M.H. Schwartz, Ed.), June 7-11, 2014), **Adelaide, Australia**.
17. Saima, S., Cheema, A.M. and **Khan, M.N.** (2012). Anthropometric correlates of blood pressure in hypertensive subjects in Lahore, Pakistan. *South East Asia Journal of Public Health* 2012; 2(2) : 22-27.
18. Saima S., Cheema, A.M. and **Khan, M.N.** (2012). Significant high lipid profile in pre-hypertensive subjects as compare to stage 1 and stage 2 of hypertensive subjects. *Medical Forum Monthly*: December 2012, 23:12, 37-41
19. Farasat, T., Cheema, A.M. and **Khan, M.N.** (2012). Hyperinsulinemia and insulin resistance is associated with low T3/T4 ratio in pre-diabetic euthyroid Pakistani subjects. *Journal of Diabetes and its Complications*: Online Elsevier Journal:
20. Farasat, T., Cheema, A.M. and **Khan, M.N.** (2011). Relationship of Thyroid Hormones with Serum Fasting Insulin and Insulin Resistance in Euthyroid Glycemic Anomalies. *Pakistan Journal of Zoology*, 43(2), 379-386
21. Farasat, T., Cheema, A.M. and **Khan, M.N.** (2011). Serum fasting insulin and insulin resistance are associated with low T3/T4 ratio in euthyroid Pakistani subjects. 8th Annual World Congress on Insulin Resistance, Diabetes and Cardiovascular Diseases (WCIRDC), Los Angeles CA, USA, November 4-6, 2010. *Journal of Diabetes*
22. Farasat, T., Cheema, A.M. and **Khan, M.N.** (2009). Thyrotropin and thyroxine are associated with fasting insulin and insulin resistance in euthyroid impaired glucose tolerant subjects. *Swiss Med. Journal SMW* 18-12813
23. Farasat, T., **Khan, M.N.** and Cheema, A.M. (2009). Triiodothyronin and thyroxin are associated with insulin resistance in euthyroid impaired glucose tolerant subjects. *Endocrine Abstracts* (2009): 20 P422, 3rd International Congress on Prediabetes and the Metabolic Syndrome April 1-4, 2009 Nice, France. Poster presentation A-113-0000-0020.
24. **Khan, M.N.** and Janjua, M.Y. (2006). Improvement in fisher health & safety through poverty alleviation: A case study on the Indus basin fishing communities in Pakistan. In Proceedings of the 2nd International Fishing Industry Safety & Health Conference 22-24 September, 2003 (N.A. Mode, P. Wopat and G.A. Conway, Eds.), pp.89-101, National Institute of Occupational Safety & Health, Sitka, Alaska, U.S.A.
25. Shahla, M.N., Obaid, U., **Khan, M.N.**, and Riazuddin, S. (2006). Identification of a new genetic variant in cattle alpha 1a gene (Locus EF121956, GI 119393698, 301 bp DNA linear MAM 19, Bos Taurus alpha lactalbumin gene, exon 2 and partial cds.). *Bankit Nucleotide* 862198
26. **Khan, M.N.**, Renaud, R., and Leatherland. J.F. (1997). Steroid metabolism by embryonic tissues of Arctic charr, *Salvelinus alpinus*. *Gen. Comp. Endocrinol.* 105:344-357.
27. **Khan, M.N.**, Renaud, R., and Leatherland. J.F. (1997). Metabolism by embryonic tissues of Arctic charr, *Salvelinus alpinus*. *Gen. Comp. Endocrinol.* 107:118-127.

28. **Khan, M.N.**, Reddy, P.K., Renaud, R., and Leatherland, J.F. (1997). Application of HPLC methods to identify plasma profiles of 11-oxygenated androgens and other steroids in female Arctic charr (*Salvelinus alpinus*) during gonadal recrudescence. *Comp. Biochem. Physiol.* 118C:221-227.
29. **Khan, M.N.**, Reddy, P.K., Renaud, R., and Leatherland, J.F. (1997). Effect of cortisol on the metabolism of 17-hydroxyprogesterone by Arctic charr and rainbow trout embryos. *Fish Physiol. Biochem.* 16:197-209.
30. **Khan, M.N.** (1996). Studies on the steroid hormone metabolism by Arctic Charr (*Salvelinus alpinus*) embryos. Ph.D. Thesis, University of Guelph, Ontario, Canada. Pp 210.
31. **Khan, M.N.**, Renaud, R., and Leatherland, J.F. (1996). Plasma steroid hormone profile in an anovulatory Arctic charr, *Salvelinus alpinus* (L.), exhibiting ovarian cysts. *J. Fish Dis.* 19:389-394.
32. **Khan, M.N.**, Renaud, R. and Leatherland, J.F. (1996). Arctic charr embryos can inactivate steroid hormones *in vitro*. *Biol. Reprod.* 54: 93-93, (Suppl. 1).
33. Leatherland, J.F., Brett, S., Fabridge, K., Holloway, A., **Khan, M.N.**, Lin, L., and Reddy, P.K. (1995). Rainbow trout: Following the lunar and diurnal cycles of fish, maximizing feed conversion & growth. *Agri-food Reserarch* 18:2-7.
34. Reddy, P.K., Leatherland, J.F., **Khan, M.N.**, and Boujard, T. (1994). Effect of the daily mealtime on the growth of rainbow trout fed different ratio levels. *Aquaculture International* 2:265-179.

#### **B). International Refereed Conference Proceedings:**

- Farasat, T., Cheema, A.M. & Khan, M.N. Correlation among BMI, Fasting Plasma Glucose and HbA1c Levels in Subjects with Glycemic Anomalies Visiting Diabetic Clinics of Lahore. Oral presentation at the 12th Pan Arab Conference on Diabetes PACD12 held on March 25 2008, **Cairo, Egypt**.
- Khan, M.N., Renaud, R.L. and Leatherland, J.F. (1996). Synthesis of free and conjugated 17a, 20b-dihydroxy-4-pregnene-3-one by embryos of Arctic charr (*Salvelinus alpinus*). In Proceedings of the International Congress on the Biology of Fishes (D.D. Mackinlay and M. Eldridge, Eds.), pp. 85-93, San Francisco State University, **San Francisco, USA**.
- Khan, M.N., Reddy, P.K. Renaud, R.L. and Leatherland, J.F. (1996). *In vitro* cortisol metabolism by embryonic tissues of Arctic charr and rainbow trout. In Proceedings of the International Congress on the Biology of Fishes: (D.D. Mackinlay and M. Eldridge, Eds.) pp. 179-187. San Francisco State University, **San Francisco, USA**.
- Khan, M.N., Renaud, R.L. and Leatherland, J.F. (1995). Correlation between plasma and egg steroid hormone content of Arctic charr. In Reproductive Physiology of Fish, 1995. Proceedings of the Fifth International Symposium on Reproductive Physiology of Fish (F.W. Goetz and P. Thomas, Eds.), p. 366. University of Texas, Austin, **Texas, USA**.

#### **C). International Conferences Abstracts:**

- Farasat, T., Cheema, A.M. & Khan, M.N. Prevalence of Insulin resistance and its relationship with glycosylated hemoglobin in newly diagnosed glycemic anomalies visiting diabetic clinics of Lahore-Pakistan. E-Poster in the *7th Annual World Congress on Insulin Resistance*, **San Francisco, California, U.S.A.**, November 5-7, 2009. (Abstract # 62)
- Farasat, T., Cheema, A.M. and Khan, M.N. Homeostatic relationship of insulin and triiodothyronin in impaired glucose tolerant and type 2 diabetic subjects. Abstract Published: A-09-1736-EASD (submitted in *Diabetes care*), **Washington D.C, USA**.
- Khan, M.N. & Janjua, M.Y. (2009). Plight of fishermen health & safety in Pakistan and its improvement by changes in loan credit system and resource rights. In 4<sup>th</sup> International Fisheries Industry Safety & Health Conference, 10-14, May, 2009, **Reykjavik, Iceland**.
- Khan, M.N. & Janjua M.Y. (2005). Development of higher education institutions in Pakistan through quality assurance, enabling environment and good governance. In Proceedings of the International Conference on Healthy University, November 20-22, 2005, Universiti Sains Malaysia, **Penang**,

**Malaysia.**

- Khan, M.N. & Janjua, Y. (2005). Promotion of Inland Recreational Fisheries in Developing Countries:- A South East Asian Prospective. *In Proceedings of the World Recreational Fishing Conference, 12th - 16th June 2005, (Paper Accepted December 4, 2004), Trondheim, Norway*
- Khan, M.N. & Janjua, Y. (2005). Prevention of fish zoonotic diseases through occupational health and safety in aquaculture industry in Pakistan. *In Proceedings of the 3<sup>rd</sup> Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) & National Symposium, 9-10 February 2005 (Paper Accepted on January 28, 2005 but conference not attended), Punjab Agriculture University Ludhiana, India.*
- Khan, M.N. & Janjua, Y. (2004). Water conservation and aquaculture development through small scale dams reservoirs in Northern Punjab, Pakistan. *In Proceedings of the 7<sup>th</sup> Intecol International Utrecht 2004 Wetlands Conference, 25-30 July, 2004 (Paper Accepted on Jan 16, 2004 but conference not attended), University of Utrecht, Utrecht, The Netherlands.*
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**D. National Conferences Abstracts:**

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- Khan, M.N. and Janjua, M.Y. (2005). Promotion of inland recreational fisheries in developing countries: - A South East Asian Prospective. In Proceeding of 33<sup>rd</sup> Congress of Zoology, Pakistan Museum of Natural History, Islamabad/PMAS Arid Agriculture University, Rawalpindi, 2-4 April,

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  - Khan, M.N. & Janjua, Y. (2004). WTO implications on livestock: Farmers readiness. *In Proceedings Seminar on the implications on the export/import of livestock and its products*, Livestock & Dairy Development Department, Government of Punjab & University of Veterinary & Animal Sciences, Lahore, January 29, 2004
  - Khan, M.N. & Janjua, Y. (2003). WTO implications on fisheries. *In Proceedings Seminar on WTO Implications on Livestock, Poultry and Fisheries*, University of Veterinary & Animal Sciences, Lahore, Nov 19, 2003.
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  - Tahir, S., Khan, Z.U., Hayyat, S., and Khan, M.N. (2001). Evaluation of poultry feeds for growth and survival of *Cyprinus carpio* under mono-culture system. *In Symposium on untapped fisheries resources of Pakistan*, University of Karachi, Karachi, 23-25 February, 2001. Abstract of Papers, *Pak. Fish. Soc.* 72.
  - Tahir, S., Asif, A., Hayyat, S., and Khan, M.N. (2001). Evaluation of protein contents of various agriculture by-products used in fish feed. *In Symposium on untapped fisheries resources of*

Pakistan, University of Karachi, Karachi, 23-25 February, 2001. Abstract of Papers, *Pak. Fish. Soc.* 73.

- Khan, M.N. and Leatherland, J.F. (2000). Embryogenesis in Arctic charr (*Salvelinus alpinus*). In Proceeding International Symposium on Fisheries & Modern Aquaculture, Department of Fisheries, Punjab, Lahore. 28-29 April, 2000. Abstract of Papers, *Pak. Fish. Soc.*
- Iqbal, Z., Minhas, I.B., and Khan, M.N. (2000). Aquaculture Development in Punjab, Pakistan-A case studies. In Proceeding 2<sup>nd</sup> International Science Conference, Institute of Chemical Engineering & Technology, University of Punjab, Lahore. 26-28 October, 2000. Abstract Book, *Science International: Fish.2:25*.
- Khan, M.N. and Naeem, M. (1992). Fecundity and induced spawning of Major and Chinese carps at Fish Seed Hatchery And Research Center, Islamabad. In Proceeding 12<sup>th</sup> Pakistan Congress of Zoology, Government College Lahore. 11-12 April, 1992. Abstracts of Papers, *Zoo. Soc. Pak.*, FA-7:62.
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- Cheema, A.M., and Khan, M.N. (1983). Phosphatases of accessory sex organs in untreated and glibenclamide treated alloxan-diabetic male rats. In Proceeding 4<sup>th</sup> Pakistan Congress of Zoology. University of Peshawar, Peshawar. 20-23 December, 1983, Abstracts of Papers, *Zoo. Soc. Pak.*, CBGP-16:15-16.

#### Conferences

##### ■ INTERNATIONAL:

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- Western Division, American Fisheries Society, WDAFS Annual Conference, Missoula, Montana, USA, May 22-26, 2017.
- Erasmus Mundus LEADER Academic Staff Exchange, University of Crete, Greece, September-December 2016.
- Western Division, American Fisheries Society, WDAFS Annual Conference, Reno, Nevada, USA, March 21-24, 2016.
- Erasmus Mundus EXPERTS SUSTAIN Post-Doc Fellow, University of Zagreb, Croatia, September, 2015 to March, 2016.
- Visiting Guest Professor, University of South Bohemia in Ceske Budejovice, Czech Republic, February, 2016.
- Visiting Guest Professor, NARIC-Research Institute for Fisheries & Aquaculture (HAKI), Szarvas, Hungary, January, 2016.
- **Recipient of FAO / Michigan State University Travel Grant** for Global Inland Fisheries Conference, 26-30 January, 2015, **Rome, Italy**.
- Annual Conference of European Association of University Professors (EuAUP), Zagreb, Croatia, October 30, 2015.
- OMICS International Conference on Aquaculture & Fisheries "Aquaculture-2015", Park Regis North Quay, **Brisbane, Australia**, July 20-22, 2015.
- Global Conference on inland fisheries; Freshwater, Fish and the Future: Cross-sectoral approaches to sustain livelihood, food security, and aquatic ecosystems, FAO Head Quarters, **Rome, Italy**, January 26-28, 2016.

- International Conference on Advances in Agricultural, Biological & Environmental Sciences (AABES-2014), October 15-16, 2014, Key-Note Speaker & Session Chair, **Dubai, UAE.**
  
- International Fisheries & International Aquaculture Fair "Nor Fishing & Aqua Nor Exhibitions-2014, Trondheim, Norway, August 19-22, 2014, Invited Official Guest of Nor Fishing Foundation, **Trondheim, Norway.**
  
- World Aquaculture Adelaide 2014, World Aquaculture Society, **Adelaide, Australia**, Invited Speaker, *Paper presented*, June 7-11, 2014.
  
- 2<sup>nd</sup> International Mangroves as Fish Habitat Symposium, 2014, Western Division Annual Meeting, Rethinking Fisheries Sustainability: The Future of Fisheries Science, American Fisheries Society, **Mazatlan, Mexico**, April, 7-11, 2014.
  
- International workshop Building a global model of mangrove fisheries values, Post Western Division Annual Meeting Workshop, American Fisheries Society, **Mazatlan, Mexico**, April, 12, 2014.
  
- Fourth International Fisheries Industry Safety and Health Conference, **Reykjavik, Iceland**, May 10-14, 2009.
  
- Educational and cultural delegation (Team leader) to **Istanbul, Turkey**, July 1-8, 2008.
  
- Global University Network for Innovation (GUNI) 4<sup>th</sup> International Barcelona Conference on Higher Education- New Challenges and Emerging roles for human and social development, 31<sup>st</sup> March-02 April, 2008, Technical University of Catalonia, **Barcelona, Spain.**
  
- Eco Summit 2007: Ecological complexity and Sustainability: Challenges and Opportunities for 21<sup>st</sup> Centurys Ecology, May 22-27, 2007. Beijing Jihua Resort & Convention Center, **Beijing, PR China.**
  
- International Conference on Environment: Survival and Sustainability, 19-24 February 2007, **Nicosia, Northern Cyprus.**
  
- International Conference on the Buddhist Manuscripts and Buddhist Studies, 20-21 October 2006, **Geumgang University, South Korea.**
  
- World University Presidents Summit:- Reflections on Diversity and Harmonization, 19-22 July, 2006, **Bangkok, Thailand.**
  
- International Conference on healthy university, 20-22 November 2005, University Sains Malaysia, **Penang, Malaysia.**

- 4th World Recreational Fisheries Conference! Fishing is Life: Building partnerships across boundaries. 12-16 June, 2005 - **Trondheim, Norway**.
  
- Workshop on Environmental Legislation and Policy - Environmental Impact Assessment, November 3-5, 2004, **University of Wales Swansea, UK**.
  
- Fourth World Fisheries Congress: Reconciling Fisheries with Conservation: The Challenge of Managing Aquatic Ecosystems, American Fisheries Society, **Vancouver, British Columbia, Canada**, May 2-6, 2004.
  
- Workshop on Introduction to Microcomputer Applications for Fisheries, **Simon Fraser University, Vancouver, British Columbia, Canada**, May 7, 2004.
  
- Signing MOU between Pakistan and Abu Dhabi: The International programme to save three endangered species of Vulture, Environmental Research and Wildlife Development Agency (ERWDA), **Abu Dhabi, UAE**, March 7-9, 2004.
  
- Katmandu Summit Meeting on Veterinary use of the drug Diclofenac: A new environmental threat exposed by the collapse of vulture populations in South Asia, The Peregrine Fund, USA, **Katmandu, Nepal**, 5-6 February, 2004.
  
- The 2<sup>nd</sup> International Fishing Industry Safety and Health Conference, Sitka, **Alaska, USA**, September 22-24, 2003.
  
- International Marine Shrimp Hatchery Operation & Management Course (July 12<sup>th</sup> August 22<sup>nd</sup> 2002), National Prawn Fry Production & Research Centre, Kota Kuala Muda, Kedah, **Malaysia** (2002).
  
- International Congress on the Biology of Fishes, San Francisco State University, **San Francisco, USA** (1996).
  
- 13<sup>th</sup> Annual meeting of the Aquaculture Association of Canada, Aquaculture Canada, 96, **Ottawa, Canada** (1996).
  
- 29<sup>th</sup> Annual Meeting of the Society for Study of Reproduction, **London, Ontario, Canada** (1996).
  
- 18<sup>th</sup> Annual Larval Fish Conference: American Fisheries Society, Huntsman Marine Science Center, St. Andrews, **New Brunswick, Canada** (1994).
  
- 32<sup>nd</sup> Annual Conference of Canadian Society of Zoologists, University of **Guelph, Ontario, Canada** (1993).



- International Congress on Comparative Endocrinology, **Toronto, Ontario, Canada** (1993).
- The Animal Activist Movement, University of **Guelph, Ontario, Canada** (1993).

**NATIONAL:**

- Green Punjab and CPEC-One Day National Agribusiness Conference, Institute of Agriculture Sciences, PU / Pearl Continental Hotel, Lahore, May 10, 2017.
- National Workshop on Recombinant DNA Technology, School of Biological Sciences (SBS), PU, April 03-08, 2017.
- Psychology for Change: Women and Community-One Day Symposium on International Women's Day, Institute of Applied Psychology, Al-Razi Hall, PU, March 21, 2017.
- 6th International Fisheries Symposium and Expo-17-Innovation and Sustainable Aquaculture for Blue Revolution, University of Veterinary & Animal Sciences (UVAS) / Faletti's Hotel, Lahore, February 8-9, 2017.
- 35th Pakistan Congress of Zoology, Centre of Excellence in Marine Biology, University of Karachi, March 1-4, 2015.
- Lahore Chamber of Commerce & Industry (LCCI) seminar Achieving Sustainable Economy by fully benefiting from China, LCCI, Lahore, September 4, 2014.
- International Conference on Innovative Biological and Public Health Research (IBPHR-2014), department of Zoology, GC University, Lahore, Chaired Session on Fishes, Wildlife & Paleontology, May 06-08, 2014.
- FEEDing Pakistan Aquaculture Conference, Small Trade Show & Scientific Poster Display, American Soybean Association (ASA), Crystal Ball Room, Pearl Continental Hotel, Lahore, April 2-3, 2014.
- National Conference on Pakistans Marine Resources: Present Scenario & Futuristic Potential, Sustainable Fisheries & Aquaculture Development in Pakistan, *The Environ Monitor*, Ambassador Hotel, Lahore, March 15, 2014.
- 34th Pakistan Congress of Zoology, (International congress), Zoological Society of Pakistan, Pakistan, Bahauddin Zakariya University, Multan, Plenary Lecture, Review of Fisheries Development in Pakistan, Vision 2020, Session on Fisheries Chaired & Referee Judge, Students Posters Competition, February 25-27, 2014.
- Strategy Meeting for Handbook Aquaculture Nutrition, (Kevin, Fitzsimons Ed.), American Soybean Association (ASA), Pearl Continental Hotel, Lahore, October 3-4, 2013.
- 33rd Pakistan Congress of Zoology, (International congress), Zoological Society of Pakistan, Pakistan Museum of Natural History, Islamabad/PMAS Arid Agriculture University, Rawalpindi, Chair, Session on Fisheries, April 2-4, 2013.
- INSPIRE: International Strategic Partnerships in Research & Education, One day conference on Fisheries & Aquaculture entitled Developing Strategies to monitor Indus River Pollution in Mianwali Region of Pakistan by using fish as a potential bio-indicator. *WTO Quality Control & Environmental Regime in Fisheries & Aquaculture Trade*, Government College University(GCU), Faisalabad, July 11, 2012.
- National seminar on Management of open water Fisheries in Pakistan, issues and options, *Promotion of recreational fisheries in Pakistan*, Department of Fisheries, Government of the Punjab, Chashma Lake, District Mianwali, April 28, 2012.
- Training Seminar on Aquaponics, Department of Zoology, University of the Punjab, Lahore, March 20-22, 2012.
- National seminar on World Water Day 2012, Water and Food Security, *Water cycle & aquaculture*, University of Veterinary & Animal Sciences (UVAS), Ravi Campus, Pattoki-Pakistan, March 22, 2012.
- 32<sup>nd</sup> Pakistan Congress of Zoology, (International congress), Zoological Society of Pakistan, Government College University Lahore, Chair, Session on Fisheries, March 6-8, 2012.
- National seminar on Conservation and Management of Fisheries Resources at Chashma Lake,

- WTO Regime and Environmental Conservation of Fisheries resources*, Department of Fisheries, Government of the Punjab, Chashma Lake, District Mianwali, June 14, 2011.
- First International Conference on Assessing Quality in Higher Education, UNESCO-HEC-Punjab University, Pearl Continental Hotel, Lahore, December 11-13, 2006.
  - International Conference on Solving problems of freshwater fish farming in Pakistan, Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore, November 27-28, 2006.
  - 25<sup>th</sup> Pakistan Congress of Zoology, (International congress), Sindh Agriculture University Tandojam, March 1-3, 2005, Plenary Lecture on Promotion of inland recreational fisheries in developing countries:- A South East Asian Prospective Joint Session II, March 2, 2005.
  - Freshwater Biodiversity Conservation Assessment Management Plan (Camp) Workshop, IUCN, Dreamland Hotel, Islamabad, 13-17, December, 2004.
  - 5<sup>th</sup> South Asian Zoo Association for Regional Cooperation (SAZARC) Conference, Sun Fort Lahore, December 3-4, 2004
  - International Nutrition Conference-2004, Pearl Continental, Lahore, December 1-2, 2004.
  - Workshop on Zoo Management and Small Mammals Handling Technique, South Asian Zoo Association for Regional Cooperation (SAZARC), Lahore Zoo, October 14, 2004.
  - National vulture conservational workshop (WWF, IUCN & NCCW), WWF, Lahore, September 2, 2004.
  - National Seminar & Expo on the occasion of World Environment Day 2004, Wanted Oceans and Seas: Dead or Alive (Invited Speaker on Protection of Coral Reefs), *Environ Monitor*, Lahore, June 5, 2004.
  - Second National Biological Conference, Government College University, Lahore April 24, 2004.
  - National Conference on: Role of Agriculture in poverty alleviation (Invited Speaker): *Role of Fisheries in Rural Development and Poverty Alleviation*. (Agriculture Foundation of Pakistan, PARC, PSF), NARC, Islamabad, April 21-23, 2004.
  - National Poultry Congress 2004, Pakistan Poultry Association (Punjab Zone), Pearl-Continental Hotel, Lahore, April 9-10, 2004.
  - 24<sup>th</sup> Pakistan Congress of Zoology, (International congress), Allama Iqbal Open University, Islamabad, March 30-April 1, 2004, Plenary Lecture on Implications of WTO on Animal Trade Joint Session III, April 1, 2004
  - Symposium-Workshop on: Applications of Molecular Biological Research in Agriculture and Health, National Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore, March 27-30, 2004.
  - National Seminar & Expo on the occasion of World Water Day 2004, Lahore Chamber of Commerce & Industry (LCCI), (Co-Chair, Technical Session) Lahore, March 22, 2004.
  - World Wetland Day 2004 From the Mountains to the Sea- Wetlands at Work for us, (IUCN, WWF, SWD), Haleji Lake, Sindh, February 26, 2004.
  - Marine Environment 2004:-Resource, Pollution & Management 2004 (DFID, British Council & CEMB), University of Karachi, Karachi, 20-21 February 2004.
  - Air, Water and Ecosystem: Our Childrens Heritage, (DFID, British Council & CEMG), University of Karachi, Karachi, February 21, 2004.
  - Farmers Readiness for WTO, L&DDD, Government of Punjab, January 29, 2004.
  - Zoo Conservation Planning Group, WWF, Lahore, 26-27, August, 2003
  - Mammalian Biodiversity Conservation Assessment Management Plan (Camp) Workshop IUCN, Margalla Motel, Islamabad, August, 2003.
  - International Animal Nutrition Conference, UVAS, 19-20, March 2003.
  - 23<sup>rd</sup> Pakistan Congress of Zoology, (International congress), University of Arid Agriculture, Rawalpindi, March 03-05, 2003.
  - 22<sup>nd</sup> Pakistan Congress of Zoology, (International congress), Zoological society of Pakistan, University of Azad Jammu & Kashmir, Muzafarabad, March 15-17, 2002.
  - Workshop on Economics and Biodiversity Conservation: Awareness, Review and Education (IUCN), Margalla Motel, Islamabad, May 28, 2001.
  - 21<sup>st</sup> Pakistan Congress of Zoology, (International congress), Zoological Society of Pakistan, University of Agriculture, Faisalabad, March 15-17, 2001.

- Second Symposium on Untapped Fisheries Resources of Pakistan, Pakistan Fisheries Society, University of Karachi, February 23-25, 2001
- National Wetlands Inception Workshop Protection & and Management of Pakistan Wetland Project (WWF) Marriot Hotel, Islamabad, February 2, 2001.
- Arid Region Wetlands Inception Workshop Protection & Management of Pakistan Wetland Project (WWF) Sunfort Hotel, Lahore, January 11, 2001.
- International Science Conference, University of Punjab, Oct. 26-28, 2000.
- 20<sup>th</sup> Pakistan Congress of Zoology, Zoological Society of Pakistan, University of the Sindh, Jamshoro, March 28-29, 2000.
- First International Symposium on Fisheries and Aquaculture, Pakistan Fisheries Society, Fisheries Research & Training Institute, Lahore, April 28-29, 2000.
- 19<sup>th</sup> Pakistan Congress of Zoology, Zoological Society of Pakistan, Pakistan Agriculture Research Council, Islamabad (1999).
- Wildlife Management at the Millenium-Pakistan, Forest, Fisheries, Wildlife & Tourism Department, Punjab, Lahore, June 22-23, 1999.
- Prospects of Developing Agriculture in Barani Areas, Pakistan Academy for Rural Development, Peshawar (1997).
- 12<sup>th</sup> Pakistan Congress of Zoology, Zoological Society of Pakistan, Govt. College Lahore (1992).
- Computer Certificate, Pakistan Computer Bureau, Islamabad (1992).
- Computer Certificate, International Islamic University, Islamabad (1991).
- Agricultural Development Projects, P&D Department Punjab, Lahore, (1987).
- 4<sup>th</sup> Pakistan Congress of Zoology, Zoological Society of Pakistan, University of Peshawar, Peshawar (1983).

#### Seminars

##### Seminars/Symposia Organized

- *Poster Competition on Fisheries & Aquatic Environment* by Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore, April, 17, 2004.
- *National Seminar on Wildlife Education & Research* by Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore, January 26, 2004.
- *Khabrain Forum on WTO, With Hummayun AkhtarKhan, Federal Minister for Commerce & Trade, The daily Khabrain, Lahore, October 29, 2003.*
- *Aquatic biodiversity* by Dr. M.R. Mirza, Professor, Govt. College, Lahore, Fisheries Research & Training Institute, Lahore, November 20, 2000.
- *Aquatic pollution & fish toxicology* by Dr. A.R. Shakoori, Professor Department of Zoology, University of the Punjab, Lahore, Fisheries Research & Training Institute, Lahore, November 23, 2000.
- *Fish feed technologies for aquaculture development* by Fisheries Research & Training Institute, Lahore & Texas A & M University, Texas, USA, December 5, 2000.
- *ISO 9002 certification for Fisheries Research & Training Institute, Lahore* by M/S Systems 9000, Lahore, August 27, 2001.
- *Seepage control and water conservation technologies for fish farming* by Fisheries Research & Training Institute, Lahore & M/S Engro Asahi Polymers & Chemicals (Japan) Ltd., October 17, 2001.

#### Memberships

- Member, Western Division, American Fisheries Society, USA (AFS), 2014.
- Member, World Aquaculture Society (WAS), 2014
- Member, International Steering Committee, Fifth World Fisheries Congress, Yokohama, Japan, 2008.
- Member, International Steering Committee, Fourth World Fisheries Congress, Vancouver, B.C, Canada, May 2-7, 2004.
- Member, International Advisory Council, American Fisheries Society.
- Member, World Council of Fisheries Societies, USA.
- Member, Global Fisheries Ecosystem Management Network (GFEMN), Global Environment

Facility (GEF)/World Bank.

- Member, National Technical Committee, Federal Ministry of Environment, Islamabad.
- Asian Development Bank (ADB)/Government of Pakistan postgraduate fellowship
- National Sciences and Engineering Council of Canada (NSERC) research grant
- Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) research grant
- Member, Aquaculture Association of Canada
- Member, Canadian Society of Zoology
- Member, American Fisheries Society, USA
- Member, Society for the Study of Reproduction, USA
- Member, International Federation of Comparative Endocrinological Societies
- Country Representative, Network of Aquaculture in Asia and Pacific (NACA) 1988
- Member, Zoological Society of Pakistan
- Member, Pakistan Fisheries Society
- Member, University of Veterinary & Animal Sciences, Lahore Alumni Association
- Member, All Pakistan Association of Oceaners (APNAO)
- Member, Editorial Committee *Pakistan Journal of Zoology*
- Member, Editorial Committee *Pakistan Journal of Fisheries*
- Member, All Muslim Association for Advancement of Science, Pakistan (AMAS)
- Member, Board of Studies, Lahore College for Women, Lahore.
- Member, Selection Board, Lahore College for Women University, Lahore (2010)
- Member, Selection Board, Bahauddin Zakariya University (BZU), Multan (2010)
- Member, Bio Safety Committee, University of the Punjab, Lahore.
- Member, and Secretary, Admission Committee, University of the Punjab, Lahore.
- Member, Doctoral Program Coordination Committee (DPCC), University of the Punjab, Lahore.
- Member, Working Group, Fisheries Sector, Forest Wildlife & Fisheries Department, Government of Punjab.

#### References

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