

CURRICULAM VITAE

Name Prof. Dr. Muhammad Naeem
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Permanent Noor Muhammad Iron Merchant
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EDUCATION

Ph.D (Zoology) with specialization in fisheries Bahauddin Zakariya University Multan.
M.Sc. (Zoology), with applied fisheries Bahauddin Zakariya University Multan
B.Sc. (Zoology. Botany.and Chemistry.) Government College, Lahore
B. Ed (Physics & Biology) AIOU, Islamabad

LIST OF M.Sc/BS/M.Phil/ Ph.D SCHOLAR SUPERVISED

NO OF PH.D SCHOLORS	Degree Awarded	18
	Thesis Submitted	03
	Registered	02
	Synopsis approved from BOS	00
NO OF M.PHIL PRODUCED		121
NO OF M.PHIL REGISTERED		08
NO OF M.Sc/BS PRODUCED		105
NO OF M.Sc/BS REGISTERED		03

KEY QUALIFICATIONS:

More than thirteen years experience in a broad range of aquaculture and fisheries resources management initiatives, in **Punjab**. Experience as an induced spawning specialist and worked on rearing of key fish species i.e., major and Chinese carps. Studies conducted on pond management, body composition, elemental concentration, morphometric and fish diseases. Having strong research skills in soil and water analysis, conservation of natural water resources and technical report writing and presentation.

For the last more than Eleven years involved in the teaching and research in aquaculture & fisheries and water quality in Bahauddin Zakariya University Multan, Pakistan.

EMPLOYMENT RECORD:

Fisheries Research Assistant: Fisheries Department Government of the Punjab.

Worked as Fisheries Research Assistant (1990-1995) at Fish Seed Hatchery Islamabad: - Management of fish seed production, induced spawning, brood stock maintenance and rearing of fish seed and supply to private and government sectors w.e.f 25 November 1990 to April 1996.

Incharge Soil and Water Analysis Laboratory: At Training Sub-Center Islamabad 1996 - 2000 and the main duties were:-

- Analysis of soil and water for private fish farms and assess suitability;
- To organize training courses for the trainees from the Fisheries Department and Private fish farmers;
- To deliver lectures to the trainees on different topics of Aquaculture and Fisheries
- Involved in induced breeding of indigenous and exotic fishes and
- Job also includes provision of extension services in Islamabad and Rawalpindi area.

Incharge Disease Diagnostic, Soil and Water Analysis Laboratory: At Fish Seed Hatchery Rawal Town, Islamabad from 2000 to Feb 2003 and the main duties in addition to above are to deal with disease related aspects of fisheries.

Lecturer in Microbiology:

Working as Lecturer in microbiology since 24-02-2004. to 10-08-2007 Involved in the teaching and research in water quality, aquaculture& fisheries and microbiology

Assistant Professor of Zoology:

Working as Assistant Professor of Zoology since 11-08-2007 to 14-12-2010 Involved in the teaching and research in water quality, aquaculture& fisheries and microbiology

Associate Professor of Zoology:

Working as Associate Professor of Zoology since 15-12-2010 to 24-10-2015 Involved in the teaching and research.

Professor of Zoology:

Working as Professor of Zoology since 25-10-2015 to date Involved in the teaching and research.

Director

Worked as the Director, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan, since 01-01-2017 to 31-12-2019

DETAILED TASKS ASSIGNED:

- Have experience in almost all fields of applied fisheries, working as Hatchery Manger managing fish breeding of Indian carps Common carp, Chinese carp and Trout in induce spawning by using pituitary gland and Ovaprim.
- Worked on various research projects related to Fisheries at Fisheries Research Laboratory Bahauddin Zakariya University Multan, Fisheries Research Centre Islamabad Worked on fish body composition, fish morphometry, condition factor, energy contents of fishes. Elemental

concentration with relation to body size and condition factor. Fish breeding and fecundity of Indian and Major carps.

- Supervised the research students of M.Sc, M.Phil and Ph.D

MEMBER OF ADMINISTRATIVE BODIES

1. Director, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan, since 01-01-2017 to date
2. Superintendent , Boys Hostel, Abubakar hall Bahauddin Zakariya University, Multan, since 025-01-2017 to 18-019.
3. Assistant Superintendent, Boys Hostel, Umer hall Bahauddin Zakariya University, Multan, since 25-02-2004 to 18-00-13.
4. Convener, Board of Studies in Zoology, Bahauddin Zakariya University, Multan from 01.01.2017 to – date.
5. Convener, Board of Studies in Botany, Bahauddin Zakariya University, Multan from 01.01.2017 to – date.
6. Convener, Board of Studies in Microbiology, Bahauddin Zakariya University, Multan from 01.01.2017 to – date.

SEMINARS ORGANIZED

1. “Intensification of fish culture to Increase Per Unit Area Fish Production in Farm Ponds Using Different Management Inputs” By Prof. Dr. Naeem Tariq Narejo, held On Monday, 9th January, 2017.
2. “Laboratory Diagnosis of Tuberculosis” by Dr Asghar Javed , held on Wednesday, January 25, 2017.
3. “Importance of mother feeding in infants” By Dr. Ibad Ali, 1st February, 2017
4. “Cancer: A curable Disease” by Prof. Dr. Ahmed Ijaz Masood, held on 16th February, 2017.
5. “Catfish culture, prospective and potential in Pakistan” By Prof. Dr. Naeem Tariq Narejo, held on Friday, 28th April, 2017
6. “Awareness of Breast Cancer” by Prof. Dr. Ahmed Ijaz Masood, held on Tuesday, 17th October, 2017.
7. **Micro**
8. “Abiotic Stress Tolerance in Plants” by Dr. Khurram Bashir, held on Monday, October 23, 2017.
9. “Importance of wetland in Wildlife “ by Mr. Ashiq Ahmad Khan Scientific Representative EvK2CNR, Islamabad Held on Monday, 30th October, 2017
10. Peace Music Tribute event on November 07, 2017
11. Peace Music Tribute event on December 07, 2017
12. “Preparation and Processing of Aqua Feed” By Prof. Dr. Naeem Tariq Narejo, held On Thursday, 14th December, 2017.
13. “Awareness of Fisheries Day Walk” Guest Speaker Prof. Dr. Naeem Tariq Narejo, held On Thursday, 14th December, 2017
14. “Hepatitis Awareness and Screening”, Guest Speaker Dr. Faiza Rafique, held on 17th September, 2018
15. “Freshwater Eel Culture” Guest Speaker Prof. Dr. Naeem Tariq Narejo, held On 16th November, 2018

16. "Rearing Techniques of Freshwater Fish *Rita rita* in Cemented Cisterns" Guest Speaker Dr. Shaista Jalbani, held On held On 16th November, 2018
17. "Fisheries Awareness Walk" held On held On 16th November, 2018
18. "Rational and Paradigm of Research", Guest Speaker Prof. Dr. Muhammad Ashraf, held on 14th January, 2019
19. "Project Launching Ceremony: Nawaa-e-Amn (Voice of Peace)", held on 14th January, 2019
20. "Issues in Aquatic Biodiversity Management in Punjab" Guest Speaker **Dr. Muhammad Ayub**, held on 19th February, 2019
21. **Climate Change on Aquaculture and Fisheries** Guest Speaker **Dr Atif Yaqub** held on 20th February, 2019
22. "Fish Hatchery Management" Speaker Prof. Dr Muhammad Naeem held on 22nd April, 2019

TRAINING WORKSHOP/ CONFERENCE ABROAD:

1. Attended International Union of Biological Sciences Reproductive Biology of Aquaculture Training Workshop at National University of **Singapore** and presented research paper.
2. 3rd Graduate Congress in 1998 at National University of **Singapore**.
3. Attended three months TCDC international training course on integrated fish farming from April, 10 to July, 8, 2001 in **Wuxi China**.
4. The 6th UNU-ORI joint International Workshop on Marine Environment Sustainable Management Of Coastal And Marine Resources **Otsuchi, Japan**: 24-30 October, 2005
5. 10th Biological Science Graduate Congress at DBS, National University of **Singapore**, 30 November 2005 - 02 December 2005.
6. Singapore International Chemical Conference at Department of Chemistry, National University of **Singapore**. 8-10 December 2005.
7. Attended and presented TWO Research Papers in International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2010) held in **Cairo, Egypt** during 2 - 4 November, 2010
8. Attended and presented ONE research papers in International Conference on Bioscience, Biochemistry and Bioinformatics (ICBBB 2011) held in **Singapore**. During 26-28 February, 2011.
9. Attended and presented ONE research papers in (ICBBE 2011) : International Conference on Bioinformatics and Biomedical Engineering, held in Amsterdam, The **Netherlands**, during July 13-15, 2011.
10. Attended and presented ONE research papers in (ICANRE 2011). International Conference on Agricultural and Natural Resources Engineering During 28-30 November, 2011 held in Italy, Venice.
11. Attended and presented ONE research papers in 2015-International Symposium on Life Science & Biological Engineering held on June 27-29, 2015 at Bangkok, Thailand.
12. **Attended** and presented ONE research papers in TIIKM's 2nd International Conference on Fisheries and Aquaculture (ICFA) 2015 in Colombo, Sri Lanka on 25-26 Aug 2015.

OTHER TRAINING

1. Computer course in Lotus 1-2-3 from Islamic International University, Islamabad.
2. Fifteen days course on “Fish Health” at Fisheries Research and Training Institute, Lahore (May, 1991)
3. Certificate in drug abuse from Allama Iqbal Open University, Islamabad.
4. Two days workshop on “Natural Resources” at Fisheries Research and Training Institute Manawan, Lahore.
5. Fifteen day training on “National Resource Management” at Fisheries Research and Training Institute Manawan, Lahore.
6. Fifteen days training on “Induced Spawning of Chinese and Major carps” at Fisheries Research and Training Institute Manawan, Lahore.
7. One month training on “Soil and Water Analysis” at Fisheries Research and Training Institute Manawan, Lahore.
8. Fifteen day training on “Fish breeding” at Fisheries Research and Training Institute Manawan, Lahore
9. Five days training on Operational/Troubleshooting on Atomic Absorption Spectroscopy from Pakistan Council of Science & Industrial Research(PCSIR) February 4 – 8, 2002.
10. Five days training on Operational/ Troubleshooting on High Performance of Liquid Chrometography from Pakistan Council of Science & Industrial Research (PCSIR) April, 9 – 13, 2002
11. One month Computer course on “Fundamental of electronic office” from 18th February,2002 to 20th March,2002 from Buraq IT School, Rawalpindi with the collaboration of Pakistan Computer Bureau, Islamabad.
12. Three days Academic Workshop on effective PhD Supervision held at Islamia University Bahawalpur on March, 15-17, 2011
13. Two days Regional Consultation workshop on “ Brood-stock Management and Dissemination of Improved Fish Breed In SAARC Countries” Jointly Organized by SAARC Agriculture Centre(SAC) and Pakistan Agriculture Research Council(PARC), Islamabad, Pakistan during 13-14 March, 2012 at Pakistan Agriculture Research Council(PARC), Islamabad, Pakistan
11. Three days training on “Culture and Breeding of American Channel Catfish (*Ictalurus punctatus*)” under PSDP Project Establishment of American Channel Catfish Hatchery at National Agricultural Research Center, Islamabad, 31st May – 2nd June 2016.

Members Editorial Board

- University of Sindh Journal of Animal Sciences (USJAS)

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- Fellow Zoological Society of Pakistan
- Fellow Pakistan Fisheries Society

Member Board of Studies

- Convener Board of Studies in Institute of Pure and Applied Biology, Zoology Division, Bahauddin Zakariya University, Multan vide letter No. Acad/BOS/Zoology/4287, dated 07-04-2017.

- Convener Board of Studies in Institute of Pure and Applied Biology, Botany Division, Bahauddin Zakariya University, Multan vide letter No. Acad/BOS/Botany/4433, dated 11-04-2017.
- Convener Board of Studies in Institute of Pure and Applied Biology, Microbiology Division, Bahauddin Zakariya University, Multan vide letter No. Acad/BOS/Botany/4433, dated 11-04-2017.
- Member Board of Studies in Department of Veterinary and Animal Sciences, Muhammad Nawaz Shareef University of Agriculture, Multan, vide letter No. MNS-UAM / ro-57 / 0201, dated 16-01-2018.
- Member Board of Studies in Department of Zoology, University of Sargodha, Sargodha, vide letter No. UOS/Acad/1007, dated 30-12-2016.
- Member Board of Studies in Department of Freshwater Biology and Fisheries, University of Sindh, Jamshoro, vide letter No. AC-I/BoS-FWB&F/406, dated 17-10-2016.
- Member Board of Studies in Department of Zoology, Government College University, Lahore, vide letter No.
- Member Board of Studies in Department of Zoology, Women University, Multan, vide letter No. 1-18/ACAD-II/WUM/195/D, dated 22-10-2018
- Expert, Board of Studies of Genetics, University of Okara, Okara, vide letter No. UO/ARA/2019/62, dated 30-07-2019
- Subject Expert (Fisheries), Departmental Doctoral Program Committee (DDPC) of Department of Zoology, The Women University Multan, letter No. 1-19/ACAD-III/BASR/WUM/40/D, dated 25-04-2019.
- Member Board of Studies in Department of Veterinary and Animal Sciences, Muhammad Nawaz Shareef University of Agriculture, Multan, vide letter No. MNS-UAM / Ro-41 / 0168, dated 01-04-2021.
- Member Board of Studies in Department of Veterinary and Animal Sciences, Muhammad Nawaz Shareef University of Agriculture, Multan, vide letter No. MNS-UAM / Ro-41 / 0168, dated 01-04-2021.
- Member Board of Studies in Department of Zoology, The Islamia University of Bahawalpur, , vide letter No. 240/DOA , dated 31-01-2022.

EXAMINER OF PHD THESIS

1. **Nusrat Ullah** (2021). “ Fish Biodiversity in Relation to Aquatic Biota of Sonamiani Balouchistan, Pakistan”. University of Sindh No: DRGS/TS/2021 Dated 24-02-2021. (For Report and Viva)
2. **Syeda Samee Zuhra**. (2021). “ Heat Stress Vulnerability and Its Associated Health Impact on Kidney Stone Patients in Selected Areas of Punjab, Pakistan”. GC University Lahore. No: 2560/C/E Dated 24-03-2021. (for Viva Only)

MEMBER OF NATIONAL CURRICULAM REVIOSION COMMITTEE (NCRC)

- Member of National Curriculum Revision Committee (NCRC) in the subject of zoology for Bachelor and Master degree program on dated April 09-11, 2018 at HEC Regional centre Lahore Vide No. 9-42(Zoology)/Acad (Curri)/HEC/2017/2022 Dated March 20, 2018.
- Member of National Curriculum Revision Committee (NCRC) in the subject of zoology (Final Draft) for Bachelor and Master degree program on dated May 02-04, 2018 at HEC Regional centre Lahore Vide No. 9-42(Zoology)/Acad (Curri)/HEC/2017/2022 Dated March 20, 2018.

SCIENTIFIC-TECHNICAL COMMITTEES AND EDITORIAL BOARDS

Scientific - Technical Committee and Editorial Board on Biological and Life Sciences of World Academy of Science, Engineering and Technology

RESEARCH PUBLICATIONS:

3. Salam, A., Khan, M. N. and **Naeem, M.**, 1991. Effect of body size and condition factor on body composition of an exotic fish, *Tilapia nilotica*. *Proc. Pakistan Congr. Zool.*, 11: 191-200.
4. Khan, M.N., Janjua, M. Y. and **Naeem, M.**, 1992. Breeding of carps with Ovaprim (LH-RH) Analogue at Fish Hatchery Islamabad. *Proc. Pak. Congr. Zool.*, 12: 545-552,
5. **Naeem, M.**, Salam, A. and Khan, M. N., 1992. Morphometric studies of an exotic fish, *Oreochromis nilotica* in relation to body size. *Proc. Pakistan Congr. Zool.*, 12: 599-605.
6. Javed, M. Y., Salam, A., Khan, M.N. and **Naeem, M.**, 1992. Body composition of male population of *Oreochromis nilotica* from a reservoir in relation to body weight and condition factor. *Proc. Pakistan Congr. Zool.*, 12: 325-333.
7. Javed, M. Y., Salam, A., Khan, M. N. and **Naeem, M.**, 1992. Weight length and condition factor relationship of a fresh water wild mahseer, *Tor putitora* from Islamabad. Pakistan. *Proc. Pakistan Congr. Zool.*, 12: 335-340.
8. Salam, A., **Naeem, M.** and Bokhari, Z., 1993. Weight-length and condition factor relationship of a freshwater Chinese Carp, *Aristichthys nobilis*, from Fish Hatchery, Islamabad, Pakistan. *J. Res. (Sci.)*, 5(2): 45-48.
9. Salam, A., Ansari, T. M., Akhtar, Q. A. and **Naeem, M.**, 1994. Changes in the elemental composition of River Mahseer, *Tor putitora* in relation to body size. *Acta. Sci.*, 4(1-2): 85-94.
10. Salam, A., **Naeem, M.**, Ansari, T. M., Mahmood, J. A. and Tariq, N., 1996. Effect of body size on trace metal concentrations in hatchery reared *Oreochromis nilotica*. *Biologia.*, 42(1-2): 19-26.
11. **Naeem, M.** Salam, A. and Bhatti, M. N., 2000. Morphometric studies of fresh water rainbow trout *Oncorhynchus mykiss* in relation to body size. *Pak. J. Fish.*, 1(1): 55-62.
12. **Naeem, M.** and Salam, A., 2004. Morphometric Studies on *Oreochromis nilotica* (Male) in relation to Body Size from Islamabad. Pakistan. *Punjab University Journal of Zoology.*, 19: 73-81.
13. Salam, A. and **Naeem, M.**, 2004. Some Morphometric Studies of Common Carp *Cyprinus Carpio* in relation to Body Size, from Islamabad, Pakistan. *Sindh University Research Journal (Sci.Ser.)*, 36(2): 21-28.
14. **Naeem, M.** and Salam . A., 2005. Morphometric Study of Fresh Water Bighead Carp *Aristichthys nobilis* From Pakistan In Relation To Body Size. Pakistan. *Journal of Biological Sciences.*, 8(5): 759-762.
15. **Naeem, M.** and Salam, A., 2005. Induced spawning of bighead carp *Aristichthys nobilis* by using ovaprim-C at fish hatchery Islamabad Pakistan. *Sindh University Research Journal (Sci. Ser.)*, 37(1): 9-16.
16. Salam, A., **Naeem, M.** and Kauser, S., 2005. Shehnaz Weight length and Condition Factor Relationship of a Fresh Water Wild *Puntius chola* From Islamabad, Pakistan Pakistan. *Journal of Biological Sciences.*, 8(8): 1112-1114.

17. **Naeem, M.**, Salam, A. and Diba, F., 2005. Fecundity and Induced Spawning of Silver carp, *Hypophthalmichthys molitrix* by using a Single Intramuscular Injection of Ovaprin –C at Fish Hatchery Islamabad, Pakistan. *Journal of Biological Sciences.*, 8(8): 1126-1130.
18. **Naeem, M.**, Salam, A. and Jafar A., 2005. Induced Spawning of Major carp *Catla catla* By a Single Intramuscular Injection of Ovaprim –C and Fecundity at Fish Hatchery Islamabad, Pakistan. *Journal of Biological Sciences.*, 5 (6): 776-780.
19. Ansari, T. M., Saeed, M.A., Raza, A., **Naeem, M.** and Salam, A., 2006 Effect of body size on metal concentrations in wild *Puntius chola* Pak. *J.Anal. & Envir. Chem.*, 7(2): 116-119.
20. Tasawar, Z., Naz, F., Lashari, M. H., Hayat, C. S., Ali B. S. H., **Naeem, M.** and Shaheen, R., 2009. Incidence of *Lernaeid* Parasites in *Catla catla* on a Fish Farm. *Sarhad. J. Agric.*, 25(2): 285-289.
21. **Naeem, M.**, Salam, A. and Anwar. Q. A., 2006. Morphometric study of wildcatfish *rita rita* from river chenab muzaffar garh pakistan in relation to body size. *Proc. Inter. Conf. on Solving Problem of Freshwater Fish Farming in Pakistan.*, 1 : 49-56.

PUBLICATION IN INTERNATIONAL PROCEEDINGS

22. **Naeem, M.**, Salam, A., Khokhar, M. Y. and Yar, R., 2010. To Study the Metal Composition of Edible Portion of Farmed Hybrid Fish (*Catla catla* ♂ AND × *Labeo rohita* ♀) in Relation to Body Size and Condition Factor from Multan, Pakistan. Proc Intern Confer on Bioinformatics and Biomedical Technology (ICBBT). 16 – 18 April 2010 Chengdu, China 425-429. **(Indexed by Thomson ISI Proceeding)**
23. **Naeem, M.**, Salam, A., Ali, M. and Gillani, Q., 2010. Proximate Composition and Economic Feasibility of Some Edible Meats in Pakistan. Proc Intern Confer on Chemistry and Chemical Engineering (ICCCE 2010) August 1 - 3, 2010, Kyoto, Japan pp:165-168 **(Indexed by Thomson ISI Proceeding)**
24. **Naeem, M.**, Salam, A. and Gillani, Q., 2010. Study of Proximate Composition of Female *Oreochromis nilotica* in Relation To Body Size and Condition Factor. Proc Intern Confer on Chemistry and Chemical Engineering (ICCCE 2010) August 1 - 3, 2010, Kyoto, Japan pp:162-164 **(Indexed by Thomson ISI Proceeding)**.
25. **Naeem, M.**, Salam, A., Khokhar, M. Y., Bashir, M. and Yar, R., 2010. Trace Metal Analysis Of Edible Portion Of *Oreochromis nilotica* In Relation To Growth. Proc Intern Confer on Chemistry and Chemical Engineering (ICCCE 2010) August 1 - 3, 2010, Kyoto, Japan pp:178-181 **(Indexed by Thomson ISI Proceeding)**.
26. **Naeem, M.**, Salam, A., Khalid, M. and Ashraf, M., 2010. Effect of body size and condition factor on whole body composition of immature population hatchery reared mahseer, *Tor putitora* from Islamabad *International Conference on Chemical, Biological and Environmental Engineering* (ICBEE 2010) will be held in Cairo, Egypt during 2 - 4 November, 2010. (pp 286-289) **(Indexed by Thomson ISI Proceeding)**.
27. **Naeem, M.**, Salam, A., Rasool, S. A. and Shazia, 2010. Study Of Proximate Composition Of Wild Colisa Lalia In Relation To Body Size And Condition Factor. *International Conference on Chemical, Biological and Environmental Engineering* (ICBEE 2010) will be held in Cairo, Egypt during 2 - 4 November, 2010. (pp 282-285) **(Indexed by Thomson ISI Proceeding)**.
28. **Naeem, M.**, Salam, A., Baby, R., Ishtiaq, A and Rasool, S. A., 2011. Study of Body Composition of Female Population Of Farmed *Oreochromis Mossambicus* In Relation To Body Size And Condition Factor From Pakistan. International Conference on Bioscience, Biochemistry and Bioinformatics ICBBB 2011 Singapore. February 26-28, 2011(pp360-363) **(Indexed by Thomson ISI Proceeding)**.
29. **Naeem, M.**, Salam, A., Ashraf, M., Khan, H. R. and Iqbal, M. J. 2011. To Study the Absolute and Relative Fecundity of *Cirrhinus mrigala* in relation to Body Weight by using Ovaprim – C. *3rd International Conference on Bioinformatics and Biomedical Technology (ICBBT 2011)* Sanya, China. March 25-27, 2011. 978-1-4244-9658-7/11/\$26.00 C 2011 IEEE (pp408-411) **(Indexed by Thomson ISI Proceeding)**.
30. **Naeem, M.**, Salam, A., M. Z. Ahmad, Ishtiaq, A. and Gillani Q., 2011. Development of Predictive Equations to Estimate Effect of Body Size and Condition Factor on Whole Body Composition of Sustainable Fish

- Grass Carp (*Ctenopharyngodon idella*) from Pakistan. *ICBBE 2011 : International Conference on Bioinformatics and Biomedical Engineering*, Amsterdam, The Netherlands, July 13-15, 2011. World Academy of Science, Engineering and Technology, Issue 78 (July) 2011, pp. 1149-1153.
31. **Naeem, M.**, Salam, A., Baby, R., Ashraf, M., Ali, M. and Ishtiaq, A., 2011. Length-Weight Relationship of Female Population of Farmed *Oreochromis mossambicus* in Relation to Body Size and Condition Factor from Pakistan, *ICBBE 2011 : International Conference on Bioinformatics and Biomedical Engineering*, Amsterdam, The Netherlands, July 13-15, 2011. World Academy of Science, Engineering and Technology, Issue 78 (July) 2011, pp. 1154-1157.
 32. **Naeem, M.**, Salam, A., Ashraf, M., Yasmin, S and Ishtiaq, A., 2011 Morphometric Relationships of Length-Weight and Length- Length of *Oreochromis aureus* in relation to Body Size and Condition Factor from Pakistan . *ICBESE 2011 : International Conference on Biological, Ecological and Environmental Sciences, and Engineering* Paris_France 24-26 August, 2011. World Academy of Science, Engineering and Technology, Issue 78 (July) 2011, pp. 981-984.
 33. **Naeem, M.**, Khokhar, M. Y., Salam, A., Nasir, M.F and Ishtiaq, A., 2011. Toxic metals analysis of wild male population of *Oreochromis niloticus* in relation to body size and condition factor from Ghazi Ghat, Pakistan *ICBESE 2011 : International Conference on Biological, Ecological and Environmental Sciences, and Engineering* Paris_France 24-26 August, 2011. World Academy of Science, Engineering and Technology, Issue 78 (July) 2011, pp. 978-980.
 34. **Naeem, M.**, Salam, A., Bashir, M.A., Gillani Q., Ishtiaq, A., and Salam, A ., 2011. Effect of Body Size and Condition Factor on Whole Body Composition of Hybrid (*Catla catla* ♂ x *Labeo rohita* ♀) from Pakistan (ICANRE 2011). International Conference on Agricultural and Natural Resources Engineering During 28-30 November, 2011 held in Italy, Venice. World Academy of Science, Engineering and Technology 59 2011 pp. 1804-1807.
 35. Naeem, M., Salam, A., Ashraf, M., Imran, M., Ahmad, M., Khan, M.J., Ayaz, M.M., Ali, M., Ali, A., Qayyum, M., Ishtiaq, A., 2011. Studies on Seasonal Variations of Physico- Chemical Parameters of Fish Farm at Govt. Nursery Unit, Muzaffargarh, Punjab, Pakistan. World Academy of Science, Engineering and Technology. vol 5: 1817-1821.
 36. Naeem, M., Bhatti, A.H., Nouman, M.F. 2012. External Morphological Study of Wild *Labeo calbasu* with Reference to Body Weight, Total Length and Condition Factor from the River Chenab, Punjab, Pakistan. World Academy of Science, Engineering and Technology, International Scholarly and Scientific Research & Innovation. 6(7): 349-352
 37. Naeem, M. Salam, A., Yasmeen, S. and Bukhari S.A.A., 2015. Proximate composition of mixed population of wild *Oreochromis aureus* in relation to body size and condition factor from Pakistan. *2015-International Symposium on Life Science & Biological Engineering*, June 27-29, 2015, Bangkok, Thailand. pp. 175-189.

PUBLICATION IN IMPACT FACTOR JOURNAL

38. Yusaf, M., Salam, A., and **Naeem, M.**, 2009. Length-weight and condition factor relationships of wild catfish, *Wallago attu* and *Sperata sarrwari*, from Indus River, Southern Punjab, Pakistan. *J. Appl. Ichthyol.*, 25: 614-615 (**Impact factor = 1.121**)
39. **Naeem, M.**, Salam, A., Gillani, Q. and Ishtiaq, A., 2010. Length-weight relationships of *Notopterus notopterus* and introduced *Oreochromis niloticus* from the Indus River, southern Punjab, Pakistan. *J. Appl. Ichthyol.*, V: 26, pp. 620. (**Impact factor = 1.121**)
40. Wattoo, J. I., Khan, A. S., Ali, Z., Babar, M., **Naeem, M.**, Amanullah, M. and Hussain, N., 2010. Study of correlation among yield related traits and path coefficient analysis in rice (*Oryza sativa L.*) *African Journal of Biotechnology*. Vol. 9(46), pp. 7853-7856, 15 November, 2010 (**Impact factor = 0.573**)
41. **Naeem, M.** and Salam, A., 2010. Proximate composition of fresh water Bighead carp, *Aristichthys nobilis* in relation to body size and condition factor from, Islamabad, *African Journal of Biotechnology*. 13 December 2010; 9 (50) (pp. 8687-8692) (**Impact factor = 0.573**)
42. **Naeem, M.**, Salam, A. and Ishtiaq, A., 2011. Length-weight relationships of wild and farmed *Tor puitora* from Pakistan. *J. Appl. Ichthyol V: 27(4)*, pp. 1133-1134. August, 2011. (**Impact factor = 1.121**)

43. **Naeem, M., Rasul, A** Salam,A., Iqbal, S., Khalid. M., Ishtiaq. A and Athar, M.,2011. Proximate analysis of female population of wild featherback fish (*notopterus notopterus*) in relation to body size and condition factor. *African Journal of Biotechnology*. **9 May 2011; 10 (19)** (pp3867-3871) (**Impact factor = 0.573**)
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11. Khan,N.A. and Naeem,M. (2020). **Channa marulius voucher Naveed 123 Pakistan cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial.** TITLE (Unpublished). Molecular identification of *Channa marulius* based on COI gene from river Satluj, Pakistan, GenBank: MT890533.1, FASTA Graphics. Go to:LOCUS MT890533, 351 bp. DNA linear, VRT 22-AUG-2020
12. Bibi,A., Ishtiaq,T., Hassan,S., Ishtiaq,A. and Naeem,M. (2020). **Labeo gonius voucher Muhammad Naeem 123 Pakistan cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial:** TITLE Direct Submission. GenBank: MT920670.1, FASTA Graphics, LOCUS MT920670, 405 bp, DNA linear VRT, 30-AUG-2020
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PROJECT

- “Proximate analysis of Farmed *Pangasius* in relation to body size and condition factor from Pakistan”(2011-2012) Funded from Bahauddin Zakariya University Multan, Pakistan. (Completed)
- “Promotion of High Value Fish Species Project” with Fisheries Development department.
- "Intensification of fish culture to increase per unit area fish production in farm ponds using different management input" Pakistan Agriculture Research Council (Agriculture Linkages Programme) (ALP)(Amount 4.3 million) (2013-2015) (Completed)
- Proximate composition of farmed *Catla catla* fed on artificial diet with 15, 20 and 25% crude protein levels. w.e.f. 28-11-2016 (amount 0.4 millions) Funded from Bahauddin Zakariya University Multan, Pakistan. (Completed)
- Quantitative detection of Hepatitis B and Hepatitis C virus by PCR in school going children of urban & rural areas of district Muzaffargarh, Pakistan, funded by HEC, Islamabad (Starter Research Grant of PKR 474594, Project # 1863) (**Continue**; 26-02-2018 – December, 2018) (No. 21-1863/SRGP/R&D/HEC/2018, dated 26th February, 2018)
- **DNA based identification of farmed culture *Clarias batrachus* (Linnaeus, 1758)** (2019-20) (amount 0.4 millions) Funded from Bahauddin Zakariya University Multan, Pakistan. (Completed)
- **DNA based identification of *Mystus tengara* (Hamilton 1822) based on COI gene sequence from River Chenab, Multan, Pakistan (2020-21)** Funded from Bahauddin Zakariya University Multan, Pakistan. (Submitted)

COUNTRIES VISITED

- Singapore:** Attended workshop of International Union of Biological science- Reproductive Biology (IUBS_RB) of Aquaculture at National University of Singapore
- Singapore:** Attended 3rd Post Graduate Conference at National University of Singapore
- China:** Attended three months International training course on Integrated Fish Farming at Asian Pacific Regional Research and Training Centre for Integrated fish farming, Wuxi, China
- Japan:** The 6th UNU-ORI Joint International Workshop on Marine Environment Sustainable Management of Coastal and Marine Resources Otsuchi, Japan; 24-30 October, 2005
- Singapore:** 10th Biological Sciences Graduate Congress at DBS, National University of Singapore, 30 November 2005-02 December 2005.
- Singapore:** Singapore International Chemical Conference at Department of Chemistry, National University of Singapore. 8-10 December 2005
- Singapore:** Four month training in various techniques including zebrafish breeding and embryo collection, microinjection of zebrafish embryos, and DNA agarose gel electrophoresis(10-08-05 to 08-12-05)

Egypt International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2010) held in Cairo, Egypt during 2 - 4 November, 2010.

Singapore: International Conference on Bioscience, Biochemistry and Bioinformatics (CBBB 2011) held in **Singapore**. During 26-28 February, 2011

Netherlands VII. International University Conference 2011, Amsterdam, The Netherlands, July 13-15, 2011. World Academy of Science, Engineering and Technology

Italy ICANRE 2011. International Conference on Agricultural and Natural Resources Engineering During 28-30 November, 2011 held in Venice

Thailand, Bangkok. International Symposium on Life Science & Biological Engineering held on June 27-29, 2015 at Bangkok, Thailand.

Colombo, Sri Lanka: TIIKM's 2nd International Conference on Fisheries and Aquaculture (ICFA) 2015 in Colombo, Sri Lanka on 25-26 Aug 2015.

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this biodata correctly describes myself, my qualifications and experience.
