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BARADI WARYANI

Department of Fresh Water Biology and Fisheries
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EDUCATION

- 2017 Post doctorate (The CAS President's International Fellowship Initiative for Postdoctoral Research). Key Laboratory of Zoology, Chinese Academy of Sciences, Beijing, China.
- 2014 Ph.D., Biology, Beijing Institute of Technology, Beijing, China.
Thesis: *“Comparative Morphology of the Olfactory Epithelium of some Chinese Endemic Cyprinid and Loach Cavefish by SEM”*.
- 2007 M.Phil., Marine Biology, Center of Excellence in Marine Biology, University of Karachi, Karachi, Sindh, Pakistan.
Thesis: *“Assessment of Impact of Jelly Fish Blooms on Fisheries Resources and the Ecosystem along the coast of Sindh (Northern Arabian Sea)”*.
- 1999 M.Sc., (Hons), Fisheries Biology, Department of F.W.B and Fisheries, University of Sindh, Jamshoro.
- 1998 B.Sc., (Hons), Fisheries Biology, Department of F.W.B and Fisheries University of Sindh, Jamshoro.

RESEARCH

Research Positions

August 27- 15 Present Associate Professor, University of Sindh, Jamshoro.

April 24-08 August 15 Lecturer, University of Sindh, Jamshoro.

2005-2008 Senior Research Assistant in the Project entitled
“Monitoring of Deep-Sea Fishing Chinese and Taiwan

Vessels through Establishment of 03 GPS Base Stations”

2002-2003 Research Assistant, in PARC (ALP) Project entitled “*Farming of Mud Crab (Scylla serrata) in the Coastal Earthen Pond*”.

Field Research Experience and Trainings

05-08-2013 Fresh water biodiversity research- Yangtze River of China (two months)

16-19-2004 Attended short course on “Coastal Zone Management” organized by CEMB and University Marine Biological Station Millport (UMBSM), University of London UK & Glasgow, UK.

16-18-2003 Participated in training workshop on “Crustacean Farming Methodologies”, Organized by National Institute of Oceanography, Pakistan).

2001-2002 Marine invertebrate collections – Along the coast of Sindh and Baluchistan, Arabian Sea, Pakistan

AWARDS AND FELLOWSHIPS

2012-2013 Distinguished student and Excellent student award s achieved for excellent academic pursuit with regard to contribution to the research and publication and contest during course of study in institution

15-08-2010 Awarded Ph.D. Scholarship from Government of China (CSC)

WORKING GROUPS

2012- 2014 Institute of Zoology, Chinese Academy of Sciences (CAS) Biodiversity of Yangtze River and Jinshajian River

(CAS) Cavefish collections and their sensory adaptations

TEACHING EXPERIENCE

Teaching Positions

2008-Present As faculty in Department of Fresh Water Biology and Fisheries Ecology & Evolutionary Biology, Fish Chemosensory (Olfaction), Fish Biology, Toxicology, Aquaculture, Aquatic ecology, Fish health management, Fisheries Technology, Hatchery Management, Ichthyology, Fish Disease, Water Pollution, Aquatic Bacteria and Fungi, Biodiversity graduate emphasis, and the Quantitative & Systems Biology Graduate Group at the University of Sindh, Jamshoro (Semesters).

Student Supervision

Graduate Research Advisor

PhD

Naveed Ali Abro Current Status of Fin Fish of Sindh and adjacent areas of Indus River, Sindh, Pakistan (Ph.D) (**Degree Awarded**)

M.Phil.

Tasleem Akhter Effects of Copper Sulfate on Fish Growth and sensory System of *Labeo rohita* and *Cirrhinus mrigala* Juveniles in Glass Aquaria (**Degree Awarded**)

Kishwer Kumar Diversity, Distribution and Ecology of Amphibious Fishes in Creeks, Lagoons and Coastal Areas of Pakistan (**Degree Awarded**)

CONFERENCE PRESENTATIONS

2004 Presented research paper titled” Farming of mud crab (*Scylla serrata*) in earthen pond along the coast of Sindh “in the 24th Pakistan Congress of Zoology (International) March 30, 2004 organized by Zoological Society of Pakistan.

2009 Waryani, B., N.T.Narejo, M.Y. Laghari and P.K. Lashari, Length-weight relationship and condition factor (Kn) of yellow fin tuna, *Thunnus albacares* (Bonnaterree, 1788) from Pakistani waters. Zoological Society of Pakistan

2007 S. Makhdoom Hussain, Zakia Khatoon and Baradi, Fisheries Resources of Arabian Sea along the coast of Pakistan with especial reference to yellow fin tuna (*Thunnus albaceres*, Bonnaterree 1788) published in Victoria British Columbia, Canada.

Book Chapters

2021 Monitoring the Marine Recreational Fisheries in the Arabian Gulf and Sea of Oman

- DOI: [10.1007/978-3-030-51506-5_40](https://doi.org/10.1007/978-3-030-51506-5_40)
- **In book: The Arabian Seas: Biodiversity, Environmental Challenges and Conservation Measures**



[Laith A. Jawad](#)



[Baradi Waryani](#)

The Feasibility of Introducing Undergraduates in Biodiversity Science in the Arabian Gulf Area

- DOI: [10.1007/978-3-030-51506-5_31](https://doi.org/10.1007/978-3-030-51506-5_31)
- **In book: The Arabian Seas: Biodiversity, Environmental Challenges and Conservation Measures**



[Laith A. Jawad](#)



[Baradi Waryani](#)

Is It the Time to Perform a Regular National Marine Biology Survey in the Seas Around the Arabia Peninsula to Assess the Marine Biodiversity?

- DOI: [10.1007/978-3-030-51506-5_27](https://doi.org/10.1007/978-3-030-51506-5_27)
- **In book: The Arabian Seas: Biodiversity, Environmental Challenges and Conservation Measures**



• [Laith A. Jawad](#)



• [Baradi Waryani](#)

The Possibility of Applying Citizen Science in the Countries Bordering the Arabian Peninsula

- DOI: [10.1007/978-3-030-51506-5_32](https://doi.org/10.1007/978-3-030-51506-5_32)

In book: Tigris and Euphrates Rivers: Their Environment from Headwaters to Mouth



• [Laith A. Jawad](#)



• [Baradi Waryani](#)

River Corridors as a Refuge for Freshwater Biodiversity: Basic Information and Recommendations to the Policymakers for Possible Implications in Iraq https://doi.org/10.1007/978-3-030-57570-0_21

In book: Tigris and Euphrates Rivers: Their Environment from Headwaters to Mouth



• [Laith A. Jawad](#)



• [Baradi Waryani](#)

Effect of Climate Changes on the Freshwater Biodiversity in the Mesopotamian Plain: Recommendations for Avoidance and Plans for the Future https://doi.org/10.1007/978-3-030-57570-0_20

Journal Articles

- 2022 Audai Qasim¹, Laith A. Jawad^{2*}, **Baradi Waryani**³ Bilateral asymmetry in otolith size of *Pampus argenteus* (OSTEICHTHYES: STROMATIDAE) from Iraqi Marine Waters. *Croatian Journal of Fisheries*, 2022, 80, 103-112.
- 2021 Laith A. Jawad a*, Saad M.S. Abdulsamad b, Azal N.B. Al-Nusear c, **Baradi Waryanid**, Jitka Rutkayova e (2021) Otolith mass asymmetry in three sparid fish species collected from the Iraqi waters. *Marine Pollution Bulletin* 173 (2021) 112968 <https://doi.org/10.1016/j.marpolbul.2021.112968>
- 2021 Aqeel Ahmed Shah¹, Muhammad Ali Bhatti², Ali Dad Chandio¹, Khalida Faryal Almani², Mazhar Ali Abbasi⁵, Adeel Liaquat Bhatti⁵, Abdul Qayoom Mugheri⁴, Magnus Willander³, Omer Nour³, **Baradi Waryani**, Aneela Tahira³, and Zafar Hussain Ibupoto. Tin as an Effective Doping Agent into ZnO for the Improved Photodegradation of Rhodamine B *Journal of Nanoscience and Nanotechnology*. Vol. 21, 2529–2537, 2021
- 2021 Muhammad Ali Bhatti¹, Aqeel Ahmed Shah³, Khalida Faryal Almaani¹, Aneela Tahira⁴, Ali Dad Chandio³, Magnus Willander⁴, Omer Nur⁴, Abdul Qayoom Mugheri², Adeel Liaquat Bhatti⁵, **Baradi Waryani**, Ayman Nafady⁷, and Zafar Hussain Ibupoto. TiO₂/ZnO Nanocomposite Material for Efficient Degradation of Methylene Blue. *Journal of Nanoscience and Nanotechnology* Vol. 21, 2511–2519, 2021
- 2021 Muhammad Ali Bhatti¹ · Aneela Tahira⁴ · Ali dad Chandio³ · lida Faryal Almani¹ Liaquat **Bhatti**⁵ **Baradi Waryani**⁷ Ayman Nafady⁶ · Zafar Hussain Ibupoto. Enzymes and phytochemicals from neem extract robustly tuned the photocatalytic activity of ZnO for the degradation of malachite green (MG) in aqueous media *Research on Chemical Intermediates* (2021) 47:1581–1599 <https://doi.org/10.1007/s11164-020-04391-6>.
- 2021 Muhammad Ali Bhatti¹ · Khalida Faryal Almaani¹ · Aqeel Ahmed Shah³ · Aneela Tahira⁴ · Ali Dad Chandio³ · Abdul Qayoom Mugheri² · Adeel liaquat Bhatti⁵ · **Baradi Waryani**. Shymaa S. Medany⁷ · Ayman Nafady⁸ · Zafar Hussain Ibupoto Low Temperature Aqueous Chemical Growth Method for the Doping of W into ZnO Nanostructures and Their Photocatalytic Role in the Degradation of Methylene Blue. *Journal of Cluster Science* April 2021.

DOI: 10.1007/s10876-021-02069-6

- 2020 Naveed Ahmed. Abro, **Baradi Waryani**, Naeem Tariq Narejo, Sara Ferrando, Saeed Akhtar Abro Abdul Rasool. Abbasi, Punhal Khan Lashari, Muhammad Younis Laghari, Ghulam Qadir Jamali, Gul Naz, Muneer Hussain and Habib Ul Hassan. Diversity of freshwater fish in the lower reach of Indus River, Sindh province section, Pakistan. Egyptian Journal of Aquatic Biology and Fisheries. 6131 Vol. 24 (6): 243 – 265
- 2020 **Baradi Waryani**, Aneela Tahira, Sidra Ameen, Magnus Willande, Abdul Rasool Abbasi & Zafar Hussain Ibupoto. The Enzyme Free Uric Acid Sensor Based on Iron Doped CuO Nanostructures for the Determination of Uric Acid from Commercial Seafood. Journal of Elec Materi (2020). <https://doi.org/10.1007/s11664-020-08345>
- 2020 Baradi Waryani Asymmetry in the otolith length and width of three sparid fish species collected from Iraqi water. Marine Pollution Bulletin **Volume 156**, July 2020, 111177.
- 2020 Kachhi KK, Panhwar SK, **Waryani B.**Recent gobies from Pakistan,northern Arabian sea: Diversityand biogeographic affinities. J Appl Ichthyol. 1–6. <https://doi.org/10.1111/jai.14007>
- 2019** N. A. Abro¹, **B. Waryani**^{1*}, P. Khan. Lashari¹, S. Ferrando², A. R. Abbasi¹, F. M. Jakhrani³ **Phenotypic characteristics of the clupeid fish *Tenualosa ilisha* (Family: Clupeidae) collected from Manjhand vicinity, Pakistan.** *SindhUniv. Res. Jour. (Sci. Ser.) Vol. 51 (03) 441-452(2019)* <http://doi.org/10.26692/suij/2019.03.71>
- 2019 Jie Zhang*, **Baradi Waryani**, and Qihai Zhou, Isolation and Characterization of Microsatellite Loci from *Neosalanx tangkahkeii* (Osmeriformes, Salangidae). Pakistan Journal of Zoology Vol. 51(5) pp-1853-1857
- 2019 A. N. JATT, **B. WARYANI**^{++*}, S. A. TUNIO, S. B. MEMON, T. A. ARAIN* Isolation and Identification of Pathogenic Bacteria Associated with Diseased Fish

Cirrhinus mrigala (Ham) in Glass Aquarium. Sindh Univ. Res. Jour. (Sci. Ser.) Vol. 51 (01) 97-100 (2019) <http://doi.org/10.26692/sujo/2019.01.18>.

- 2018 F. Muhammad^{1, 2}, L. Liu¹, Z.M. Lü^{1*}, L. Gong¹, X. Du¹, M. Shafi³, **B. Waryani**⁴ and H.A. Kaleri⁵, GENETIC DIVERSITY OF *OCTOPUS MINOR* (SASAKI, 1920) INFERRED BY MITOCHONDRIAL NADH DEHYDROGENASE SUBUNIT 2 GENE. The Journal of Animal & Plant Sciences, 28(5): 2018, Page: 1364-1371
- 2018 Laith A. Jawad, Mustafa Ibrahim, **Baradi Waryani**, Incidences of caudal fin malformation in fishes from Jubail City, Saudi Arabia, Arabian Gulf, Fish. Aquat. Life 26: 65-71.
- 2017 Sara Ferrando, Lorenzo Gallus, Andrea Amaroli, Chiara Gambardella, **Baradi Waryani**, Danide Lasai and Marino Vacchi. Gross anatomy and histology of the olfactory rosette of the Shark *Heptranchios perlo*. Journal of Zoology, Elsevier. Vol, 122:27-37
- 2016 Lashari, P., M.Y Laghari, **Baradi W**, Shaista J, N.T Narejo, Y, Zhang (2016). Complete mitochondrial genome of Freshwater Catfish *Eutrophiichthys vacha* (Siluriformes, Bagridae) Mitochondria DNA27(1):387-8. (IF-1.71)
- 2016 Anila Naz Soomro, **Baradi Waryani**, Suzuki Hiroshi, Wazir Ali Baloch, Shoaka Masashi, Sadaf Tabasum Qureshi and Shagufta Saddozai. Diversity of Freshwater Shrimps (Atyidae and Palaemonidae) along the Continuum of Urabaru Stream, Kikaijima Island, Japan.). Pakistan Journal of Zoology. Vol. 48 (2), PP 569-573.
- 2015 **Baradi Waryani**, Yahui Zhao Chunguang Zhang Rongji Dai, Sara Ferrando Abdul Rasool Abbasi. Surface Architecture of the Olfactory Epithelium of Two Chinese Cave Laoches Italian Journal of Zoology 1-7 doi.org/10.101080/11250003.2015.1018851 (IF- 0.865)
- 2015 Ghulam Abbas, ***Baradi Waryani**, Abdul Ghaffar, Abdur Rahim, Muhammad Hafeez-ur-Rehman and Muhammad Aslam. Effect of Ration Size and Feeding

- Frequency on Growth, Feed Utilization, Body Composition and Some Haematological Characteristics of Juvenile Snapper, *Lutjanus johnii* (Baloch, 1792). Pakistan Journal of Zoology., Vol. 47 (3), pp 719-730. (IF- 0.400)
- 2015 Nazia Qamar, Shahnaz Jahangir, **Baradi Waryani**, Sher Khan Panhwar* and Abdul Hadi Bhutto. Record of anomalous torpedo trevally *Megalaspis cordyla* (Pisces: Carangidae) found in Pakistan. INT. J. BIOL. BIOTECH., 12 (2): 00-00.
- 2015 Muhsan Ali Kalhoro, Qun Liu, Tooraj Valinassab, **Baradi Waryani**, Abdul Rasool Abbasi and Khadim Hussain Memon. Population Dynamics of Greater Lizard Fish, *Saurida tumbil* From Pakistani Waters. Pakistan Journal of Zoology. Vol 47 (3), **Accepted (IF- 0.400)**
- 2015 Shahnaz Jahangir, Sher Khan Panhwar, Nazia Qamar and **Baradi Waryani**. Population Structure, Allometry and Growth Estimates in *Meretrix casta* (Hanley, 1845) From the Sonmiani Bay, Balochistan Pakistan. INT. J. BIOL. BIOTECH., 12 (1): 119-123.
- 2015 D. A. DARBAN*, **B. WARYANI****, S. R. GOWEN* A. R. ABASSI** Comparisons of the Spore Attachment of Two Populations of *Pasteuria Penetrans* (Malakisi and Thika) on Two Different Populations of Root-Knot Nematode Known as *Hypericumand Navaisha* Sindh Univ. Res. Jour. (Sci. Ser) Vol. 47 (1) 1-4.
- 2015 D. A. DARBAN*, **B. WARYANI****, S. R. GOWEN* A. R. ABASSI** Attachment of six populations of *P. penetrans* spores on the second stage juveniles of two population of root-knot nematodes. Sindh Univ. Res. Jour. (Sci. Ser) Vol. 47 (1) 57-60.
- 2014 KALHORO Muhsan Ali, LIU Qun, MEMON Khadim Hussain, **WARYANI Baradi**, SOOMRO Shamsheer Hyder. Maximum sustainable yield of Greater Lizardfish *Saurida tumbil* fishery in Pakistan using the CEDA and ASPIC Packages Acta Oceanologica Sinica, 2015, Vol. 34, No. 2, DOI: 10. 1007/s13131-014-0463-0 (IF- 0.684)

- 2014 Zulifqar Ali Laghari, Ayaz Ali Samo, **Baradi Waryani**, Zameer Ali Palh , Khalid Hussain Lashari, Ghulam Murtaza Mastoi , Gulshan Ara Sahato and Tahira Jabeen Ursani. Effects of a single dose of ethanol on survival rate and angiogenesis of chick embryo. *Animal and Veterinary Sciences (AVS)* in Vol. 3, No. 1, pp. 8-11. Doi: 10.11648/j.av.s.20150301.12.
- 2014 Lashari, P., M.Y Laghari, **Baradi W**, Shaista J, N.T Narejo, Y, Zhang. Complete mitochondrial genome of Freshwater Catfish *Eutrophiichthys vacha* (Siluriformes, Bagridae) *Mitochondria DNA* (DOI:10.3109/19401736.2015.1007357) (**IF-1.71**)
- 2014 A. Malik, **B. Waryani**, I.B. Kalhoro, H. Kalhoro, S.A. Shah and N.T. Narejo. Observe the growth Performance and adaptation of Exotic Fish Red Tilapia (hybrid) in climate of Fish Hatchery Chilya, Thatta, Sindh-Pakistan Sindh Univ. Res. Jour. (Sci. Ser) Vol. 46 (4): 461-464
- 2014 S.T. Qureshi, S.A. Memon, **B. Waryani**, A.R. Abbasi, W. Patoli, Y. Soomro, H. Bux, and F.A. Bughio. Gamma Rays Induced Phenotypic Mutations In Chickpea (*Cicerarietinum L.*) Sindh Univ. Res. Jour. (sci. Ser) Vol. 46 (4): 473-478
- 2014 Ghulam Murtaza Mastoi, **Baradi Waryani**, Zulfiqar Ali Laghari, Zameer Ali Palh, Khalid Hussain Lashari, Khalida Faryal Almani, Gul-e-Rana and Abdul Waheed Mastoi Assessment of Chemistry of Soil Irrigated on Phuleli Canal. Science Journal of Chemistry. Vol. 2, No. 4, pp. 33-37. doi: 10.11648/j.sjc.20140204.12
- 2014 **Baradi WARYANI**, Ghazala SIDDIQUI*, Zarrien AYUB, Shaukat Hayat KHAN. Occurrence and temporal variation in the size-frequency distribution of 2 bloom-forming jellyfishes, *Catostylus perezii* (L. Agassiz, 1862) and *Rhizostoma pulmo* (Cuvier, 1800), in the Indus Delta along the coast of Sindh, Pakistan. Turkish Journal of Zoology. doi:10.3906/zoo-1401-13 (**IF- 0.585**)
- 2014 Muhsan Ali Kalhoro, Qun Liu, **Baradi Waryani**, Sher Khan Panhwar and Khadim Hussain Memon. Growth and Mortality of Brush tooth Lizardfish, *Saurida undosquamis*, from Pakistani Waters Pakistan J. Zool., . 46(1), pp. 139-151 (**IF-0.400**)

- 2014 Murtaza Hasan, Javed Iqbal, Umer Awan, Nian Xin, Hao Dang, **Baradi Waryani**, Yasmeen Saeed, Kaleem Ullah, Dai Rongji, Yulin Deng. LX loaded Nanoliposomes synthesis, characterization and cellular uptake studies in H₂O₂ stressed SH-SY5Y., *Cells J. Nanosci. Nanotechnol.* June; 14(6); 4066-71 (**IF- 1.34**)
- 2013 **B. Waryani**, R. Dai, S. K. Panhwar, Y. Zhao, J. Zhang, C. Zhang and W. Cao. Length–weight relationships for five loach species collected from the Jinshajiang River, China *J. App Ichthyol.* 30, 562-563. (**IF- 0.93**)
- 2013 **Baradi Waryani**, Yahui Zhao, Chunguang Zhang, Rongji Dai and Abdul Rasool Abbasi. Anatomical Studies of the Olfactory Epithelium of Two Cave Fishes *Sinocyclocheilus jii* and *S. furcodorsalis* (Cypriniformes: Cyprinidae) from China, *Pakistan J. of Zool.*, vol. 45(4), pp 1091-1101, 2013. (**IF- 0.400**)
- 2013 **B. Waryani**, R. Dai, Y. Zhao, C. Zhang & A.R. Abbasi. Surface Ultrastructure of the olfactory epithelium of loach fish, *Triplophysa dalica* (Kessler, 1876) (Cypriniformes: Balitoridae Nemacheilinae), *Italian Journal of Zoology*, 80:2, 195:203, (**IF- 0.865**)
- 2012 Sher Khan Panhwar ^{a, b}, Qun Liua, Fozia Khan ^a and **Baradi Waryani** ^c. Maximum Sustainable Yield Estimates of Spiny Lobster Fishery in Pakistan Using Non Equilibrium CEDA Package *Russian Journal of Marine Biology*, Vol. 38, No. 6, pp. 448–453 (**IF- 0.496**)
- 2010 B.A.Dars, N.T.Narejo, P. K. Lashari, M.Y.Laghari and **B. Waryani**. Effect of different protein level on growth and survival of the *Catla catla* (Hamilton) reared in glass aquaria. *Sindh Univ.Res.Jour (Sci. Ser)* 42(1):65 -68.
- 2008 Lashari, P.K., N. T. Narejo and **B. Waryani**. Fecundity of two types of Palla, *Tenualosa ilisha* (Hamilton) from River Indus, Sindh, Pakistan. *Sindh Univ. Res. Jour. (Sci. Ser.)*, **40** (2): 27-30.