



JOYANTA BIR

(Curriculum Vitae
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PERSONAL PROFILE

Joyanta Bir currently doing his PhD in the faculty of Zoology and Animal Cell Biology at the University of Basque country, Bilbao Spain. Prior to this, he has been working as a faculty of Fisheries and Marine Resource Technology Discipline, Khulna University, Bangladesh since 2012. His research mainly focus on Molecular biology, Fish Biology, aquatic toxicology, Histopathology, Ecology and Aquaculture.

EDUCATION

2021- Present	PhD in Marine Environment and Resources, Plentzia Marine Station University of the Basque Country (PiE-UPV/EHU), Spain Topic: Molecular Biology
2015-2017	European Master in Marine Environment and Resources (MER), (Erasmus Mundus) University of Bordeaux, France; University of Basque Country, Spain, University of Southampton, UK University of Liege, Belgium
2011-2013	MSc in Fish Genetics and Biotechnology, Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh
2007-2011	Bachelor of Science in Fisheries (Honours, 4 Years), Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh

PROFESSIONAL APPOINTMENTS

05/2019 – Present	Associate Professor <i>Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh</i>
06/2014-05/2019	Assistant Professor <i>Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh</i>
05/2012-05/2014	Lecturer <i>Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh</i>

RESEARCH EXPERIENCE

2019-2020	Principal Investigator Project title: Adoption of different culture regimes and proximate composition analysis of freshwater mud eel (<i>Monopterus albus</i>), Funding Agency: Khulna University Research cell
06/2018-03/2021	Co. Principal Investigator (CI) Project title: Development of in-situ Breeding technology of major crustacean Prawn (<i>Macrobrachium rosenbergii</i>) and Adoption of Sustainable Eco-Friendly Culture of Prawn and Shrimp (<i>Penaeus monodon</i>) by applying probiotics Funding Agency: Bangladesh Agricultural Research Council (BARC)
01/2015-05/2018	Co. Principal Investigator (CI) Project title: Adoption of biofloc technology (BFT) in prawn in Eco-friendly Aquaculture in coastal region of Bangladesh

Funding Agency: Bangladesh Academy of Science and USDA, USA

- 01/2017-06/2018 **Co. Principal Investigator (CI)**
Project title: Integration of SIS fish Punti and Mola in traditional prawn-carp farming system through increasing biological foods for increased fish production and household nutrition
Funding Agency: AquaFish Innovation Lab and USAID, USA
- 06/2013-05/2016 **Co. Principal Investigator (CI)**
Project title: Evaluation of Probiotics Effect in production and immune competence of Prawn (*Macrobrachium rosenbergii*)
Funding Agency: Ministry of Education, Bangladesh & USDA, USA
- 10/2012-09/2013 **Principal Investigator (PI)**
Project title: Marketing of formalin treated fish in Khulna city
Funding Agency: Khulna University Research cell
- 2017-2018 **Junior Consultant**
Project title: An aquaculture inventory to improve the sector's capacity to adapt to climate change impacts in the southern districts of Bangladesh
Funding Agency: FAO and Network of Aquaculture Centres in Asia-Pacific ("NACA")
- 2018-2019 **Junior National Consultant**
Project title: Development of biodiversity friendly guidelines on fisheries and aquaculture for the wildlife sanctuaries in Bangladesh Sundarbans"
Funding Agency: WorldFish Center, UNDP and Ministry of Forest and Environment, Bangladesh,
- 06/2011-05/2012 **Research Assistant (RA, Paid)**
Project title: Capacity building to address climate change in Bangladesh and Ghana with special reference to conservation of saline and drought tolerant species.
Funding Agency: DFID and organizing by DelpHE Round-4), UK
- 01/2010-05/2011 **Research Assistant (RA, Paid)**
Project title: Mud crab culture as an adaptive measure for the climatically stressed coastal fisher-folks of Patuakhali and Barguna district.
Funding Agency: DANIDA and organizing by RFLDC-Barisal and Khulna University Research cell, Bangladesh

PUBLICATIONS

Total Number of Publication: 35, 10 recent publication attach here

1. **Joyanta Bir.**, Rony Golder & Shikder Saiful Islam (2022). Review on invasive alien species (IAS): Challenge and consequence to the aquatic ecosystem services. *Marine Science and Technology Bulletin*, 11(3), 288-298. <https://doi.org/10.33714/masteb.1091625>
2. Shuva, M.S.H., Golder, M.R., Rouf, M.A. Uddin, M.M., & **Bir, Joyanta**. Daytime and Nighttime Sea Surface Temperature (SST) along with Diurnal Variability (D-SST) in the Northern Bay of Bengal: A Remote Sensing Approach. *Thalassas* (2022) Springer. <https://link.springer.com/article/10.1007/s41208-022-00406-8>
3. Azad, M.A.K., Islam, S.S.*, Amin, M.N., Ghosh, A.K., Hasan, K.R., **Bir, Joyanta.**, Banu, G.R., Huq, K.A. (2021). Production and economics of probiotics treated *Macrobrachium rosenbergii* at different stocking densities. *Animal Feed Science and Technology*, 115125. <https://doi.org/10.1016/j.anifeedsci.2021.115125>.
4. **Joyanta Bir***, Md Rony Golder, Prianka Biswas, Suraiya Tasrin and Shanchita Zaman Chowdhury. Plastic pollution in an estuary: A preliminary study on the Rupsha river in southwestern Bangladesh. *Bangladesh J. Fish.* (2021) 33(2): 295-304. <https://doi.org/10.52168/bjf.2021.33.32>

5. Golder, Md Rony, Md Shahin Hossain Shuva, Muhammad Abdur Rouf, Mohammad Muslem Uddin, Sayeda Kamrunnahar Bristy, and **Joyanta Bir**. "Chlorophyll-a, SST and particulate organic carbon in response to the cyclone Amphan in the Bay of Bengal." *Journal of Earth System Science* 130, no. 3 (2021): 1-9. <https://link.springer.com/article/10.1007/s12040-021-01668-1>
6. Paul, Prianka, Md Islam, Sumona Khatun, **Joyanta Bir**, and Antara Ghosh. "Reproductive biology of mud crabs (*Scylla olivacea*) collected from Paikgachha, Khulna, Bangladesh." *Journal of Advanced Veterinary & Animal Research* 8, no. 1 (2021). <http://doi.org/10.5455/javar.2021.h483>
7. **Joyanta Bir**, Rimu Das, Md Rony Golder, Shukder Saiful Islam, Prianka Paul, Md. Imran Noor, Md Rofiqul Islam, S-E Mahfuz, Alokesh K Ghosh, K Anisul Huq. 2020. Growth performance and proximate composition of grey mullet *Liza parsia* at different salinities, *Bangladesh Journal of Fisheries*, <https://fsb.bau.edu.bd/bjf/index.php/home/article/view/116>
8. Howlader, Pallabi, Alokesh Kumar Ghosh, Shikder Saiful Islam, **Joyanta Bir**, and Ghausiatur Reza Banu. "Antiviral activity of *Cynodon dactylon* on white spot syndrome virus (WSSV)-infected shrimp: an attempt to mitigate risk in shrimp farming." *Aquaculture International* 28, no. 4 (2020): 1725-1738. <https://link.springer.com/article/10.1007/s10499-020-00553-w>
9. Azad, M. A. K., Islam, S. S., Sithi, I. N., Ghosh, A. K., Banu, G. R., **Bir, Joyanta.**, & Huq, K. A. 2018. Effect of probiotics on immune competence of giant freshwater prawn *Macrobrachium rosenbergii*. *Aquaculture Research*. <https://doi.org/10.1111/are.13942>.
10. Ghosh, A. K., **Bir Joyanta.**, Azad, M. A. K., Hasanuzzaman, A. F. M., Islam, M. S., & Huq, K. A. (2016). Impact of commercial probiotics application on growth and production of giant fresh water prawn (*Macrobrachium rosenbergii* De Man, 1879). *Aquaculture Reports*, 4, 112-117. <https://doi.org/10.1016/j.aqrep.2016.08.001>.
11. **Bir, Joyanta.**, Rahman, B. S., Sarower-E-Mahfuj, M., Rahman, M. A., & Shah, M. S. (2016). Reproductive Biology and Feeding Habit of Gold Spot Mullet, *Liza parsia*. *American Journal of Zoological Research*, 4(1), 7-12. <http://pubs.sciepub.com/ajzr/4/1/2/>

INVITED TALKS

09/2021 Current Scenario of Probiotics Application in Bangladesh (online). Organized by: *Bharath Institute of Science and Technology, Chennai, Tamil Nadu, India and Envozyme Technologies Private Limited, Hyderabad, Telangana, India*

CONFERENCES (Oral Presentation)

05/2021 **Joyanta Bir***, Oihane Diaz de Cerio, Iratxe Rojo-Bartolomé, Maren Ortiz-Zarragoitia and Ibon Cancio, (2022). RNA polymerase III hyperactivity in teleost gonads: 5S rRNA and tRNAs as oocyte markers in teleost ovaries and intersex testes. The 21th International Symposium on Pollutants Response In Marine Organisms (PRIMO21), University Of Gothenburg, Sweden, May 22-25, 2022 (Oral Presentation)

2019 Das, K.K., Pramanik, A., Kanok, F., **Bir, Joyanta***, Islam, S.S., Huq, K.A. (2019). Assessing the Impact of Different Commercial Probiotics on the Growth of Pond Cultured *Macrobrachium rosenbergii*. Eighth Fisheries Conference & Research Fair. Bangladesh Fisheries Research Forum (BFRF)

2012 **Bir, Joyanta**, Shah, M.Saifuddin., Islam, S.Saiful., Islam, M.Rashedul. and Sabbir, W. Fecundity, Food and Feeding Habit and Some Aspects of Biology of *Liza parsia*. Fifth Fisheries Conference & Research Fair. Bangladesh Fisheries Research Forum (BFRF)

CONFERENCES (Poster Presentation)

05/2022 Gourab Chowdhury, Oihane Diaz de Cerio, Joyanta Bir, B Gonzalez-Gaya, Nestor Etxebarria, Ibon Cancio (2022). Oxidative stress and antioxidant defenses in experimentally bleached and copper exposed sea anemones (*Anemonia viridis*). The 21th International Symposium on Pollutants Response In Marine Organisms (PRIMO21), University Of Gothenburg, Sweden, May 22-25, 2022

09/2021 Joyanta Bir, Oihane Diaz de Cerio, Galder Garcia, Gourab Chowdhury, Maren Ortiz-Zarragoitia, Ibon Cancio. (2021). 5S rRNA and tRNA in fish ovaries: A history of gene duplication. The Centre of Marine Sciences – CCMAR, The University of the Algarve, Portugal.

TEACHING EXPERIENCE

01/2014 - 03/2019 Graduate
Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh
Taught face-to-face in different assigned course, Seminar and project
MSc thesis Supervised as Main supervisor (12-14)

05/2015 – 03/2019 Undergraduate
Fisheries and Marine Resource Tech. Discipline, School of Life Science, Khulna University, Bangladesh
Taught face-to-face in different assigned course
BSc thesis Supervised as Main supervisor (>15)

LANGUAGE & ADDITIONAL SKILLS

Bengali- Mother Language
English- Fluent Speaker
Spanish - Limited Proficiency

AWARDS, SCHOLARSHIP & HONORS

04/2021-04/2025 PREDOC grant from the Basque Government (IT1302-19) and Spanish MCIN & EU-FEDER/ERDF

09/2015-08-2017 Erasmus Mundus Scholarship for MSc program

2015-2017 VLIR-OUS Scholarship for MSc in Aquaculture

05/2011 President Gold Medal award, School of Life Science, Khulna University, Bangladesh

2007-2011 Khulna University Merit Scholarship for Academic achievement