

Akbar John

Curriculum Vitae

Personal Details

Name: Dr. Akbar John
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Academic Qualifications

BSc: Advance Zoology and Biotechnology, 2007, India
MSc: Marine Biology and Oceanography, 2009, India
PG Diploma Marine Environmental pollution and management (2008), India
PhD: Marine Biotechnology, IIUM, 2012, Malaysia.

Employment History

- August 2024-Current: Associate Professor, College of Marine Sciences and Aquatic Biology, University of Khorfakkan (UKF), Sharjah, United Arab Emirates.
- July 2022-July 2024: Associate Professor, Environmental technology division, School of Industrial technology, Universiti Sains Malaysia (USM), Penang, Malaysia.
- July 2018-July 2022: Associate Professor and senior research scientist, Institute of Oceanography and Maritime studies, International Islamic University Malaysia (IIUM), Malaysia.
- June 2014-June 2018: Assistant Professor, Institute of Oceanography and Maritime

studies, International Islamic University Malaysia (IIUM), Malaysia.

- Jan 2013-May 2014: Postdoctoral fellow, Faculty of science, International Islamic University Malaysia (IIUM), Malaysia.
- Nov 2009-Feb-2013: Research Assistant, Faculty of science, International Islamic University Malaysia (IIUM), Malaysia

Professional Membership & Activities

- IUCN Co-chair on the trade, industry and use of horseshoe crabs working group.
- Director Young Professional Council - The International Water, Air and Soil Conservation (INWASCON)
- Member of IUCN Species Specialist Committee on Horseshoe crab
- Member of Coastal & Estuarine Research Foundation, USA.
- Advisory board - UCSA, Dip. biotechnology program
- Advisory board – Association for Biodiversity Conservation
- Member of Malaysian Fishery Society,
- Member of British Ecological Society
- Consultant for Biopep Biotechnology Sdn. Bhd. Malaysia
- Consultant for Asia Nutraceutical, Pvt. Ltd India
- Consultant for V5 organic. Pvt. Ltd. India
- Consultant for Marizone. Biotech Pvt. Ltd. India

Teaching Experience

- 15 years of experience as lecturer on marine conservation biology and genomics, molecular ecology, environmental pollution, climate change and species adaptation, and biostatistics.
- Student supervision: 5 PhDs, 3 Masters; 23 UG Final year project students.
- Postgraduate program development and accreditation: 2 Master and 2 PhD programs.

Conferences & Workshops

Presented over 60 research papers in international conferences as a presenter, invited speaker and Keynote speaker.

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| ➤ Organizing committee | -IUCN SSC – 5 th International Conference on the conservation of horseshoe crabs 2024, at Nature Society Singapore. |
| ➤ Scientific committee | -IUCN SSC – International Conference on the conservation of horseshoe crabs 2019, China. |
| ➤ Conference Secretary | -Regional meeting on the conservation of Asian horseshoe crabs, 16-17 th Nov 2023. |
| ➤ Conference Secretary - | [ICCA-HSC 2017] Bangkok Thailand. It was an intermediate IUCN conference on conservation of Horseshoe crabs). Report presented in IUCN SSC chair meeting in USA. |
| ➤ Conference Secretary | -[Clean-WAS 2019] Ho Chi Minh, Vietnam. Yearly International |

- conference on clean Water Air and Soil. Organized by INWASCON society.
- Conference Secretary - International Symposium on Horseshoe crab Conservation, 20th June 2021.
 - Conference Secretary - International Symposium on Integrated Blue Economy for Ocean Sustainable Development (ISIBE 2021), 21st Oct 2021.
 - Invited speaker - Chinese University of Hong Kong (CUHK) – Nov 2017
 - Invited speaker - International Conference on Advances in Algal Biotechnology. 10th-12th August 2016. VIT University, India
 - Invited speaker - Symposium on comparative endocrinology and genomics on Arthropod (World Crustacean society midyear meeting 2019, Hong Kong. 26th to 30th May 2019. CUHK.
 - Invited Speaker - National University of Singapore (NUS) 1st November 2019.
 - Invited Speaker - Qatar University 6th April 2021. Title: Nano-PCR a promising approach for effective DNA sequencing and disease detection
 - Invited Speaker - Oral Biology webinar by Kulliyyah of Dentistry, IIUM: Title: Comparative Dental Anatomy. 15th July 2021.
 - Invited Speaker - Int Conference on biodiversity, food security, sustainability and climate change . 25-28th Apr 2023. India
 - Invited Speaker - Int Conference on conservation and sustainable development of coastal wetland, 20-22 April, 2023. Hong Kong
 - Invited Speaker - Marine Carbohydrate webinar. 7th June, 2023 VIT, India
 - Keynote Speaker - International Conference on environmental sustainability and social Science (ICESM 2019), 12-13th Nov 2019. UMP holding, Malaysia
 - Keynote Speaker - International Symposium on the current research on horseshoe crab in Asia, June 2020. Hosted by IPB University, Indonesia.
 - Keynote Speaker - International webinar of Asian horseshoe crab conservation 2020. June 2020. Hosted by Beibu Gulf University, China.
 - Keynote Speaker - International Conference & webinar on Research Frontiers and Prospects in Bioscience and Biotechnology 2020. Hosted by Fakir Mohan University, India. 28th-29th July 2020. June 2020. Hosted by Beibu Gulf University, China.
 - Keynote Speaker - International Symposium on Aquatic Resource Management (ISARM 2020). Hosted by IPB University, Indonesia. 16th-17th November 2020.
 - Expert Panel Discussion - IUCN Congress 2025 “Achieving successful marine conservation and biodiversity protection through research, ocean literacy, economics, and policy”. UAE Pavilion 9th Oct 2025.
 - SSC Invited Speaker - IUCN Congress 2025 “*Collateral damage from non-selective fisheries... and possible solutions*”. UAE Pavilion 11th Oct 2025.

Research Interests

- Conservation genomics
- Molecular ecology
- Climate change and species adaptation
- Environmental pollution and monitoring

Research Publications (Books, Journals & Conferences papers)

Books

1. Das, A.P., & **John, A.** (Eds.). (2025). Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches (1st ed.). CRC Press. <https://doi.org/10.1201/9781003465447>.
2. Kamaruzzaman, B.Y., **Akbar John, B.**, Jalal, K.C.A., Zaleha, K. 2012. *The living fossil (Horseshoe crab)*. 1st (edition). IIUM Press. Malaysia. pp371. ISBN: 978-967-418-042-3. <http://irep.iium.edu.my/19740/1/30.pdf>
3. **Akbar John**, Rozihan, Sanowar. 2017. Ichthyoplankton and Juvenile fishes of a Malaysian River. 1st edition. Noor Publisher, Germany. pp 133. ISBN: 978-3-330-85208-2.
4. **Akbar John**, Zaima Azira, Z.A., Ahmed Jalal, K.C. 2020. *Bioprospects of Coastal Ecosystem and Sustainable Resource Management*. (1st ed). Noor Publishing, Europe. 1-108p. ISBN: 978-620-2-79106-9.

Journal papers

Published Articles (2025)

1. Pengqi Gao, Demus Matheus Huang, Weihong Hu, Weijian Chen, Widad Fadhullah, ***Akbar John**. 2025. Marine microplastic pollution in Peninsular Malaysia: A meta-analysis. Regional Studies in Marine Science. 86: 104228. ISSN 2352-4855. <https://doi.org/10.1016/j.rsma.2025.104228>
1. Farsia Naher, Md. Nayeem Hossain, **Akbar John**, Md. Tanvir Hossain Tushar, Zobair Alam Sunny, Md. Tarek, Shahida Arfine Shimul, Saifuddin Rana, Sk. Ahmad Al Nahid. 2025. Population structure and allometric patterns in mangrove horseshoe crab, *Carcinoscorpius rotundicauda* from the coastal area of Cox's Bazar, Bangladesh. Regional Studies in Marine Science. 84: 104113. ISSN 2352-4855. <https://doi.org/10.1016/j.rsma.2025.104113>
2. Yahya EB, Ali SR, Lalung J, Zain MSC, Danish M, **John A.** Exploring the potential of biopolymers in cosmetic applications: Sustainable, biocompatible, and high-performance materials for future innovations. *Polym Eng Sci.* 2025; 65(6): 2789-2802. doi:[10.1002/pen.27186](https://doi.org/10.1002/pen.27186)
3. Hajisamae, S., Soe, K. K., Maae, S., Chaymongkol, S., & **John, A.** (2025). Population structure and feeding habits of *Carcinoscorpius rotundicauda* in the bay environment, Southern Gulf of Thailand. *Fisheries Research*, 281, 107216. <https://doi.org/https://doi.org/10.1016/j.fishres.2024.107216>
4. ***Akbar John**, Ronisha Shankar Rao. 2025. Social and Economic Implications of Circular Plastic Waste Management in Malaysia. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 60-71. CRC Press. eBook ISBN: 9781003465447.
5. Ahmad Jalal Khan Chowdhury, Muhammad Waleed, **Akbar John***. 2025. Current Status of Plastic Pollution in Thailand: Challenges and Prospects. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 1-11. CRC Press. eBook ISBN: 9781003465447.

6. Hassan I Sheikh, Pavan Sai, **Akbar John***. 2025. Identifying Microplastic Contamination in Marine Biota. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 12-26. CRC Press. eBook ISBN: 9781003465447.
7. BY Kamaruzzaman, **Akbar John***, Muhammad Waleed. 2025. Assessing the Environmental Impact of Urban Plastic Waste in Pahang, Malaysia. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 49-59. CRC Press. eBook ISBN: 9781003465447.
8. ***Akbar John**, Alok Prasad Das. 2025. Government Strategies for Achieving Circular Economy for Plastic Waste Management in Southeast Asia. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 72-82. CRC Press. eBook ISBN: 9781003465447.
9. Smiti Kana Ray, Sudeshna Dey, Alok Prasad Das, **Akbar John***. 2025. Microplastic Waste Management through Greener Technologies: A Review. Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches. Alok Das & Akbar John edi. 237-261. CRC Press. eBook ISBN: 9781003465447.
10. Sajith Ahamed, M. Mohiadeen Batcha, Lokesh Ravi, M. Ashiq Ur Rahman, Akbar John, R. Krishnamoorthi, M. Badhul Haq, C. Amutha, P.U. Mahalingam. 2025. Pathogen-bound C-type lectin and ficolin enhance toll receptor signaling is activated through Spätzle1 cleavage in response to White Spot Syndrome Virus (WSSV) in *Penaeus monodon*. Fish & Shellfish Immunology, Volume 167, 2025, ID110686, <https://doi.org/10.1016/j.fsi.2025.110686>

Published Articles (2024)

11. Tang, Q., **John, A.**, Wardiatno, Y., Nishida, S., Van Tu Do, , Xie, X., Pati, S., Susanto, H.A., Hajisamae, S., Nelson, B.R., Min, W.W., Hasan, M.E., Salles, T., Chen, Y., Qu, Y., Lei, F., Venkatesh, B. and Rheindt, F.E. (2025), Evolution and Viability of Asian Horseshoe Crabs Appear Tightly Linked to Geo-Climatic Dynamics in the Sunda Shelf. Conservation Letters., 18: e13074. <https://doi.org/10.1111/conl.13074>
12. Chowdhury, A. J. K., ***John, A.**, Aqilah, N. S., Abdullah, R., Salihah, N. T., Basir, K. H., & Marsal, C. J. (2022). Macrobenthic community towards sustainable aquatic ecosystem: a systematic review along the coastal waters of Malaysia. *Geology, Ecology, and Landscapes*, 8(1), 57–70. <https://doi.org/10.1080/24749508.2022.2095088>.
13. ***Akbar John**, Ahmed Jalal Khan Chowdhury, Mohammad Bodrul Munir, Rose Abdullah, Zaima Azira Zainal Abidin, and Noor Faizul Hadry Nordin. 2024. Fishery resilience in Covid -19 post-pandemic era: sustainable environmental approach for potential challenges in Asia. Environmental Resilience in the Pandemic Years 2020–2021. edi, Darren Jones, Ahmed Jalal Khan Chowdhury, Anh Tuan Hoang. ISBN: 978-3-031-47757-7. Pages: VI, 192.

Published Articles (2023)

14. Mohammed Zayan Jalal, Abdul Khaliq Rasheed, **Akbar John***, Waleed Fekry Faris, Abdul Hussain Aabid, Muneer Baig, Batoul Alallam. 2023. Synthesis and Characterization of Novel Ternary-Hybrid Nanoparticles as Thermal Additives. Materials. 16 (1): 173. <https://doi.org/10.3390/ma16010173>
15. Vedharajan B, Pandisamy R, Nobi EP, Hashim S, **John A**, Sivakumar K, et al. Seagrasses in the Indian Ocean Region with Special Reference to Urbanization BT - Climate Change and Urban Environment Sustainability. In: Pathak B, Dubey RS, editors. Singapore: Springer Nature Singapore; 2023. p. 109–24. Available from: https://doi.org/10.1007/978-981-19-7618-6_7
16. **John A***, Raveen BN, Sheikh HI, Kamal AHM, Vedharajan B, Pandisamy R, et al. Seagrass of Southeast Asia: Challenges, Prospects, and Management Strategies BT - Climate Change and Urban Environment Sustainability. In: Pathak B, Dubey RS, editors. Singapore: Springer Nature Singapore; 2023. p. 279–91. Available from: https://doi.org/10.1007/978-981-19-7618-6_15

17. Veluchamy, C., Divakar, S., Sekaran, M., **John, A.**, Buot, I. E., Perumal, A., ... Thiagarajan, K. (2023). Current Status of Seaweed Diversity: Anthropogenic Interventions BT - Plant Diversity in Biocultural Landscapes. In S. Ramamoorthy, I. E. Buot Jr., & C. Rajasekaran (Eds.) (pp. 563–579). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-19-8649-9_24
18. L. Joji Reddy, P. Suresh Kumar, Santhi Latha Pandrangi, Rajashekar Chikati, C. Srinivasulu, **Akbar John**, Arifullah Mohammed & Ramachandra Reddy Pamuru. A Review on Psychrophilic β -D-Galactosidases and Their Potential Applications. *Appl Biochem Biotechnol* **195**, 2743–2766 (2023). <https://doi.org/10.1007/s12010-022-04215-w>

Published Articles (2022)

19. Mohammed Zayan, Jalal, Abdul K. Rasheed, **Akbar John***, Mohammad Khalid, Ahmad F. Ismail, Abdul Aabid, and Muneer Baig. 2022. "Investigation on Rheological Properties of Water-Based Novel Ternary Hybrid Nanofluids Using Experimental and Taguchi Method" *Materials* 15, no. 1: 28. <https://doi.org/10.3390/ma15010028><https://doi.org/10.1007/s10531-020-02078-3>. **IF 3+**
20. Jalal Mohammed Zayan, **Akbar John***, Abdul Khaliq Rasheed, Batoul Alallam, Mohammed Khalid Ahmad Faris Ismail, Hamzah Salleh. 2022. Earlier denaturation of dna by using novel ternary hybrid nanoparticles. *IJUM Engineering Journal*. *In press*.
21. Hossain, Md. S., Hidayah Karuniawati, Ammar A. Jairoun, Zannat Urbi, Der J. Ooi, **Akbar John**, Ya C. Lim, K. M.K. Kibria, A.K. M. Mohiuddin, Long C. Ming, Khang W. Goh, and Muhammad A. Hadi. 2022. "Colorectal Cancer: A Review of Carcinogenesis, Global Epidemiology, Current Challenges, Risk Factors, Preventive and Treatment Strategies" *Cancers* 14, no. 7: 1732. <https://doi.org/10.3390/cancers14071732>.
22. Sheikh, H., **John, A***, Musa, N. *et al.* 2022. *Vibrio* spp. and Their Vibriocin as a Vibriosis Control Measure in Aquaculture. *Appl Biochem Biotechnol* (2022). <https://doi.org/10.1007/s12010-022-03919-3>
23. Ahmed Jalal Khan Chowdhury, ***Akbar John**, Nurul Syaza Aqilah, Rose Abdullah, Nur Thaqifah Salihah, Khairul Hidayatullah Basir & C.J. Marsal. 2022. Macrobenthic community towards sustainable aquatic ecosystem: a systematic review along the coastal waters of Malaysia, Geology, Ecology, and Landscapes, DOI: [10.1080/24749508.2022.2095088](https://doi.org/10.1080/24749508.2022.2095088)
24. Siti Umi Kalthum Ab Wahab, Ahmed Jalal Khan Chowdhury, Mohd Shukri Mohd Aris, **Akbar John**, Azzmer Azzar Abdul Hamid and Mohd Azrul Naim Mohamad. 2022. Pollutants distribution using environmetric technique in surface water sited at Gebeng, Kuantan, Pahang, Malaysia. *IOP Conf. Ser.: Earth Environ. Sci.* **1019** 012022. Link: <https://iopscience.iop.org/article/10.1088/1755-1315/1019/1/012022/meta>.
25. ***John, A.**, Nelson, B., Sheikh, H.I., Hajisamae, S., Khan, J. (2022). Feeding Ecology and Dietary Preferences of *Tachypleus gigas* from East Malay Peninsula. In: , *et al.* International Horseshoe Crab Conservation and Research Efforts: 2007- 2020. Springer, Cham. https://doi.org/10.1007/978-3-030-82315-3_35
26. ***Akbar John, B.**, Tang, Q., Eackles, M. (2022). The Need to Establish Horseshoe Crab Global Biorepository. In: , *et al.* International Horseshoe Crab Conservation and Research Efforts: 2007- 2020. Springer, Cham. https://doi.org/10.1007/978-3-030-82315-3_19.
27. Bal, B., Das, B.P., Das, A.P., **Akbar John, B.** (2022). Molecular Identification and Phylogenetic Analysis of Indian Mangrove Horseshoe Crab. In: , *et al.* International Horseshoe Crab Conservation and Research Efforts: 2007- 2020. Springer, Cham. https://doi.org/10.1007/978-3-030-82315-3_3.

28. Nurul Ashikin Mat Zauki, Shantika Maylana Sastraprawira, Mohammad Yahya Ibrahim Alkhalili, Nur Fairuz-Fozi, Siddhartha Pati, Salwa Shahimi, Chong Ju Lian, Hisham Atan Edinur, **Akbar John**, Ahmed Jalal Khan Chowdhury, Behara Satyanarayana & Bryan Raveen Nelson (2022). Detrimental Coastline Alteration at Horseshoe Crab Spawning Grounds in Pahang, South China Sea. In: , *et al.* International Horseshoe Crab Conservation and Research Efforts: 2007- 2020. Springer, Cham. https://doi.org/10.1007/978-3-030-82315-3_24.
29. Mahanty, A., Pati, S., **John, A.**, & Bunawan, H. High Throughput Omics Technologies for Understanding Molecular Stress Response and Devising Mitigation Actions. *Frontiers in Marine Science*, 1050.
30. L. Joji Reddy, P. Suresh Kumar, Santhi Latha Pandrangi, Rajashekar Chikati, C. Srinivasulu, **Akbar John**, Arifullah Mohammed, Ramachandra Reddy Pamuru. 2022. A Review on Psychrophilic β -D-Galactosidases and Their Potential Applications. *Applied Biochemistry and Biotechnology* <https://doi.org/10.1007/s12010-022-04215-w>
31. K. Kadharsha, Job Paul, S. Ajmal Khan, P.S. Lyla, Bryan Raveen Nelson, & **Akbar John**. (2022). Fish as bio-indicator tool for assessing estuarine health. *Journal of advanced applied scientific research*, 4(5): 50-63. <https://doi.org/10.46947/joaasr452022503>

Published Articles (2021)

32. Wenyan Nong, Zhe Qu, Yiqian Li, Tom Barton-Owen, Annette Y.P. Wong, Ho Yin Yip, Hoi Ting Lee, Satya Narayana, Tobias Baril, Thomas Swale, Jianquan Cao, Ting Fung Chan, Hoi Shan Kwan, Ngai Sai Ming, Gianni Panagiotou, Peiyuan Qian, Jianwen Qiu, Kevin Y. Yip, Noraznawati Ismail, Siddhartha Pati, **Akbar John**, Stephen S. Tobe, William G. Bendena, Siu Gin Cheung, Alexander Hayward, Peter W. H. Holland, Jerome H.L. Hui. 2019. Horseshoe crab genomes reveal evolutionary fates of genes and microRNAs after three rounds (3R) of whole genome duplication in invertebrates. *Nature Communication Biology*. **4 (1):83**. <https://doi.org/10.1038/s42003-020-01637-2> **IF 12+**
33. ***Akbar John**, Paul Shin, Mark Botton, Gleen Gaurey, SG Cheung, Kevin Laurie. 2021. Conservation of Asian horseshoe crabs on spotlight. *Biodiversity and Conservation*. 30: 253-256. . <https://doi.org/10.1007/s10531-020-02078-3>. **IF 4+**
34. Arzmi, Mohd Hafiz, **Akbar John**, Nurul Alia Risma Rismayuddin, Norzaiti Mohd Kenali, and Deny Susanti Darnis. 2021. LC-MS Data Set on the Malayan Deer (*Cervus Timorensis*) Antler Velvet and Its Antibiofilm Properties against *Candida* Species. *Data in Brief* 35: 106769. <https://doi.org/https://doi.org/10.1016/j.dib.2021.106769>.
35. Ahmed Jalal Khan Chowdhury, ***Akbar John**, Rose Abdullah, Najiah Musa, Muhammad Aqeel Ashraf. 2021. Impact of Covid-19 on aquaculture and fisheries in ASEAN countries: some aspects of challenges, mitigations for future strategies in Malaysia. *Desalination and water treatment*. 241: 331-339. Q2. <https://doi.org/10.5004/dwt.2021.27792>
36. Siddhartha Pati, Salwa Shahimi, Debabrata Nandi, Tanmay Sarkar, Satya Narayan Acharya, Hassan I. Sheikh, Tanupriya Choudhury, **Akbar John**, Dipti Kanta Acharya, Bryan R. Nelson, Bisnu Prasad Dash, Edinur Hisham Atan. 2021. Predicting *Tachypleus gigas* Spawning Distribution with Climate Change in Northeast Coast of India. *Journal of ecological engineering*. 22(3): 211-220. Q2.
37. Rozihan, M., Nur Alisa, P., Nor Syuhaida, I., Joni, H.D., Salwa, S., Siddhartha, P., ***Akbar John.**, Bryan Raveen, N. 2021. Using Applied Statistics for Accurate Size Classification of the Endangered *Tachypleus tridentatus* Horseshoe Crab. *Journal of Ecological Engineering*. 22(4), 273–282.
38. Rahman, M.M., Fathi, A., Balcombe, S.R. Nelson, B.R., **Akbar John**. 2021. Influences of environmental parameters and phytoplankton productivity on benthic invertebrates in a tropical oligotrophic lake, northern Malaysia. *Environmental Science Pollution Research*. <https://doi.org/10.1007/s11356-021-13671-6>. **IF 4+**.
39. Qian Tang, Prashant Shingate, Yusli Wardiatno, **Akbar John**, Boon Hui Tay, Laura-Marie Yap, Jasmin Lim, Hor Yee Tong, Karenne Tun, Byrappa Venkatesh, Frank E. Rheindt. 2019. The different

fates of two Asian horseshoe crab species with different dispersal abilities. Evolutionary application. **IF 5+** <https://doi.org/10.1111/eva.13271>

40. Hassan I Sheikh, ***Akbar John**, Solachuddin, J.A. Ichwan, Kamaruzzaman, B.Y. 2020. Effect of prolonged captivity on the hemolymph profile of *Tachypleus gigas* using various anticoagulant formulations. *Aquaculture Reports*. Vol20: ID: 100760. **IF 3+**. <https://doi.org/10.1016/j.aqrep.2021.100760>
41. Kaushik Kumar Bharadwaj, Tanmay Sarkar, Arabinda Ghosh, Debabrat Baishya, Bijuli Rabha, Manasa Kumar Panda, Bryan R. Nelson, **Akbar John**, Hassan I. Sheikh, Bisnu Prasad Dash, Hisham A. Edinur, and Siddhartha Pati. 2021. Macrolactin A as a Novel Inhibitory Agent for SARS-CoV-2 Mpro: Bioinformatics Approach. *Applied Biochemistry and Biotechnology*. Accepted. **IF 3+** <https://doi.org/10.1007/s12010-021-03608-7>.
42. Khairulbariyyah Zakaria, Sudau Eh Teet, Nor Hazwani Hamzah, Alia Syafiqah Aznan, Mohamed Tajuddin Abdul Manaf, Wan Nurhafizah Wan Ibrahim, Lee Kok Leong, Nurul Aqilah Iberahim, Nadirah Musa, Laith Abdulrazzak, Hassan Mohd Daud³, Mariam Taib, Kishio Hatai, **Akbar John B**, Jalal K. C. A., Hassan I. Sheikh, and Najiah Musa. 2021. Isolation and Identification of fungi associated with diseased freshwater fishes in Terengganu, Malaysia. *Songklanakarin Journal of Science and Technology*. 43 (4): 1131-1139.
43. Jalal, K.C.A., ***Akbar John, B.**, Abdullah, R., Najiah, M., Aqeel, M.A. 2021. Impact of Covid-19 on aquaculture and fisheries in ASEAN countries: some aspects of challenges, mitigations for future strategies in Malaysia. *Desalination and Water treatment*. DOI: 10.5004/dwt.2021.27792

Published Articles (2020)

44. Akbar John B., Muhamad Asrul M.A., Arshaad W.M., Jalal K.C.A., Sheikh H.I. (2020) DNA Barcoding of Rays from the South China Sea. In: Trivedi S., Rehman H., Saggu S., Panneerselvam C., Ghosh S. (eds) *DNA Barcoding and Molecular Phylogeny*. Springer, Cham. https://doi.org/10.1007/978-3-030-50075-7_8
45. Akbar John B. et al. (2020) DNA Barcoding of Ichthyoplankton and Juvenile Fishes of a Tropical River in Malaysia. In: Trivedi S., Rehman H., Saggu S., Panneerselvam C., Ghosh S. (eds) *DNA Barcoding and Molecular Phylogeny*. Springer, Cham. https://doi.org/10.1007/978-3-030-50075-7_15
46. Rahman M.M., Izzuddin M.H., Khan N.S., John A., Naim M.A. (2020) DNA Barcoding and Molecular Phylogeny of Indigenous Bacteria in Fishes from a Tropical Tidal River in Malaysia. In: Trivedi S., Rehman H., Saggu S., Panneerselvam C., Ghosh S. (eds) *DNA Barcoding and Molecular Phylogeny*. Springer, Cham. https://doi.org/10.1007/978-3-030-50075-7_14.
47. Bryan Raveen Nelson, **Akbar John.**, Julia Hwei Zhong Moh., Jalal, K.C.A. 2020. Membrane Retention Potential of *Tachypleus gigas* During Early Embryogenesis. *Desalination and Water treatment*. **187**: 17-23. **Q2. IF 1.5+**
48. Siti Umi Kalthum Ab Wahab, Mohd Armi Abu Samah, Asnor Azrin Sabuti, Kamaruzzaman Yunus, Ahmed Jalal Khan Chowdhury, **Akbar John**, Mohd Shukri Mohd Aris, Mohd Azrul Naim Mohamad. 2020. Environmental Forensic Study: Tracing of Pollution Sources using Environmetric Technique in Balok and Tunggak Rivers near Gebeng Industrial Area River, Kuantan, Pahang, Malaysia. *Desalination and Water treatment*. **191**: 118-125. **Q2. IF 1.5+**
49. Kamaruzzaman, B.Y., Zuraidah, M.A., **Akbar John**. 2020. A review on the accumulation of heavy metals in coastal sediment of Peninsular Malaysia. *Ecofeminism and Climate change*. Accepted: DOI 10.1108/EFCC-03-2020-0003.
50. Nurafiqah, M.S., **Akbar John**, Hassan Sheikh, Jalal, K.C.A., Kamaruzzaman, B.Y. 2020. Acute-lethal toxicity test on juvenile *Oreochromis niloticus* exposed to *Piper betle* extract under static exposure. *Ecofeminism and Climate Change*. DOI 10.1108/EFCC-03-2020-0001
51. Sastraprawira SM, Abd. Razak IH, Shahimi S, Pati S, Edinur HA, **John AB**, et al. 2020. A review on introduced *Cichla* spp. and emerging concerns. *Heliyon*. 6(11): e05370. Available from:

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136. Kamaruzzaman, B.Y., Shuhada, N.T., Zahir, M.S., **Akbar John, B.**, Shahbudin, S., Jalal, K.C.A., Al-Barwani, S.M., and Goddard, J.S. 2011. Concentrations of Lead, Copper and Zinc in the Bottom Sediments of Tuba Island Waters of Langkawi, Malaysia. Oriental Journal of Chemistry. 27 (2): 505-510. THOMSON ISI.
137. ***B. Akbar John**, K.C.A. Jalal, K. Zaleha, P. Armstrong & B.Y. Kamaruzzaman (2011): Effects of blood extraction on the mortality of Malaysian horseshoe crabs (*Tachypleus gigas*), Marine and Freshwater Behavior and Physiology, 44:5, 321-327. THOMSON ISI.
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146. Kamaruzzaman B.Y., Siti Waznah, A., Mohd Zahir, M. S., Ong, M.C., Shahbudin, S., Jalal, K. C. A., Rina Sharlinda, Z., Shuhada, A. T., **Akbar John, B.** Joseph, B. Al-Barwani and J.S. Goddard. 2010. Distribution of Chromium, Manganese and Cobalt in the Bottom Sediment of Pahang River-Estuary, Pahang, Malaysia. *Journal of Applied Science*. 10 (23): 3122-3126. THOMSON ISI
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148. K. Zaleha, B.Y. Kamaruzzaman, **B. Akbar John** and M.C. Ong. 2010. Cd, Cu and Pb Concentration Levels in Horseshoe Crab Nesting Grounds of Pahang Coast, Malaysia. *Journal of Biological Science*. 10(8): 790-794. THOMSON ISI.

Peer Review Activities

- Emerging Microbes & infections
- Molecular Biology Reports
- Journal of Environmental management
- Conservation genetics
- Biodiversity Conservation
- Ocean and Coastal management
- Aquaculture
- Aquaculture research
- Frontiers Marine Science
- Frontiers in Veterinary science
- Marine biodiversity
- Global Ecology and Conservation
- Environmental Science and Pollution Research
- International Journal of Environmental Science and Technology
- Indian Journal of Geo Marine Science
- Asian Pacific Journal of Tropical Biomedicine

- American Journal of Experimental Agriculture
- Asian Journal of Agricultural Extension, Economics & Sociology.
- Malaysian Applied Biology
- Journal technology
- Saudi Journal of Biological Science
- Nature Environment and Pollution Technology
- Endangered Species Research
- Fish and Shellfish Immunology
- Springer Nature Book
- Elsevier Book

Research, Teaching Grants

Project title	Position	Approved Amount	Status of Project	Funding Agency
The Effect of Monsoon on Fish Larval (Ichthyoplankton Stages) Assemblage Changes in Kuantan River	Principle Investigator	RM 45,600.00	Completed	FLOOD FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
DNA barcoding of selected commercial fishes in Pahang river	Principle Investigator	RM 20,000.00	Completed	(IIUM Endowment B)
Captive Breeding and Induced Fertilization of Malaysian Horseshoe crab (<i>Tachypleus gigas</i>) for Sea Ranching and Future Artificial Sanctuary	Principle Investigator	RM 76,000. 00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Genetic variation and dna barcoding of endangered fishes in pahang river	Co-Researcher	RM 79,000. 00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice	Principle Investigator	RM 20,000.00	Completed	Research Initiative Grant Scheme (RIGS), IIUM
Molecular Phylogeny and population genetic structure of southeast Asian horseshoe crab, <i>Tachypleus tridentatus</i> in Malaysia	Co-Researcher	RM 73,600. 00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Species Inventory and Genetic Diversity of Fishes in Kuantan River Basin	Co-Researcher	RM 24,000.00	Completed	Research Initiative Grant Scheme (RIGS), IIUM
Fisheries Conservation Towards Sustainable Development in Tropical Environment	Co-Researcher	RM 20,000.00	Completed	Research Initiative Grant Scheme (RIGS), IIUM

Inventory on the species composition and existing metal concentration in Kuantan River	Co-Researcher	RM 36,000.00	Completed	RPDF Grant, IIUM
Environmental Determinants Influencing Fish Community Structure and Seasonal Diversity in tropical estuary, Kuala Pahang, malaysia	Co-Researcher	RM 36,000.00	Completed	RPDF Grant, IIUM
DNA barcoding and Molecular phylogenetics of sharks in Malaysia	Principle Investigator	RM 78,000.00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Assessment of population parameters of selected fishes in Pahang coastal water and Kuantan river for their proper management	Co-Researcher	RM 20,000.00	Completed	Research Initiative Grant Scheme (RIGS), IIUM
Environmental DNA metabarcoding of fishes in Balok river, Kuantan Pahang	Co-Researcher	RM 70,600.00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Comparison of Biological aspects of Torpedo Scad (<i>Megalapis cordyla</i>) from the east and west coastal water of Peninsular Malaysia.	Co-Researcher	RM 20,000.00	Completed	Research Initiative Grant Scheme (RIGS), IIUM
Estimating population parameters of depleting <i>Nemipterus furcosus</i> stock using modelling tools to develop management guidelines for their sustainable production in the Peninsular Malaysia	Co-Researcher	RM 79,690.00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Understanding the antioxidant and antiinflammatory role of Tualang honey and change to gut microbiota in diet induced obese rats	Co-Researcher	RM 165,645.00	Completed	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)
Horseshoe crab resilience to withstand climate change	PI from IIUM	\$-HK209,070	Completed	Ocean Park conservation foundation grant 2020. Hong Kong
Jellyfish genomics and venoms evolution	PI from IIUM	\$-HK3,660,000	Completed	TUYF, Hong Kong
Generating global trade data on Asian horseshoe crabs	Principle Investigator	\$-HK230850	On going	Ocean Park conservation foundation grant 2021. Hong Kong
Regional meeting on Asian Horseshoe crab conservation	Principle Investigator	USD 3500	Completed	IUCN SSC special grant, USA

Global trade data on Asian horseshoe crabs	Principle Investigator	USD 10000	Completed	EDGE Grant, USA	IUCN	internal
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Awards and Recognitions

- Top 10 finalist for the Indianapolis Emerging Conservationist Award 2023
- Established global Biorepository on horseshoe crabs (https://github.com/qt37t247/horseshoecrab_bio-repository).
- Scientific exhibition: University awards 13, National awards 3, International awards 2.

University & Community Services

- **Head of Research and Coordinator** for University and International grants, and International Linkages, University of Khorfakkan
- **Auditor/committee member:** University Industrial training and policy compliance, University of Khorfakkan
- **Head** - Research cluster on Sustainable Ecosystem and Environment
- **Institute (INOCEM) Head of Research** –2016- 2022
- **Coordinator** for International Institutional linkages and Network
- **Committee Advisor for the biosafety and chemical disposals** – Since 2018-2022
- **Postgraduate Program development (Head)**– Masters and PhD in Responsible fisheries and Resource Management.
- **Committee member:** Quality assurance, Innovative teaching and learning, Global connections,

Service to the Community:

- Developed program on **Certified citizen scientist®** to improve the scientific understanding on marine environment among the costal communities especially among the youngsters. Malaysia.