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Qualification: **M. Sc.**

Research Area: **Molecular biology and Marine biotechnology**

Field of Interest: **Management of aquatic animal diseases through molecular biology and modern biotechnologicalapproach.**

Scientometrics: To measure the scientific research output and research policy implication.

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Publication:

Published In Peer Reviewed Books:

1. Mitra A., Ghosh R., **Mallik A.**, Mondal K., Zaman S. and Banerjee K. (2013) Sustainable freshwater aquaculture in mangrove-dominated Indian sundarbans using floral-based feed, **in a book "Sensitivity of Mangrove Ecosystem to Changing Climate", Spinger, Annexure 8A.1.**
2. Mitra A., Ghosh R., **Mallik A.**, Mondal K., Zaman S. and Banerjee K. (2013) Study on the Role of Mangrove-Based Astaxanthin in Shrimp Nutrition, **in a book "Sensitivity of Mangrove Ecosystem to Changing Climate", Spinger, Annexure 8A.2.**

Published In Peer Reviewed Journals:

1. Chakrabarty, U., Dutta, S., **Mallik, A**., Mandal, N., 2014. White spot syndrome virus (WSSV) and disease resistance prevalence in a commercially cultured population of *Penaeusmonodon*Fabricius, 1798 (Decapoda, Dendrobranchiata). Crustaceana (In Press).
2. **Mallik, A.**, Chakrabarty, U., Dutta, S., Mondal, D. and Mandal, N., 2014. Study on the distribution of disease-resistant shrimp dentified by DNA markers in respect to WSSV infection in different

seasons along the entire east coast of India aiming to prevent white spot disease in *Penaeusmonodon*. TransboundEmerg Dis doi: 10.1111/tbed.12230.

3. Chakrabarty, U., **Mallik, A.**, Mondal, D., Dutta, S. and Mandal, N., 2014. Assessment of WSSV prevalence and distribution of disease resistant shrimp among the wild population of *Penaeusmonodon* along the west coast of India. J InvertebrPathol 119, 12-18.
4. **Mallik A.**, Mandal N. (2013) Bibliometric analysis of global publication output and collaboration structure study in microRNA research, Scientometrics DOI 10.1007/s11192-013-1128-z
5. Dutta S., Biswas S., Mukherjee K., Chakrabarty U., **Mallik A.** and Mandal N. (2013) Identification of RAPD-SCAR marker linked to WSSV resistance in populations of giant black tiger shrimp, *Penaeusmonodon*, (Fabricius) Journal of Fish Diseases doi:10,1111/jfd,12128
6. Dutta S., Chakrabarty U., **Mallik A.** and Mandal N. (2013) White spot syndrome virus (WSSV) prevalence associated with disease resistance among wild populations of black tiger shrimp, *Penaeusmonodon* (Fabricius) Aquaculture Research doi: 10,1111/are,12193
7. Dastidar P. G., **Mallik A.** and Mandal N. (2013) Contribution of shrimp disease research to the development of the shrimp aquaculture industry: an analysis of the research and innovation structure across the countries Scientometricsdoi: 10,1007/s11192-013-0977-9
8. Dutta S., Chakrabarty U., **Mallik A.** and Mandal N. (2013) Experimental evidence for WSSV susceptibility linked to a microsatellite DNA marker in Giant Black Tiger Shrimp, *Penaeusmonodon* (Fabricius), Journal of Fish Diseases 36, 593–597 doi:10,1111/jfd,12006
9. Mondal K., Ghosh R., Bhattacharyya S.B., Zaman S., **Mallik A.**, Das, M., Mitra, A. (2013) Partial replacement of fish meal with mangrove based plant ingredients and its effect on water quality, growth performance and length-weight relationship of freshwater prawn *Macrobrachiumrosenbergii*. Species 3 (8), 15-21.
10. Banerjee K., Vayas, P., Chowdhury R., **Mallik A.** and Mitra A. (2010) Theaffects of salinity on the mangrove growth in the lower Gangetic delta. Journal of Indian Ocean Studies 18 (3), 389-97.

Abstract published At International & National Conferences/Symposiums:

1. Chakrabarty U., Dutta S., **Mallik A.,**Mondal D., and Mandal N. (2014) Estimation of WSSV infection with distribution of disease resistant population of marine shrimp (*Penaeusmonodon*) along the entire coastal areas of India. Abstract in the 4th International Conference of World

Science Congress on “Science for sustainable development”, December 16–18, 2014 organized by Jadavpur University, Kolkata, West Bengal, India

2. Dutta S.,Chakrabarty U., **Mallik A.,**Mondal D., and Mandal N. (2014) Importance of various DNA markers for the development of specific pathogen resistant (SPR) *Penaeusmonodon*. Abstract in the National Conference on "Current trends in Life Sciences research and challenges ahead", February 28 – March 02, 2014 organized by Dept. of Life Sciences, Sambalpur University, Orissa, India

3. Mondal D., Dutta S., Chakrabarty U., **Mallik A.** and Mandal N. (2014) Quantitative estimation of WSSV propagation among disease resistant and disease susceptible population of marine shrimp (*Penaeusmonodon*) Abstract in the National Conference on "Current trends in Life Sciences research and challenges ahead", February 28 – March 02, 2014 organized by Dept. of Life Sciences, Sambalpur University, Orissa, India

4. **Mallik A.,** Mandal N. (2013) Importance of patents in scientific research: a case study of microrna research Abstract in the International Conference on “Global IPR System and WTO Issues” during Nov. 16-17, 2013 at Ch. Charan Singh University, Meerut (UP) India

5. Mandal N., Chakrabarty U., Dutta S., Khatua S., and **Mallik A.** (2012) Importance of DNA markers linked to disease resistance in marine shrimp (Penaeusmonodon) Abstract in the “BIT’s 2nd Annual World Congress of Marine Biotechnology” on September 20-23, 2012 organized by BIT Congress Inc., Dalian, China

6. Dutta S., Chakrabarty U., Khatua S., **Mallik A.** and Mandal N. (2012) Importance of DNA markers to identify disease resistant Penaeusmonodon for disease free shrimp aquaculture Abstract in the 2nd International Symposium on “Perspective of Cell Signaling and Molecular Medicine” January 8-11, 2012 organized by Division of Molecular Medicine, Bose Institute, Kolkata, India

7. Dastidar P. G., **Mallik A.** and Mandal N. (2012) Are Academic Research and Innovation policies sufficient to sustain the challenges of Aquaculture industries? An analysis of research dynamics across the countries Abstract in the 22nd Annual Conference of The International Environmetrics Society on “Environmental Challenges facing developed and developing countries in a Globalized World: Quantitative approaches to Comprehensive Solutions” January 3-6, 2012 Jointly Organized by CRRAO AIMSCS, UOH Campus and University of Hyderabad, Gachibowli, Hyderabad, India

8. Dutta S., Chakrabarty U., Khatua S., **Mallik A.** and Mandal N. (2011) DNA markers linked to disease resistance in shrimp (Penaeusmonodon). Abstract in International symposium on "From innovations in nucleic acids research to regulation of Biological processes" of the day on December 17-19, 2011 organized by Department of Microbiology and Molecular Biology, Indian Institute of Science, Bangalore.
9. Biswas, S., Hazra, B., Sarkar, R., Dutta, S., Khatua, S., Chakraborty, U., Ghate, N., **Mallick, A.**, and Mandal, N. (2011) Importance of Biotechnology to control various diseases in human as well as in aquatic animal. Abstract in Sir J.C. Bose Memorial National Symposium on Modern Trends in Animal Science Research and Challenges of the Day on March 23, 2011 organized by Department of Zoology and Molecular Biology & Genetics, Presidency University, Kolkata.
10. **Mallik A.** (2011) Inter-relationship between mangrove biomass and salinity: A case study from Indian Sundarbans. Abstract in National Seminar on Impact of Emerging Areas of Science & Technology on the Development of Society on February 5-6, 2011 organized by Central Calcutta Science & Culture Organization for Youth, Kolkata.
11. Mukherjee A., **Mallik A.**, Rakshit D and Chakraborty S. (2009) Vanishing Horseshoe crabs on a warming Earth. Abstract in National Seminar on Climate Change: Challenges and Mitigation on February 27-28, 2009 organized by Central Calcutta Science & Culture Organization for Youth, Kolkata.

Participation:

Speach delivered at meeting/ conferences/ seminars/ symposia:

Delivered a Lecture on Inter-relationship between mangrove biomass and salinity: A case study from Indian Sundarbans in National Seminar on Impact of Emerging Areas of Science & Technology on the Development of Society on February 5-6, 2011 organized by Central Calcutta Science & Culture Organization for Youth, Kolkata.

Attended meeting/ symposium/ conferences/ seminars:

1. "NEW BIOLOGY: MODERN PERSPECTIVE ON BIOLOGICAL SCIENCE RESEARCH", 27th August, 2015, in collaboration with Zoology, Anthropology and Botany departments.
2. Attended in the International Conference on "Global IPR System and WTO Issues" during Nov. 16-17, 2013 at Ch. Charan Singh University, Meerut (UP) India

3. Attended in the 2nd International Symposium on “Perspective of Cell Signaling and Molecular Medicine” January 8-11, 2012 organized by Division of Molecular Medicine, Bose Institute, Kolkata, India.
4. Attended in the 22nd Annual Conference of The International Environmetrics Society on “Environmental Challenges facing developed and developing countries in a Globalized World: Quantitative approaches to Comprehensive Solutions” January 3-6, 2012 Jointly Organized by CRRAO AIMSCS, UOH Campus and University of Hyderabad, Gachibowli, Hyderabad, India.
5. Attended in National Seminar on Impact of Emerging Areas of Science & Technology on the Development of Society on February 5-6, 2011 organized by Central Calcutta Science & Culture Organization for Youth, Kolkata.
6. Attended in National Seminar on Climate Change: Challenges and Mitigation on February 27-28, 2009 organized by Central Calcutta Science & Culture Organization for Youth, Kolkata.

Membership: NIL