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**Research Area** : Molecular biology & Marine biotechnology and Bibliometrics & Scientometrics  
**Field of Interest:** Management of aquatic animal diseases through molecular biology and modern biotechnological approach.

To evaluate the scientific research output and research policy implication through Scientometric & Bibliometric techniques.

**Title of the thesis:** "Study On The Research Scenario Of White Spot Disease And Importance Of Biomarker In The Disease Prevention Of Marine Shrimp"

**Total research experiences** : 08 years (up to November 2018)  
**Research experiences as faculty** : 3 years 8 months  
**Pre doctoral research experiences** : 05 years 11 months, Bose Institute, Kolkata 700054

**Publications list** (Title of paper, authors, Journal details, pages, year etc.):

**A. Published articles in peer-reviewed journals: (total citations: 103 h-index = 6, i10-index=5)**

- [1] **Mallik A.** & Ghosh B. (2018) Scientometric analysis of research advancement in graph theory and its applications. COLLNET Journal of Scientometrics and Information Management, 12(2) December pp. 1-19 (In press)
- [2] Basu T., **Mallik A.** & Mandal N. (2017) Evolving importance of anticancer research using herbal medicine: a scientometric analysis. Scientometrics 110(3): 1375-1396. (Impact factor: 2.084)
- [3] **Mallik A.**, Chakrabarty U., Dutta S., Mondal D. & Mandal N. (2016) Study on the distribution of disease resistant shrimp identified 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 *Penaeus monodon*. Transbound. Emerg. Dis., 63(1):e48-57.(Impact factor: 2.714)
- [4] Chakrabarty U., Dutta S., **Mallik A.**, Mandal D. & Mandal N. (2015) Identification and characterisation of microsatellite DNA markers in order to recognise the WSSV susceptible populations of marine Giant Black Tiger Shrimp, *Penaeus monodon*. Vet. Res., 46:110.(Impact factor: 2.928)
- [5] Dutta S., Chakrabarty U., **Mallik A.** & Mandal N. (2015) White spot syndrome virus (WSSV) prevalence associated with disease resistance among wild populations of black tiger shrimp, *Penaeus monodon* (Fabricius). Aquacult. Res. 46:453–461.(Impact factor: 1.606)

- [6] Chakrabarty U., Dutta S., **Mallik A.** & Mandal N. (2014) White spot syndrome virus (WSSV) and prevalence of disease resistance in a commercially cultured population of *Penaeus monodon* Fabricius, 1798 (Decapoda, Dendrobranchiata). *Crustaceana*, 87 (14):1593–1605. (Impact factor: 0.465)
- [7] Chakrabarty U., **Mallik A.**, Mondal D., Dutta S. & Mandal N. (2014) Assessment of WSSV prevalence and distribution of disease resistant shrimp among the wild population of *Penaeus monodon* along the West coast of India. *J. Invertebr. Pathol.*, 119:12-18. (Impact factor: 2.198)
- [8] **Mallik A.** & Mandal N. (2014) Bibliometric analysis of global publication output and collaboration structure study in microRNA research *Scientometrics*, 98 (3):2011–2037. (Impact factor: 2.084)
- [9] Dutta S., Biswas S., Mukherjee K., Chakrabarty U., **Mallik A.** & Mandal N. (2014) Identification of RAPD-SCAR marker linked to white spot syndrome virus resistance in populations of giant black tiger shrimp, *Penaeus monodon* Fabricius. *J Fish Dis.*, 37:471–480. (Impact factor: 2.053)
- [10] Dastidar, P. G., **Mallik, A.** & 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 *Scientometrics*, 97(3):659–674. (Impact factor: 2.084)
- [11] Dutta S., Chakrabarty U., **Mallik A.** & Mandal N. (2013) Experimental evidence for WSSV susceptibility linked to a microsatellite DNA marker in Giant Black Tiger Shrimp, *Penaeus monodon* (Fabricius). *J Fish Dis.*, 36:593–597. (Impact factor: 2.053)
- [12] 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 *Macrobrachium rosenbergii*. *Species* 3 (8), 15-21.
- [13] Banerjee K., Vayas, P., Chowdhury R., **Mallik A.** and Mitra A. (2010) The effects of salinity on the mangrove growth in the lower Gangetic delta. *Journal of Indian Ocean Studies* 18 (3), 389-97.

#### **Published report/ monograph/ 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”, Springer, 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”, Springer, Annexure 8A.2.**

#### **B. Sequence submitted at NCBI database**

- [1] Mandal N., **Mallik A.**, Dutta S., Chakrabarty U. & Mondal D. (2015). A microsatellite DNA marker of 848bp linked to disease susceptibility in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm848m microsatellite DNA marker genomic sequence. **Accession No: KP751419**. INV 22-JULY-2015.

- [2] Mandal N., Dutta S., Chakrabarty U. & **Mallik A.** (2015). A microsatellite DNA marker of 773bp linked to disease resistance in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm773m microsatellite DNA marker genomic sequence. **Accession No: KP751414**. INV 22-JULY-2015.
- [3] Mandal N., Dutta S., Chakrabarty U. & **Mallik, A.** (2015). A microsatellite DNA marker of 299bp linked to disease susceptibility in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm299m microsatellite DNA marker genomic sequence. **Accession No: KP751415**. INV 22-JULY-2015.
- [4] Mandal N., Dutta S., Chakrabarty U. & **Mallik, A.** (2015). A microsatellite DNA marker of 262bp linked to disease susceptibility in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm262m microsatellite DNA marker genomic sequence. **Accession No: KP751416**. INV 22-JULY-2015.
- [5] Mandal N., Chakrabarty U., Dutta S. & **Mallik A.** (2015). A microsatellite DNA marker of 442bp linked to disease susceptibility in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm442m microsatellite DNA marker genomic sequence. **Accession No: KP751417**. INV 22-JULY-2015.
- [6] Mandal N., Chakrabarty U., Dutta S. & **Mallik A.** (2015). A microsatellite DNA marker of 236bp linked to disease susceptibility in *Penaeus monodon*. Definition: *Penaeus monodon* clone pm236m microsatellite DNA marker genomic sequence. **Accession No: KP751418**. INV 22-JULY-2015.

#### C. Abstract published at international & national conferences/ symposiums

- [1] **Mallik A.** & Mandal N. (2017) Innovative trends in microRNA research: A scientometric analysis of the global research output. Abstract in the 3rd International Conference on "Perspective of cell signalling and molecular medicine", held on Jan 8-10, organized by Division of Molecular Medicine, Bose Institute, Kolkata, West Bengal, India
- [2] Mandal N., Dutta S., Chakrabarty U., **Mallik A.**, Mondal D. & Mondal V. (2016) Role of DNA markers to control White Spot Disease (WSD) in marine shrimp aquaculture. Abstract in the International Conference on "Aquatic Resources & Sustainable Management", February 17-19, 2016 organized by Central Calcutta Science and Culture Organisation for Youth (CCSCOY) in collaboration with University of Calcutta, West Bengal, India
- [3] Chakrabarty U., Dutta S., **Mallik A.**, Mondal D. & Mandal N. (2014) Estimation of WSSV infection with distribution of disease resistant population of marine shrimp (*Penaeus monodon*) 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
- [4] Dutta S., Chakrabarty U., **Mallik A.**, Mondal D. & Mandal N. (2014) Importance of various DNA markers for the development of specific pathogen resistant (SPR) *Penaeus monodon*. 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
- [5] Mondal D., Dutta S., Chakrabarty U., **Mallik A.** & Mandal N. (2014) Quantitative estimation of WSSV propagation among disease resistant and disease susceptible population of marine shrimp (*Penaeus monodon*) 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

- [6] **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
- [7] Mandal N., Chakrabarty U., Dutta S., Khatua S. & **Mallik A.** (2012) Importance of DNA markers linked to disease resistance in marine shrimp (*Penaeus monodon*) Abstract in the “BIT’s 2nd Annual World Congress of Marine Biotechnology” on September 20-23, 2012 organized by BIT Congress Inc., Dalian, China
- [8] Dutta S., Chakrabarty U., Khatua S., **Mallik A.** & Mandal N. (2012) Importance of DNA markers to identify disease resistant *Penaeus monodon* 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
- [9] Dastidar P.G., **Mallik A.** & 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
- [10] Dutta S., Chakrabarty U., Khatua S., **Mallik A.** & Mandal N. (2011) DNA markers linked to disease resistance in shrimp (*Penaeus monodon*). 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
- [11] Biswas S., Hazra B., Sarkar R., Dutta S., Khatua S., Chakraborty U., Ghate N., **Mallick A.** & 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.
- [12] **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.
- [13] 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.

#### **Awards/ recognitions:**

Received award of UGC-JRF, Gov. of India, through Joint CSIR-UGC-NET Examination, 2010

**Participation: Speech 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.