

## CURRICULUM VITAE (CV)



**Krishna R. SALIN, Ph.D., Associate Professor and Program Chair**  
Aquaculture and Aquatic Resources Management (AARM)  
School of Environment, Resources and Development (SERD)  
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**Nationality:** Indian

### Research interests:

- *Cleaner aquaculture systems*
- *Ecosystem-based aquaculture*
- *Applied genetics for improved aquatic stocks*
- *Breeding and hatchery management*
- *Climate change adaptation in fisheries and aquaculture*

### EDUCATION:

Institution	Position/Degree obtained
Queensland University of Technology, Brisbane, Australia. 2013	Visiting Fellow
Queensland University of Technology, Brisbane, Australia. 2009	Endeavour Postdoctoral Fellow
Central Institute of Fisheries Education (Deemed University), Mumbai, India. 1998-2003	Doctor of Philosophy (Mariculture)
College of Fisheries, Kerala Agricultural University, India. 1994-1996	Master of Fisheries Science (M.F.Sc. Aquaculture), I Rank
College of Fisheries, Kerala Agricultural University, India. 1989-1994	Bachelor of Fisheries Science (B.F.Sc.), I Rank

### EMPLOYMENT:

December 2017 to date: Associate Professor, Aquaculture and Aquatic Resources Management (AARM), Asian Institute of Technology, Thailand.

August 2014 to December 2017: Assistant Professor, Aquaculture and Aquatic Resources Management (AARM), Asian Institute of Technology, Thailand.

May 2011 – July 2014: Kerala University of Fisheries and Ocean Studies, India  
Assistant Professor (Senior Scale), Dept. of Aquaculture and Biotechnology.

October 2009 – May 2011: *Krishi Vigyan Kendra (KVK)*, Kerala Agricultural University, India  
Assistant Professor, Aquaculture (Senior Scale).

Oct 2005 – Oct 2009: *Krishi Vigyan Kendra (KVK)*, Kerala Agricultural University, India  
Assistant Professor (Aquaculture).

2001 – 2005: Founder Director, *Scampi City Hatcheries (P) Ltd.*, Andhra Pradesh, Nellore, India.

1996 – 2005: Founder and CEO, *Natures Way Hydrofauna*, Alappuzha, Kerala, India.

### PROFESSIONAL POSITIONS:

2021 to date: **Honorary Director**, Network for the Development of Agricultural Cooperatives in Asia and the Pacific (NEDAC), Bangkok, Thailand.

2019 to date: **Director**, World Aquaculture Society, Asia-Pacific Chapter (WAS-APC).

2019 to date: **Member of the Editorial Board**, *Indonesian Aquaculture Journal*, MMAF, Indonesia.

2018 to date: **Visiting Professor**, Shanghai Ocean University, China.

2017 to date: **Program Chair**, Aquaculture and Aquatic Resources Management (AARM), AIT.

2015 to date: **Visiting Faculty**, Juárez Autonomous University of Tabasco (UJAT), Mexico.

2018 to date: **Associate Editor**, *Aquaculture and Fisheries* (Elsevier).

2014 to date: **Associate Editor**, *Fisheries and Aquatic Sciences* (Korean Society of Fisheries and Aquatic Sciences)

#### **Consulting Services/ Industry engagement:**

1. **October 2020 – December 2023: Consultant/Principal Investigator**  
**AIT-Grobest Research Partnership for the global shrimp research;** Collaborative research project sponsored by Grobest Holdings, Hong Kong.
2. **June 2020 – June 2021: Consultant**  
**Country reviews on aquaculture innovations in Asia,** Project sponsored by FAO.
3. **November 2019 – October 2021: Principal Investigator**  
**International Consultant for Capacity Development and Curriculum Development for Fisheries and Aquaculture Faculty of Yangon University, Myanmar,** Project funded by GIZ, Germany.
4. **December 2019 – April 2020: International Consultant**  
**Capacity Development Plan for Cambodian aquaculture (2020-'23),** *CapFish-Aquaculture* Program of the European Union, AESA/Ministry of Agriculture, Forestry and Fisheries, Cambodia.
5. **December 2016 – December 2019: Consultant**  
**Consultant to Msingi Aquaculture East Africa,** Gatsby Foundation, UK (funded by DFID, UK) – Enhancing the technical capacity of aquaculture business and academic institutions in East Africa (countries covered: Kenya, Tanzania, Uganda, and Rwanda).
6. **April 2010, to date: Hon. Advisor**  
**Hon. Advisor to Ananda Group,** India  
Ananda Group of Companies, based in Bhimavaram, Andhra Pradesh is one of the largest integrated aquaculture company in India ([www.anandagroup.com](http://www.anandagroup.com)).
7. **May 2014, to date**  
**Hon. Technical Consultant to the WTBT Indo-German Organic Shrimp Project -** The West Bengal Traditional Black Tiger (WTBT) Organic Shrimp Project, supported by *Hofer KG* (Austria) and *Blue Sensus*, Germany.
8. **2016, to present: Hon. Technical Consultan**  
**Hon. Consultant to TAR BIOFLOCTECH,** Kingfishgroup Co. Ltd., Chiangmai, Thailand, a tilapia biofloc aquaculture company in Thailand.
9. **December 1998 – October 2005**  
**Technical Consultant to *Maharaja Aquatics*,** Nellore, Andhra Pradesh, and their Group Companies in India; involved in the production, marketing, and research on commercial hatchery production of prawn and shrimp.
10. **2003**  
**Technical Consultant to Kerala Agricultural University,** India on a project for setting up of a commercial freshwater prawn hatchery for the Govt. of Karnataka, at Kumta, Karnataka, India.

**PROFESSIONAL HONOURS/AWARDS:**

- 2021 **Honorary Director**, Network for the Development of Agricultural Cooperatives in Asia and the Pacific (NEDAC), an Intergovernmental Agency established by FAO, Bangkok, Thailand.
- 2020 **Life Fellow** of the Society of Fisheries Technologists India (SOFTI), India
- 2020 **Elected as a Member of the EXCOM, and Chair of the Committee on Fisheries Cooperatives** of NEDAC (Network for the Development of Agricultural Cooperatives in Asia and the Pacific), Bangkok, Thailand.
- 2019 **Elected as the Director**, World Aquaculture Society, Asia-Pacific Chapter (WAS-APC).
- 2019 **Merit Award** from the Asian Fisheries Society, 12<sup>th</sup> AFAF, Iloilo, Philippines.
- 2018 **Member of the Affiliation Committee** of World Aquaculture Society, USA.
- 2018 **Appreciation Certificate**, GAF7, 7<sup>th</sup> Global Symposium on Gender in Aquaculture and Fisheries, October 2018, Bangkok, Thailand.
- 2016 **Appreciation Certificate**, GAF6, 6<sup>th</sup> Global Symposium on Gender in Aquaculture and Fisheries, August 2016, Bangkok, Thailand.
- 2016 **Appreciation Certificate**, Asian Fisheries Society, Kuala Lumpur, Malaysia; 11<sup>th</sup> Asian Fisheries and Aquaculture Forum, August 2016, Bangkok, Thailand.
- 2012 **CREST Award**, Dept. of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India.
- 2011 **Dedicated Organizer**, Aquaculture without Frontiers (AwF), UK.
- 2009 **Australian Endeavour Awards**, Govt. of Australia, Dept. of Education, Employment and Workplace Relations (DEEWR), Australia.
- 2003 **Best Young Scientist Award**, for contributions in prawn research, Kochi, India.
- 1994-  
96 **M.F.Sc (Master of Fisheries Science) – I Rank**, College of Fisheries, Kerala Agricultural University, Kochi, India.
- 1994 **Junior Research Fellowship**, Indian Council for Agricultural Research (ICAR), New Delhi.
- 1992 **Jawaharlal Nehru Fund Award** for top-ranking Agriculture Students, New Delhi, India.
- 1992 **Best Outgoing Student Award**, Fisheries Faculty Club, Kerala Agricultural University, Kochi, Kerala, India.
- 1989- **B.F.Sc (Bachelor of Fisheries Science) – I Rank**, College of Fisheries, Kerala Agricultural University, Kochi, India.

**PROFESSIONAL EXPERIENCE AND INVITATIONS:**

- 2021 **Invited Speaker, Webinar on Pushing the frontier of aquaculture development with innovation, *Adaptability versus flexibility: New paradigms of aquaculture innovations in Asia***, 25 March 2021. FAO.
- 2021 **Invited Speaker, Webinar on Sustainable Blue economy, *Understanding and integrating SDG14 goals in the blue economy framework: Challenges, progress and next steps for Asia-Pacific***, 2 February 2021. AIT/TERI/CAS.
- 2021 **Organizer, Entrepreneurship Development in Seaweed Business for Cooperatives**, 28 January 2021. NEDAC.
- 2021 **Invited Speaker, Webinar on Sustainable Aquaculture Systems** Coorganised with Anhui Academy of Agricultural Sciences, China, 13 January 2021.
- 2021 **Plenary Speaker, SMART P3BLUECO-2021, Shastri Indo-Canadian Institute-Golden Jubilee Conference, *New paradigms for sustainable aquaculture — the age of innovations***, 12 March 2021. Kerala University, Kerala, India.
- 2020 **Invited Speaker, Smart Aquaculture and Productivity Webinar, *Smart Aquaculture Technologies – Enhancing Productivity and Quality***, 30 November 2020, World Institute of Productivity, Jakarta, Indonesia
- 2020 **Conference Co-Chair, ICFA 2020**, International Virtual Conference on Fisheries and Aquaculture, from 26 – 27 November 2020, TIIKM, Colombo, Sri Lanka

- 2020 **Course Director, *i-FLOCs 2020***, Virtual Aquaculture Workshop, 23 - 25 November 2020, AIT, Bangkok, Thailand
- 2020 **Invited Speaker, *Vaibhav Summit Webinar, Atmanirbhar Aquaculture: Self-sufficiency by Embracing Innovative Technologies***, 16 October 2020, Govt. of India, New Delhi, India
- 2020 **Invited Speaker, *ASEAN-FEN Webinar, New-age Innovations in Aquaculture***, 10 October 2020, Kuala Lumpur, Malaysia
- 2020 **Moderator of the *WAS-APC Webinar*** on Aquaculture Health and Disease Management, held on 30 September 2020
- 2020 **Keynote Speaker, *Junagadh Agricultural University Webinar, Integrated Multitrophic Aquaculture – A Sustainable Production Model***, 22 September 2020, Veraval, India
- 2020 **Keynote Speaker, *Satyabhama Institute of Science and Technology Webinar, Biofloc Technology in Aquaculture – Benefits and Management of Diseases***, 15 Sep 2020, Chennai, India
- 2020 **Keynote Speaker, *NEDAC (UN-FAO) Webinar, Aquaculture Value Chains***, 17 July 2020, Bangkok, Thailand
- 2020 Training to officials of Dept. of Fisheries, Kerala, India on Biofloc technology. 2 and 7 July 2020.
- 2020 **Keynote Speaker, *World Education Forum/BEST University Webinar, Technology Adoption in Education during Covid times – A Global Perspective***, 27 June 2020, Hyderabad, India
- 2020 **Member, *Research Ethics Review Committee***, AIT
- 2020 **Invited Speaker, *Junagadh Agricultural University Webinar, Career Paths in Fisheries and Aquaculture – Embracing Innovation and Technology***, 26 June 2020, Veraval, India
- 2020 **Invited Speaker, *Kerala University of Fisheries and Ocean Studies Webinar for students – Application of Biofloc Technology in Aquaculture***, 24 June 2020
- 2020 **Moderator of the *WAS-APC Webinar*** on Arising Aquaculture Opportunities amidst Covid19, held on 19 June 2020
- 2020 **Member of the *Program Committee, GAF8 2021***, for the 8<sup>th</sup> Global Conference on Gender in Aquaculture & Fisheries, 6-9 April 2021, Kochi, India
- 2020 **Keynote Speaker and Mentor, *PSS2020***, Professional Students Summit, 15 February 2020, Kochi, India.
- 2020 **Keynote Speaker, *MECOS-3***, International Symposium 7 – 10 January 2020, Kochi, India.
- 2020 Training to officials from the Ministry of Fisheries, Oman on Biofloc technology. CIFT, Kochi, India. 10 January 2020.
- 2019 **Editorial Consultant, *Journal Fishery Technology***, SOFTI, India.
- 2019 **Conference Co-Chair, *Giant Prawn 2019***, International Conference to be held from 15 – 18 November 2019, Shanghai, China.
- 2019 **Keynote Speaker, *Aqua-Aquaria 2019***, 30 – 31 August, Hyderabad, India.
- 2019 **Keynote Speaker, *ICFA 2019***, 22-23 August, Bangkok, Thailand
- 2019 **Keynote Speaker, *BRACQON 2019***, Global Brackishwater Conference, Chennai, India.
- 2018 **Conference Chair, *Asian Aquaculture 2018***, International Conference held from 3 – 6 December 2018, Bangkok, Thailand.
- 2018 **Course Director of the international training program on *Integrated Multi-trophic Aquaculture***, held from 1 – 2 December 2018, AIT Thailand.
- 2018 **Course Director of the international training program on *Management of Parasitic Diseases Aquaculture***, held from 26 – 30 November 2018, AIT Thailand.
- 2018 **Invited Speaker, *International Symposium on Aquaculture and Fisheries Education (ISAFE-3)***, Asian Fisheries Society, Mumbai, India.
- 2018 **ERASMUS+ Sustainable Seafood and Nutrition Security (SSNS)** project co-funded by the European Commission.
- 2017 **Invited Speaker, *11 Asian Fisheries Forum***, Asian Fisheries Society, Kochi, India.
- 2017 **Invited Speaker, *Institute of Hydrobiology (CAS), Wuhan, China on Sustainable aquaculture technology in Thailand – a green future for blue revolution***, 20 February 2017.

- 2017 **Course Director of the international training programs on *Sustainable Asian Aquaculture series 1: Biofloc, Aquamimicry, and Biological Farming***, held from 21 – 25 August 2017, AIT Thailand.
- 2017 **General Convener and Co-Organizer of GIANT PRAWN 2017**, International Conference on Giant Freshwater Prawns held from 20 – 24 March 2017, AIT Thailand.
- 2017 **Keynote Speaker**, International Aquamimicry Sustainable Shrimp Farming Workshop – 2, 8 – 11 January 2017, Hua Hin, Bangkok, Thailand.
- 2016 Keynote Speaker, 8th ASEAN Sustainable Aquaculture Workshop organized by National Taiwan Ocean University (NTOU) from 27 November to 5 December 2016.
- 2016 **Member of the Scientific Committee**, 3rd International Conference on Fisheries and Aquaculture (ICFA 2016), 24 to 25 August, Negombo, Sri Lanka. IITKM, Sri Lanka.
- 2016 **Keynote Speaker**, International Conference on Aquatic Exotics, 28 – 30 March 2016, University of Kerala, Thiruvananthapuram, India.
- 2015 **Keynote speaker**, *AQUADACA 2015 – Simposio Internacional de Acuicultura*, 30 Nov – 2 Dec 2015, UJAT, Tabasco, Mexico.
- 2015 **Co-PI, ERASMUS+ GeoServices-4-Sustainability (GeoS4S)** project co-funded by the European Commission.
- 2015 **Invited Speaker**, *Seventh Aqua Feed Forum*, 22-24 October, Can Tho University, Vietnam.
- 2015 **Course Director of the international *Smart Shrimp Farming Workshop***, 20 – 22 January 2016, jointly with World Aquaculture Society, AIT Thailand.
- 2015 **Course Director of the international training program on *Recirculating Aquaculture Systems: Design, operation, and management***, 15 – 19 January 2016, AIT Thailand.
- 2015 **Course Director of two international training programs on *Innovative Biofloc Technologies for Disease Prevention and Control in Shrimp Farming***, held from 6 – 10 July and 12 – 16 October 2015, AIT Thailand.
- 2015 **Invited Speaker**, Zhejiang Institute of Freshwater Research, Zhejiang, China
- 2015 **How to hack Aquaculture: Special feature, Sci Dev.net.**  
<http://www.scidev.net/global/technology/multimedia/hack-aquaculture-tilapia-WSN.html>
- 2015 **Invited Speaker**, *Profit on Aquaculture 2015*, 13/4/2015, Ananda Group, India.
- 2015 **Invited to the *Global Conference on Inland Fisheries***, 26-28 January, FAO of the UN and Michigan State University, Rome, Italy.
- 2014 **Invited Speaker**, *Sustainable Aquaculture Workshop*, 3-11 November National Taiwan Ocean University, Taipei, Taiwan.
- 2014 **A date with Prawns: Interview, SBS Radio, Australia**, March 2014.
- 2013 **Visiting Fellow**, Earth, Environment & Biological Sciences (EEBS), Queensland University of Technology (QUT), Brisbane, Australia (*Identification of critical gene loci and novel mutations that affect economically important traits including individual growth rate in cultured Giant freshwater prawn stocks*).
- 2011 **Member of the National Committee for drafting Traceability Standards (ISO/TC-234)** for shellfish including Crustaceans and Molluscs, Ministry of Commerce, Govt. of India.
- 2011 **Member of the Curriculum Committee** for Aquaculture and Ornamental Fish Culture for the **National Institute of Open Schooling**, New Delhi.
- 2011 **Appreciation Certificate** from **World Aquaculture Society**, USA for the successful organization of APA 2011.
- 2011 **Dedicated Organizer**, Appreciation Certificate from **Aquaculture without Frontiers (AwF)**, UK.
- 2011 **Programme Committee**, Asian Pacific Aquaculture 2011 (APA 2011) World Aquaculture Society, Kochi, India.
- 2011 **Session Chair, Freshwater Prawns, Brazilian – *Macrobrachium***, World Aquaculture 2011, Natal, Brazil.
- 2011 **Session Chair, Freshwater Prawns**, Asian Pacific Aquaculture (APA 2011), World Aquaculture Society, Kochi, India

- 2011 **Invited paper** – Giant Prawn 2011, Kochi, India
- 2010 **Invited contributing author to 2<sup>nd</sup> Edition:** New, M.B., Valenti, W.C., Tidwell, J.H., D’Abramo, L.R., and Kutty, M.N. (Eds.) ‘Freshwater Prawn Culture: The Farming of *Macrobrachium rosenbergii*’, Blackwell Science, UK.
- 2010 **Hon. Advisor**, Ananda Group of Companies, Bhimavaram, Andhra Pradesh, the largest integrated aquaculture company in India (since April 2010).
- 2010 **Postdoctoral Research Fellow**, Molecular Genetics Laboratory, QUT, Brisbane, Australia (*Outlining patterns of genetic diversity within and among the stocks of Giant freshwater prawn in India and Sri Lanka*).
- 2008-  
’11 **Member of the Expert Committee** – Two Task Forces on Inland Fisheries & Aquaculture, and Drafting Leasing Policy, Govt. of Kerala, India.

#### PROFESSIONAL AFFILIATIONS:

- Member of World Aquaculture Society, USA, and the WAS Asia-Pacific Chapter.
- Member of Asian Fisheries Society, Manila, Philippines.
- Life Fellow of Society of Fisheries Technologists (SOFTI), India.

#### ONGOING PROJECTS:

1. ***AIT-Grobest Research Partnership for the global shrimp research*** (2020 – 2023) - US\$ 120,000, sponsored by Grobest Holdings, Hong Kong.
2. ***Capacity Development for Agricultural Cooperatives in the Asian-Pacific region:*** (2021 – 2022) - US\$ 45,000, sponsored by NEDAC Bangkok.
3. ***Documenting aquaculture innovations in selected Asian countries*** (2020 – 2021) - US\$ 28,000, funded by FAO.
4. ***Support to aquaculture curriculum development, capacity development, national and international networking plus system improvements at Yangon University, Myanmar*** (2019 – 2021) - US\$ 116,402, funded by GIZ, Germany.
5. ***ERASMUS+, Sustainable Seafood for Nutrition Security (SSNS)***; co-funded by the European Commission (2017-2020): ~1 million Euro.

#### COMPLETED PROJECTS:

1. ***Capacity development for Fisheries and Aquaculture institutions in East Africa*** (2018 - 2019), Co-funded by DFID, UK through Msingi East Africa Ltd - US\$ 49,875.
2. ***Aquaculture Internship for China*** (2019); Shanghai Ocean University, China - US\$ 49,500.
3. ***Capacity Development for Indian Aquaculture*** (2019); National Fisheries Development Board (NFDB), India - US\$ 27,000.
4. ***Sustainable Asian Aquaculture*** (2018 – 2019) – US\$ ~84760.
5. ***Gender in Aquaculture and Fisheries*** (2018 – 2019) – US\$ 45,395
6. ***Integrated Coastal Management (ICM)*** (2018 – 2019), funded by IUCN, Mangroves for Future - US\$ ~62,000
7. ***Integrated Multitrophic Aquaculture (IMTA)*** (2018 – 2019) – US\$ ~19,000.
8. ***ERASMUS+, GeoServices-4-Sustainability (GeoS4S)***; co-funded by the European Commission (2015-2018): 74,976 Euro.
9. ***Sustainable Aquaculture Technology Development for East Africa*** (2017) - US\$ ~18,000, funded by DFID, the UK, through Msingi East Africa Ltd.

10. ***Evaluation of growth performance and immunity of white shrimp against common pathogens***, sponsored by Kemin Industries South Asia (P) Ltd (2017 – 2018): US\$ 38,553 (THB 1,282,500).
11. ***Waking up a sleeping giant - an assessment of the technical capacity of aquaculture business in East Africa***, sponsored by Gatsby Foundation, UK (2016 – 2017): US\$ 39,079 (THB 1,300,000).
12. ***Innovative Aquaculture Technologies for the conservation of water and safe discharge of effluents*** – D.S.T, Govt. of India (2014-2017): US\$ ~192,188.
13. ***Smart aquaculture systems for Thailand - partnering with VerifiK8*** (2016 – 2017), sponsored by FairAgora Asia, Thailand: US\$ 5411 (THB 180,000).
14. ***GIANT PRAWN 2017*** (2016 – 2017), AIT, Thailand: US\$ 60,517 (THB 2,013,179).
15. ***Shrimp Biofloc Farming Technology*** (2015-2016), AIT Thailand: US\$ 113,026.
16. ***Recirculating Aquaculture Systems (RAS) and Aquaponics*** (2015-2017), AIT Thailand: US\$ 41,687.
17. ***AARM Lab testing services for the aquaculture industry***, sponsored by Kemin Industries South Asia (P) Ltd: US\$ 5577 (THB 195,186).
18. ***Studying patterns of genetic diversity in farmed red tilapia strains*** - UAR Foundation, Andhra Pradesh, India (2015-2016): US\$ 5000.
19. ***Capacity building for Indian Aquaculture*** - UAR Foundation, Andhra Pradesh, India: US\$ 6,650.
20. ***Evaluation of the genetic quality of tilapia stocks farmed in AIT*** - AIT Research Initiation Grant: 50,000 Baht.
21. ***Identification of critical gene loci and novel mutations that affect economically important traits including individual growth rate in cultured Giant freshwater prawn stocks***; 2012-13, Dept. of Biotechnology, Govt. of India.
22. ***Outlining levels and patterns of genetic diversity in the stocks of giant freshwater prawn stocks in India and Sri Lanka***; 2009-10; Govt. of Australia.
23. ***Comprehensive Development of Fisheries and Aquaculture in Puthenvelikkara Grama Panchayath, Kerala, India*** (*Puthenvelikkara Samagra Matsya Gramam Project*) – RKVY, Govt. of India.
24. ***Biodiversity of cultivable air-breathing fishes in Kerala and development of appropriate culture strategies for Heteropneustes and Clarias spp***; 2007-10; Govt. of Kerala, India.
25. ***Assessment of resident time of antibiotics in farmed aquatic animals by evaluating the metabolites in vital organs***; 2007-10; ICAR, Govt. of India.
26. ***Characterization of different stocks of Macrobrachium rosenbergii and development of genetically improved strain through selective breeding***; 2007-10; Govt. of Kerala, India.
27. ***Environmental and socioeconomic impacts of aquaculture in Pokkali fields of Kerala***; 2006-08; ADAK, Govt. of Kerala, India.
28. ***The impact of one crop paddy – one crop prawn rotational farming on environment and socio-economics in Kuttanad***; 2006-08; ADAK, Govt. of Kerala, India.

## PUBLICATIONS

### Books

1. **Advances in Giant Prawn Aquaculture and Fisheries: Hatchery Technology** (2021). **K.R. Salin** (Editor). Springer (*in press*).
2. **Asian Aquaculture (2018)**. K.R. Salin (Editor), Book of Abstracts, Asian Aquaculture 2018, December 2018. Asian Institute of Technology, Bangkok, Thailand. ISBN 978-616-8230-00-8.
3. **Giant Prawns – Emerging possibilities for sustainability** (2017). **K.R. Salin** (Editor) Book of Abstracts, GIANT PRAWN 2017, March 2017, Asian Institute of Technology, Bangkok, Thailand. ISBN 978-974-8257-94-5.
4. **Profit on Aquaculture, Technical Guide: Best Management Practices for Sustainable Increase in Production and Profits from Aquaculture** (2015). **Salin K.R** (Editor). Asian Institute of Technology, Thailand. ISBN: 978-974-8257-86-0.
5. **Macrobrachium: The culture of Freshwater Prawns** (2008) New, M.B., C.M. Nair, M.N. Kutty, **K.R. Salin** & M.C. Nandeesha. Macmillan India Ltd.
6. **Freshwater Prawns: Advances in Biology, Aquaculture & Marketing** (2007). C. Mohanakumaran Nair, Nambudiri D.D., Jose S., Sankaran T.M., Jayachandran K.V. & **Salin K.R.** (Eds.). Allied Publishers, India.
7. **Compendium of Fisheries and Aquaculture Development in the Asia Pacific Region** (2011). Jose T.M., Nair J.R., **Salin K.R.**, Sherief T.M., Raman N.N., Krishnakumar S. & M. Jayapradeep (Eds.). College of Fisheries, Kochi, India.
8. **Manual of Freshwater Prawn Farming**, Four Volumes (2012, 2010, 2009 and 2008). **Salin K. R.** published as part of the National Training Program on Giant Freshwater Prawn Farming, funded by National Fisheries Development Board (NFDB), Govt. of India, Kerala Agricultural University, Kochi, India.

### Contributed chapters

1. **K.R, Salin** (2019). Biomimicry in aquaculture – Connecting science and practice. In: pp. 121 – 133. Report of the Special Session on Advancing Integrated Agriculture Aquaculture through Agroecology, Montpellier, France, 25 August 2018. FAO Fisheries and Aquaculture Report No. 1286, 2019. Rome.
2. **K.R, Salin**, and G.A. Atagube (2018). Aquaculture and the environment: towards sustainability. In: pp. 1 – 62. Sustainable Aquaculture (ed. by C. Visvanathan, R. Boopathy, and F. Hai). Springer.
3. **K.R, Salin**, V.V. Arun, C.M. Nair, and J.H. Tidwell (2018). Sustainable Aquafeed. In: pp. 123 – 151. Sustainable Aquaculture (ed. by C. Visvanathan, R. Boopathy, and F. Hai). Springer.
4. P. Pongtippatee, **K.R, Salin**, G.A. Atagube and B. Withyachumnarnkul (2018). Sustainable production of shrimp in Thailand. In: pp. 153 – 172. Sustainable Aquaculture (ed. by C. Visvanathan, R. Boopathy and F. Hai). Springer.
5. G.A. Atagube, M.T. Kamble and **K.R, Salin** (2017). Food Industry by-products as protein replacement in Aquaculture diets of Tilapia and Catfish In: Food Processing By-Products and their Utilization (ed. by A.K.Anal). Wiley-Blackwell. ISBN: 978-1-118-43288-4.
6. Wagner C. Valenti, Michael B. New, **K.R Salin** and Jinyun Ye (2010). *Grow-out Systems – Monoculture*, pp. 154 – 179. In: Freshwater Prawns – Biology and Farming (ed. by New, M.B., Valenti, W.C., Tidwell, J.H., D’Abramo, L.R., and Kutty, M.N). Wiley-Blackwell, UK.
7. C. Mohanakumaran Nair, **Salin K.R.**, Devika Pillai, Sarath S. & Manoj C.K. (2010). Simultaneous rice-fish culture system in modified *Pokkali* rice fields – a possible alternative to improve sustainability. pp. 59 – 66. In: Coastal Fishery Resources of India- Conservation and Sustainable utilization (ed. by Meenakumari, B., Boopendranath, M.R., Edwin, L., Sankar, T.V., Gopal, N & Ninan, G). SOFTI, Kochi, India.



8. **Salin K.R.**, Nair C.M & Sebastian C.D (2009). Sustainable rice-prawn farming system in Kole lands of Kerala, India. pp. 27-33. In: Giant Malaysian Prawn: Transforming the Industry through Technological Innovations. (ed. by Siti Shapor Siraj, Annie Christianus & Siti Khalijah Daud). Malaysian Fisheries Society, Kuala Lumpur, Malaysia.
9. Nair C.M & **Salin K.R.** (2009). Freshwater prawn farming in India: facing new challenges. pp. 11-27. In: Giant Malaysian Prawn: Transforming the Industry through Technological Innovations (ed. by Siti Shapor Siraj, Annie Christianus & Siti Khalijah Daud). Malaysian Fisheries Society, Kuala Lumpur, Malaysia.
10. **Salin, K.R.**, Yohannan, T.M. and Nair, C.M (2004). The fishery, trade and conservation of seahorses along the Indian coast. pp. 513-526. In: New Frontiers in Marine Bioscience Research (Ed. by S.A.H. Abidi, M. Ravindran, R. Venkatesan & M. Vijayakumaran). January 22-23, 2004, Chennai, India.

### Journal Publications

1. Lan,NGT., **Salin, K.R.**, Longyant,S., Senapin, S. and Dong,H.T. (2021) Systemic and mucosal antibody response of freshwater cultured Asian seabass (*Lates calcarifer*) to monovalent and bivalent vaccines against *Streptococcus agalactiae* and *Streptococcus iniae*. *Fish & Shellfish Immunology*, 108, 7-13. <https://doi.org/10.1016/j.fsi.2020.11.014> (Journal Impact Factor: 3.298).
2. Gunawardana, S.K., Shrestha, S., Mohanasundaram, S. **Salin, K.R.**, Piman, T. (2021) Multiple drivers of hydrological alteration in the transboundary Srepok River Basin of the Lower Mekong Region. *Journal of Environmental Management*, 278, 111524. <https://doi.org/10.1016/j.jenvman.2020.111524> (Journal Impact Factor: 5.647).
3. Das D, Ul Basar N, Ullah H, Attia A, **Salin KR**, Datta A. (2021). Growth, yield and water productivity of rice as influenced by seed priming under alternate wetting and drying irrigation. *J Archives of Agronomy and Soil Science* DOI: [10.1080/03650340.2021.1912320](https://doi.org/10.1080/03650340.2021.1912320) (Journal Impact Factor: 2.135)
4. Das D, Ul Basar N, Ullah H, **Salin KR**, Datta A. (2021) Interactive effect of silicon and mycorrhizal inoculation on growth, yield and water productivity of rice under water-deficit stress. *Journal of Plant Nutrition* (Accepted). (Journal Impact Factor: 1.132)
5. Suleiman, B., **Salin, K.R.**, and Kuwornu, K. (2021) Willingness to adopt aquaculture as an alternative livelihood option – a case study of the fishers and livestock farmers of Adamawa State, Nigeria. *International Journal of Value Chain Management* (<https://doi.org/10.1504/ijvcm.2021.112842>).
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### Conference presentations

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2. **Salin, K.R** (2020) Eco-friendly and energy-efficient aquaculture systems in Asia. In: Joshi K.K. et al., pp. 150 – 152, Marine Ecosystems – Challenges and Opportunities, MECOS-3, 8-10 January 2020, MBAI, Kochi, India.
3. **Salin, K.R** (2019) Sustainable aquaculture in an era of diversification: Successful examples from Asia, Aqua Aquaria 2019, 30-31 August, MPEDA, Hyderabad, India.
4. **Salin, K.R** (2019) Eco-friendly and energy-efficient coastal aquaculture development in Asia. Book of Abstracts, ICFA 2019, 22-23 August, Bangkok, Thailand.
5. **Salin, K.R** (2019) Evaluation of growth and digestibility of Asian seabass, *Lates calcarifer* fed with diets containing insect meal from two-spotted cricket, *Gryllus bimaculatus*. Book of Abstracts, ICFA 2019, 22-23 August, Bangkok, Thailand.
6. **Salin, K.R** (2019) Brackishwater Aquaculture in Thailand - Holding Promise for a Sustainable Future. BRACQON 2019, World Brackishwater Aquaculture Conference, 23-25 January 2019, CIBA, Chennai, India.
7. **Salin, K.R.**, G.A. Ataguba, Y-le Guil, and E. Bourgois (2016). Sailing through the sea of certification schemes for Asian shrimp farming – How far at sea are we? Sustainable Aquaculture Workshop, 27 November to 5 December. National Taiwan Ocean University, Taipei, Taiwan.
8. **Salin, K.R.** (2016). Exotic species changing the economies: the case of *Litopenaeus (Penaeus) vannamei* and Nile tilapia in Thailand. Keynote presentation at the International Conference on Aquatic Exotics: Trends, Challenges and Policies, 28-30 March 2016, Department of Aquatic Biology and Fisheries, Kerala University, Thiruvananthapuram, Kerala, India.
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11. **Salin K.R.** (2015) Regaining the lost ground: How Thailand strives to fight back disease challenges by adopting alternative shrimp farming strategies. Presented at *AQUADACA 2015 – Simposio Internacional de Acuicultura*, 30 Nov – 2 Dec 2015, UJAT, Tabasco, Mexico.

12. **Salin K.R.** (2015) Ecosystem based feeding – emerging approaches from the ailing shrimp farms of Thailand aimed at sustainability. Presented at *Seventh Aqua Feed Forum*, 22-24 October, Can Tho University, Vietnam.
13. **Salin K.R.** (2014) Genetic stock improvement: A tool for sustainable intensification of Aquaculture, Presented at *Sustainable Aquaculture Workshop*, 3-11 November, National Taiwan Ocean University, Taipei, Taiwan.
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  40. Raju M.S., **Salin K.R.**, Shibu S. & Sankaran T.M. (2003) Cost-return analysis of scampi (*Macrobrachium rosenbergii*) farms in Andhra Pradesh, India. *Freshwater Prawns 2003*, International Symposium on Freshwater Prawns, 20-23 August 2003, Kochi, India.

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### Technical Reports

1. Capacity Development Plan for Cambodian Aquaculture (2020 – 2023): submitted to Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector: Aquaculture component (CaPFish-Aquaculture); (January 2020).
2. Curriculum for the Promotion of Commercial Aquaculture in East Africa; submitted to Msingi East Africa (March 2019).
3. Report on shrimp trials testing KEM prototypes against AHPND, submitted to Kemin Industries South Asia (July 2018).
4. Report on *Technical Capacity Assessment of Aquaculture Industry in East Africa*, submitted to DFID, UK (February 2017).
5. Draft Leasing Policy for Kerala (2011) - Submitted to the Govt. of Kerala, India.
6. Report of the Task Force on Inland Fisheries and Aquaculture, Kerala - Submitted to the Government of Kerala, India.

### Training Manuals

- Four Manuals of Freshwater Prawn Farming (2012, 2010, 2009 & 2008)

### INVITED REVIEWER

- *Aquaculture*, Elsevier
- *Aquaculture Research*, Wiley Blackwell
- *Reviews in Aquaculture*, Wiley Blackwell
- *Aquaculture Reports*, Elsevier
- *Aquaculture International*, Springer
- *Aquaculture Environment Interactions* – Inter-Research
- *Caryologia* – International Journal of Cytology, Cytosystematics and Cytogenetics – University of Florence, Italy.
- *Mitochondrial DNA* – Informa Healthcare, Taylor & Francis.
- *Reviews in Fisheries Science and Aquaculture* – Taylor & Francis.
- *Journal of World Aquaculture Society*, Wiley-Blackwell.
- *Gene Reports* - Elsevier
- *Journal of Applied Aquaculture* - Taylor & Francis.
- *Aquatic Conservation: Marine and Freshwater Ecosystems* -Wiley Blackwell.
- *Fishery Technology* - ICAR, India.

### ORGANIZATION OF INTERNATIONAL CONFERENCES ORGANIZED AS CHAIR/CO-CHAIR

	Conference	Duration	Venue	Attendance
1	<b>GIANT PRAWN 2019</b> ( <a href="http://www.giantprawn.org">www.giantprawn.org</a> ) - Co-Chair	15 – 18 November 2019	Shanghai, China	120 participants from 28 countries
2	<b>Asian Aquaculture 2018</b> ( <a href="http://www.asianaquaculture.org">www.asianaquaculture.org</a> ) - Chair	3 – 6 December 2018	AIT, Thailand	210 participants from 25 countries
3	<b>Gender in Fisheries and Aquaculture (GAF7) 2018</b> ( <a href="http://www.gafconference.org">www.gafconference.org</a> ) – Co-Chair	18 – 21 October 2018	AIT, Thailand	175 participants from 32 countries

4	<b>GIANT PRAWN 2017</b> ( <a href="http://www.giantprawn.org">www.giantprawn.org</a> ) - Chair	20 – 24 March 2017	AIT, Thailand	176 participants from 34 countries
5	<b>Profit on Aquaculture 2017</b> ( <a href="http://www.profitonaquaculture.in/">http://www.profitonaquaculture.in/</a> ) - Chair	11 – 14 February 2017	Bhimavaram, Andhra Pradesh, India	~500 participants mostly from India

#### INTERNATIONAL WORKSHOPS/SEMINARS ORGANIZED

	Technical Workshop/Seminar	Duration	Venue	Attendance	
1	<b><i>Pushing the frontier of aquaculture development with innovation</i></b> ( <a href="http://www.fao.org/asiapacific/events/detail-events/en/c/1720/">http://www.fao.org/asiapacific/events/detail-events/en/c/1720/</a> ) (Co-organised with FAO RAP, Bangkok)	Virtual	25 March 2021	Zoom webinar	>200 international participants
2	<b><i>International webinar on Entrepreneurship Development in Seaweed Business for Cooperatives</i></b> ( <a href="https://www.nedac.info/downloads/210122%20Seaweed%20Schedule.pdf">https://www.nedac.info/downloads/210122%20Seaweed%20Schedule.pdf</a> )	Virtual	28 January 2021	Zoom webinar	>500 participants
3	<b><i>WAS-APC Health &amp; Disease Management Webinar</i></b> ( <a href="https://www.was-apc.org/?p=2818">https://www.was-apc.org/?p=2818</a> ) (Webinar Moderator)	Virtual	30 September 2020	Zoom webinar	>200 participants
4	<b><i>WAS-APC webinar, Arising Aquaculture Opportunities Amidst COVID19</i></b> ( <a href="https://www.was-apc.org/?p=2714">https://www.was-apc.org/?p=2714</a> ) (Coorganised with WAS-APC as a panelist)	Virtual	19 June 2020	Zoom webinar	~150 participants
5	<b><i>i-FLOCS 2020</i></b> , Virtual Aquaculture Workshop: Innovative Biofloc Technologies for Sustainable Production of Tilapia and Shrimp ( <a href="https://www.aitaquaculture.org/ait-ifloc-aquaculture-workshop.htm">https://www.aitaquaculture.org/ait-ifloc-aquaculture-workshop.htm</a> )	Online by Zoom platform	23 to 25 Nov 2020	AIT, Thailand (Webinar)	40 participants from 10 countries
6	<b><i>Aquaculture in the Desert: Examples from the GCC Countries</i></b> ( <a href="https://www.aitaquaculture.org/pdf/Aquaculture-in-the-desert.pdf">https://www.aitaquaculture.org/pdf/Aquaculture-in-the-desert.pdf</a> )	Online by Zoom	22 October 2020	AIT, Thailand (Webinar)	80 participants
7	<b>International Aquamimicry Sustainable Shrimp Farming Workshop – 2</b> ( <a href="http://www.venturefarmsg.com/425829865/4418159/posting/east-meet-west-at-international-aquamimicry-aquatainment">http://www.venturefarmsg.com/425829865/4418159/posting/east-meet-west-at-international-aquamimicry-aquatainment</a> )	Co-organizer (Keynote Speaker)	8 – 11 Jan 2017	Hua Hin, Thailand	75 international participants
8	<b>International Aquamimicry Sustainable Shrimp Farming Workshop – 1</b> ( <a href="http://www.ait.ac.th/news-and-events/2016/news/ait-to-assume-a-lead-role-in-aquamimicry-sustainable-shrimp-farming-venture/#.WWnvQIiGM2w">http://www.ait.ac.th/news-and-events/2016/news/ait-to-assume-a-lead-role-in-aquamimicry-sustainable-shrimp-farming-venture/#.WWnvQIiGM2w</a> )	Co-organizer	7 – 11 Aug 2016	Hua Hin, Thailand	110 participants from 26 countries
9	<b>Special session on Biofloc Technology at 11<sup>th</sup> Asian Fisheries and Aquaculture Forum, Asian Fisheries Society</b> ( <a href="https://enaca.org/publications/workshops-and-proceedings/11afaf/11afaf-programme.pdf">https://enaca.org/publications/workshops-and-proceedings/11afaf/11afaf-programme.pdf</a> ).	Convener	5 August 2016	BITEC, Bangkok	~50 Conference delegates



5	<b>Smart Shrimp Farming Workshop for the Asia Pacific Region -Living with EMS and EHP: Challenging the Disease through Smart Shrimp Farming practices</b> ( <a href="https://www.was.org/view/press-release-smart-shrimp-aquaculture-workshop.aspx">https://www.was.org/view/press-release-smart-shrimp-aquaculture-workshop.aspx</a> )	Convener	20 – 22 January 2016	AIT, Thailand	>150 participants from 36 countries
6	<b>International Workshop on Recirculating Aquaculture Systems and Aquaponics</b> ( <a href="http://www.ait.ac.th/news-and-events/2016/events/workshop-on-recirculating-aquaculture-systems-and-aquaponics/#.WWny1iGM2w">http://www.ait.ac.th/news-and-events/2016/events/workshop-on-recirculating-aquaculture-systems-and-aquaponics/#.WWny1iGM2w</a> )	Course Director	15- 19 January 2016	AIT, Thailand	27 participants from 12 countries
7	<b>Profit on Aquaculture 2015</b> ( <a href="http://www.serd.ait.ac.th/wpserd/report-by-dr-salin-on-technical-seminar-profit-on-aquaculture-2015-organized-by-aarm-ait-in-association-with-uddaraju-anandaraju-foundation-ananda-foundation-in-india-on-13-april-2015/">http://www.serd.ait.ac.th/wpserd/report-by-dr-salin-on-technical-seminar-profit-on-aquaculture-2015-organized-by-aarm-ait-in-association-with-uddaraju-anandaraju-foundation-ananda-foundation-in-india-on-13-april-2015/</a> )	Convener	13 April 2015	Bhimavara m, Andhra Pradesh, India	~1000 participants

#### INTERNATIONAL TRAINING COURSES ORGANIZED

	Training Course		Duration	Venue	Attendance
1	<b>International Training program on Biofloc, Biomimicry, and Biological farming for innovative aquaculture entrepreneurship</b>	Course Director	2 – 7 December 2019	AIT & Hua Hin, Bangkok	20 participants from 14 countries
2	<b>Sustainable Asian Aquaculture Series – Management of Parasitic Diseases in Aquaculture: Integrated Multi-trophic Aquaculture</b>		26 Nov to 2 Dec 2018	AIT, Thailand	35 participants from 8 countries
3	<b>International Training program on Sustainable Shrimp Farming Technologies: Biofloc, Biomimicry and Biological Farming</b>	Course Director	21 – 26 August 2017	AIT & Hua Hin, Bangkok	21 participants from 9 countries
4	<b>Advances in Hatchery Management of Giant Freshwater Prawns</b> ( <a href="https://www.enaca.org/index.php?id=861&amp;title=giant-prawn-2017">https://www.enaca.org/index.php?id=861&amp;title=giant-prawn-2017</a> )	Course Director	17 – 19 Mar 2017	AIT, Thailand	23 participants from 10 countries
5	<b>International Training program on Sustainable Shrimp Farming Technologies: Biofloc, Biomimicry and Biological Farming</b> ( <a href="http://www.serd.ait.ac.th/wpserd/international-aquaculture-training-series-5-innovative-shrimp-production-technologies-biofloc-biomimicry-biological-farming-on-23rd-28th-may-2016/">http://www.serd.ait.ac.th/wpserd/international-aquaculture-training-series-5-innovative-shrimp-production-technologies-biofloc-biomimicry-biological-farming-on-23rd-28th-may-2016/</a> )	Course Director	23 – 28 May 2016	AIT, Thailand	32 participants from 12 countries
6	<b>Innovative Biofloc Technologies for Disease Prevention and Shrimp Farming</b> ( <a href="http://www.ait.ac.th/news-and-events/2015/news/27-participants-from-15-countries-join-biofloc-technology-training#.WWnqXoiGM2w">http://www.ait.ac.th/news-and-events/2015/news/27-participants-from-15-countries-join-biofloc-technology-training#.WWnqXoiGM2w</a> )	Course Director	12 – 16 Oct 2015	AIT, Thailand	27 participants from 15 countries

<b>Innovative Biofloc Technologies for Disease Prevention and Shrimp Farming</b> ( <a href="http://www.ait.ac.th/news-and-events/2015/news/ait-hosts-international-workshop-on-2018innovative-biofloc-technologies-for-disease-prevention-and-shrimp-farming2019-organized-by-aarm#.WWnrPoiGM2w">http://www.ait.ac.th/news-and-events/2015/news/ait-hosts-international-workshop-on-2018innovative-biofloc-technologies-for-disease-prevention-and-shrimp-farming2019-organized-by-aarm#.WWnrPoiGM2w</a> )				Course Director	6 – 10 July 2015	AIT, Thailand	30 participants from 14 countries
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#### STUDENT INTERNSHIPS / STAFF EXCHANGE PROGRAMS ORGANIZED

	<b>Internships for students/staff</b>	<b>Duration</b>	<b>Venue</b>	<b>Attendance</b>
1	<b>Virtual Aquaculture Internship - Sustainable Asian Aquaculture Systems and Practices</b> (3 months, online)	27 April to 15 July 2021	AIT, Thailand (virtual)	50 students from Sher-e-Kashmir University of Agricultural Science and Technology, Kashmir, India
2	<b>Aquaculture internship</b> (3 months)	15 Jan – 16 April 2020	AIT, Thailand	3 students from Junagadh Agricultural University, Gujarat, India
3	<b>Aquaculture internship</b> (1 month)	13 Jan – 13 February 2020	AIT, Thailand	One Master student from Central Institute of Fisheries Education, Mumbai, India
4	<b>Aquaculture internship</b> (3 months)	1 December 2019 – 27 February 2020	AIT, Thailand	Two students from Ubon Ratchathani University, Thailand
5	<b>Aquaculture internship</b> (3 months)	17 April – 16 July 2019	AIT, Thailand	Six students from Shanghai Ocean University, China
6	<b>Aquaculture Nutrition Training</b> (2 weeks)	17-31 May 2019	AIT, Thailand	One Officer from the National Aquaculture Development Authority (NARA) of Sri Lanka
7	<b>Aquaculture internship</b> (3 months)	1 July – 30 September 2019	AIT, Thailand	3 students from Junagadh Agricultural University, Gujarat, India
8	<b>Aquaculture internship</b> (2 weeks)	7 – 21 July 2019	AIT, Thailand	24 students from Huazhong Agricultural University, China

#### AQUACULTURE EXPOSURE VISITS ORGANIZED

	<b>Exposure visits</b>	<b>Duration</b>	<b>Venue</b>	<b>Attendance</b>
1	<b>Aquaculture Exposure visit</b>	24 February – 2 March 2019	Thailand and Vietnam	Fourteen senior officials from National Fisheries Development Board (NFDB) and State Governments from India

2	<b>Aquaculture Exposure visit</b>	4 – 8 November 2018	Thailand and Vietnam	Seven delegates from NFDB/Fisheries Department, Govt. of India
3	<b>Aquaculture Exposure visit</b>	31 January – 2 February 2018	Thailand	18 students from the University of Adelaide, Australia
4	<b>Visit to aquafarms, feed plant, and processing facilities</b>	6 – 10 November 2017	Thailand	Seven delegates - Board of Directors of Msingi Aquaculture, East Africa
5	<b>Aquaculture Exposure visit</b>	13 - 16 December 2015	Thailand	12 students from the University of Adelaide, Australia
6	<b>Aquaculture Exposure visit</b>	14 - 19 July 2015	Thailand	President and five faculty from UJAT, Mexico

**Research Keywords:**

*Cleaner Aquaculture Systems; Sustainable intensification of Aquaculture; Aquatic Resource Management, Biofloc Shrimp Farming; Aquamimicry; Freshwater Prawns; Giant Prawns; Macrobrachium; Applied Genetics; Aquatic Stock Improvement; Selective Breeding; Genetic Characterization; Finfish and Shellfish Hatchery Management; Tilapia, Conservation Aquaculture; Climate Change Impacts*

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