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Date of birth: 30 May 1971

Nationality: Indian

Research interests:

- *Sustainable shrimp farming*
- *Ecosystem-based aquaculture*
- *Applied genetics for improved aquatic stocks*
- *Breeding and hatchery management of aquatic stocks*
- *Climate change adaptation in fisheries and aquaculture*

Education and Professional positions

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

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

2017 to date: Academic 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 of the Journal, *Aquaculture and Fisheries*, Elsevier.

2014 to date: Associate Editor of the Journal, *Fisheries and Aquatic Sciences*, Springer Nature.

2013: Visiting Fellow - Queensland University of Technology (Australia)

2009: Postdoctoral Fellow - Queensland University of Technology, Brisbane, Australia.

2003: Doctor of Philosophy (Mariculture), Central Institute of Fisheries Education (Deemed University), Mumbai, India.

1996: Master of Fisheries Science (M.F.Sc. Aquaculture) – I Rank
College of Fisheries, Kerala Agricultural University (India)

1994: Bachelor of Fisheries Science (B.F.Sc.) – I Rank
College of Fisheries, Kerala Agricultural University (India)

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: *Krisbi Vigyan Kendra* (KVK), Kerala Agricultural University, India
Assistant Professor, Aquaculture (Senior Scale).

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

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

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

Consulting Services/ Industry engagement:

1. **December 2016**, to present:
Consultant to Msingi Aquaculture East Africa, Gatsby Foundation, UK (funded by DFID, UK) – Enhancing the technical capacity of aquaculture business in East Africa (countries covered: Kenya, Tanzania, Uganda, and Rwanda).
2. **April 2010**, to date
Hon. Advisor to Ananda Group, India
Ananda Group of Companies, based in Bhimavaram, Andhra Pradesh is the largest integrated aquaculture company in India (www.anandagroup.com).
3. **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.
4. **2016**, to present
Hon. Consultant to TAR BIOFLOCTECH, Kingfishgroup Co. Ltd., Chiangmai, Thailand, a tilapia biofloc aquaculture company in Thailand.
5. **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.
6. **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:

- 2019 **Elected** as the **Director**, World Aquaculture Society, Asia-Pacific Chapter (WAS-APC).
- 2018 **Member of the Affiliation Committee** of World Aquaculture Society, USA.
- 2016 **Appreciation Certificate**, Asian Fisheries Society, Kuala Lumpur, Malaysia, August 2016, Bangkok, Thailand.
- 2016 **Appreciation Certificate**, GAF6, 6th Global Symposium on Gender in Aquaculture and Fisheries, 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.

Other Professional Experience and Invitations:

- 2019 **Conference Co-Chair, Giant Prawn 2019**, International Conference to be held from 15 – 18 November 2019, Shanghai, China.
- 2019 **Keynote Speaker, BRACQON 2019**, Global Brackishwater Conference, Chennai, India.
- 2018 **Conference Chair, Asian Aquaculture 2018**, International Conference held from 3 – 6 December 2018, AIT 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 2nd 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 Member of Society of Fisheries Technologists (SOFTI), India.

Ongoing Projects:

1. **Innovative applications of Spirulina in Aquaculture** (2018 – 2023) - US\$ 158,000, funded by EnerGaia Co. Ltd., Thailand.
2. **Capacity development for Fisheries and Aquaculture institutions in East Africa** (2018 - 2019) - US\$ 49,875, Co-funded by DFID, UK through Msingi East Africa Ltd.
3. **Aquaculture Internship for China** (2019) - US\$ 49,500; Shanghai Ocean University, China
4. **Capacity Development for Indian Aquaculture** (2019) - US\$ 27,000; National Fisheries Development Board (NFDB), India.
5. **Sustainable Asian Aquaculture** (2018) – US\$ ~84760.
6. **Gender in Aquaculture and Fisheries** (2018) – US\$ 45,395
7. **ERASMUS+, Sustainable Seafood for Nutrition Security (SSNS)**; co-funded by the European Commission (2018-2021): ~1 million Euro.
8. **Integrated Coastal Management (ICM)** (2018) - US\$ ~62,000, funded by IUCN, Mangroves for Future.
9. **Integrated Multitrophic Aquaculture (IMTA)** (2018) – US\$ ~19,000.

Completed Projects:

1. ***ERASMUS+, GeoServices-4-Sustainability (GeoS4S)***; co-funded by the European Commission (2015-2018): 74,976 Euro.
2. **Sustainable Aquaculture Technology Development for East Africa** (2017) - US\$ ~18,000, funded by DFID, the UK through Msingi East Africa Ltd.
3. ***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).
4. ***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).
5. ***Innovative Aquaculture Technologies for the conservation of water and safe discharge of effluents*** – D.S.T, Govt. of India (2014-2017): US\$ ~192,188.
6. ***Smart aquaculture systems for Thailand - partnering with VerifiK8*** (2016 – 2017), sponsored by FairAgora Asia, Thailand: US\$ 5411 (THB 180,000).
7. ***GIANT PRAWN 2017*** (2016 – 2017), AIT, Thailand: US\$ 60,517 (THB 2,013,179).
8. ***Shrimp Biofloc Farming Technology*** (2015-2016), AIT Thailand: US\$ 113,026.
9. ***Recirculating Aquaculture Systems (RAS) and Aquaponics*** (2015-2017), AIT Thailand: US\$ 41,687.
10. ***AARM Lab testing services for the aquaculture industry***, sponsored by Kemin Industries South Asia (P) Ltd: US\$ 5577 (THB 195,186).
11. ***Studying patterns of genetic diversity in farmed red tilapia strains*** - UAR Foundation, Andhra Pradesh, India (2015-2016): US\$ 5000.
12. ***Capacity building for Indian Aquaculture*** - UAR Foundation, Andhra Pradesh, India: US\$ 6,650.
13. ***Evaluation of the genetic quality of tilapia stocks farmed in AIT*** - AIT Research Initiation Grant: 50,000 Baht.
14. ***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.
15. ***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.
16. ***Comprehensive Development of Fisheries and Aquaculture in Puthenvelikkara Grama Panchayath, Kerala, India (Puthenvelikkara Samagra Matsya Gramam Project)*** – RKVY, Govt. of India.
17. ***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.
18. ***Assessment of resident time of antibiotics in farmed aquatic animals by evaluating the metabolites in vital organs***; 2007-10; ICAR, Govt. of India.
19. ***Characterization of different stocks of Macrobrachium rosenbergii and development of genetically improved strain through selective breeding***; 2007-10; Govt. of Kerala, India.
20. ***Environmental and socioeconomic impacts of aquaculture in Pokkali fields of Kerala***; 2006-08; ADAK, Govt. of Kerala, India.
21. ***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** (2019). **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**, 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.
2. **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.
3. 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.
4. 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.
5. 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.
6. 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.
7. **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.

8. 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.
9. **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.

Selected Research Publications:

1. Bambaranda B.V.A.S.M, Sasaki N, Chirapart A, **Salin K R.** and Tsusaka T.W.T (2019) Optimization of Macroalgal Density and Salinity for Nutrient Removal by *Caulerpa lentillifera* from Aquaculture Effluent. *Processes* (Accepted; in press). (Journal Impact Factor: 2.973).
2. Parmar I.S., Soni, P., Kuwornu J.K.M., and **Salin K.R.** (2019) Evaluating Farmers' Access to Agricultural Information: Evidence from Semi-Arid Region of Rajasthan State, India. *Agriculture* 9 (3), 60.
3. Fernando, T.S.R., Attasart, P., Vanichviriyakit R., **Salin, K.R.** and Withyachumnarnkul B. (2018). Presence of *Penaeus monodon* densovirus in the ovary of chronically infected *P. monodon* subadults. *Diseases of Aquatic Organisms*, 129(3), 183-191. (Journal Impact Factor: 1.543).
4. Kerdmusic, C., Fernando T.S.R., Attasart, P., Vanichviriyakit, R., Pongtippatee, P., **Salin, K.R.** and Withyachumnarnkul, B. (2018). Needle biopsy of the hepatopancreas of *Penaeus monodon*. *Aquaculture*, 490, 1-4. (Journal Impact Factor: 2.71).
5. Kamble, M.T., Yakupitiyage, A., **Salin, K.R.**, Chavan, B.R. (2018) Effect of *Psidium guajava* and *Phyllanthus acidus* leaf extract on immunostimulant response of Nile tilapia against *Streptococcus agalactiae* infection. *The Israeli Journal of Aquaculture-Bamidgeh*, 70:9, 1–10. (Journal Impact Factor: 0.439).
6. Atagube G.A., Dong, H.T., Rattanarajpong, T., Senapin S. and **Salin, K.R.** (2018). Piper betle leaf extract inhibits multiple aquatic bacterial pathogens and shows in vivo protection against *Streptococcus agalactiae* infection in Nile tilapia. *Turkish Journal of Fisheries and Aquatic Sciences*, 18, 671-680. (Journal Impact Factor: 0.566).
7. Sureddy, K.V., Tripahti, N.K. and **Salin, K.R.** (2018) Mapping of Marine Chl-a and Suspended Solid Concentration Using OCM-2 Sensor. *Journal of the Indian Society of Remote Sensing*, 1, 1-11. DOI:10.1007/s12524-017-0742-2. (Journal Impact Factor: 0.81).
8. Parmar I.S., Soni, P., Salin K.R. and Kuwornu J.K.M (2018) Assessing farmers access to ICT and non-ICT sources for agricultural development in Semi-Arid Region in India. *Journal of Agricultural Informatics* 9 (2), 22-39.
9. Salin K.R. (2018) GeoS4S Module Geoinformatics for Coastal and Marine Resources Management. *International Journal of Geoinformatics* 14 (3).
10. Arun, V.V., Saharan, N., Ramasubramanian, V., Rani, B., **Salin, K.R.**, Sontakke, R., Haridas, H. & Pazhayamadom, D.G. (2017) Multi-response optimization of *Artemia* hatching process using split-split-plot design based response surface methodology. *Scientific Reports* 7:40394; DOI: 10.1038/srep40394. (Journal Impact Factor: 4.259).
11. Jung, H., Yoon, B., Kim, W., Kim, D., Hurwood, D.A., Lyons, R.E., **Salin, K.R.**, Kim, H., Baek, I., Chand, V. & Mather, P.B (2016) Optimizing Hybrid de Novo Transcriptome Assembly and Extending Genomic Resources for Giant Freshwater Prawns (*Macrobrachium rosenbergii*): The Identification of Genes and Markers Associated with Reproduction. *International Journal of Molecular Sciences* 17(5):690; DOI: 10.3390/ijms17050690. (Journal Impact Factor: 3.257).

12. **Salin K.R.** & Hassan I. (2016) Freshwater prawn farming in Thailand: Striving for sustainability. *Aquaculture Asia Pacific*, 12 (6), 38-42.
13. **Salin K.R.** (2015) The highly successful tilapia cage farming industry in Thailand. *Fishing Chimes*, pp. 34(10).
14. Nair, C.M., **Salin, K.R.**, Joseph, J., Aneesh, B., Geethalakshmi, S. & New, M.B. (2014) Organic rice-prawn farming yields 20% higher revenues. *Agronomy for Sustainable Development* 10/2013; DOI: 10.1007/s13593-013-0188-z. (Journal Impact Factor: 3.992).
15. Jung, H., Lyons, R.E., Li, Y., Thanh, N.M., Dinh, H., Hurwood, D.A, **Salin, K.R.** & Mather, P.B (2014). A Candidate Gene Association Study for Growth Performance in an Improved Giant Freshwater Prawn (*Macrobrachium rosenbergii*) Culture Line. *Marine Biotechnology* 10/2013; DOI:10.1007/s10126-013-9555-7. (Journal Impact Factor: 3.43).
16. Hurwood, D.A., Dammannagoda, S., Krosch, M.N., **Salin, K.R.**, Youssef, A-B.H., de Bruyn, M. & Mather, P.B. (2014). Impacts of climatic factors on evolution of molecular diversity and natural distribution of wild stocks of the Giant Freshwater Prawn (*Macrobrachium rosenbergii*). *Freshwater Science* 33(1), DOI: 10.1086/675243. (Journal Impact Factor: 2.80).
17. Viral C.B., Nair, C.M., **Salin, K.R.** & Tank, K.V. (2014) Growth and survival of *Penaeus monodon* (Fabricius, 1798) in monosex and mixed-sex cultures. *Fisbery Technology* 51: 13-18.
18. Aneesh, B., **Salin, K.R.** & Nair, C.M. (2013) Breeding for conservation: Case of an endangered catfish *Clarias dussumierii* (Valenciennes, 1840). *Fisbery Technology* 50: 101-109.
19. Nair, C.M. & **Salin, K.R.** (2012) Current status and prospects of the giant river prawn *Macrobrachium rosenbergii* (De Man) and the monsoon river prawn *Macrobrachium malcolmsonii* in India. *Aquaculture Research* 43(7), 999-1014. (Journal Impact Factor: 1.422).
20. Nair C.M & **Salin K.R.** (2012) Hatchery sector in India: stricter government control aims at sustainable production. *The Practical Asian Aquaculture*, Asian Aquaculture Network, Bangkok, Thailand, 3(11):12-17.
21. Nair, C.M. & **Salin, K.R.** (2011) Freshwater fish farming in India. *The Practical Asian Aquaculture*, Asian Aquaculture Network, Bangkok, Thailand, 2(1):6-11.
22. **Salin, K.R.** (2011). Giant Prawn 2011, Kochi, Kerala, India. World Aquaculture, June 2011, 24 & 68 pp. World Aquaculture Society, Baton Rouge, USA.
23. Nair C.M. & **Salin K.R.** (2011) Kerala University of Fisheries and Ocean Studies: A bold initiative. In: *Compendium of Fisheries and Aquaculture Development in the Asia Pacific Region*. Jose T.M., Nair J.R., Salin K.R, Sherief T.M., Raman N.N., Krishnakumar S. & M. Jayapradeep (Eds) Asian Pacific Aquaculture 2011, 17-20 January. College of Fisheries, Kochi, India, 110 p.
24. Manoj, C.K., Nair, C.M., Patel, M.B., Mukherjee, S.C., Pal, A.K. & **Salin, K.R.** (2010) Hematobiochemical and histopathological changes in *Labeo rohita* (Ham.) infected with *Aeromonas hydrophila* by immersion challenge. *Fisbery Technology* 47(2), 151-160.
25. Nair, C.M. & **Salin, K.R.** (2010) All male monosex culture of freshwater prawns. *The Practical Asian Aquaculture*, Asian Aquaculture Network, Bangkok, Thailand, 1(1):10-14.
26. Manoj, C.K., Nair, C.M. & **Salin, K.R.** (2010) Controlled reproduction and early stages of development in endangered ornamental fish *Puntius denisonii*, indigenous to the rivers of Western Ghats. *Fishing Chimes* 29(12), 18 - 21.
27. Shyla, G., Nair, C.M., **Salin, K.R.**, Sherief, P.M. & Mukundan, M.K (2009) Liver oil of Pharaoh cuttlefish *Sepia pharaonis* Ehrenberg, 1831 as a lipid source in the feed of giant freshwater prawn, *Macrobrachium rosenbergii* (De Man 1879). *Aquaculture Nutrition* 15, 273-281. (Journal Impact Factor: 1.688).

28. Kutty M.N., Nair, C.M. & **Salin K.R.** (2009) Freshwater prawn farming and its sustainability in South Asia. *World Aquaculture* 40(2), 48-52, 67-68.
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2. **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,

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3. Kamble, M.T., Yakupitiyage, A. & **Salin K.R.** (2016) In vitro Efficacy of Star Gooseberry (*Phyllanthus acidus*) leaves extract against the pathogens *Aeromonas hydrophila* and *Streptococcus agalactiae* Of Nile tilapia *Oreochromis niloticus*. Presented at the International Fisheries Symposium (IFS 2016), 30 October to 3 November, Phu Quoc Island, Vietnam. ASEAN-FEN, Can Tho University, Vietnam.
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5. **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.
6. **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.
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8. **Salin K.R.** (2015) Asian Institute of technology – A Global Leader in Aquaculture Education and Research. Presented at *Profit on Aquaculture 2015*, 13 April 2015, Ananda Convention Centre, Bhimavaram, Andhra Pradesh, India. Uddaraju Anandaraju Foundation, Andhra Pradesh, India.
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Technical Reports

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2. Report on shrimp trials testing KEM prototypes against AHPND, submitted to Kemin Industries South Asia (July 2018).
3. Report on *Technical Capacity Assessment of Aquaculture Industry in East Africa*, submitted to DFID, UK (February 2017).
4. Draft Leasing Policy for Kerala (2011) - Submitted to the Govt. of Kerala, India.
5. 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 Research*, Wiley Blackwell.
- *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.
- *Aquaculture International*, Springer
- *Aquaculture Environment Interactions – Inter-Research*
- *Gene Reports* - Elsevier
- *Journal of Applied Aquaculture* - Taylor & Francis.
- *Aquatic Conservation: Marine and Freshwater Ecosystems* -Wiley Blackwell.
- *Fisbery Technology* - ICAR, India.

Organization of training courses, conferences, seminars, and workshops:**International conferences organized**

	Conference	Duration	Venue	Attendance
1	GIANT PRAWN 2019 (www.giantprawn.org)	15 – 18 November 2019	Shanghai, China	Forthcoming Conference
2	Asian Aquaculture 2018 (www.asianaquaculture.org)	3 – 6 December 2018	AIT, Thailand	210 participants from 25 countries
3	Gender in Fisheries and Aquaculture (GAF7) 2018 (www.gafconference.org)	18 – 21 October 2018	AIT, Thailand	175 participants from 32 countries
4	GIANT PRAWN 2017 (www.giantprawn.org)	20 – 24 March 2017	AIT, Thailand	176 participants from 34 countries
5	Profit on Aquaculture 2017 (http://www.profitonaquaculture.in/)	11 – 14 February 2017	Bhimavaram, Andhra Pradesh, India	~500 participants mostly from India

International Workshops/Seminars organized

	Technical Workshop/Seminar	Duration	Venue	Attendance	
1	Sustainable Asian Aquaculture Series – Management of Parasitic Diseases in Aquaculture: Integrated Multi-trophic Aquaculture		26 Nov to 2 Dec 2018	AIT, Thailand	35 participants from 8 countries
2	International Aquamimicry Sustainable Shrimp Farming Workshop – 2 (http://www.venturefarmsg.com/425829865/4418159/posting/east-meet-west-at-international-aquamimicry-aquatainment)	Co- organizer (Keynote Speaker)	8 – 11 Jan 2017	Hua Hin, Thailand	75 international participants
3	International Aquamimicry Sustainable Shrimp Farming Workshop – 1 (http://www.ait.ac.th/news-and-events/2016/news/ait-to-assume-a-lead-role-in-aquamimicry-sustainable-shrimp-farming-venture/#.WWnvQliGM2w)	Co- organizer	7 – 11 Aug 2016	Hua Hin, Thailand	110 participants from 26 countries
4	Special session on Biofloc Technology at 11 th Asian Fisheries and Aquaculture Forum, Asian Fisheries Society (https://enaca.org/publications/workshops-and-proceedings/11afaf/11afaf-programme.pdf).	Convener	5 August 2016	BITEC, Bangkok	~50 Conference delegates
5	Smart Shrimp Farming Workshop for the Asia Pacific Region -Living with EMS and EHP: Challenging the Disease through Smart Shrimp Farming practices (https://www.was.org/view/press-release-smart-shrimp-aquaculture-workshop.aspx)	Convener	20 – 22 January 2016	AIT, Thailand	>150 participants from 36 countries

6	International Workshop on Recirculating Aquaculture Systems and Aquaponics (http://www.ait.ac.th/news-and-events/2016/events/workshop-on-recirculating-aquaculture-systems-and-aquaponics/#.WWny1liGM2w)	Course Director	15- 19 January 2016	AIT, Thailand	27 participants from 12 countries
7	Profit on Aquaculture 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/)	Convener	13 April 2015	Bhimavaram, Andhra Pradesh, India	~1000 participants

International Training courses organized

	Training Course		Duration	Venue	Attendance
1	International Training program on Sustainable Shrimp Farming Technologies: Biofloc, Biomimicry and Biological Farming	Course Director	21 – 26 August 2017	AIT & Hua Hin, Bangkok	21 participants from 9 countries
2	Advances in Hatchery Management of Giant Freshwater Prawns (https://www.enaca.org/index.php?id=861&title=giant-prawn-2017)	Course Director	17 – 19 Mar 2017	AIT, Thailand	23 participants from 10 countries
3	International Training program on Sustainable Shrimp Farming Technologies: Biofloc, Biomimicry and Biological Farming (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/)	Course Director	23 – 28 May 2016	AIT, Thailand	32 participants from 12 countries
4	Innovative Biofloc Technologies for Disease Prevention and Shrimp Farming (http://www.ait.ac.th/news-and-events/2015/news/27-participants-from-15-countries-join-biofloc-technology-training#.WWnqXoiGM2w)	Course Director	12 – 16 Oct 2015	AIT, Thailand	27 participants from 15 countries
5	Innovative Biofloc Technologies for Disease Prevention and Shrimp Farming (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)	Course Director	6 – 10 July 2015	AIT, Thailand	30 participants from 14 countries

Research Keywords:

Sustainable Shrimp Farming; Aquatic Resource Management, Sustainable intensification of Aquaculture; Biofloc Shrimp Farming; Aquamimicry; Freshwater prawns; Giant Prawns; Macrobrachium; Applied Genetics; Aquatic stock improvement; Selective breeding; Genetic characterization; Fish hatchery management; Tilapia, Conservation aquaculture; Climate change impacts