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Research interests:

- *Applied genetics for improved aquatic stocks*
- *High throughput genomics*
- *Sustainable intensification of Aquaculture;*
- *Breeding and hatchery management*
- *Climate change implications for fisheries and aquaculture*
- *GIS applications for integrated coastal resource management*

Teaching:

- Genetics and Biotechnology in Aquaculture
- Aquatic Seed Production Technology
- Coastal and Inland Aquaculture
- Analytical Techniques in Aquaculture
- Water Quality Management in Aquaculture
- Sustainable Intensification of Aquaculture
- Climate change implications for fisheries and aquaculture
- GIS and RS for Sustainable Coastal Resources Management

Education and Academic positions

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

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

August 2014 to present: Asst. Professor, AARM, Asian Institute of Technology, Thailand

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

October 2009 – May 2011: KVK, Kerala Agricultural University, India
Asst. Professor (Senior Scale)

Oct 2005 – Oct 2009: KVK, Kerala Agricultural University, India - Asst. Professor

Professional Experience, Awards and Invitations:

- 2015 Visiting Faculty**, Juárez Autonomous University of Tabasco (UJAT), Mexico.
- 2015 Keynote speaker**, *AQUADACA 2015 - Simposio Internacional de Acuacultura*, 30 Nov – 2 Dec 2015, UJAT, Tabasco, Mexico.
- 2015 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 Aquaculture2015*, 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 Assistant Professor**, Asian Institute of Technology, Bangkok, Thailand.
- 2014 Member of the Editorial Board**, *Fisheries and Aquatic Sciences*: Journal of Korean Society of Fisheries & Aquatic Sciences (<http://www.e-fas.org/>).
- 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*).
- 2012 DBT-CREST Fellowship**, Dept. of Biotechnology, Govt. of India.
- 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 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
- 2011 Assistant Professor (Senior Scale)**, Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi, Kerala, 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 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*).
- 2009 Assistant Professor (Senior Scale)**, Kerala Agricultural University, Kochi, Kerala, India.
- 2009 Endeavour Awards, Govt. of Australia**, Dept. of Education, Employment and Workplace Relations (DEEWR), Australia.
- 2008- Member of the Expert Committee** - Task Forces on Inland Fisheries & ’11 Aquaculture, and T.F for Drafting Leasing Policy, Govt. of Kerala, India.
- 2005 Assistant Professor**, Faculty of Fisheries, Kerala Agricultural University, KVK Kottayam, Kerala, India.
- 2003 Best Young Scientist Award**, for contributions in freshwater prawn research, Kochi, India.
- 2003** Technical Consultant to the Kerala Agricultural University Project for setting up of a commercial freshwater prawn hatchery for the Govt. of Karnataka
- 2003 PhD (Mariculture)**, Central Institute of Fisheries Education (CIFE), Deemed University, ICAR, Mumbai, India.
- 1994- M.F.Sc (Master of Fisheries Science) – I Rank**, College of Fisheries, Kerala ’96 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 ’94 Agricultural University, Kochi, India.

Professional Affiliations:

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

Ongoing Projects:

- *ERASMUS+, GeoServices-4-Sustainability (GeoS4S)*; co-funded by the European Commission (2015-2018): 74,976 Euro.
- *Innovative Aquaculture Technologies for conservation of water and safe discharge of effluents* – D.S.T, Govt. of India (2014-2017): US\$ ~192,188.
- *Biofloc Shrimp Farming Technology* (2015-2016): US\$ 70,000.
- *Recirculating Aquaculture Systems (RAS) and Aquaponics* (2015-2017): US\$ 38,800.
- *Studying patterns of genetic diversity in farmed red tilapia strains* - UAR Foundation, Andhra Pradesh, India (2015-2016): US\$ 5000.

Completed Projects:

- *Capacity building for Indian Aquaculture* - UAR Foundation, Andhra Pradesh, India: US\$ 6,650.
- *Evaluation of the genetic quality of tilapia stocks farmed in AIT* - AIT Research Initiation Grant: 50,000 Baht.
- *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.
- *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.
- *Comprehensive Development of Fisheries and Aquaculture in Puthenvelikkara Grama Panchayath, Kerala, India (Puthenvelikkara Samagra Matsya Gramam Project)* – RKVY, Govt. of India.
- *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.
- *Assessment of resident time of antibiotics in farmed aquatic animals by evaluating the metabolites in vital organs*; 2007-10; ICAR, Govt. of India.
- *Characterization of different stocks of Macrobrachium rosenbergii and development of genetically improved strain through selective breeding*; 2007-10; Govt. of Kerala, India.
- *Environmental and socioeconomic impacts of aquaculture in Pokkali fields of Kerala*; 2006-08; ADAK, Govt. of Kerala, India.
- *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.

Books

1. *Macrobrachium: The culture of Freshwater Prawns* (2008) Michael B. New, C.M. Nair, M.N. Kutty, K.R. Salin & M.C. Nandeesh. Macmillan India Ltd.
2. *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.
3. *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.

Contributed chapters

1. 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.
2. 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.
3. 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.
4. 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.
5. 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 Publications:

1. 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).
2. Hyungtaek Jung, Russell E Lyons, Yutao Li, Nguyen Minh Thanh, Hung Dinh, David A Hurwood, Krishna R Salin & Peter B Mather (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).
3. 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).
4. 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. *Fishery Technology* 51: 13-18.
5. Aneesh, B., Salin, K.R. & Nair, C.M. (2013) Breeding for conservation: Case of an endangered catfish *Clarias dussumierii* (Valenciennes, 1840). *Fishery Technology* 50: 101-109.
6. 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).
7. 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.
8. 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.
9. 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.
10. 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. *Fishery Technology* 47(2), 151-160.

11. 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.
12. 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.
13. 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).
14. 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.
15. Nair, C.M. & Salin, K.R. (2009) Organic prawn farming comes to India's rice fields. *Global Aquaculture Advocate* Nov/Dec 2009, 66 - 68.
16. Nair, C.M. and Salin, K.R. (2009). Emerging biotechnological approach in all male monosex farming of giant freshwater prawn. *Fishing Chimes* 29(5), 18 - 22.
17. Raju U.K.V., Nair C.M. & Salin K.R. (2009) Freshwater prawn farming in India - falling yields signal need for stock improvement. In: *INFISH Souvenir*. NFDB, Hyderabad, India.
18. Kutty, M.N., Nair, C.M. & Salin, K. R. (2008) Reservoir fisheries of freshwater prawn - Success story of an emerging culture-based giant freshwater prawn fishery at Malampuzha Dam in Kerala, India. *Aquaculture Asia* 13(2), 40 - 41.
19. Nair C.M., Salin K.R. & Ashok Kumar K. (2007) Use of Cyclop-eeze as a substitute for *Artemia* nauplii in larval rearing of giant freshwater prawn *Macrobrachium rosenbergii* (De Man 1879). *Aquaculture Nutrition* 13 (2), 88-93. (Journal Impact Factor: 1.688).
20. Nair C.M. & Salin K.R. (2007) Carp-based Polyculture in India: Emerging trends. *Global Aquaculture Advocate*, pp. 54-56, Jan/Feb 2007.
21. Nair C.M. & Salin K.R., Raju M.S. & Sebastian M. (2006) Economic analysis of monosex culture of giant freshwater prawn (*Macrobrachium rosenbergii* De Man): a case study. *Aquaculture Research*, 37, 949-954. (Journal Impact Factor: 1.422).
22. Nair C.M. & Salin K.R. (2006) Freshwater prawn farming in India: Status, prospects. *Global Aquaculture Advocate* 9(6): 34 - 37, Nov/Dec 2006.
23. Salin K.R. & Nair C.M. (2006) Resources and biodiversity of seahorses and the need for their conservation in India. *Aquaculture Asia*, XI(3), 3-8.
24. Salin K.R. (2005) Live transportation of *Macrobrachium rosenbergii* (De Man) in chilled saw dust. *Aquaculture Research* 36 (3), 300-310. (Journal Impact Factor: 1.422).

25. Salin, K.R., Yohannan, T.M. and Nair, C.M (2005) Fisheries and trade of seahorses (*Hippocampus* spp.) in southern India. *Fisheries Management & Ecology*, 12, 269-273. (Journal Impact Factor: 1.76).
26. Pillai, D. Nair, C.M., Salin, K.R., Adam Marques, Joannes Sri Widada & Jean-Robert Bonami (2005). Gross Signs and Histopathology of the Balloon Disease (or Branchiostegal Blister Disease): an idiopathic disease of farmed *Macrobrachium rosenbergii* (De Man). *Journal of Fish Diseases*, 28, 1-6. (Journal Impact Factor: 2.056).
27. Salin K.R. & Vadhyar K.J. (2001) Cold anaesthetization and live transportation of penaeid shrimps. *Fishery Technology* 38(2), 71-76.
28. Salin K.R. & Vadhyar K.J. (2001) Effect of different chilling rates for cold anaesthetization of *Penaeus monodon* (Fabricius) on the survival, duration and sensory quality under live storage in chilled sawdust. *Aquaculture Research* 32, 145-155. (Journal Impact Factor: 1.422).

Conference presentations

1. 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.
2. 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*.
3. 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.
4. 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.
5. Salin K.R. (2015) Modern Approaches to Genetic Stock Improvement of Finfish and Shellfish. Presented at *Profit on Aquaculture 2014*, 29 March 2014, Ananda Convention Centre, Bhimavaram, Andhra Pradesh, India. Uddaraju Anandaraju Foundation, Andhra Pradesh, India.
6. Shyla G., Nair, C.M., Salin K.R., Pillai, D. & Katya, K. (2013) Comparison of disease resistance of three stocks and its diallel crosses of *Macrobrachium rosenbergii* juveniles. 10 Asian Fisheries and Aquaculture Forum, 30 April – 4 May 2013, Yeosu, Korea. Asian Fisheries Society.
7. Salin, K. R., & Nair, C.M. (2011) Freshwater prawn *Macrobrachium rosenbergii* farming – challenges to seed production in India. *World Aquaculture 2010*, 6 – 10 June 2011, Natal, Brazil. World Aquaculture Society, Baton Rouge, USA.

8. Salin, K. R. & Nair, C.M. (2011) Freshwater prawn hatchery management – quality versus profitability. Giant Prawn 2011, 18-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
9. Nair, C.M. & Salin, K. R. (2011) Farming for future – Freshwater prawn farming in India aims at sustainability. Giant Prawn 2011, 18-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
10. Shyla, G., Nair, C.M., Salin, K. R. & Pillai, D. (2011) Comparison of larval performance between three stocks of *Macrobrachium rosenbergii* (de man, 1875) and its hybrids. Giant Prawn 2011, 18-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
11. Shyla, G., Nair, C.M., Pillai, D. & Salin, K.R. (2011) Genetic characterization of three stocks of *Macrobrachium rosenbergii* (De man, 1875) using RAPD marker. Giant Prawn 2011, 18-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
12. Manoj, C.K., Nair, C.M., Salin, K.R. & Pillai, D. (2011) Controlled breeding and early embryonic development of *Puntius denisonii*, an indigenous ornamental fish. Asian Pacific Aquaculture 2011, 17-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
13. Manoj, C.K., Nair, C.M., Pillai, D., Salin, K.R. & Malika, V. (2011) Characterization of different populations of *Puntius denisonii* in Kerala rivers using Truss analysis and RAPD markers. Asian Pacific Aquaculture 2011, 17-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
14. Kumar, K., Nair, C.M. & Salin, K.R. (2011) Comparative evaluation of different feed ingredients for stinging catfish *Heteropneustes fossilis* (Bloch). Asian Pacific Aquaculture 2011, 17-20 January 2011, Kochi, India. World Aquaculture Society, Asia Pacific Chapter, USA.
15. Salin, K. R., Jung Hyungtaek, David Hurwood, C. Mohanakumaran Nair, G. Shyla, Peter Mather. (2010) The genetic structure of wild and cultured giant freshwater prawn *Macrobrachium rosenbergii* stocks in India: evidence for multiple lineages and past introductions of exotic genotypes. World Aquaculture 2010, 1-5 March 2010, San Diego, California, USA. World Aquaculture Society, Baton Rouge, USA.
16. Salin K.R., Mohanakumaran Nair C., Juliet Joseph, Methil N Kutty (2010) Economics of organic rice - giant freshwater prawn *Macrobrachium rosenbergii* farming in the traditional rice fields of Kerala, India. World Aquaculture 2010, 1-5 March 2010, San Diego, California, USA. World Aquaculture Society, USA.
17. Salin, K.R. & Nair, C.M. (2008) Rice – prawn (*Macrobrachium rosenbergii*) farmers changing to organic mode in paddy fields of Kuttanad, Kerala, India. World Aquaculture 2008, 19-23 May 2008 (Busan, Korea). World Aquaculture Society, Baton Rouge, USA.
18. Nair C.M. & Salin K.R. (2008) Freshwater prawn farming in India – facing new challenges. Giant Malaysian Prawn 2008, 28 – 29 March 2008. Malaysian Fisheries Society, Kuala Lumpur, Malaysia.

19. Salin K.R., Nair C.M. & Sebastian, C.D. (2008) Sustainable rice – prawn system in Kole lands of Kerala, India. Giant Malaysian Prawn 2008, 28 – 29 March 2008. Malaysian Fisheries Society, Kuala Lumpur, Malaysia.
20. Kutty, M.N., Nair, C.M. & Salin K.R. (2007) Freshwater prawn farming and its sustainability in South Asia. World Aquaculture 2007 (Texas, USA). World Aquaculture Society, USA.
21. Nair, C.M., Salin K.R., Nambudiri, N.N. & Kutty M.N. (2007) Emerging culture-based fisheries of *Macrobrachium* in reservoirs of Kerala, India. World Aquaculture 2007 (Texas, USA). World Aquaculture Society, USA.
22. Salin, K.R. & Nair, C.M. (2007) Sex ratio, fecundity and availability of berried females of *Macrobrachium rosenbergii* in Vembanad Lake, Kerala, India. Fisheries and Aquaculture: Strategic outlook for Asia– 8th Asian Fisheries Forum. Asian Fisheries Society, November 20-23, 2007, Kochi, India.
23. Manoj, C.K., Shyla, G., Nair, C.M., Pillai, D. & Salin, K.R. (2007) Effect of paraquat dichloride on respiratory rate, enzymatic and hormonal levels of grass carp (*Ctenopharyngodon idella*). Fisheries and Aquaculture: Strategic outlook for Asia – 8th Asian Fisheries Forum. Asian Fisheries Society, Indian Branch, November 20-23, 2007, Kochi, India.
24. Shyla, G., Pillai, D., Salin, K.R., Manoj, C.K. & Nair, C.M. (2007) lethal concentration and physiological effect of paraquat dichloride on common carp (*Cyprinus carpio* var *communis*). Fisheries and Aquaculture: Strategic outlook for Asia – 8th Asian Fisheries Forum. Asian Fisheries Society, Indian Branch, November 20-23, 2007, Kochi, India.
25. Nair, C.M and Salin, K.R. (2005) Freshwater prawn farming in India - Emerging trends. World Aquaculture 2005, Conference & Exhibition, 9-13 May 2005, Nusa Dua, Bali, Indonesia. World Aquaculture Society, USA.
26. Salin, K.R., Yohannan, T.M. and Nair, C.M. (2004). Captive rearing of *Hippocampus kuda* and issues of seahorse conservation in India. Ocean Life Food and Medicine Expo 2004. International Conference & Exposition on Marine Living Resources of India for Food and Medicine, Chennai, 27-29 February 2004.
27. Nair C.M. & Salin, K.R. (2003). Scampi aquaculture in India- an overview of the techniques and the emerging threats to sustainability. In: Freshwater Prawns 2003, International Symposium on Freshwater prawns, Souvenir, 20-23 August 2003, Kochi, India. pp. 25-32. Kerala Agricultural University, Kochi, India.
28. Salin, K.R. and Nair, C.M. (2003). Emerging diseases of giant freshwater prawn in India: a potential threat to sustainability. Freshwater Prawns 2003, International Symposium on Freshwater Prawns, 20–23 August; 2003, Kochi, India. Kerala Agricultural University, Thrissur, India.
29. Nair C.M. & Salin K.R. (2003) Optimum density and duration of shipping newly hatched zoea larvae of *Macrobrachium rosenbergii* (De Man) to distant hatcheries. *Freshwater Prawns 2003*, International Symposium on Freshwater Prawns, 20-23 August 2003, Kochi, India.
30. 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.

31. Raju M.S., Salin K.R. & Korath A. (2003). Commercial Production of scampi (*Macrobrachium rosenbergii*) seed: An economic analysis. *Freshwater Prawns 2003*, International Symposium on Freshwater Prawns, 20-23 August 2003, Kochi, India.

Technical Reports

1. Draft Leasing Policy for Kerala (2011) - Submitted to the Government of Kerala, India.
2. Report of the Task Force on Inland Fisheries and Aquaculture, Kerala - Submitted to the Government of Kerala, India.

Training Manuals

- Four Manual 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
- *Journal of Applied Aquaculture* - Taylor & Francis.
- *Aquatic Conservation: Marine and Freshwater Ecosystems* -Wiley Blackwell.
- *Fishery Technology* - ICAR, India.

Outreach activities:

- Organised International Training program on *Recirculating Aquaculture Systems and Aquaponics*; 15 – 19 January 2016 at AIT, Bangkok, Thailand.
- Organised the Smart Shrimp Farming Workshop for the Asia Pacific Region - *Living with EMS and EHP: Challenging the Disease through Smart Shrimp Farming practices*, Kasetsart University, Bangkok, Thailand.
- Organised two International Training programs on *Innovative Biofloc technologies for Disease prevention and Control in Shrimp Farming*; 6 – 10 July, and 12 – 16 October 2015 at AIT, Bangkok, Thailand.
- Organised *Profit on Aquaculture 2015*, 13 April 2015 at Ananda Convention Centre, Ananda Group, Bhimavaram, Andhra Pradesh, India.
- Organised *Profit on Aquaculture 2014*, 29 March 2014, Ananda Group, India

- National Training programme on *Freshwater Prawn Farming*, Funded by National Fisheries Development Board (NFDB), India – 2008, '09, '10 & '12, and publication of four Training Manuals.
- Training programmes on *Freshwater Fish Farming, prawn farming, indigenous fish farming*, and *Ornamental Fish culture* to farmers, unemployed rural youth and women entrepreneurs in India.
- On-the-job trainings to Vocational School students and professional fisheries graduates in India.

Research Keywords:

Freshwater prawns; Macrobrachium; Applied Genetics in aquaculture; High throughput genomics; Transcriptomics; Aquatic stock improvement; Selective breeding; Genetic characterization; Fish hatchery management; Tilapia, Conservation aquaculture; Climate change impacts.