

Dr. Pramod Kumar Pandey**Ph D (Fish & Fisheries Science - Inland Aquaculture)****Dean**

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Professional Experience

Designation	Organization	From	To
Dean	Central Agricultural University, Imphal	09.12.2016	Till date
Principal Scientist	Indian Council of Agricultural Research, New Delhi	01.01.2009	08.12.2015
Senior Scientist	Indian Council of Agricultural Research, New Delhi	14.09.2005	31.12.2008
Senior Scientist	Indian Council of Agricultural Research, New Delhi	14.09.2002	13.09.2005
Scientist (Sr. Scale)	Indian Council of Agricultural Research, New Delhi	14.09.1999	13.09.2002
Scientist	Indian Council of Agricultural Research, New Delhi	14.09.1993	13.09.1999
Senior Demonstrator	Indian Council of Agricultural Research, New Delhi	18.11.1989	13.09.1993
Field Supervisor	Marine Products Export Development Authority, Kochi	20.06.1988	17.11.1989

Major Trainings attended

Sl no.	Description
1.	Management Development Programme on Leadership Development (for RMP), ICAR-NAARM, Hyderabad
2.	National Training Programme on Metagenomics: A practical Approach to Molecular Taxonomic Profiling, ICAR-NBAIM, Mau

3. Workshop on Bioinformatics for Cyanobacteriologists and Workshop on Research Techniques in Cyanobacteriology, Bioinformatics Centre and National Facility for Marine Cyanobacteria, Bharathidasan University, Tiruchirapalli
4. Training course on “Blue Green Algae”, National Centre for Conservation and Utilisation of Blue-green Algae, ICAR-IARI, New Delhi
5. Certificate course in “Computer Application”, ET & T Computer Education and Training Centre (A Govt. of India Enterprise), Bhubaneswar
6. First faculty development programme in educational technology, ICAR-NAARM, Hyderabad
7. Summer school on methods of assessment of aquatic ecosystem for fish health care, ICAR-CIFRI, Barrackpore
8. Purse-seine fisheries, Southeast Asian Fisheries Development Centre, Bangkok, Thailand
9. Field Experience Training, G.B.PantUniversity of Agricultural Science and Technology, Pantnagar, India
10. Foundation Course on Agricultural Research Project Management, ICAR-NAARM, Hyderabad
11. Subject matter training , ICAR-CIFE, Mumbai

Awards and Honours

Sl no.	Description
1.	As Dean, College of Fisheries got accreditation of the college by PRT of ICAR, New Delhi till 2021.
2.	Served as Member, in Peer Review Team of ICAR to accredit Tamil Nadu Fisheries University, Nagipattnam.
3.	Member, National Advisory Committee for organizing many seminar , symposia.
4.	Serving as President of North East Society for Fisheries and Aquaculture based at College of Fisheries, Agartala since, December, 2015.
5.	Served as Member, Academic Council, ICAR-CIFE, Mumbai 2013-16.
6.	Serving as Member, Academic Council, Central Agricultural University, Imphal since 2015
7.	Serving as Member, Research Council, Central Agricultural University, Imphal since 2015
8.	Serving as Member, Extension Council, Central Agricultural University, Imphal since 2015
9.	Serving as Chairman, Board of Studies, College of Fisheries, Agartala since 2015
10.	Served as Chairman, Board of Studies, Aquatic Environment Management, CIFE, Mumbai during 2015.
11.	Served as Chairman, Board of Studies, Aquatic Animal Health Management, CIFE, Mumbai during 2015.
12.	Serving as Member, Board of Studies, College of Agricultural Engineering and Post Harvest Technology, CAU,Sikim, since 2015
13.	Serving as Member, Board of Studies, College of Veterinary and Animal Sciences, CAU, Mizoram, since 2015
14.	Served as Expert, Odisha Public Service Commission, Bhubaneswar
15.	Served as Expert, Andhra Pradesh Public Service Commission, Hyderabad
16.	Served as Expert, Tamil Nadu Public Service Commission, Chennai
17.	Served as Expert, Arunachal Pradesh, Public Service Commission, Itanagar
18.	Served as Expert in establishing College of Fisheries at Etawa, U. P. under CSA University of Agriculture and Technology, Kanpur
19.	Served as expert in the committee formed by Dr. Rajendra Prasad Central Agricultural University, Samastipur for framing the rules for promotion of teachers under career advancement scheme
20.	Recognised as Examiner by Tamil Nadu Fisheries University
21.	Recognised as Ph. D examiner by Dr BKKV, Dapoli
22.	Recognised as Examiner by Central Agricultural University, Imphal
23.	Recognised as Examiner by Kerala University, Thiruvantharampuram
24.	Recognised as Examiner by Tamil Nadu Veterinary and Animal Sciences University, Chennai
25.	Recognised as Ph D guide by Barktulla University, Bhopal

26. Member, Editorial Board, Journal of Oceanography and Marine Science- International
27. Associate Editor, Academic Journal of Modern Applied Sciences, International
28. Member National Advisory, Editorial Board, Journal of Fisheries and Life Sciences, National
29. Received Best Teacher award from Heeralal Chaudhuri Fisheries Foundation, Mumbai- Professional Society
30. Received Best Division Award from Heeralal Chaudhuri Fisheries Foundation, Mumbai- Professional Society
31. Served as treasurer and general secretary of Indian Fisheries Association for a period of 10 years.
32. Served as reviewer for several national and international journals.
33. Recognised as fellow of Zoological Society of India, Gaya
34. Recognised as fellow of Society of Biological Sciences & Rural Development, Allahabad
35. Received ICAR fellowship
36. Received the fellowship of SEAFDEC, Thailand
37. Recognized as expert by Department of Biotechnology, New Delhi

Research Projects

Title of the project	Period		Sponsoring organization
	From	To	
Development of nitrogenous bacterial fertilizers for aquaculture	01/04/2001	31/03/2004	ICAR-CIFE
Documentation of halophilic bacteria from western Rajasthan	01/04/2003	31/03/2005	ICAR-CIFE
Chromium resistant bacteria as potential bioremediators in aquatic environments	01/04/2005	31/03/2008	ICAR-CIFE
Bacterial fertilizers for organic aquaculture	01/04/2005	31/03/2008	ICAR
Nutrient management and seepage control in salt affected areas for aquaculture	01/04/2006	31/03/2009	ICAR-CIFE
Niche Area of Excellence-Utilisation of inland saline and sodic soil for aquaculture	01/04/2006	31/03/2009	ICAR
AMAAS Project on mapping of microbial diversity in the marine ecosystem in and around Mumbai	01/04/2006	31/03/2010	ICAR
AMAAS Project on development of bacterial consortia for bioprocessing agricultural wastes and bioremediation of aquacultural effluents	01/04/2006	31/03/2011	ICAR
Nutrient management in aquaculture through bacterial biofilm	01/04/2007	31/03/2010	ICAR-CIFE

Environmental impact of Fipronil : Presence in water and soil, effect on common edible fish <i>Labeorohita</i> (Rohu) and bioremediation studies	01/04/2007	31/03/2010	ICAR-CIFE
Assessment of status of riverine fisheries and linking with the water quality restoration programme-River Godavari in Maharashtra	01/04/2009	31/03/2011	CPCB
Enhancement of Indian Major Carps production through Biofilm	01/04/2011	31/03/2014	ICAR-CIFE
Monitoring of pollution in a coastal ecosystem and assessment of trophic transfer of persistent pollutants	01/04/2012	31/03/2015	ICAR-CIFE
Designing and testing of column based water filtration units for removal of inorganic and organic waste from hatchery wastewater	01/04/2012	31/03/2015	ICAR-CIFE
Fisheries and Aquaculture Biotechnology- Centre of Excellence	01/04/2013	31/03/2018	DBT

Research Findings / Achievements	
Achievement	Supporting research publication (Journal details)
Inventarization of fish biodiversity of north-east India	Barman A.S., Mamta Singh and P. K. Pandey , 2017. DNA Barcoding and Genetic Diversity Analyses of Fishes of Kaladan River of Indo-Myanmar biodiversity Hotspot. Mitochondrial DNA part A
Impact of pharmaceutical drugs on aquatic organisms	Malachy N.O. Ajima, P.K. Pandey , K. Kumar, N. Poojary, 2016. Assessment of mutagenic, hematological and oxidative stress biomarkers in liver of Nile tilapia, <i>Oreochromis niloticus</i> (Linnaeus, 1758) in response to sublethal verapamil exposure. Drug and Chemical Toxicology, DOI: 10.1080/01480545.2016.1219914 Malachy N.O. Ajima, P.K. Pandey , Kundan Kumar, Nalini Poojary, M.M. Mane, 2016. Lipid peroxidation and activities of antioxidant enzymes biomarkers in <i>Oreochromis niloticus</i> (Linnaeus, 1758) chronically treated with diclofenac (DCF). J. Exp. Zool, India, 19(2):671-676.
Screened suitable species and standardized cultivation practices of <i>Azolla</i> . Demonstrated successful use of <i>Azolla</i> as biofertilizer in culture of Indian Major Carps for sustainable aquaculture and also worked out its dosages and periodicity with respect to application. Many farmers are using <i>Azolla</i> as biofertilizers in freshwater aquaculture as biofertilizers	Rajkumar M., P. K. Pandey , R. Arvind, A. Vennila, V. Bharti, C. S. Purushothaman, 2015. Effect of different biofloc system on water quality, biofloc composition and growth performance in <i>litopenanaeus vannamei</i> (Boone, 1931). Aquaculture Research, DOI: 10.1111/are.12792
Suitable carrier materials were screened and successfully applied in field conditions. The technology has been adopted by MPCB, Mumbai	M.T. Shilta, N.K. Chadha, P.K. Pandey and P.B. Swant, 2016 Effect of biofilm on water quality and growth of <i>Etroplus suratensis</i> (Bloch, 1790), Aquacult Int 24(2):661674
Study related to impact of chromium on fish and its bioremediation was conducted. The bioremediating capabilities of the bacterial isolates were successfully analysed. The species of <i>N. elongata</i> , <i>N. sicca</i> and <i>Acenobacter</i> were	B. Mallesh, P. K. Pandey , K. Kumar, A. Vennila S.P. Shukla, R.P. Raman, S. Kumar, 2015. Bioconcentration of hexavalent chromium in different organs and induction of micronuclei in peripheral blood cells of <i>Cirrhinus mrigala</i> (Ham 1822). Indian journal of Animal Sciences, 85(5):528-532.

<p>found to reduce the chromium level between 60-75% within 48 hours.</p>	<p>B. Mallesh, P. K. Pandey, K. Kumar, A. Vennila, S. Kumar, 2015. Bioconcentration of hexavalent chromium in different organs and induction of micronuclei in peripheral blood cells of <i>Cirrhinus mrigala</i> (Ham, 1822): effect on haematological parameters, Journal of Biology and Earth Sciences, 5(1):59-67.</p>
<p>Characterised the bacteria, responsible for bioremediation of arsenic and successfully demonstrated their bioremediation capacity</p>	<p>K. Sukhdane, Pandey P.K., Vennila A., Purushothaman C.S., and Ajima M. N.O., 2015. Sources and distribution of polycyclic aromatic hydrocarbons in the mangrove sediments of Thane creek, Maharashtra, India and their ecotoxicological significance, Environ.Moni. Assess., 187(5): DOI10.1007/s10661-015-4470-1</p> <p>K.S. Sukhdhane, P.K. Pandey, M.N.O. Ajima, T. Jayakumar, A. Vennila and S.M. Raut, 2017. Isolation and characterization of Phenanthrene-degrading bacteria from PAHs contaminated mangrove sediment of Thane creek in Mumbai, India, Polycyclic Aromatic Carbon, DOI: 10.1080/10406638.2016.1261911</p>
<p>Successfully developed bacterial consortia comprising four species of bacteria for bioprocessing of agricultural waste to be used in aquaculture as manures.</p>	<p>Manju Lekshmi N., R. Rathesh Kumar, C.S. Purushothaman, Priti Parik, K.P. Sandep, P.K. Pandey, G.B. Srekanth, N.P. Singh, 2014. Development of lignocellulolytic microbial consortium for the production of organic manures from agricultural wastes Journal of Aquatic Biology and Fisheries, 2:324-328.</p>
<p>Enhanced fish production and nutrient management in aquaculture through bacterial biofilm. Three materials, namely gravel, glass slides and bagasse were analysed as substratum for the settlement of the biofilms. Bagasse gave the best result with respect to settlement of the bacteria and water quality. Bagasse as substratum was used successfully for culture of Indian major carps at Pawarkheda Centre. It helped in getting higher production, especially with respect to catla and rohu along with optimum water quality for aquaculture. It was also used successfully for the culture of <i>Etroplus suratensis</i>.</p>	<p>M. T. Shilta, Narinder Kumar Chadha, P. K. Pandey and Paramita Banerjee Sawant, 2015. Effect of biofilm on water quality and growth of <i>Etroplus suratensis</i> (Bloch, 1790). Aquaculture International, DOI10.1007/s10499-015-9956-x</p> <p>P K Pandey, M S Laxmi, S Kumar, 2014. In vitro evaluation of natural and synthetic substrate for biofilm formation and their effect on water qualities Indian J. Anim. Res., 48 (6):585-592.</p> <p>Pandey P. K., Bharti V. and Kumar K., 2014. Biofilm in aquaculture production. Afr. J. Microbiol. Res., 8(13): 1434-1443.</p>
<p>Developed biofloc technology for culture of marine prawn</p>	<p>Rajkumar M., P K Pandey, R. Arvind, A. Vennila, V. Bharti, C.S. Purushothaman, 2015. Effect of different biofloc system on water quality, biofloc composition and growth performance in <i>Litopenaeus vannamei</i> (Boone, 1931). Aquaculture Research, doi:10.1111/are.12792</p>

Publications (Refereed Journals)

G. Kantharajan, **P.K. Pandey**, P. Krishnan, VD Samuel, VS Bharti, R. Purvaja, 2017. Molluscan diversity in the mangrove ecosystem of Mumbai, west coast of India. *Regional Studies in Marine Science*, 14: 102-111.

V. Santhana Kumar, **P.K. Pandey**, T. Anand, R. Bhuvanewari, S. Kumar, 2017. Effect of periphyton (aquamat) on water quality, nitrogen budget, microbial ecology, and growth parameters of *Litopenaeus vannamei* in a semi-intensive culture system. *Aquaculture*, DOI: 10.1016/j.aquaculture.2017.05.048.

Malachy N.O. Ajimaa, **P. K. Pandey**, K. Kumar, N. Poojary, 2017. Neurotoxic effects, molecular responses and oxidative stress biomarkers in Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758) exposed to verapamil. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*.196: 44–52.

Anindya Sundar Barman, Mamta Singh, Pramod Kumar Pandey, 2017. Complete mitochondrial genome of near threatened butter Catfish *Ompok bimaculatus* (Siluriformes: Siluridae). *Mitochondrial DNA Part B: Resources* .2(1): 313-314.

Anindya Sundar Barman, Mamta Singh, **Pramod Kumar Pandey**, 2017. Complete mitochondrial genome of near threatened fish species *Osteobrama belangeri* (Cypriniformes: Cyprinidae). *Mitochondrial DNA Part B: Resources*, 2(1): 300-301.

P.K. Pandey, Malachy N.O. Ajima, Kundan Kumar, Nalini Poojary, Saurav Kumar, 2017. Evaluation of DNA damage and physiological responses in Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758) exposed to sub-lethal diclofenac (DCF). *Aquatic Toxicology*, 186:205–214.

AS Barman, M Singh, **PK Pandey**, 2017. DNA Barcoding and Genetic Diversity Analyses of Fishes of Kaladan River of Indo-Myanmar Biodiversity Hotspot. *Mitochondrial DNA Part A* : doi.10.1080/24701394.2017.1285290.

Husne Banu, **PK Pandey**, 2017. Role of plasmid in aquatic microbiology. *Microbial Environment and Bioremediation*: 79-94.

K. S. Sukhdhane, **PK Pandey**, M. N. O. Ajima, T. Jayakumar, A. Vennila, S. M. Raut, 2017. Isolation and characterization of phenanthrene- degrading bacteria from PAHs contaminated mangrove sediment of Thane creek in Mumbai, India. *Polycyclic Aromatic Compounds*, DOI: 10.1080/10406638.2016.1261911.

Malachy N. O. Ajima, **P. K. Pandey**, Kundan Kumar, Nalini Poojary, 2016. Assessment of mutagenic, hematological and oxidative stress biomarkers in liver of Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758) in response to sublethal verapamil exposure. *Drug and Chemical Toxicology* ,DOI: 10.1080/01480545.2016.1219914.

Saurav Kumar, T. Sathish Kumar, R. Vidya, and **P. K. Pandey**, 2016. A prospective of epidemiological intervention in investigation and management of argulosis in aquaculture. *Aquacul. Intern*, DOI: 0.1007/s10499-016-0030-0.

- Malachy N O Aiima, **PK Pandey**, Kundan Kumar, Nalini Poojary, MM, Mane, 2016. Lipid peroxidation and activities of antioxidant enzymes biomarkers in *Oreochromis niloticus* (Linnaeus, 1758) chronically treated with diclofenac (DCF). J. Exp. Zool. India, 19(2):671-676.
- R Vinothkumar, VS Bharti, A Vennila, H Sanathkumar, **PK Pandey**, 2016. Isolation and characterization of heterotrophic nitrifying- denitrifying bacteria from shrimp farming ponds. Ecology, Environment and Conservation, 22(1):281-285.
- R Arvind, V.S. Bharti, M. Rajkumar, **P K Pandey**, CS Purushothaman, A Vennila, SP Shukla, 2016. Efficacy of chelating agents in phytoremediation of cadmium using *Lemna minor* (Linnaeus, 1753). Nature Environment and Pollution Technology 15(2): 509-514.
- M. T. Shilta, Narinder Kumar Chadha, **P. K. Pandey** and Paramita Banerjee Sawant, 2015. Effect of biofilm on water quality and growth of *Etroplus suratensis* (Bloch, 1790). Aquacul. Internat., DOI10.1007/s10499-015-9956-x .
- Mallesh, B., **P. K. Pandey**, Kundan Kumar, A. Vennila and Saurav Kumar, 2015. Bioconcentration of hexavalent chromium in *Cirrhinus mrigala* (Ham 1822): Effect on haematological parameters. Journal of Biology and Earth Sciences, 5(1):59-67 .(New Name: European Journal of Biological Research)
- Rajkumar M., **P K Pandey**, R. Arvind, A. Vennila, V. Bharti, C.S. Purushothaman, 2015. Effect of different biofloc system on water quality, biofloc composition and growth performance in *Litopenaeus vannamei* (Boone, 1931). Aquaculture Research, doi:10.1111/are.12792.
- Sikendra Kumar, Chandra Prakash, N.K.Chadha, S.K. Gupta, K.K. Jain, M.M. Ghughuskar and **P.K. Pandey**, 2015. Effects of anthraquinone on growth and haemato-immunological responses of *Cirrhinus mrigala* (Hamilton, 1822) challenged with *Aeromonas hydrophila*. Proceedings of the National Academy of Sciences, Biological Sciences , DOI 10.1007/s40011-015-0609-7.
- Thirumalaiselvan S., **P. K. Pandey** and C. S. Purushothaman, 2015. Fipronil degrading bacteria from freshwater environment. Journal of the Inland Fisheries Society of India, 47(2):13-19.
- Jadhav S.V., Ghode G.S., Pathan D.I., Dhaker H.S., **Pandey P.K.** and Joshi H. D. 2015. Evaluation of some anesthetics for use In husbandry and transportation of Angelfish, *Pterophyllum scalare* (Schultze, 1823). Ecology, Environ. Conser., 21(4): 2099-2107.
- Lianthuamluaia, **Pandey P.K.**, Purushothaman C.S., Vennila A. and Zohmingthanga, 2015. Characterization of arsenic resistant bacteria from shallow tubewell and evaluation of their remediation capacity Nature Env. Poll. Tech., 14(1): 119-124.
- Mallesh B., **P. K. Pandey**, Kundan Kumar, A. Vennila, S. P. Shukla and Saurav Kum 2015. Bioconcentration of hexavalent chromium in different organs and induction of micronuclei in peripheral blood cells of *Cirrhinus mrigala* (Ham, 1822), Indian Journal of Animal Sciences, 85 (5): 92-96.

K Sukhdane, **Pandey P. K.**, Vennila A., Purushothaman C. S. and Ajima M. N. O., 2015. Sources and distribution of polycyclic aromatic hydrocarbons in the mangrove sediments of Thane creek, Maharashtra, India and their ecotoxicological significance Environ. Monit. Assess., 187(5): DOI 10.1007/s10661-015-4470-1.

P K Pandey, M S Laxmi, S Kumar, 2014. In vitro evaluation of natural and synthetic substrate for biofilm formation and their effect on water qualities Indian J. Anim. Res., 48 (6):585-592.

Pandey P. K., Bharti V. and Kumar K., 2014. Biofilm in aquaculture production Afr. J. Microbiol. Res. 8(13):1434-1443.

Kumar V., Kumar S., **Pandey P.K.**, Raman R.P., Prasad K. P., Roy S., Kumar A., and Kumar K., 2014. Growth and haemato-immunological response to dietary l-carrageenan in *Labeo rohita* (Hamilton, 1822) juveniles Israeli J. Aquacul. –Bamidgeh MSIJA 66.2013.971.

Sinha Archana and **P. K. Pandey**, 2013. Probiotic effect of a live bacterial isolate in nutrition of an Indian major carp, rohu (*Labeo rohita*) Indian J. Anim. Res. 47(6): 509-514.

S. Kumar, R. P. Raman, **P. K. Pandey**, S. Mohanty, A. Kumar and K. Kumar , 2013. Effect of orally administered Azadirachtin on non-specific immune parameters of goldfish *Carassius auratus* (Linn. 1758) and resistance against *Aeromonas hydrophila*. Fish and Shellfish Immunology 34(2):564-573.

R. Singh, R. Sharma, **P. K. Pandey** and C. S. Chaturvedi, 2013. Geospatial Mapping of Fisheries Profiles of Indo-Gangetic Plains of India through GIS Indian J. Anim. Res., 47(2): 113-119.

Abhay Kumar, R.P. Raman, Kundan Kumar, **P.K. Pandey**, Vikash Kumar, SnatashreeMohanty, Saurav Kumar, 2012. Antiparasitic efficacy of Piperine against *Argulus spp.* on *Carassius auratus* (Linn. 1758): *In vitro* and *In vivo* study Parasitol. Res. 111(5): 2071-2076

R. Singh, **P. K. Pandey**, N. Ram and C. S. Chaturvedi, 2012. Geospatial Mapping of Fisheries Profile of Andaman and Nicobar Islands of India through GIS Indian J. Anim. Res. 46(1): 1-7.

Saurav Kumar, R. P. Raman, Kundan Kumar, **P.K. Pandey**, Neeraj Kumar, B. Mallesh, Snatashree Mohanty, A. Kumar, 2012. Effect of azadirachtin on haematological and biochemical parameters of Argulus-infested goldfish *Carassius auratus* (Linn. 1758) Fish. Physiol. Biochem. doi:10.1007/s10695-012-9736-8.

S. Kumar, R. P. Raman, K. Kumar, **P. K. Pandey**, N. Kumar , S. Mohanty, A. Kumar, 2012. In vitro and in vivo antiparasitic activity of Azadirachtin against *Argulus spp.* in *Carassius auratus* (Linn. 1758) Parasitol. Res. 110(5): 1795-1800.

R. Singh, **P. K. Pandey** and A. Sinha, 2011. Geospatial mapping of fisheries profile of West Bengal of India through GIS
J. Agric. Sc. Tech. 1(8):1197-1204.

R. Singh, **P.K. Pandey**, R. Sharma and S.N. Ojha, 2010. Fisheries profile mapping of coastal districts of Maharashtra state through GISJ.
Indian Fish. Assoc.37:45-50.

Pandey. P. K. and N. Kumar, 2006. Occurrence of nitrogen fixing aerobic bacteria and *Azotobacter* spp. in a freshwater lake and a pond at Mumbai J. Inland Fish. Soc. India 38(2):14-19.

P. K. Pandey and N. S. Sreelu, 2006. Nitrogen-fixing aerobic bacteria and their nitrogenase activity in North Mumbai coastal waters J. Indian Fish. Assoc., 33: 95-102.

R. Singh, R. Sharma, R. S. Biradar, S. S. Salim, **P.K. Pandey** and A. Sharma, 2006. Mapping of the Indian Fisheries growth rate and fish consumption through GIS. J. Indian Fish. Assoc., 33: 191-196.

Pradeep B., **P. K. Pandey** and S. Ayyappan, 2004. Variations in bacterial biofilms with reference to nutrient levels
Asian J. Microbiol. Biotech. Env. Sc., 6 (4): 649-652.

Pradeep, B., **P. K. Pandey** and S. Ayyappan, 2003. Effect of probiotics and antibiotics on water quality and bacterial flora
J. Inland Fish. Soc. India 35(2): 63-67.

Pradeep B., **P. K. Pandey** and S. Ayyappan, 2003. Effects of probiotics and antibiotics on biofilms J. Indian Fish. Assoc., 30: 19-22.

Other publications			
Authors	Name of publication	Year and Number of pages	Publisher
P. K. Pandey, C. Vasudevappa, S. Ayyappan, Dilip Kumar and S. C. Mukherjee	The Sixth Indian Fisheries Forum Proceedings	2006, 1-210	Asian Fisheries Society (Indian Branch) and Indian Fisheries Association
S. C. Mukherjee, C. S. Purushothaman, W. S. Lakra, S. K. Chakraborty, K. P. Prasad, K. Venkateshvaran, K. V. Rajendran, A. K. Pal and P. K. Pandey	Souvenir, The sixth Indian Fisheries Forum	2002, 1-230	Asian Fisheries Society (Indian Branch) and Indian Fisheries Association
S. C. Mukherjee, C. S. Purushothaman, W. S. Lakra, S. K. Chakraborty, K. P. Prasad, K. Venkateshvaran, K. V. Rajendran, A. K. Pal and P. K. Pandey	Abstracts, The sixth Indian Fisheries Forum	2002, 1-150	Asian Fisheries Society (Indian Branch) and Indian Fisheries Association

S. C. Mukherjee, C. S. Purushothaman, , K. P. Prasad, P. K. Pandey, K. Venkateshvaran and K. V. Rajendran	Abstract, International symposium on Fish for Nutritional Security in the 21 st Century, CIFE, Mumbai 4-6 December 2001	200, 11-220	Indian Fisheries Associatio, Mumbai
N. K. Thakur and P. K. Pandey	Common carp prajanan avam palan	1998, 1-60	C.I.F.E., Mumbai
Vennila A., P. K. Pandey and S. P. Shukla	Advanced analytical techniques for aquatic environment	2011, 110	ICAR-CIFE. Mumbai
C. S. Purushothaman and P. K. Pandey	Aquatic Environment Management	2008, 105	ICAR-CIFE, Mumbai
C. S. Purushothaman and P. K. Pandey	Manual on Aquatic Microbiology	2004, 113	ICAR-CIFE, Mumbai
P. K. Pandey and C. S. Purushothaman	Extremophiles associated with aquatic environment <i>In: Bioresource Management and Climate Change</i>	2010, 61-80	Studium Press, New Delhi
C. S. Purushothaman and P. K. Pandey	Aquatic pollution <i>In: Handbook of Fisheries and Aquaculture</i>	2006, 347-367	Indian Council of Agricultural Research, New Delhi
C. S. Purushothaman and P. K. Pandey	Biogeochemical Cycle of Phosphorus in Aquatic Environment. <i>In: Trends in Biodiversity and Aquaculture</i> (eds. A. Wanganeo and R. K. langer)	2006, 101-129	Daya Publishing House, Delhi
S. Ayyappan , P. K. Pandey and C. S. Purushothaman	Microbes in Aquaculture. <i>In: Microbial Diversity: Current Perspectives and Potential Applications</i> (eds. T. Satyanarayan and B. N. Johari)	2005, 585-598	Delhi University, Delhi
P. K. Pandey and S. Ayyappan	Bioremediation in Aquaculture. <i>In: Biotechnology in Environmental Management</i> (ed. G. R. Pathade& P. K. Goel)	2004, 319-338	ABD Publishers, Jaipur
P. K. Pandey and C. S. Purushothaman	Biodiversity of Cyanophytes and Bacteria associated with Nitrogen Cycling in the Marine Environment. <i>In: Aquatic Biodiversity: Scenario 1</i> (ed., D. R. Khanna, A. K. Chopra & G. Prasad)	2004, 14-25	Discovery Publishing House, Delhi.
S. Ayyappan and P. K. Pandey	Fish Farming in Recovered Water- Challenges and Opportunities for Restoration of River Systems. <i>In: Soil Biotechnology,</i>	2002, 33-40	IIT Bombay, Mumbai
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