


## PERSONAL DETAILS

<b>Name</b>	Dr. Pavan Kumar Dara	
<b>Date and place of birth</b>	14-10-1988 Kadapa, Andhra Pradesh	
<b>Father's Name</b>	Obulesu Dara	
<b>Details for Communication</b>	<u>Present:</u> Research Associate; Biochemistry & Nutrition Division ICAR-Central Institute of Fisheries Technology, Willingdon Island; Matsyapuri P.O Cochin – 682029; Kerala; India <u>Permanent:</u> 1/1824; Appa Rao Buildings Y.M.Palli; Gandhi Nagar P.O Kadapa-516004; Andhra Pradesh; India +91-9440030011	
<b>Telephone &amp; Email</b>	pavankumardara@hotmail.com pavankdara@gmail.com	
<b>Research ID</b>	AAD-6814-2021	
<b>Orcid ID</b>	0000-0001-9784-6288	

## EDUCATIONAL QUALIFICATIONS

Degree	University/Institution	Year	Class
SSC/10 <sup>th</sup> /Matriculation	Board of Secondary Education	2003	First

Intermediate	Board of Intermediate Education	2005	First
Bachelor of Science (B.Sc.)	Sri Krishnadevaraya University	2009	First
Biotechnology; Biochemistry; Chemistry	Anantapur, Andhra Pradesh		
Master of Science (M.Sc.)	SRM University	2011	First with Distinction
Biotechnology	Chennai, Tamil Nadu		
Doctor of Philosophy (Ph.D.)	Mangalore University	2018	First
Biosciences	Mangalore, Karnataka		

## DETAILS OF PhD

<b>Title</b>	Extraction and characterization of proteases from digestive tract of freshwater fish and their application in the preparation of bioactive peptides from fish skin gelatin
<b>Research Supervisor</b>	Dr. B. A. Shamasundar Former Prof. and Head, Dept. of Fish Processing Tech., College of Fisheries, Mangalore
<b>Year of Award</b>	Dec 27, 2018

## AREA OF SPECIALIZATION

Biochemistry	Protein Chemistry/Process Biochemistry
Biotechnology	Molecular Biology/Immunology/ Nanotechnology

**EMPLOYMENT RECORD**

<b>Position held</b>	<b>Institution</b>	<b>Period</b>
Assistant Professor (Temporary)	KSRM College of Engineering Kadapa, Andhra Pradesh	11.09.2011 – 07.01.2013
Research Associate	ICAR-Central Institute of Fisheries Technology, Kochi	17.12.2018 – Till-to- date

**REFEREES**

Dr. B.A. Shamasundar  
Former Head and Professor  
Dept. of Fish Processing Technology  
College of Fisheries,  
Mangaluru, Karnataka  
+91-9448250057  
bashamasundar@rediffmail.com

Dr. R. Anandan  
Principal Scientist & ICAR  
National Fellow  
ICAR-CIFT, Kochi  
Kerala  
+91-8129219972  
kranandan@rediffmail.com

Dr. Sankari.D  
Head of the Department  
Department of Biotechnology  
SRM University, Tamil Nadu  
+91-9884145827  
sankari.biotech09@gmail.com  
sankarid@srmist.edu.in

Dr. K. Elavarasan  
Scientist  
ICAR-CIFT, Kochi  
Kerala  
+91-9446147131  
elafishes@gmail.com

**AWARDS/FELLOWSHIP**

UGC Fellowship received for the period 2013 To 2018

## PUBLICATIONS

1	Niladri Sekhar Chatterjee, Hema Girija Sukumaran, <b>Pavan Kumar Dara</b> , Balaraman Ganesan, Muhamed Ashraf, Rangasamy Anandan, Suseela Mathew, Ravishankar Chandragiri Nagarajao (2022). Nano-encapsulation of curcumin in fish collagen grafted succinyl chitosan hydrogel accelerates wound healing process in experimental rats. <i>Food Hydrocolloids for Human Health</i> . <a href="https://doi.org/10.1016/j.fhfh.2022.100061">https://doi.org/10.1016/j.fhfh.2022.100061</a>
2	Divya K Vijayan, PR Sreerekha, <b>Pavan Kumar Dara</b> , Ganesan B, S Mathew, R Anandan, CN Ravisankar (2021). Gastro-Protective Effect of Fish Collagen Peptides (FCP) Against Hydrochloric Acid-Ethanol Induced Gastric Ulcer in Experimental Rats. <i>Cell Stress and Chaperones</i> . <a href="https://doi.org/10.1007/s12192-021-01245-x">https://doi.org/10.1007/s12192-021-01245-x</a> (IF: 3.6)
3	<b>Pavan Kumar Dara</b> , Mahadevan Raghavankutty, Karthik Deekonda, Anil Kumar Vemu, S Visnu vinayagam, Suseela Mathew, Rangasamy Anandan, Ravishankar Chandragiri Nagarajao, Senthilkumar Subramanian (2021). Synthesis of biomaterial-based hydrogels reinforced with Cellulose nanocrystals for biomedical applications. <i>International Journal of Polymer Science</i> . <a href="https://doi.org/10.1155/2021/4865733">https://doi.org/10.1155/2021/4865733</a> (IF: 2.642)
4	<b>Pavan Kumar Dara</b> , Mahadevan Raghavankutty, GK Sivaraman, Suseela Mathew, Chandragiri Nagarajao Ravishankar, Rangasamy Anandan. (2021). Biomodulation of poly (vinyl alcohol)/starch polymers into composite-based hybridised films: physico-chemical, structural and biocompatible characterization. <i>Journal of Applied Polymer Science</i> . 28(7), 1-12. <a href="https://doi.org/10.1007/s10965-021-02578-y">https://doi.org/10.1007/s10965-021-02578-y</a> (IF: 3.125)
5	<b>Pavan Kumar Dara</b> , Mahadevan Raghavankutty, Ganesan Balaraman, Muhamed Ashraf, Suseela Mathew, CN Ravishankar, Rangasamy Anandan. (2021). Histopathological and Biocompatible evaluation of chitosan nanoparticles-grafted fish gelatin-based bio-nanocomposite membranes. <i>Iranian Polymer Journal</i> . 30, 953–964. <a href="https://doi.org/10.1007/s13726-021-00947-4">https://doi.org/10.1007/s13726-021-00947-4</a> (IF: 1.899)
6	Divya K Vijayan, PR Sreerekha, <b>Pavan Kumar Dara</b> , M Rosemol Jacob, Suseela Mathew, R Anandan, CN Ravisankar (2021). In vivo anti-lipidemic and antioxidant potential of collagen peptides obtained from great hammerhead shark skin waste. <i>Journal of Food Science and Technology</i> . 59, 1140–1151. <a href="https://doi.org/10.1007/s13197-021-05118-0">https://doi.org/10.1007/s13197-021-05118-0</a> (IF: 2.701)
7	Niladri Sekhar Chatterjee, <b>Pavan Kumar Dara</b> , P R Sreerekha, Divya K Vijayan, Suseela Mathew, Chandragiri Nagarajao Ravishankar, Rangasamy Anandan.

	(2021). Nanoencapsulation in low-molecular-weight chitosan improves in vivo antioxidant potential of black carrot anthocyanin. <i>Journal of Science of Food and Agriculture</i> . 101(12), 5261-5271. <a href="https://doi.org/10.1002/jsfa.11175">https://doi.org/10.1002/jsfa.11175</a> (IF: 3.638)
8	P R Sreerekha, <b>Pavan Kumar Dara</b> , Divya K Vijayan, Niladri Sekhar Chatterjee, Mahadevan Raghavankutty, Suseela Mathew, Chandragiri Nagarajao Ravishankar, Rangasamy Anandan. (2021). Dietary Supplementation of Encapsulated Anthocyanin Loaded-Chitosan Nanoparticles attenuates Hyperlipidemic aberrations in male Wistar rats. <i>Carbohydrate Polymer Technologies and Applications</i> . 2, 100051 <a href="https://doi.org/10.1016/j.carpta.2021.100051">https://doi.org/10.1016/j.carpta.2021.100051</a>
9	R. Jayarani, Niladri S. Chatterjee, R. G. K. Lekshmi, <b>Pavan Kumar Dara</b> , R. Anandan. (2021). Fucoxanthin Content and Antioxidant Activity in Supercritical CO <sub>2</sub> , Enzymatic and Natural Hydrophobic deep Eutectic Solvent Extracts of Sargassum wightii Seaweed. <i>Fishery Technology</i> 58 (2021): 155 - 159
10	<b>Pavan Kumar Dara</b> , Krishnamoorthy Elavarasan, Bangalore Aswathnarayan Shamasundar, Rangasamy Anandan, Suseela Mathew, Ravishankar Chandragiri Nagarajao. (2021). Angiotensin I-converting enzyme (ACE) inhibitory and Antioxidant peptides from sea food processing waste. <i>Fishery Technology</i> , 58 (2021): 133 - 142
11	<b>Pavan Kumar Dara</b> , Anjana Geetha, Upasana Mohanty, Mahadevan Raghavankutty, Suseela Mathew, Chandragiri Nagarajao Ravishankar, Rangasamy Anandan. (2020). Extraction and Characterization of Myofibrillar Proteins from Different Meat Sources: A Comparative Study. <i>Journal of Bioresources and Bioproducts</i> , 6 (4), 367-378. <a href="https://doi.org/10.1016/j.jobab.2021.04.004">https://doi.org/10.1016/j.jobab.2021.04.004</a>
12	Sreerekha P R, <b>Pavan Kumar Dara</b> , Divya K Vijayan, Niladri Sekhar Chatterjee, Mahadevan Raghavankutty, Suseela Mathew, CN Ravishankar, R Anandan. (2020). Anti-ulcerogenic potential of anthocyanin - loaded chitosan nanoparticles against Alcohol-HCl induced Gastric ulcer in rats. <i>Natural Product Research</i> , 36 (5), 13.6-1310. <a href="https://doi.org/10.1080/14786419.2020.1860041">https://doi.org/10.1080/14786419.2020.1860041</a> (IF: 2.861)
13	Edakkukaran Sudhakaran Sumi, <b>Pavan Kumar Dara</b> , Rosemol Jacob Mannuthy, Balaraman Ganesan, Rangasamy Anandan, Suseela Mathew. (2020). Antioxidant and hepatoprotective property of squalene for counteracting the oxidative damage induced by methotrexate in experimental rats. <i>Acta Biologica Szegediensis</i> . 64(2):111-120. <a href="https://doi.org/10.14232/abs.2020.2.199-206">https://doi.org/10.14232/abs.2020.2.199-206</a> (IF: 0.571)
14	<b>Pavan Kumar Dara</b> , K Elavarasan & B A Shamasundar. (2020). Improved Utilization of Croaker Skin Waste and Freshwater Carps Visceral Waste: Conversion of Waste to Health Benefitting Peptides. <i>International Journal of Peptide</i>

	<i>Research and Therapeutics</i> . 26, 2641–2651. <a href="https://doi.org/10.1007/s10989-020-10053-3">https://doi.org/10.1007/s10989-020-10053-3</a> (IF: 1.931)
15	<b>Pavan Kumar Dara</b> , Mahadevan Raghavankutty, Nomy Sebastian, Niladri Sekhar Chatterjee, Suseela Mathew, CN Ravishankar, Rangasamy Anandan. (2020). Rheological, Physico-chemical and functional properties of gelatin extracted from Bigeye tuna ( <i>Thunnus obesus</i> ) skin waste. <i>Journal of Aquatic Food Product Technology</i> . 29(5), 428-444. <a href="https://doi.org/10.1080/10498850.2020.1749745">https://doi.org/10.1080/10498850.2020.1749745</a> (IF: 1.767)
16	<b>Pavan Kumar Dara</b> , K Elavarasan & Bangalore Aswathnarayan Shamasundar. (2020). Characterization of antioxidant and surface-active properties of gelatin protein hydrolysates obtained from croaker fish skin. <i>International Aquatic Research</i> . 12:116-126 <a href="https://doi.org/10.22034/IAR(20).2020.1892203.1006">https://doi.org/10.22034/IAR(20).2020.1892203.1006</a> (IF: 0.984)
17	<b>Pavan Kumar Dara</b> , R. Mahadevan, Digita P. A. S. Visnuvinayagam Lekshmi R. G. Kumar, Suseela Mathew, C.N. Ravishankar, R. Anandan. (2020). Synthesis and biochemical characterization of silver nanoparticles grafted chitosan (Chi-Ag-NPs): In vitro studies on antioxidant and antibacterial applications. <i>SN Applied Sciences</i> . 2(4), 665. <a href="https://doi.org/10.1007/s42452-020-2261-y">https://doi.org/10.1007/s42452-020-2261-y</a>
18	<b>Pavan Kumar, D.</b> , Chandra. M.V., Elavarasan, K., & Shamasundar, B. A. (2018). Structural properties of gelatin extracted from croaker fish ( <i>Johnius sp</i> ) skin waste. <i>International Journal of Food Properties</i> , 1-14, VOL. 20, NO. S3, S2612–S2625. <a href="https://doi.org/10.1080/10942912.2017.1381702">https://doi.org/10.1080/10942912.2017.1381702</a> (IF: 2.727)
19	<b>Pavan Kumar, D.</b> , Elavarasan, K., & Shamasundar, B. A. (2017). Functional properties of gelatin obtained from croaker fish ( <i>Johnius sp</i> ) skin by rapid method of extraction. <i>International Journal of Fisheries and Aquatic Studies</i> , 5(2), 125-129.
20	<b>Pavan Kumar, D.</b> , Elavarasan, K., & Shamasundar, B. A. (2017). Isolation of Crude Proteases from Freshwater Fishes <i>Catla catla</i> and <i>Labeo rohita</i> : Optimizing the Hydrolysis Conditions of Crude Proteases. <i>International Journal of Pure and Applied Bioscience</i> , 5(1), 667-673.
21	<b>Pavan Kumar. D</b> & D. Sankari. Detection of Autoantibodies in Lada patients and their siblings and HLA Typing of these patients (2013). <i>International Journal of Pure Applied Biosciences</i> 1 (4): 42-50.
22	Sivam Visnuvinayagam, <b>Pavan Kumar Dara</b> , Rangasamy Anandan. (2022). Nanoparticle approach towards the control of AMR. Handbook on Antimicrobial Resistance: Current Status, Trends in Detection and Mitigation Measures. <b>(Under Review)</b> Book Chapter

(PAVAN KUMAR DARA)