Curriculum Vitae

Dr. P. Jayamurthy
Scientist
Agroprocessing & Natural Products Division
CSIR-National Institute for Interdisciplinary Science & Technology, CSIR
Industrial Estate, Pappanamcode, Trivandrum, Kerala. PIN: 695 019
Mob:09746459990, Email: jayamurthy@live.com, pjayamurthy@niist.res.in

Education (Post-Graduation onwards & Professional Career)

Sl No.	Institution/Place	Degree Awarded	Year	Field of Study
1	Bharathidasan University, Trichy	MSc	2002	Biochemistry
2	Defence Institute for Physiology & Allied Sciences, DRDO, Delhi (Bharathiar University, Coimbatore)	PhD	2009	Biochemistry

Position and Employment (Starting with the most recent employment)

Sl No.	Institution/Place	Position	From (Date)	To (date)
1	NIIST CSIR, Trivandrum	Scientist C	Nov 2010	Present
2	NIIST CSIR, Trivandrum	Scientist B	Nov 2007	Nov 2010
3	DRDO-DIPAS, Delhi	Research Fellow	Mar 2003	Mov 2007

Research Interests

Neutraceuticals, Phytomedicine & Phytochemistry; Cell culture studies & bioinstrumentation; Oxidative stress and diabetes mellitus; Pharmacological & Toxicological evaluation of natural products; Fluorescence based macromolecule/cell imaging

Research Supervision

M. Sc. Students Trained : 10

Ph. D. Awarded : 1

Ph. D. Ongoing : 3

Selected peer-reviewed publications

K. B. Arun, P. Jayamurthy, C. V. Anusha, S. K. Mahesh and P. Nisha. Studies on activity guided fractionation of pomegranate peel extracts and its effect on antidiabetic and cardiovascular protection properties. Journal of Food Processing and Preservation; 2016; Doi:10.1111/Jfpp.13108

Palapuravan Anees, Karivachery V. Sudheesh, Purushothaman Jayamurthy, Arunkumar R. Chandrika, Ramakrishnapillai V. Omkumar and Ayyappanpillai Ajayaghosh. A protein–dye hybrid system as a narrow range tunable intracellular pH sensor. Chemical Science; 2016; DOI: 10.1039/C6SC02659A

Arun KB, Chandran J, Dhanya R, Krishna P, Jayamurthy P, Nisha P. A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato. Food Biosci. Elsevier; 2015;9: 36–46.

Arun KB, Persia F, Aswathy PS, Chandran J, Sajeev MS, Jayamurthy P, et al. Plantain peel-a potential source of antioxidant dietary fibre for developing functional cookies. J Food Sci Technol. Springer India; 2015; 1–10.

Dhanya R, Arun KB, Nisha VM, Syama HP, Nisha P, Kumar TRS, et al. Preconditioning L6 Muscle Cells with Naringin Ameliorates Oxidative Stress and Increases Glucose Uptake. PLoS One. Public Library of Science; 2015;10.

Dhanya R, Arun KB, Syama HP, Nisha P, Sundaresan A, Santhosh Kumar TR, et al. Rutin and quercetin enhance glucose uptake in L6 myotubes under oxidative stress induced by tertiary butyl hydrogen peroxide. Food Chem. Elsevier; 2014;158: 546–554.

Janu C, Kumar DR, Reshma M V, Jayamurthy P, Sundaresan A, Nisha P. Comparative Study on the Total Phenolic Content and Radical Scavenging Activity of Common Edible Vegetable Oils. J Food Biochem. Wiley Online Library; 2014;38: 38–49.

Jayamurthy P, Aparna B, Gayathri G, Nisha P. Evaluation of antioxidant potential of inflorescence and stalk of plantain (*Musa Sapientum*). J Food Biochem. Wiley Online Library; 2013;37: 2–7.

Janu C, Padmakumari Amma KP, Nirmala Menon A, Jayamurthy P, Nisha P. Effect of enzyme assisted extraction on quality and yield of volatile oil from black pepper and cardamom. Springer; 2012;

Reshma M V, Kiran CR, Nisha P, SobanKumar DR, Sundaresan A, Jayamurthy P. Trans fat content in labeled and unlabelled Indian bakery products including fried snacks. Int Food Res J. 2012;19.

Sreejith S, Divya KP, Jayamurthy P, Mathew J, Anupama VN, Philips DS, et al. Heteroaromatic donors in donor–acceptor–donor based fluorophores facilitate zinc ion sensing and cell imaging. Photochem Photobiol Sci. Royal Society of Chemistry; 2012;11: 1715–1723.

Sasidharan I, Sundaresan A, Nisha VM, Kirishna MS, Raghu KG, Jayamurthy P. Inhibitory effect of *Terminalia chebula* Retz. fruit extracts on digestive enzyme related to diabetes and oxidative stress. J Enzyme Inhib Med Chem. Informa Healthcare London; 2012;27: 578–586.

Shukla D, Saxena S, Purushothaman J, Shrivastava K, Singh M, Shukla S, et al. Hypoxic preconditioning with cobalt ameliorates hypobaric hypoxia induced pulmonary edema in rat. Eur J Pharmacol. Elsevier; 2011;656: 101–109.

Jayamurthy P, Suryakumar G, Shukla D, Jayamurthy H, Kasiganesan H, Kumar R, et al. Modulation of hypoxia-induced pulmonary vascular leakage in rats by seabuckthorn (Hippophae rhamnoides L.). Evidence-Based Complement Altern Med. Hindawi Publishing Corporation; 2011;2011.

Divya KP, Sreejith S, Balakrishna B, Jayamurthy P, Anees P, Ajayaghosh A. A Zn2+-specific fluorescent molecular probe for the selective detection of endogenous cyanide in biorelevant samples. Chem Commun. Royal Society of Chemistry; 2010;46: 6069–6071.

Sreejith S, Jayamurthy P, Aneesa P, Ajayaghosh A. A Zn 2-specific fluorescent molecular probe for the selective detection of endogenous cyanide in biorelevant samples. Chem Commun. 2010;46: 6069–6071.

Shukla D, Saxena S, Jayamurthy P, Sairam M, Singh M, Jain SK, et al. Hypoxic preconditioning with cobalt attenuates hypobaric hypoxia-induced oxidative damage in rat lungs. High Alt Med Biol. Mary Ann Liebert, Inc. 140 Huguenot Street, 3rd Floor New Rochelle, NY 10801-5215 USA; 2009;10: 57–69.

Geetha S, Basu M, Jayamurthy AS, Malhotra AS, Pal K, Prasad R, et al. Protective and therapeutic potentials of seabuckthorn (*Hippophae rhamnoides* L.). Seabuckthorn (Hippophae L) a Multipurp wonder plant. Daya Books; 2008;3: 245.

Geetha S, Jayamurthy P, Pal K, Pandey S, Kumar R, Sawhney RC. Hepatoprotective effects of sea buckthorn (*Hippophae rhamnoides* L.) against carbon tetrachloride induced liver injury in rats. J Sci Food Agric. Wiley Online Library; 2008;88: 1592–1597.

Nisha P, Abdul Nazar P, Jayamurthy P. A comparative study on antioxidant activities of different varieties of *Solanum melongena*. Food Chem Toxicol. Elsevier; 2009;47: 2640–2644.

Jayamurthy P, Suryakumar G, Shukla D, Malhotra AS, Kasiganesan H, Kumar R, et al. Modulatory effects of seabuckthorn (*Hippophae rhamnoides* L.) in hypobaric hypoxia induced cerebral vascular injury. Brain Res Bull. Elsevier; 2008;77: 246–252.

Basu M, Prasad R, Jayamurthy P, Pal K, Arumughan C, Sawhney RC. Anti-atherogenic effects of seabuckthorn (*Hippophaea rhamnoides*) seed oil. Phytomedicine. Elsevier; 2007;14: 770–777.

Research Support

Ongoing Research Projects (currently involved)

Sl No.	Title of Project	Funding Agency	Date of sanction & Duration
1	Bio-prospecting of two coded anti-diabetic medicinal plants based on ethnomedical leads- A Molecular Pharmacological Approach.	DBT-JNTBGRI	Jun 2015, 3 years
2	Fluorescent probes for biosensing applications	DBT	Nov 2013, 3 years

Awards:

- **KSCSTE YOUNG SCIENTIST AWARD 2016** in Health Sciences

Place : Trivandrum **Jayamurthy**