

CURRICULUM VITAE

Dr. UMALATHA

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Career Objective:

To work for an organization where I can put my functional, technical and creative skills to achieve organizational goal and continuously strive to learn new arts in pursuance of an objective of becoming a competent professional and to build a promising career.

Educational Credentials

SI No	DEGREE	UNIVERSITY	YEAR OF PASSING	SPECIALIZATION
1	PhD	Kuvempu University	2013	Biochemistry
2	MSc	Kuvempu University	1999	Biochemistry
3	BSc	Kuvempu University	1997	Chemistry, Botany, Zoology

Additional Qualification

- Qualified in the Karnataka State Lectureship Eligibility Test (**KSET**) 2013.
- Diploma in Advanced Computer Studies from Bhartiya Academy of Linguistics and Communication 2010.
- Msc Chemistry (Correspondence) From Kuvempu University 2017.
- Qualified trainer for Life science skill sector council, National Skill Development Board 2018
- MVOC food processing and Nutraceuticals From Bangalore university 2019

Professional Synopsis

- Possess 10 years research work experience in enzymology and nutrition laboratories.
- Possess 3 years work experience in industries.
- Possess 5 years work experience in teaching
- Secured a grant from DST in Women scientist B scheme in 2018 for 3years

Career Highlights

- Working as Associate Professor in Department of Biochemistry at Padmashree Institute of Management and Sciences, Kommagatta Post, Kengeri Hobli, Bangalore from 12/4/2017
- Worked as a Senior Research Fellow in the DBT funded Research Project Entitled 'Production of plant sourced mannan oligosaccharide for improving the productivity of freshwater aquaculture' at Regional Research Centre, Central Institute of Freshwater Aquaculture, Bangalore from 4th April 2016 to 11th April 2017
- Worked as a Senior Research Fellow in the DBT funded Research Project Entitled "Periphyton Enhancement – a Sustainable Technology for Efficient Nutrient Utilization in Seed Rearing and Grow - out Culture of Carps with Special Reference to the peninsular Carp *Labeo fimbriatus*" at Regional Research Centre, Central Institute of Freshwater Aquaculture, Bangalore from 15th January 2013 to 15th March 2016
- Worked as a Technical Officer in Bio-Control Research Laboratories (Pest Control India Pvt. Ltd), Bangalore from 1st July 2009 to 9th May 2011.
- Worked as a Assistant professor in Kaveri college Mysore from 21st August 2007 to 30th June 2009
- Worked as Senior Research Fellow in the AP Cess Fund Project Entitled "Kinetics of Macro Molecular Cleavage in Relation to Nutrient availability in the Peninsular Carp *L. fimbriatus*" at Regional Research Centre, Central Institute of Freshwater Aquaculture, Bangalore from 20th May 2004 to 20th August 2007.
- Worked as a Lecturer in Kaveri college from 2nd August 2002 to 19th May 2004, Bangalore
- Worked as a Senior Research Fellow under the Project "Improving the Utilization of coarse cereal crop residues by strategic supplementation for livestock feeding" at National Institute of Animal Nutrition and Physiology, Adugodi, Bangalore from 8th August 2001 to 1st

August 2002.

- Worked as a Junior Research Fellow under the Project “Micro nutrient status in feeds, fodders, soil, water, and blood in different agro climatic zones of Karnataka” at National Institute of Animal Nutrition and Physiology, Adugodi, Bangalore from 21st March 2001 to 7th August 2001.
- Worked as Chemist in Soya Good Rich Private Ltd, Shimoga from 1st April 2000 to 22nd March 2001

Analytical skills

- Isolation, purification, characterization and kinetics of fish digestive enzymes.
- Proximate composition analyses of feeds, fodders and fish carcass.
- *In vitro* and *In vivo* digestibility of feeds and fodder.
- Estimation of micronutrients in feeds, fodder, blood, water and soil.
- Estimation of amino acids in feed and fodder.
- Synthesis of Pheromones and its intermediates.
- Estimation of Chlorophyll content of Plankton and Periphyton.
- Enumeration of Plankton.
- Conducting growth trials with carps including water quality analyses.
- Phytochemical analysis of Medicinal plants

Technical skills

- Used the analytical equipment's like UV-Vis Spectrophotometer, Atomic absorption Spectrophotometer, Automatic Nitrogen analyzer, High pressure liquid chromatography, Gas chromatography, Spray dryer etc.
- Experience in carrying out Ultra filtration, Gel filtration, Ion exchange chromatography, Electrophoresis (NATIVE and SDS-PAGE), Adsorption chromatography, Distillation and Proximate analysis.
- Undergone training on Biological Specimen preparation for transmission electron microscopy (TEM) Microwave processing for TEM, Negative staining, Dissection of mouse brain, Isolation of brain mitochondria, Histochemistry techniques- cryo sectioning,

Haemotoxylin and eosin staining, Modified Gomori Trichrome staining (MGT), Enzyme histo chemistry-Staining for SDH, COX, COX-SDH, Assay for mitochondrial complex-1 activity and Ultramicrotomy.

Computer Skills

- Windows 2000, MS Office, MS Word, MS Excel, MS PowerPoint, Internet and Browsing, statistical analysis.

Trainings and Conferences attended

- Secured Second prize for Poster presentation in Bengaluru Tech Summit 2020 for the poster entitled Purification and characterization of trypsin from the visceral waste of *Labeo rohita* for Utilization in biotech industry.
- Resource person for national Level faculty development program on Strengthening Quality Research in higher Education from July 19th 2019 to 24th July 2019 organized by BiSEP and K- tech at Padmashree Institute of Management and Sciences.
- Attended a 12 days Faculty Development Program organized by Biocon Academy from July 1st 2019 to July 12th 2019 at Biocon.
- Attended a training of trainer program on Nutrition & health education conducted by the community Food and Nutrition Extension unit, Bangalore Food and Nutrition Board, Ministry of Women & Child Development, Government of India, at IIHMR, Bangalore from 24th to 28th June 2019.
- Attended the hands on national work shop on skills and Strategies for a successful research career from 15th to 17th November at Padmashree Institute of Management and Sciences
- Attended the train the trainers program organized by National skill development council; Skilling in Life Sciences by Life Sciences Sector Skill Development Council; Integrating NSQF based Skilling and Vocational Education in Higher Education. held at Padmashree institute of Management and sciences on 24th to 27th July 2018
- Resource person for the Workshop on Nutraceuticals and Analytical methods conducted in Padmashree Institute of Management and Sciences Bangalore on 18-5-2018 To 19-5-2018.
- Attended a Seminar on Science Vocational Education Perspective of Industry and Academia

conducted in Bangalore University Bangalore on 22nd July 2018

- Participated as a poster presenter in the 19th IUFOST world congress of food science and Technology October 23rd to 27th 2018 at CIDCO Exhibition Centre, Mumbai India.
- Seminar on whatsapp foods-v4.0-towards a greener and sustainable future, January 11,2019, BCIC
- Undergone a 30days intensive, certificate course (Pre service teacher training) at Poornaprajna Institute of Faculty Improvement, Bangalore in the year 2016.
- Hands-on workshop in Neurochemistry and Electron Microscopy conducted by National Institute of Mental health and Neuro sciences (NIMHANS), Bangalore between 15 and 19th July, 2014.
- Global Animal Nutrition Conference 2014 on ‘Climate Resilient Livestock Feeding Systems for Global Food Security’ organized by National Institute of Animal Nutrition and Physiology, Bangalore between 20th -22nd April 2014.
- Seventh Indian Fisheries Forum, 19-22nd November 2005, University of Agricultural Sciences, Bangalore between 19th -22nd November 2005
- National seminar 2002 on ‘Prospectus of improvement in livestock feed manufacturing and usage’ organized by National Institute of Animal Nutrition and Physiology, Bangalore between 25th -26th April 2002.
- MITO Symposium on mitochondrial research – 2014 organized by National Institute of Mental health and Neuro sciences (NIMHANS), Bangalore on 20th July 2014.

Research Papers

- Chandrasekharaiah M., Sampath K.T., Praveen U.S. and **Umalatha** (2003) Evaluation of chemical composition and *in vitro* digestibility of certain commonly used concentrate ingredients and fodder/top feeds in ruminant rations. Indian Journal of Dairy and Biosciences, 13(2):28-35.
- Chandrasekharaiah M., Sampath K.T., Praveen U.S. and **Umalatha** (2004) Chemical composition and *in vitro* digestibility of certain commonly used feed stuffs in ruminant rations, Indian Journal of Dairy science, 57(2): 114-117. (**Received Best Research paper award**).
- Kushwaha J.P., Sridhar N., **Umalatha**, Kumar V., Prashanth H.P., Rangunath, M.R. and

Eknath A.E. (2012) Partial purification of amylases from the digestive tract of the Indian medium carp *Labeo fimbriatus* (Bloch, 1797), Israeli Journal of Aquaculture (Bamidgeh), 64: 686-693.

- M. R. Raghunath, H. Umalatha, N. Sridhar, K. Hemaprasanth, B. Gangadhar and P. Jayasankar (2015) Spoilage indices in chillstored rohu steaks extracted with different concentrations of Trichloroacetic acid. Fishery Technology 52 (42-47)
- **Umalatha**, Sridhar, N. Kushwaha, J.P. and Gangadhar, B. (2016). Digestive enzyme activities in different size groups and segments of the digestive tract in *Labeo rohita* (Day, 1878). Journal of Aquaculture and Marine Biology. 4(5):00098. DOI:10.15406/ Jamb. 2016.04.00098.
- Gangadhar, B., **Umalatha** H., Hegde G., Vasundhara R. and Sridhar N. (2017). Influence of commonly used manures on the growth and nutrient composition of periphyton. Insights in Aquaculture and Biotechnology. 1:1.
- Gangadhar, B., Sridhar, N., **Umalatha**, H., Ganesh, H., Simon, A.R.T. and Jayasankar, P. (2017). Digestibility and digestive enzyme activity in *Labeo fimbriatus* (Bloch, 1795) fed periphyton grown on sugarcane bagasse. Indian Journal of Fisheries 64(1): 37-43.
- Gangadhar, B., **Umalatha** H., Hegde G. and Sridhar N. (2017). Digestibility of dry matter and nutrients from *Azolla pinnata* by *Labeo calbasu* (Hamilton, 1822) with a note on digestive enzyme activity. Fishery Technology 54:94-99.
- Gangadhar, B., **Umalatha** H., Hegde G. and Sridhar N. (2017). Digestibility of dry matter and nutrients from three ingredients by the carps, *Labeo fimbriatus* and *Cyprinus carpio* with a note on digestive enzyme activity. Indian Journal of Fisheries.
- M. R. Raghunath*, N. Sridhar, K. Hemaprasanth, B. Gangadhar, B. S. Ananda Kumar, N. Rajesh, H. Umalatha, G. Hegde and P. Jayasankar. (2017) Carcass Characteristics of Farmed Medium Carp *Hypselobarbus pulchellus* (Day, 1878) Fishery Technology 54 (29-34)
- Gangadhar, B., Sridhar, N., **Umalatha**, H., Hegde, G., Jayasankar, P. (2018). Taxonomic and biochemical composition and digestive enzyme activity of periphyton and plankton: a comparative study. Proceedings of National Academy of Science, India, Sect. B Biological Sciences. DOI 10.1007/s40011-016-0805-0. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. (Apr–June 2018) 88(2):715–720
- T. Pullaiah, V. Damodar Reddy, Umalatha, Bennur Somashekharaiiah Rashmi (2019) Red

Sanders : Chemistry of Red Sanders In: Red Sanders: Silviculture and Conservation. Anuradha M, Balasubramanya S & Pullaiah T (Ed.), Springer, In press

- Umalatha and **M. Anuradha** 2019 Pests and Diseases of *Pterocarpus santalinus*; In: Red Sanders: Silviculture and Conservation. Anuradha M, Balasubramanya S & Pullaiah T (Ed.), Springer, In press
- Gangadhar B, . Sridhar N, . **Umalatha** H and S. S. Giri (2019) Effect of dietary carbohydrate levels on the growth of fingerlings of Carnatic carp *Barbodes carnaticus* (Jerdon 1849) Indian J. Fish., 66(3): 146-150,
- **Umalatha**, Sridhar, N. Jairam Prasad Kushwaha and Vadlapudi Kumar* (2020) Partial purification and characterisation of α -amylases from the digestive tract of the Indian major carp *Labeo rohita* (Hamilton, 1822) Indian J. Fish., 67(2): 62-68, 2020
- B. Gangadhar, H. **Umalatha** and K. Hemaprasanth (2021) Apparent digestibility of dried azolla powder incorporated diets in rohu *Labeo rohita* (Hamilton, 1822) Indian J. Fish., Indian Journal of Fisheries for the Indian Council of Agricultural Research. ISSN:0970-6011
- Gangadhar Barlaya, **Umalatha** Harish, Ganesh Hegde Sweta Pradhan, Shailesh Saurabh (2021) An account of periphyton, plankton and water quality in *Labeo fimbriatus* culture tanks provided with feed and sugarcane bagasse as periphyton substrate in two orientations. Journal of Applied Aquaculture. ISSN:1355-557XE-ISSN:1365-2109
- Gangadhar Barlaya, Harish **Umalatha**, Ganesh Hegde, Banahalli Sriramreddy Ananda Kumar & Channaveer Huchchappa Raghavendra (2021) Growth performance, carcass composition, and digestive enzyme activity of *Labeo fimbriatus* in tanks provided with feed and periphyton substrate in two orientations. Journal of Applied Aquaculture. ISSN:1045-4438E-ISSN:1545-0805

Abstracts

- Sridhar, N., **Umalatha**, Kushwaha, J.P., Raghunath, M.R., and Hema Prashanth K.P. (2005). Partial purification and characterization of digestive enzymes of the peninsular carp *Puntius Pulchellus*. In: Abstracts of Seventh Indian Fisheries Forum, University of Agricultural Sciences, Bangalore 19-22 November 2005. p. 25.
- **Umalatha**, Kushwaha, J.P., Sridhar, N., Raghunath, M.R., Hema Prashanth, K.P., and

Kumar, V. (2011). Purification & characterization of trypsin from the digestive tract of the rohu, *Labeo rohita*. . In: Gopalakrishnan, A. et al. (Eds) Renaissance in Fisheries: Outlook and Strategies. Book of abstracts, 9th Indian Fisheries forum, CMFRI, Kochi and AFS Indian Branch, 19-23 Dec. 2011. Chennai p. 38. p. 149.

- Sridhar, N., Raghunath, M.R., **Umalatha**, Giri, S.S., and Jayasankar, P. (2014) Effect of protein Feed ingredients on the availability of carbohydrates in the peninsular carp *Puntius pulchellus* – an *in vitro* study. In: Abstract Papers, Global Animal Nutrition Conference 2014 on ‘Climate Resilient Livestock Feeding Systems for Global Food Security’ organized by NIANP Bangalore, 20-22nd April 2014, p. 294.
- Gangadhar, B. Sridhar, N. Raghavendra, C.H. **Umalatha**, Santhosh, H.J., and Jayasankar, P. (2014). Performance of the fringe-lipped carp *Labeo fimbriatus* in nursery rearing under periphyton enhanced conditions. In: Abstract Papers, Global Animal Nutrition Conference 2014 on ‘Climate Resilient Livestock Feeding Systems for Global Food Security’ organized by NIANP Bangalore, 20-22nd April 2014, p. 239.
- Anuradha maniyam, Umalatha Harish Kumar, Balasubramanya subbanarasimhan (2018) Nutrafortification of *Trigonella foenum graecum* and *Centella asiatica* for enhanced iron and active principle content by adopting a novel patented technology 19th IUFoST world congress of food science and Technology October 23rd to 27th at Mumbai India

Personal Details

Name : Umalatha
Father’s Name : Shri Ram Krishanaapa
Husband’s Name : Shri Harish Kumar. P
Date of Birth : 4th April, 1976
Sex : Female
Permanent Address : # 51, 1st Floor, 3rd Stage,
4th Block, Shakthiganapathi Nagar,
6th Cross Road, Basaveshwarnagar
Bangalore -79
Languages Known : Kannada, English, and Hindi
Hobbies : Reading novels, Listening music.

References

- Dr M Anuradha, Principal
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Declaration

I hereby declare that all the information given is true to best of my knowledge.

Place: Bangalore

Date:

Signature

Umalatha

(Umalatha)