



Dr. M. S. Prashanth

M.Sc. (L.S. & Zoo), M.Ed., Ph.D. D.F.A.

PRINCIPAL

Sagar Gangotri College of Education,

(Affiliated to Kuvempu University, Shivamogga)

Ullur-577412. Sagar (Tal.),

Shimoga (Dist.) Karnataka, India

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Email: drmsp@rediffmail.com ; drmsprashant@gmail.com

Curriculum Vitae

Objectives

To contribute my research and teaching experiences in a challenging environments with my sound knowledge in Life sciences (**Aquatic Toxicology, Environmental Science, Biochemistry, Biotechnology, Biodiversity and Zoology**) willing to perceive a good carrier in an organization.

Present Working

Principal, Sagar Gangotri College of Education, (Affiliated to Kuvempu University)
Ullur- 577 412, Sagar (Tal.), Shimoga (Dist.) Karnataka from May 2017 to till today.

Education

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|------------------------|---|
| Ph.D. (Zoology) | : October 2003 Karnataka University, Dharwad-580001
<u>Specialization: Fish Biochemistry, Fish toxicology and Fishery Science & Rearing technology.</u> |
| Research Topic | : “Cypermethrin induced physiological, biochemical and histopathological changes in freshwater fish, <i>Cirrhinus mrigala</i> (Hamilton)”. |
| Pre-Ph.D. (Zoology) | : July 2001, I Class (80 %) (Aquatic Toxicology).
Karnataka University, Dharwad-580001 |
| M.Ed., | : June 2005, I Class (65.5 %)
Chhatrapati Shahu Ji Maharaj University, Kanpur UP |
| M.Sc., (Zoology) | : August 2009, I Class (63.8 %)
Kuvempu University, Jnana Sahyadri, Shankaraghatta-577 451. |
| M.Sc., (Life Science). | : May 1999, I Class (60 %)
Kuvempu University, Jnana Sahyadri, Shankaraghatta-577 451.
<u>Specialization: Environmental Pollution and Fishery Science</u> |
| B.Sc., | : May 1997, II Class (56.9 %) (Chemistry, Botany and Zoology)
Kuvempu University, Jnana Sahyadri, Shankaraghatta-577 451 |
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Teaching & Research Experience

Level of teaching	Subject taught	Duration of years
PUC (Biology)	Biodiversity, Ecology, Ecosystem, Development Biology, Cell Biology & Environmental Biology	2.0
B.Sc., (Botany & Zoology)	Zoology, Biotechnology and Microbiology	11.0
PG (Biochemistry & Environmental Science & Management)	Development Biology, Biodiversity, Natural Resources & their Management, Pollution, Industrial Biotechnology & Microbiology, Geonotoxicity, Toxicity, Nutrition and Physiology,	2.6

Teaching Experience (UG- 14.6 years & PG-02; PUC-01= total 17.6)

Sl. No.	Name of institutes/ University	Designation	Duration of Years		Total Years
			From	To	
1 (UG)	A.V.S. College of Education, GANTAKANIVE- 577 228 Tarekere (Tal.), Chikmagalur (Dist.)Karnataka, India	Assistant Professor/ Principal	June 2016	April 2017	1.0
2 (UG)	V. K. Chavan Patel Arts, Commerce and Science Senior College, KARVE -416507 Chandgad (Tal.), Kolhapur (Dist.) Maharashtra, India	Principal	August 2009	May 2016	7.0
3 (PG)	Dept. of PG Studies and Research In Biochemistry, 'Jana Sahyadri', Kuvempu University, Shankaraghatta, Karnataka, India	Full Time Lecturer (PG)	Dec. 2008	July 2009	1.0
4 (UG)	Department of Zoology, D.V.S. Arts and Science Senior College, Shimoga	Full Time Lecturer	June 2007	Nov. 2008	1.6
5 (PUC)	Dept. Biology, D.V.S. PU College (Independent), Shimoga-577 201 Karnataka, India.	Full Time Lecturer	August 2006	May 2007	1.0
6 (PG)	P.G. Dept. of Environmental Science and Management, Chh. Shashu Central Institute of Business Education and Research (SIBER) (Autonomous Institute), Kolhapur-416 004, Maharashtra, India	Full Time Lecturer (PG)	July 2005	May 2006	1.0
7 (UG)	Dept of Biology, J S S College for Women, Saraswathipuram, MYSORE, Karnataka, India	Full Time Lecturer	July 2004	March 2005	1.0
8 (UG)	Dept of Zoology, Karnataka Science College, Dharwad, Karnataka, India	Guest Lecturer	Sept. 1999	March 2003	4.0
TOTAL YEARS :					17.6

Research Experience: (As M.Sc., student: 1 year; as PhD scholar: 4 years; as UG & PG teacher & Researcher: 11 years)

	Dept. of Environmental Study Unite, National Institute Of Advanced Studies, Indian Institute of Science Campaus, Bangalore , INDIA	Research Associate (Assistant Professor Grade) PDF	May 2003	May 2004	1.0
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- 1 year (August 2005- June 2006) Worked in the World Bank funded project “Jalaswaraj Water Quality Testing Analysis” for Shindugura district. Project under taken by: Maharashtra, to dept of Environmental Science and Management, Chh. Shashu Central Institute of Business Education and Research. Kolhapur-416004, Maharashtra, India
- 1 Year (January 2003- May 2004) Worked as Research Assistant In DST, Govt. of India Project “A National Policy of Use and Misuse of Pesticides In India” In the Dept. of Environmental Studies Unit, National Institute of Advanced Studies, Indian Institute of Science Campus, Bangalore-560-012. Karnataka, India.
- 4 Years (July 1999- March 2003) as a Research Scholar in Karnataka University’s Research Laboratory, Dept. of Zoology, Toxicology Division, Karnataka Science College, Dharwad-580001. Karnataka, India.

Instruments Handled and Worked Experience

- Well acquitted with different techniques associated with pesticide Toxicity Evaluation laboratory (**Toxicity Evaluation** {Acute, Sub acute, long term and Reproductive studies, using oral, dermal and Inhalation route}, **Biochemistry, Histopathology** of tissues & **Enzymology**).

- Familiar with working of instruments such as **TOC (Total Organic Carbon), GLC (Gas Liquid Chromatography), Paper Chromatography, TLC (Thin Layer Chromatography), DV-Visible Spectrophotometer, AAS (Atomic Absorption Spectrophotometer), Flame Photometer, pH Meter, Colorimeter, Conductivity Meter, TDS Meter, DO Meter, Basic knowledge of Electrophoresis, etc.,**
- Field knowledge for environmental studies, sample collection methods and analysis.
- Well versed in modern techniques of Biochemical Estimation like Protein Metabolism, Ions and ATPase and Histopathological studies in Animal Tissues.

Book Published

Sl. No.	Name of Book	Publisher	Year	ISBN No.
1	Environmental Studies	Diamond Publications, Pune-	November, 2006	81-89724-57-6
2	Elements of Environmental Science	Prateekasha Publications, Jaipur-486	August, 2010	978-81- 909650-9-5
3	Environmental Biotechnology	Prateekasha Publications, Jaipur	June, 2011	978-93-80626- 17-8
4	Agricultural Biotechnology	Diamond Publications, Pune	In Press, 2013	

Research Publications (With Impact Factor)

1. Prashanth M S. (2012). Acute toxicity, behavioural and nitrogen metabolism changes of sodium cyanide affected on tissues of *Tilapia mossambica* (Peters). *Drug and Chemical Toxicology*, 35(2); 178-183; DOI: 10.3109/01480545.2011.589608 (Impact Factor: 1.653 – 2015/16).
2. **Prashanth M S**, N C. Hiragond and KN Nikam (2011). The effect of cypermethrin on different tissues of freshwater fish, *Tilapia mossambica* (Peters) *Journal of Basic and Clinical Physiology and Pharmacology*, 22(4):115-119. DOI 10.1515/JBCPP.2011.020 (Impact Factor: 1.770-2015 H.Index-23).
3. **Prashanth M S**, M David. (2009). Impact of Cypermethrin on Na⁺-K⁺, Ca²⁺ and Mg²⁺ ATPases in Indian Major Carp, *Cirrhinus mrigala* (Hamilton). *Bulletin of Environmental Toxicology and Contamination*, M, DOI 10.1007/s00128-009-9864 (Impact Factor: 1.590- 2014).
4. **Prashanth, M S.** (2007). Cypermethrin induced protein metabolism in the freshwater fish, *Cirrhinus mrigala* (Hamilton). *Journal of Basic and Clinical Physiology and Pharmacology*. 18(1): 49-63 (Impact Factor: 1.770-2015 H.Index-23).
5. **Prashanth, M S.** and S E Neelgund. (2007). Free cyanide-induced Biochemical changes in Nitrogen metabolism of the Indian major carp, *Cirrhinus mrigala*. *Journal of Basic and Clinical Physiology and Pharmacology*. 18(4): 277-287 (Impact Factor: 1.770-2015 H.Index-23).
6. Hosetti BB, Dube PN, **Prashanth MS** and Shwetha A. (2010). Acute toxicity of metal cyanides to Indian major carp, *Lebeo rothita* (Hamilton). *Biotechnology in Animal Husbandry*, 26 (3-4), 267-277 (Impact Factor: 1.667- 2015).
7. **Prashanth, M S** and M David. (2006). Changes in Nitrogen Metabolism of Freshwater Fish, *Cirrhinus mrigala* Exposed to Cypermethrin. *Journal of Basic and Clinical Physiology and Pharmacology*. 17(1): 63-70 (Impact Factor: 1.770-2015 H.Index-23).
8. **Prashanth, M S** David M and S.G. Mathad. (2005). Behavioural changes in freshwater fish, *Cirrhinus Mrigala* (Hamilton) exposed to cypermethrin. *J. Environ. Biol.*, 26(13); 141-144 (Impact Factor: 0.884 2015).
9. David M, S B Mushigeri and **M S Prashanth.** (2003). Nickel induced changes on some aspects of protein metabolism in the tissues of *Pila globosa*. *J. Environ. Biol.*, 24(1); 69-75 (Impact Factor: 0.884 2015).

Research Publications (With ISSN)

10. **MS Prashanth (2015)**. Cypermethrin Induced Gills Morphological changes in the Fresh Fish, *Cirrhinus mrigala*” *Literati Journal of Pharmaceutical Drug Delivery Technologies*. 13(1), 215-220. ISSN: 1634-0655.
11. Gavade Vasundhara Vithoba, **MS Prashanth & PS Kadam (2015)** “Physiological Studies In Pteridophytes of Lohgad Area, Pune, India” *Bio-Science Research Bulletin*; 31(1-2); 13-20. Print ISSN: 0970-0889. Online ISSN: 2320-316.
12. Hiragond NC, SY Gavade, KN Nikam, M S Prashanth & VV Ajagekar (2012), Some observations on avifauna along the Tamrapani river in Hallarwadi, Chandgad, Kolhapur. *Newsletter for Birdwatchers* 53(1), 3-5. **ISSN: 0028-9426. OCLC Number: 93699043.**
13. **Prashanth M S**. Observation on the histopathological alterations in liver of cypermethrin affected fish, *Cirrhinus mrigala* (Hamilton). *Indian Internet Journal of Forensic Medicine & Toxicology*, 11, 3&4; **July-December 2013. (Online ISSN: 0974 - 4487; Print: ISSN: 0973- 1970).**
14. Sheela D. Deshmukh, **M.S. Prashanth**, Salve R. N. (2011). UTILAZATION OF PRINT MEDIA FOR AGRICULTURE DEVELOPMENT; A case study of Peasants in Yalgud village, Hatkanangle Taluk, Kolhapur District. *International Multidisciplinary Research Journal*, 2, 1-6 (Online ISSN: 2231-6302).
15. **Prashanth M S**, HA Sayeswara and Mahesh Ananda Goudar. (2011). Sodium cyanide induced physiological changes in the freshwater fish, *Poecilia reticulata*. *Journal of Experimental Science*. 2(2), 27-31 (Online ISSN: 2218-1768).
16. **Prashanth M S**, & M David (2011). Histopathological Changes in the Intestine of Freshwater fish, *Cirrhinus mrigala* exposed to cypermethrin. *Internet Journal of Science & Technology*. 2 (2), 67- 73 (Online ISSN: 2146-7390).
17. **Prashanth M S**, HA Sayeswara and Mahesh Ananda Goudar. (2011). Effect of sodium cyanide on behaviour and respiratory surveillance in freshwater fish, *Labeo rohita* (Hamilton), *Recent Research in Science and Technology*, 3(2); 24 (Online ISSN: 2076-5061).
18. **Prashanth M S**. (2011). Histopathological changes observed in the kidney of freshwater fish, *Cirrhinus mrigala* (Hamilton) exposed to cypermethrin. *Recent Research in Science and Technology*, 3(2); 59-65 (Online ISSN: 2076-5061).

19. **Prashanth M S**, R. B. Nerli, Nandeshwar Patil, M. B. Nagmoti and M. B. Hiremath. (2011). Impact of biomedical wastes on health and their management. *Lifeline* (Journal of KLE'S Dr Prabhakar Kore Hospital & MCH), Issues XVIII September, 7-16. **ISSN** 0974-5475
20. **Prashanth M S**, HA Sayeswara and H S Ravikumar Pati. (2010). Impact of copper cyanide on behavioural changes and oxygen consumption in Indian major carp *Catla catla* (Hamilton), *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 9(9): 1433-1442 (Online ISSN: 1579-4377 H Index: 10).
21. **Prashanth, M S.** and S E Neelgund. (2008). Behavioural surveillance of Indian major carp *Cirrhinus mrigala* (Hamilton) exposed to free cyanide. *International Journal of Applied Environmental Science*, 3(1):31-36 (Online ISSN: 0974-0260; Print: ISSN: 0974-6077).
22. **Prashanth M S**, S E Neelgund. (2008). Impact of Cypermethrin on Enzymes Activity in the Freshwater Fish, *Cirrhinus Mrigala* (Hamilton). *Caspian Journal of Environmental Science*, 6(2): 91-95 (ISSN: 3033-1735).
23. **Prashanth M S.** M. David. (2007). Cypermethrin induced changes in-organic composition in the freshwater fish, *Cirrhinus mrigala* (Hamilton). *Indian Internet Journal of Forensic Medicine & Toxicology*. 5(4), 119-126 (Online ISSN: 0974-4487; Print: ISSN: 0973-1970).
24. **Prashanth M S.** (2007). Impact of free cyanide on protein level in the Indian major carp, *Catla catla*. *J. Ecotoxicol. Environ. Monit.*, 17(2);159-166 (ISSN: 0971-9065).
25. **Prashanth M S.** (2006). Effect of Cypermethrin on Protein Metabolism in the Freshwater Fish, *Cirrhinus mrigala*. *Nat. Environ. Poll. Techno.*, 5(2); 321-325 (ISSN: 0972-6268).
26. **Prashanth M S** and Yogesh B. Patil. (2006). Behavioural surveillance of Indian major carp *Catla Catla* (Hamilton) exposed to free cyanide. *J. Cur. Sci.* 9(1); 313-318 (ISSN: 0972-6101).
27. **Prashanth M S**, M David and Riveendra C Kuri. (2003). Effect of cypermethrin on toxicity and oxygen consumption in the freshwater fish, *Cirrhinus mrigala* (Hamilton). *J. Ecotoxicol. Environ. Monit.*, 13(4);, 271-277 (ISSN: 0971-9065).
28. David M, Mushigeri S B, **Prashanth M S** and Mathad S G. (2003). Role of phosphatases during transport and energy metabolism in freshwater fish, *Cyprinus carpio* exposed to cypermethrin. *Pollution Research*, 22(3); 277-281 (ISSN: 0257-8050, H. Index: 16).

29. David M, S B Mushigeri, **M S Prashanth** and S G Mathad. (2003). Hepato toxicity of malathin on the protein metabolism in *Catla catla*. *Advances in Bioscience*, 22(1) (ISSN: 0065-3446).
30. David M, S B Mushigeri and **M S Prashanth**. (2002). Toxicity of fenvalerate to the freshwater fish, *Labeo rohita*. *Geobios*, 29(1); 25-27 (ISSN: 0251-1223).

Communicated Research Papers

31. **Prashanth M S** and Neelagund S E. Behavioural and biochemical changes in the freshwater fish, *Cirrhinus mrigala* (Hamilton) exposed to free cyanide. *Fish Physiology and Biochemistry*, Accepted, 2016.
32. **Prashanth M S**. Cypermethrin induced on gill morphological changes in the, *Cirrhinus mrigala*. *Toxicological & Environmental Chemistry*, Communicated, 2016 (ETCJ-Nov-16-00708).
33. Gawade Vasumdhara V and **M S Prashanth**. Physiological studies in Pteridophytes of Lonhgd Area, Pune district, India. *American Journal of Botany*, Communicated, 2016. (AJB/323/2016)
34. More SV, **MS Prashanth** & A Singh “ First Record of the Assassin BUG *Acanthaspis fulvipes* Dallas, 1850(Heteroptera: Reduviidae:Reduviinae) From Maharashtra, India Indian Jpurnal of Scientific Reserch” Communicated, 2017.

Research Project

Sl. No	Type of Project	Funding Agency	Amount	Duration of year
1	Major Research Project	University Grants Commission (UGC)	7,20,878/-	January 2009 to 2011
2	Minor Research Project	University Grants Commission (UGC)	38,000/-	April 2008 to 2010

M. Phil., Students

Sl. No	Title	Name of Student	Year of awarded
1	“Abundance of Zooplankton in Kukkrahalli Lake, Mysore, Karnataka”	Mohammed Dadapeer	2009
2	“Study of Some Medicinal Plants in the Bhadra Forest Region”	H C Umesh	2008
3	“A Survey of Earthworm cultural activates in and around Shimoga Talk”	K Mahabaleshwara	2007

Membership in Professional Organizations / Societies

- **Life member** of “**Silk Society Of India**” Nagpur, Maharashtra, India
- **Chairmen, Ethical Committee**, Department of Urology, KLES Kidney Foundation, Dr. Prabhakar Kori Medical College, Belgaum, India.
- **Director**, Kerana Kendra Educational Trust, Shivamogga, India

Workshops / Seminars Attended

- One day workshop on “**Implementation of Online affiliation system in the colleges of Kuvempu University**” Organised by ICT Cell Kuvempu University, Shankaraghatta on 30th December 2016.
- NAAC Sponsored Two day Workshop on “**Awareness Programme for Non-Accredited Colleges and Institutions Affiliated to Shivaji University**” Organised by Shivaji University, Kolhapur during 2nd & 3rd Jan 2015.
- Two day “**International Paediatric Urology workshop & Update-2012**” Organised by Shivaji University, **Kolhapur Maharashtra India** On 5th & 6th Jan. 2015.
- Two day “**International Paediatric Urology workshop & Update-2012**” Organised by department of **Urology**, KLES Kidney Foundation, Dr. Prabhakar Kore Hospital & MRC, Belgaum. On 5th & 6th Feb. 2012.
- One day workshop on “**Recent Advances in Applied Zoology**” Organised by department of Zoology, Shivaji University, Kolhapur, Maharashtra in 17th September 2011.
- **20th Annual Conference of the South Zone Urology Society of India** held on 10th -12th July 2009 at KLES Kidney Foundation, Dr. Prabhakar Kore Medical Research Centre, Belgaum.
- One day workshop on “**International Pediatric Urology Workshop and Update**” held on 9th July 2009 at KLES Kidney Foundation, Belgaum.
- Two days national Seminar on “**Recent Advances and Challenges in Biochemistry and Biotechnology-2009**” held on 1-2nd, April, 2009 at Dept. Of Biochemistry, Kuvempu University, Shankarghatta.

- National level Seminar on **“The Origin of Species- 150; Darwinism in Modern perspective”** held on 13th March, 2009 at D.V.S. College of Arts and Science, Shimoga.
- **International conference on “Germ Cell Development-Function and 19th Annual meeting of ISSRF”** held on 22-24th, January 2009 at Indian Institute of Science, Bangalore-12.
- Two days national conference on **“Chemistry and Molecular Nanotechnology for Industrial and Society”** held on 16-17th, January 2009 at Dept. Of Industrial Chemistry, Kuvempu University, Shankarghatta.
- National Seminar on **‘Advances in Stem Cell Research’** held on 29th March 2008 at NIAS, IISc, Bangalore-12.
- National conference on **“Emerging areas in Chemical and Biological Science”** held on 23-24th March, 2007 at Dept. Of Chemistry, Kuvempu University, Shankarghatta
- **‘State Level Science Exhibition for Degree Students’** on 10-12th March 2007 held at JSS College of Arts, Commerce and Science, Ooty Road, Mysoure-25.
- Three-day **workshop** on **‘Leadership and Personality Development Program’** Held at DVS PU (Ind) College, Shivamogga-577201 on 10 -12th Nov 2006.
- One-day **workshop** on **‘Environmental Education’** Held at JSS College, Nanjangud, Mysoure on 9th Oct 2004.
- One-day workshop on **“Research Methodology”** organized by the Academic Staff College, Karnatak University, Dharwad, On 23rd March 2001.
- A Course on **“Behaviour of Pesticides in Agricultural Environment”** organized by IACR, Rothamsted, UK and UAS, Dharwad, 29 to 31st Oct 2001.
- National Level Seminar on **“Conservation of Biodiversity and Aquaculture”** organized by the Dept of P.G. Studies in Marin Biology, Karnatak University, Karwar. On 6 to 8th Nov 2000.
- Workshop on **“Commercial Floriculture”** Held at Dept. of P.G. Studies in Life Science, Kuvempu University, Shimoga on 13-14th Feb 1999.

- National Symposium on “Taxonomy and Biogeography” organized by Dept of P.G. Studies in Marin Biology, Karnatak University, Karwar. On 7th December 2013.
- Two days National Seminar on “**Recent trends and Techniques in Bio-Sciences**” on 30th November & 1st December 2011, organized by Arts, Commerce and Science college, Palus-416310 Dist. Sangli, Maharashtra India.
- National Conference on ‘**Emerging Areas in Chemical and Biochemical Sciences**’, March 23-24th 2007 Organized by School of Chemical Sciences, Dept. of Chemistry and Industrial Chemistry, Jnan Sahyadri, Shankaraghatta-577 451.
- **National Science Congress (ISCRO) at Bangalore** form 3-7 January 2003. In the section of Animal, Veterinary and Fishery Biology Section, Bangalore University, Bangalore.
- National Seminar on ‘**Reverin and Reservoir Fisheries-Challenges and Strategies**’, 23rd and 24th May 2001. Organized by Society of Fisheries Technologists and Central Marin Fisheries Research Institute (CMFRI), Cochin. India.
- National Symposium on ‘**The Trends in Environmental and Evolutionary Biology**’ 1st and 2nd March 2001. Sponsored by Dept. of P.G. Studies in Zoology, Karnatak University, Dharwad. India.
- National Symposium on ‘**Reproduction and Comparative Endocrinology**’ 1-2 September 1999, held at Drpt. Of Zoology, Karanatak University, Dharwad-580001

Organizing Committee Member

- Worked as **Organizing Committee Member** in two days national Seminar on ‘*Recent Advances and Challenges in Biochemistry and Biotecnology-2009*’, held on 1-2nd, April, 2009 at Dept. Of Biochemistry, Kuvempu University, Shankarghatta.
- Worked as **Organizing Committee Member** in one-day workshop on the theme ‘*DEWATS and CBS*’ Organized by Dept. of MEM, SIBER, Kolhapur-416004 on 22nd Oct 2005.

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Resume of Dr. M S Prashanth

- Worked as **Organizing Committee Member in** Three days Seminar-Cum-Workshop on ‘*Knowledge Construction in Physics*’ held at JSS College for Women, Mysoure on Feb 17-19th 2005.

Training Programmes

National Level Training Programmed on “**Management of Small Reservoirs for fish Rearing**” organized by Directorate of Extension, UAS, Dharwad and Directorate of extension, Ministry of Agriculture, Govt. of India, New Delhi, on 10- 18th July 2002.

Project Report On

“**Studies on Coleopteran Beetles and Weevils occurring in and around Kuvempu University Campus**” Submitted to Dept. of P.G. Studies in Life Science, Kuvempu University, Jnan-Sahyadri, Shankaraghatta-577 451.

Additional Qualification

- Well versed in Basic of Computer Applications.
- Participated in State level N.S.S. Camp held at Ramanagar, Bangalore.
- Participated in Inter College level N.S.S. Camp held at Kuvempu University, Campus,

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Personal Identification

Date of birth	: 03-11-1976
Marital status	: Married (May 2006)
Language known	: English, Hindi, Kannada & Marathi
Blood Group	: O +ve
Father Name	: M. Shankariah
Nationality	: Indian (Hindu Ligayath)
Passport number	: E0716594
Permanent address	: # 150, “Prashanth Nilaya”, Basavanagudi 4 th Cross, SHIVAMOGGA-577 201, Karnataka, INDIA
E-mail	: drmsprashant@rediffmail.com

Reference/ Contact Persons

1. **Prof. B.B. HOSATTI**
Professor and Chairman,
Department of P.G. Studies & Research in
Applied Zoology, School of Biological
Science, Jnana Sahyadri, Kuvempu
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 2. **Prof. M. DAVID**
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 3. **Prof. V. KRISHNA**
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 4. **Prof. A. R. Kulkarni**
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ABOUT MY RESEARCH WORK

Pesticides are used to control vectors of plants and animals and they occupy a unique position among the many chemicals that man encounters daily. These chemicals have been showing lower resistant power to diseases; affect the growth, survival and reproduction of the animals. Therefore every day some new formulations have been prepared to kill the pests. So the present study was undertaken to assess the effect of synthetic **pyrethroid, cypermethrin** on a non-target organism of **Indian major carp, *Cirrhinus mrigala***. *Cirrhinus mrigala* is widely cultivated and consumed fish in Karnataka and hence, it is taken for experimentation. Damages caused to the fish due to the cypermethrin could pose a health problem to human beings as a result of biomagnifications. Parameters selected for the study are **Oxygen consumption, Protein metabolism, Ions and ATPases and Histopathology**. Therefore, the study on “Cypermethrin induced **Physiological, Biochemical and Histopathological** changes in freshwater fish, *Cirrhinus mrigala* (Hamilton)” were carried out as per the standard **Toxicity Testing Guidelines**. *My research mainly consists of detailed histological and biochemical study of fish. They are very much essential to test the potential toxicity of any chemical. The results of my research findings were discussed critically in light of currently available literature. In view of the food and economic value of this fish and several other aquatic animals, proper control of pesticide use is of paramount importance not only in protecting aquatic fauna of economic importance, but also preservation of proper ecological balance.*