

## PROFILE OF PROFESSOR P. INDIRA

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Name: Prof: P.Indira  
Department of Zoology  
Sri Krishnadevaraya University College  
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### **Personal Information**

Designation : Professor, Head of the Department  
Address : Dept of Zoology, S.K University,  
Anantapur – 515003 Andhra Pradesh, India.  
Date of Birth : 28-09-1955  
Qualifications : M.Sc., Ph.D.

### **ACADEMIC QUALIFICATIONS:**

Degree	Board/ University	Subjects	Year	Division/Grade Merit etc.
B.Sc	S.V.University	Botany, Zoology & Chemistry	1977	2 <sup>nd</sup>
M.Sc	S.K.University	Bio-Science	1981	1 <sup>st</sup>
Ph.D	S.K.University	Zoology	1987	1 <sup>st</sup> rank in Written Examination
P.D.F	Mississippi Medical center U.S.A.	Neurotoxicology	1989-91	-----

### **RESEARCH EXPERIENCE & TRAINING**

Research	Title of Work/Theses	University where the work was carried out
Ph. D	Differentiation of Pollution- Stress from pollution- Adaptation in Common Carp ( <i>Ciprinus carpio</i> )	S.K.University
Training	Toxicology	S.V.U, Tirupathi
Post-Doctoral	Neurotoxicology	Mississippi Medical Center ,USA

**PROJECTS EXECUTED: ONE**

“Protein metabolism in silkworm *Bombyx mori* when fed tukra affected chawki leaves” – (UGC Minor Project)

**PROJECTS ON GOING: ONE**

“Studies on Fertility and Anti-fertility activities of Medicinal Plants of Rayalaseema Districts of A.P.” – (UGC Major Project)

**ADMINISTRATIVE EXPERIENCE**

Name of the Organisation	Designation	Period	Total Service
1. S.K.University	a.Head	26-10-1994 to 11-07-1996	2 years
2. S.K.University	Deputy Warden of Womens' Hostel	02-11-1996 to 26-11-1997	1 Year
3. S.K.University	Registrar	01-07-99 to 21-07-99	20 days
4. S.K.University	Head and BOS Chairman	April 2000 to April 2003	3 years
5. S.K. University	Director of Distance Education	10-12-2001 to 14-12-2003	2 Years
6. S.K. University	Head BOS, Chairman	25-07-2006 Aug, 2011	Till to date
7. S.K. University	CDC Dean, SKU	09-09-2010	Till to date

**SEMINARS/ CONFERENCES/ SYMPOSIA/ WORKSHOPS conducted**

S.No	Name of the seminar/symposium	Name of the sponsoring Agency	Place and Date
1.	Environment and Animal Diversity- National Seminar	APSCHE	JUL.2011, S.K.U, Anantapur.
2.	Recent trends in Animal Biotechnology- National Seminar	U.G.C	FEB.2002, S.K.U, Anantapur.
3.	Sustainable Zoology in next five decades- National seminar	UGC	NOV.2002, S.K.U, Anantapur

4.	Flourine and its impact on the population of Anantapur district- National seminar	UGC	NOV.2001, S.K.U, Anantapur
5.	1 <sup>st</sup> National Symposium on Environment Biology	NEPA	Dec, 1986, S.K.U, Anantapur.

#### SEMINARS, CONFERENCES, SYMPOSIA, WORKSHOPS ETC, ATTENDED

Sl. No.	Name of the Seminar / Conference / Symposia / Workshop, etc.,	Name of the Sponsoring Agency	Place and Date
1.	Conference	Society of India	Bangalore – 1982.
2.	Conference	University Grants Commission.	Tirupathi – 1984.
3.	Conference	University Grants Commission.	Tirupathi – 1985.
4.	Conference	University of Mississippi, Oxford.	U.S.A. – 1989.
5.	Conference	Mississippi Academy of Sciences	Biloxi – 1990.
6.	Conference	American Society for Pharmacology and Experimental Therapeutics, (ASPET)	Wisconsin, U.S.A. – 1990.
7.	Conference	South Central chapter of the Society of Toxicology.	Jefferson, Arkansas – 1990.
8.	Conference	Mississippi Academy of Sciences	Jackson, Mississippi – 1991.
9.	Conference	Society of Toxicology	Dallas, Texas – 1991.
10.	Conference	Federation of American Societies	Georgia, Atlanta (USA) – 1991
11.	Conference	South Central Chapter Society	MS – 1991.
12.	Conference	3 <sup>rd</sup> International / 15 <sup>th</sup> National Symposium.	Bangalore – 1999.

- Teaching experience (completed years): 27 years
- Areas of Research / Specialization: Neurotoxicology and Aquatic Toxicology.

#### ARTICLES PUBLISHED - LIST

1. A paper entitled "In vitro effects of Organophosphorus compounds on Calmodulin Activity "Published in Journal of Applied Toxicology Volume. II (6), 391-395 (1991).
2. A paper entitled "Effect of an organophosphorus nuvan on total lipids and lipase activity of the freshwater fish *Labeo rohita* (Hamilton)" Published in Indian Journal of Comparative Animal Physiology, Vol: 15: 37-40 (1997).
3. A paper entitled "Modulation of Calmodulin and protein kinase activities by pencillium mycotoxins". Published in International Journal of Toxicology, 18:91-96.(1999).
4. A paper entitled "Ziram induced histological changes in the liver of freshwater fish *Labeo rohita* (Hamilton)" published in Journal of Aquatic Biology, 21 (1) : 239-242 (2006).
5. Indira, P., Gopal, S. and M. Nagabhushan Reddy. 2006. Physiological responses of *Cyprinus carpio* (L) on exposure to sublethal toxicity of synthetic detergent linear alkyl sulfonate (LAS). *Ind. J. Comp. Ani. Physiol.* Vol. XXV (2), pp. 81-87.
6. S C S SINDJE, INDIRA PALA\* and M S BUTCHIRAM. 2007. Toxicity and Behavioural Changes in the freshwater fish, *Labeo rohita* exposed to ziram. *J.Ecotoxicol. Environ. Monit.* Vol-17(6) 537-542-June-2007.
7. Gopal, S., M. Nagabhushan Reddy, M. Venkata Ramudu and P. Indira. 2008. Effect of synthetic detergent linear alkyl sulfonate (LAS) on hematological responses of *Cyprinus carpio* (L). *J. Aqua. Biol.* Vol. XXIII (1), pp. 20-25.
8. S. Gopal, M. Nagabhushan Reddy, M. Venkata Ramudu and P. Indira. 2008. Levels of lipid metabolites in *Cyprinus carpio* (L) on sublethal exposure to synthetic detergent linear alkyl sulfonate (LAS). *Asian J. Env. Sci.*Vol-III, No.1:17-22 June-2008.
9. In vitro effects of Organophosphorus compounds on Calmodulin Activity "Published in Journal of Applied Toxicology Volume. II (6), 391-395 (1991).

10. Effect of an organophosphorus nuvan on total lipids and lipase activity of the freshwater fish *Labeo rohita* (Hamilton)" Published in Indian Journal of Comparative Animal Physiology, Vol: 15: 37-40 (1997).
11. Modulation of Calmodulin and protein kinase activities by pencillium mycotoxins". Published in International Journal of Toxicology, 18:91-96. (1999).
12. Ziram induced histological changes in the liver of freshwater fish *Labeo rohita* (Hamilton)" published in Journal of Aquatic Biology, 21 (1) : 239-242 (2006).
13. Gopal, .,NagabhushanaReddy, M., VenkataRamudu, and Indira, P.(2008). Effect of synthetic detergent linear alkyl benzene sulfonate(Lass) on haematological responses of *Cyprinus carpio*(L). J. Aqua.Biol.,22(2) (In press)
14. Ziram induced histological changes in the gill of Freshwater fish *Labeo rohia* (Hamilton)" in Journal of Aquatic Biology.
15. A paper entitled "Behavioral on the toxicity studied on Freshwater fish *Labeo rohita* (Hamilton) Exposed to ziram" in Journal of Ecotoxicology and Environmental Monitoring.
16. Prevalence of the occupational respiratory symptoms and hematological changes age wise and sex wise in labourers of cement industries in Tadipatri Mandal of Anantapur, A.P. V.V. Bala Subramnayam, P. Indira
17. Levels of lipid metabolities in *Cyprinus carpio* (L.) on subliethal exposure to synthetic detergent linerar alkyl benzene supphonate (LAS) S.Gopal, P. Indira
18. Effect of Ziram on pyruvate and lactate levels in fesh watr telost, *Labeo rohita* Indira pala and M. Gadadeesh Naik
19. Comparative study on the prevalence of occupational respiratory symptokms age wise in male and female labourers of cent industries in Tadipatri mandal of Anantappr District Andhra Pradesh, V.V. Bala Subramanyam, P. Indira
20. Impact of enzyme activity in silkworm, *Bombax mori* feeding with tukra affected mulberry leves M. Jagadeesh naik, P. Indira
21. occupational asthma in labourers employed at cement industries in Tadipatri mandal of Anantapur district Andhra Pradesh, V.V. Bala Subramanyam, P. Indira

22. Prevalence of the occupational respiratory symptoms and hematological changes age wise and sex wise in laborers of cement industries in Tadipatri Mandal of Anantapur district, Andhra Pradesh, Indira .P, V.V. Bala Subramanyam.
23. Excretory products in silkworm *Bombax mkori* when fed with tukra affected chawki leaves. Jagaesh naik, I. Pala
24. Respiratory symptoms and hematological changes age wise and sex wise in laborers of cement industries in Tadipatri Mandal of Anantapur district, Andhra Pradesh, Indira .P, V.V. Bala Subramanyam.
25. Y. Amarnath Reddy, M. Chalamaiah, B. Ramesh, G. Balaji, P. **India**. Ameliorating activity of ginger (*Zinger officinale*) extract against lead induced renal toxicity in male rats, J. Food Sci. Techno. 2011.

Research publication	Impact factor	Citation index	SJ R	H- Index	(SNI P)
26.Y. Amarnath Reddy, M. Chalamaiah, B. Ramesh, G. Balaji, P. India. Ameliorating activity of ginger ( <i>Zinger officinale</i> ) extract against lead induced renal toxicity in male rats, J. Food Sci. Techno. 2011.					
27) Role of SDH and LDH activity in silkworm, <i>Bombyx Mori L</i> .fed with mealy bug infested mulberry leaves. Mude Jagadish Naik, Pala India. 2011					
28) Effect of Sublethal concentration of Ziram on Oxygen consumption of the Freshwater Fish <i>Labeo rohita</i> . M S Butchiram, M. Jagadeesh Naik, Pala India.					
29) Protein metabolism in Silkworm <i>Bombyx mori Linn</i> . Fed with Tukra affected Chawki leaves. M. Jagadish Naik and Pala India. (Revised and Accepted 20 Dec. 2011)					
30) Studies on Enzyme activity in Silkworm, <i>Bombyx mori L</i> . fed with thrips ( <i>Pseudodendrothrips mori</i> ) Niwa infested Mulberry leaves. Mude Jagadish Naik, and Pala India, J. Zool. 32(1):2012.					
31) Protective effects of Curcumin and Vitamine on Carbon tetrachloride-Induced Nephrotoxicity in Rats. G. Venkatanarayana, G. Sudhakara, P. Indira, ISSN 1611-2156, 2012.					
32) A Case Study on Hematological Parameters in workers exposed to Cement dust in areas of Nalagonda District. M. Jagadish Naik, Mohana Rao and India, ISSN: 21019-2402x, 2012					

33) IOSR JOURNALS,International Organization of Scientific Research,Pala India,2012.					
34) Herpetofauna of Thummalapalle uranium mining area,Andhra Pradesh,India. Y. Amarnath Reddy, Sadasivaiah, P.Indira,2013.					
35) Ichthyofauna of Thummalapalle Urenium Mining Area,Andhra Pradesh,India. Amarnath Reddy, Sadasivaiah, P.Indira,2013.					
36) Range extension of Indian Golden Gecko Calodactylodes aureus in Andhra Pradesh,India. Amarnath Reddy, Sadasivaiah, P.Indira, 2013.					
37)Fejervarya caperata ( Anura:Dicroglossidae)-A New Distributional record to Andhra Pradesh,India. Amarnath Reddy, Sadasivaiah, P.Indira, 2013.					
38)Snakes of Sri Krishnadevaraya University Campus and its Surrounding,Andhra Pradesh. Amarnath Reddy, Sadasivaiah, P.Indira.					
39) Investigation of Acute Toxicity of phorate(An Organophosphate) on Fresh water fish (Cyprinus carpio). Dr.G.Lakshmaiah and Prof.P.Indira, ISSN 0975-6299, 2014.					
40)Protective effects of Ginger (Zingiber officinale) extract against lead induced oxidative stress on Liver antioxidant enzymes in Male albino Rats, Dr.M.Pratap and P.Indira, ISSN 0975-6299, 2014.					
41) Seasonal cold stress on common carp fishes with relation to aerobic and anaerobic respiration					
42)Investigation of acute toxicity of phorate (an organophosphate) on fresh water fish cyprinus carpio	2.958				
43)Protective effects of ginger (zingiber officinale)Extract againstlead induced oxidative stress on liver antioxidant enzymes in male albino rats	2.958				
44)Atrax robustus (araneat: Hexathelidae) Anew distributional record to Andhra Pradesh, India					
45)has published his/her manuscriptentitled “sodium fluoride toxicity in fresh water fish carassius auratus (Gold fish):effect on red blood cell count”					
46)Effect of Organ phosphorus Nuvan on some Aspects of Carbohydrate Metabolism in Fresh Water Fish Labeo Rohita (Hamilton)	4.5				
47)Impact of an Organophosphorus Nucan on Some Aspects of Protein Metabolism in the Fresh Water Teleost Labeo rohita (Hamilton)	2.47				

48)Pharma cognostical Studies on Mesua Ferrea, Carica Papaya,Asimum Sanctum and Tribulus Terrestris, in Rayalaseema,AP.	2.44				
49)Effect of Mesua ferrea Flower and carica papaya Seed Extract on Haematologica Studies in Femals Albino Rats	4.438				
50)Effect of Mesua ferrea flower and carica papaya seed extracts on estrous cycle of female albino rats for fertility and Anti fertility activity	4.78				

- Ph.D's awarded - 18 ; M.Phil's awarded - 13

#### **MEMBERSHIP IN PROFESSIONAL BODIES**

- Life Member: Indian Society for Comparative Animal Physiology.
- Life Member: Association of Zoologist
- Life Member: Journal of Aquatic Biology.
- Life Member: Journal of Ecotoxicology and Environmental Monitoring.
- Awards and Recognition at State level or National level
- An awardee of U.G.C J.R.F
- An awardee of National Overseas fellowship; Visited University Mississippi Medical Center Jackson, USA in three years 1989-1991.
- Advisory board member for Asian journal of Environmental Sciences.

## ANNEXURE – I

(M.Phil's awarded under the supervision of Prof. P. Indira)

1. Biochemical – Histological aspects of teleost *Labeo rohita* (Hamilton) when exposed to an organo phosphorus nuvan. 2000. Sri. P. Giridhar.
2. Effect of Citroviridin (Mycotoxin) on carbohydrate metabolism of rat.
3. Ziram a fungicide induced toxicity on selected biochemical parameters and histological changes in fish, *Labeo rohita* (Hamilton). 2001. To Sri. S. Sai Chandra Sekhar.
4. Ziram a fungicide induced toxicity on some aspects of carbohydrate metabolism in fish *Cyprinus carpio* (Linnaeus). 2002. To Sri. B. Chitti Raju.
5. Protein metabolism in silkworm *Bombyx mori* (Linnaeus) when fed with tukra affected chawki leaves. 2004. To Sri. M. Jagadish Naik.
6. Respiratory disorders and Hematological studies of Human beings when exposed to cement dust and particles of stone dust. 2006. Sri. V.V. Bala Subramanyam.
7. Effect of Ginger *Zingerber officinale* on lead induced oxidative stress in albino rats. 2009. Sri Y. Amarnath Reddy.
8. Biodiversity of Termite mounds in and around Kurugunta-Anantapur dist. 2009. Smt. A. Bhagyalakshmi.
9. Haemaotological and Respiratory changes in Weavers. 2010. Smt. B. Naga Jyothirmai.
10. Biochemical changes of fish *Labeo rohita* (Hamilton) when exposed to an organophosphate pesticide Malathion. 2010. Mrs. R. Sucharitha.
11. Biodiversity of Spiders in Nallamala Forest. 2010. Sri. H. Ramasubba Reddy.
12. Effect of Ginger *Zingerber officinale* on lead induced oxidative stress in albino rats. 2010. Smt. G. Surekha.
13. Byrite toxicity in and around Byrite Factory of Mangampeta Railway. 2011. Sri. G. Murali.

## ANNEXURE – II

(Ph.D's awarded under the supervision of Prof. P. Indira)

1. Biochemical – Histological aspects of teleost *Labeo rohita* (Hamilton) when exposed to an organophosphorus nuvan. 2002. To Sri. P. Giridhar.
2. Ziram a fungicide induced toxicity on selected biochemical parameters and histological changes in fish *Labeo rohita* (Hamilton). To Sri. S. Sai Chandra Sekharr. 2003.
3. Biochemical and Haemodynamic aspects of Alcohol and Smoke (cigarette) toxication in Humans. To Sri. S. Mohammed Ghouse. 2006.
4. Biochemical Events in silkworm *Bombyx mori* (Linnaeus) when fed with Tukra affected Chawki leaves. To Sri. M. Jagadish Naik. 2006.
5. Effect of synthetic detergent linear alkyl benzene sulfonate(Las) on fish *Cyprinus carpio*(L)- Biochemical and physiological changes. To Sri.S.Gopal.2007
6. Physiological and Biochemical adaptations in freshwater fish *Channa punctatus* (Bloch) during sub lethal toxicity of deltamethrin in relation to sex of the fish. To Sri. M.VenkataRamudu 2007.
7. Effect of Synthetic Pyrethroid Cypermethrin on the energetics of freshwater fish *Channa striatus* with reference to size of fish. To Sri Md. OsmanAhmed. 2007.
8. Respiratory disorders and Hematological studies of Human beings when exposed to cement dust and particles of stone dust. 2008. Sri. V.V. Bala Subramanyam. Ph.D s to be awarded in Dec. 2011
9. A Study on the toxicity of lead nitrate of *Cirrhinus mrigala*. Mrs. G. Prashanthi
10. Fauna of Thummalapalle Uranium Mining Area- Vertebrates, A.P., India. Y. Amarnath Reddy.
11. Hepatoprotective and antioxidant activity of curcumin and vitamin E against  $CCl_4$  induced liver injury in rats. 2011. Sri. G. Venkata Narayana.
12. Protective effects of Ginger (*Zingiber officinale*) extract against Lead induced oxidative stress in male albino rats. M. Pratap, 2012.

13. Toxic effects of chromium on biochemical analysis and histopathology of fresh water teleost fish *Catla catla*. P. Ranganatham-2012.
14. Effect of plorate (An Organophosphate) Toxicity on Biochemical and Histological studies in Fresh water fish *Cyprinus carpio*.G.Lakshmaiah.March-2013
15. Effect of quinolphos on Biochemical and Histological aspects on common carp *Cyprinus carpio*.C.Ramesh Raju-April, 2013.
16. Diversity of Spiders in Kurnool district with special reference to House, Garden and Open land Spiders. H.Rama subba Reddy May, 2015.
17. Effect of sodium fluoride toxicity on Biochemical histological and oestological parameters of fresh water fish (*Carassius auratus*).O.Usha Rani May, 2015.
18. Fertility and Anti-fertility activity of Medicinal plants of Rayalaseema,A.P. N.Raja Naik, January,2016.