

## BIO DATA

1.	Name	Dr. R. ARUNA DEVY
2.	Designation and Department	Assistant Professor, Department of Zoology
3.	Phone numbers and Email Id	Office : 04735 226238, 226738 Mobile No: 9447945878 E mail ID : <a href="mailto:arunadevy@yahoo.com">arunadevy@yahoo.com</a>

## ACADEMIC QUALIFICATIONS

Qualification	University/Board	Year of Passing	Subjects/Specialization
UG - B.Sc.	Pondicherry University	1995	Zoology, Vector Biology
PG - M.Sc	Pondicherry University	1997	Zoology, Aquaculture
Others M.Phil	Pondicherry University	1998	Reproductive Toxicology
PGDTA	Pondicherry University	1998	Tourism Administration

## RESEARCH DEGREE

Qualification	Title	Date of award	University
Ph.D	Heavy metal (Cd and Pb) in agricultural and industrial areas of Pondicherry Region (INDIA)- their histopathological and biochemical impacts on adult albino rats	2003	Pondicherry University

## Period of Teaching Experience

U.G. Classes	15 YEARS
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## Membership in Professional Institutions Or Societies:

1. Life Membership - SOCIETY OF TOXICOLOGY (SOT)
2. Annual Membership - INDIAN SOCIETY OF TOXICOLOGY
3. Life Membership - ZOOLOGICAL SOCIETY OF KERALA

## **LIST OF PUBLICATIONS:**

### **International Journals:**

1. Lead Nitrate induced Hepato renal Toxicity in the adult albino rats.  
University Journal of Zoology, Raj Shahi University, Bangladesh, Vol. 21; 2002:1-3.
2. Cadmium chloride induced hepato renal toxicity in the adult albino rats.  
International Toxicology, Vol.13(1), 2006,pg29-31.
3. Cadmium chloride induced histopathological and biochemical changes in the testes of adult albino rats.  
International Toxicology, Vol.13(1), 2006,pg61-64.

4. Seasonal variation of Cadmium contamination in Agricultural and Industrial areas – A case study, South India.  
The Ecoscan, 2(1) ; 41-45, 2007.
5. Study of Heavy Metal contamination of Water bodies collected from flood affected area – Mammukku, Ranny, Pathanamthitta District, Kerala, India.  
API Proceedings of International Conference on Energy and Environment, 12 -14 December, 2019  
T.K.M College of Arts and Science, Kollam, Kerala. Cite as: AIP Conference Proceedings 2287, 020027 (2020); <https://doi.org/10.1063/5.0029897>.

#### **National Journals:**

1. Effect of Mercuric Chloride on testicular lipid classes in adult albino rats.  
Indian Journal of Toxicology, Vol.6. No.2; 1999:41-47.
2. Effect of Mercuric Chloride on testicular enzymes in adult albino rats.  
Pollution Research, 18(4); 1999:441-444.
3. Effect of Mercuric Chloride on rat brain –studies on lipid classes  
Geobios, Vol.26(2-3); 1999:95-98.
4. Mercuric Chloride induced biochemical changes in the liver of mature male albino rats.  
Indian Journal of Environment and Toxicology, 9(2); 1999:56-58.
5. Seasonal variation of Lead contamination in Agricultural and Industrial areas of Pondicherry region, India.  
J.Zool.Soc.,Kerala, 11(1&2) : 64-72, 2006.
6. Ecotoxicity of Heavy Metals (Cd And Pb) and its Decontamination by Earthworm Species.  
Sci. & Soc. 17(2) 113-122, 2019 ISSN 0973-0206

#### **Papers accepted for poster presentations in International Conferences:**

1. Cadmium Chloride induced biochemical changes in liver, kidney, brain and muscles of mature male and female albino rats. 9<sup>th</sup> International Congress of Toxicology, 8-10 July 2001, Brisbane, Queensland, Australia.
2. Lead Nitrate induced hepatic and renal toxicity in the adult albino male and female rats : EUROTOX 2001 Congress, 13-16 September 2001, Istanbul, Turkey.
3. Potential of one epigeic and one-anecic earthworms in soil amendments. Environmental Management using soil – plant systems, Massey University, Palmerston North, New Zealand, 12-13February, 2003.(Published as full paper in the proceedings of the Workshop, under Phytoremediation section, Pg:92-96).

#### **National Conferences attended and Papers presented:**

1. Effect of Mercuric Chloride on Testicular enzymes in adult albino rats. XVII Annual conference of society of Toxicology, India, Dec 22-24,1998, Acharya N.A Ranga, Agricultural university, College of Veterinary Science, Tirupathi..
2. Chromium contamination in Paddy and Vegetables of Pondicherry region. 88<sup>th</sup> Indian Science Congress Association, 3<sup>rd</sup>-7<sup>th</sup>January, 2000, ICAR, New Delhi.

3. Cadmium Contamination in water and soil samples of agricultural and industrial areas of Pondicherry region. 14<sup>th</sup> National Environmental Science Academy, 14<sup>th</sup>-16<sup>th</sup> Dec, 2000, Salim Ali School of Ecology, Pondicherry University, Pondicherry.
4. Cadmium Chloride induced bio-chemical changes in the testis of adult albino rats – 20<sup>th</sup> National symposium on Reproductive Biology and Comparative Endocrinology –7<sup>th</sup>-9<sup>th</sup> January, 2002, Dept. of Animal Science, School of Life Science, Bharathidasan University, Trichy, Tamil Nadu.
5. Heavy Metal contamination (Cd and Pb) contamination of Pondicherry region (India) : two year study report from two different areas at three different seasons. 23<sup>rd</sup> Annual Conference of STOX, 28<sup>th</sup> – 30<sup>th</sup>, October, 2005, SCTIMST, Trivandrum.  
Published in the Journal Toxicology International, Vol.12, No.1, 2005; pg53-54.
6. Ecotoxicity of Heavy metals (Cd and Pb) and its decontamination by Earthworm species. ECOZEPHYR-2010, National Seminar on Earth at Risk: Challenges and reduction strategies, 18<sup>th</sup> and 19<sup>th</sup> October, 2010, PG Department of Zoology, Alphonsa College, Pala.  
Heavy metal Toxicity and it's remediation by earthworm species.
7. National Conference on Heavy Metals in the Environment 2013 (HME 2013) 28<sup>th</sup> -30<sup>th</sup> November 2013, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala.
8. As Resource Person for UGC Sponsored National Seminar on "Food, Environment and Medical Toxicology", 29<sup>th</sup> and 30<sup>th</sup> September, 2014, PG. Department of Zoology, The Cochin College, Kochi.
9. Efficacy of Earthworms in decontaminating Heavy metals. National Seminar on "Environmental concerns and management", 29<sup>th</sup> and 30<sup>th</sup> November, 2017, P.G Department of Zoology, Nirmala College, Muvattupuzha.
10. Study of Heavy Metal contamination of Water bodies collected from flood affected area - Mammukku, Ranny, Pathanamthitta District, Kerala, India.  
International Conference on Energy and Environment, 12 -14 December, 2019 T.K.M College of Arts and Science, Kollam, Kerala.

#### **Publications in Books and Conference Proceedings:**

1. **Author for a Chapter** :Toxicology in the Book : Ecology and Evolution, study material series for Final year B.Sc Degree students published by Zoological Society of Kerala.
2. **Editor for the Proceedings of National Seminar** on "Biodiversity-its conservation for sustainable future" conducted during 27<sup>th</sup> and 28<sup>th</sup> March, 2012, sponsored by UGC.
3. **Editor for Proceedings of National Seminar** on "Sustainable development through Biodiversity conservation" during February 22<sup>nd</sup> and 23<sup>rd</sup>, 2019, sponsored by Directorate of Environment and climate change (DoECC).
4. **Editor** for the book "Research Methodology"- study material prepared by Zoological Society of Kerala, November, 2018.

### **Achievements:**

1. Received General proficiency prize during M.Sc course, 1997 among the students at P.G Centre, Pondicherry.
2. Received **Young Scientist Award** from **National Academy for Environmental Society (NESAS)** for the best paper presentation during 14<sup>th</sup> National Conference, 14<sup>th</sup> –16<sup>th</sup> Dec, 2000.
3. Received **“Bharat Ratna Mother Teresa Gold Medal Award”** by Global Economic Progress and Research Association, New Delhi for excellence in respective field on the occasion of 71<sup>st</sup> National Unity Conference on Individual Achievements and National Development on 21<sup>st</sup> December, 2019.

### **Official Post held:**

1. Different Post like Student Counsellor, NSS Programme officer, Womens Cell Secretary, Magazine editor, Internal exam coordinator, Admission committee Coordinator, Bhoo Mithra Sena Club Coordinator, etc., in the College.
2. Chief/Addl Examiner for the valuation of answer books of a good number of Examinations. External Examiner for different Practical examinations conducted in various colleges of Kozhencherry Zone.
3. Chairman for Conducting Practical Examination – B.Sc Zoology – Core and Complimentary – I and II semester, III and IV semesters.

### **Seminars conducted as Organising Secretary**

1. Conducted a National Seminar on “Biodiversity-its conservation for sustainable future” during 27<sup>th</sup> and 28<sup>th</sup> March, 2012, sponsored by UGC.
2. Conducted a National Seminar on “Sustainable development through Biodiversity conservation” during February 22<sup>nd</sup> and 23<sup>rd</sup>, 2019, sponsored by Directorate of Environment and climate change (DoECC).

### **Guideship and Board of Study - Member**

1. Recognised as research guide in the Post Graduate and Research Department of Zoology, Catholicate College, Pathanamthitta affiliated to M.G.University.
2. Member in the UG Board of Study - Zoology