



Sri Venkateswara
University, Tirupati

DEPARTMENT OF



ZOOLOGY

VISION:

- Provide a sound education in basic science.
- Transform society through the empowerment of women.
- Provide inexpensive educational services to the weaker sections of society.
- Inculcate respect for nature and concern for ethical values among students through good and scientific educational practices.
- Recognizing the essential roles of science and biology in the lives of citizens today and tomorrow, we emphasize biological literacy in our teaching and outreach programs

MISSION :

- To impart the contemporary advancements in life sciences.
- To impart global perspectives and skills among students that benefit humanity.
- To promote skills on research communications on animal sciences and their ecosystems to develop a sustainable environment and Biodiversity.
- To promote modern scientific knowledge approach on Physiology, Evolution, Biology and Taxonomy.
- To develop research aptitude and a scientific advancement to reinvent ourselves in response to the changing demands of society with high moral values as a good citizen.

ABOUT THE DEPARTMENT

Department of Zoology was established in 1954 since the inception of the University to produce high quality Zoologists to cater the needs of the newly Independent India. As the Institute is a State University, the Department has increasingly focused on post graduate education and research with a vision to promote the discovery and broad communication of knowledge about the physiology of animals.

Zoology Department has been recognized at National and International levels for its outstanding contributions in various disciplines of Animal Physiology. The University Grants Commission has recognized this Department as a Research Centre for the thrust areas "Environmental Biology" and "Ethnopharmacology".

HEAD OF THE DEPARTMENT : Prof. S. Kishore, M.Sc., Ph.D.,



Area of Research : Toxicology, Physiology, Parasitology, Histology and Histochemistry and Sericulture.

Research Accomplishments : Four students were awarded PhD degree and 06 PhDs under progress. One M.Phil degree awarded. Authored Six books, Fifty one (51) research papers published in national International journals. Completed 02 major research projects funded by UGC and DST. 30 years of research experience.

Awards : Teacher of excellence 2022.

Administrative positions Held: During 2002-2007 served as counterpart in JICA (Japan International Cooperation Agency) for the promotion of Bivoltine Sericulture Technology in India. Co-Ordinator for Intellectual Property Rights Cell (IPR Cell) Deputy Warden for S.V.U. College of Sciences Men's Hostel, Executive editor for Indian Journal of Comparative Animal Physiology (IJCAP), Member, Board of Studies for Dept. of Zoology and Dept. of Aquaculture. Served as Member Secretary Animal Ethics Committee and presently acting as member. Presently holding the position of DEAN for International Relations, SVU, Co-Ordinator for Animal Biotechnology and HEAD, Department of Zoology.

BOS : Prof. M. Srinivasulu Reddy, M.Sc., Ph.D.,

Area of Research: Aquaculture - Nutrition, Crustacean Physiology & Biochemistry, Insecticide Toxicology & Physiology, Aquaculture Biotechnology, Bioinformatics.

Research Accomplishments: Awarded 20 students for Ph.D. Guided 13 students for M.Phil. Degrees and Guided 125 Students for their PG Research Projects Authored Books 07, Book Chapters 12, Published 124 Research Papers. Completed 06 Major Research Projects funded by UGC, DST and CSIR. Reviewer and Editorial Board Member of International Research journals. Organized 10 Workshops and 07 International & 15 National Conferences/Seminars.



Awards: State Level Best Teacher Awardee (2012) by Government of Andhra Pradesh; Fellow of APAS Award (FAPAS) -2016; Fellow of NESAA award-2015; Andhra Pradesh Meritorious Best Teacher Award - 2012; Best Research Paper Presentation at Hyderabad - 1999; Best Research Paper Presentation at Rajahmundry - 2000; DBT National Associate ship -1999-2000; HE Governor of A.P Gold Medals (For Motivating Largest numbers of Blood Donors) - 2004, 2005, 2006, 2007, 2008, 2009 ; HE Governor of A.P Gold Medals (For Sustained Meritorious Service in Blood Donation Camps - 2004, 2005, 2006, 2007, 2008, 2009); Paul Harris Fellow by Rotary International, USA, Professional Excellency Award by Rotary International -2004; Rotary International Presidential Citation - 2005; Service Award of Professional Excellence for participation in Community Development Programmes - 2005; Service Award of Professional Excellence for conducting Blood Donation Camps - 2005 by Rotary International; Sathabdi Pratibha Puraskar - 2005 for Blood Donation Motivation Project by Rotary International; Mellenium Medal of Honour by American Biographical Society, USA; Best Councilors of Polio Eradication in India by RotaryInternational - 2006; Who's Who in the World 1999 - By Marguis Who's Who Publication Board, USA; Millennium Medal of Honour By American Biographical Society, USA.

Administrative Positions Held: Principal, SVU College of Sciences (2021 to todate); Director NAAC Steering Committee (2021 to todate); Chief Warden, SVU College for Men (2020 to todate); Nodal Officer, MHRD; Chairman, BOS, M.Sc., Zoology, Animal Biotechnology, Aquaculture (2020 to till date); HOD, Zoology (2018-2020); Warden, SVU College for Men (2019-2020); Principal, V.S.University, Nellore (2011-2014); Special Officer, SVUPG Center, Kavali (2008-2010); Founder Co-Ordinator of Department of Biotechnology, Microbiology & Botany (2005-2011); Chief Warden, VSU (2011-2014); Chief Warden, SVUPGC (2008-2010), Dy.Warden, SVUPGC (2006-2008); HOD, Zoology (2000-2011); Dean, Faculty of Sciences, VSU (2014); Member URC, SVU (2006-2010); Member BOS in Zoology, SVU (2000-2010); Member BOS in Zoology, VSU, (2011-Till Date); Member, BOS in Marine Biology, VSU (2011-Till date); Ed.CET Co-Ordinator (2012); APSET Regional Co-Ordinator (2012, 2019 & 2021); ICET Regional Co-Ordinator (2012); Directorate of Admissions, VSU (2012-2013). BOS Chairman Fishery Science & Aquaculture (2016 - 2021)

Fellowships: Fellow of Andhra Pradesh Academy of Sciences (FAPAS), Andhra Pradesh-2016, Fellow of National Environmental Science Academy (FNESA), New Delhi-2015, Fellow of Society of Applied Biotechnology (FSAB)-2014, Fellow of Association of Biotechnology & Pharmacy (FABA)-2009, Fellow of Environmentalists Association (FEA)-2014, Paul Harris Fellow, Rotary International, USA-1999, Fellow of Indian Association for Aquatic Biologists (FIAAB). Life Member in 4 National Scientific Societies

Prof. P. Jacob Doss, M.A., M.Sc., M.Ed., M.Phil., Ph.D.



Area of Research: Arachnid Neurobiology; Neurotoxicology and Neuroethology.

Research Accomplishments: Successfully guided 29 Ph.D's, and 11 M.Phil's. Awarded FIPS Travel Grant to Malaysia in 2002. Completed 4 research projects funded by UGC and DST, Published 84 papers, and written 2 books, one on Scorpions and another book on Snake Biology. Made significant contributions in neurobiology and behavior in the black Scorpion, *Heterometrus fulvipes*, by identifying different Sensory and Motor neurons in the Central Nervous System with cobalt chloride back filling technique. Currently actively involved in Pesticide Toxicology, their biotransformation,

detoxification mechanism and histopathology with Light and Scanning Electron Microscopy in a mammalian model. Presently working with Pharmacology of drugs, therapeutic treatment of pesticide poisoning and rational use of antidote treatments in clinical investigations. Acted as Deputy Co-Ordinator UGC SAP (2014 to 2016), Co-Ordinator DST FIST (2016 to 2021) and Member of Institutional Animal Ethical Committee, Dravidian University, Kuppam.

AWARDS: Best Teacher Award 2014 and 2022

Administrative Position Held: Assistant Warden (2002-2004), Warden 2017 to 2019, Co-ordinator for DDE 2011 to till date, M.Sc Bioinformatics 2012 to 2014 M.Sc Animal Biotechnology 2020 to 2022. Head Department of Zoology 2014 to 2016 and 2020 to 2022, Board of Studies Chairman Zoology from 2019 to 2020, Animal Biotechnology 2022 to till date in SV University, Dravidian University, Kuppam and Vikrama Simhapuri University, Nellore, also Board of studies Member: in Bangalore University, Gulbarga University, Osmania University, Kakatiya University, Andhra University, Urdu, Yogivemana, Krishna and Nagarjuna Universities.

Dr. M. Rajasekhar, M.Sc., Ph.D.

Areas of Research: Currently focusing on various aspects of epigenetic mechanisms and pathways to revert the carcinogenesis using natural edible compounds. Major focus is to investigate the molecular mechanisms which promote apoptosis through natural edibles. Currently my lab is characterizing few compounds along with some metal nanoparticles which promote apoptosis. The long term goal is to develop a good therapeutic molecule against Triple Negative Breast Cancer.

Research Accomplishments: Supervised 8 Ph. D's and two M. Phil's, Published two books and 6 book chapters. Three research projects were completed and two major research

projects are ongoing from different funding agencies. Based on the grants and doctoral degrees, 63 research publications were published in reputed journals.

Organized two international conferences, 3 workshops, one hands on training workshop and two webinars. The research work was also presented in National and International conferences overseas. Besides, first video filming on Jerdon's courser, a globally threatened bird, at Lankamalleswaram sanctuary. My research works on Golden Geckos were first of its kind in several locations of south India and helped Forest department to take measures to protect the animal. Received ICMR International Long term foreign fellowship award for the year 2017 to Collaborate and work With UNTHSC, Fort Worth, Texas, USA, for 12 months and right now having collaboration with National institutes like IISER and CCMB. Received prestigious awards like DST young scientist, ICUH international travel award to visit USA and Associate Fellow of Andhra Pradesh Academic of Sciences. Reviewer for several journals and executive editor for IJCAP.

Administrative positions : Served as Advisory board member for S.V. Zoo Park, nominated by Government of Andhra Pradesh, India. Board of Studies member for Department of Zoology, Department of Aquaculture and Department of Biotechnology. Serving as Deputy Warden for hostels, College of Sciences. Coordinator for conducting refresher courses and Co-Coordinator for District Environmental Center of NESAC, New Delhi.



Dr. Y. Suneetha, M.Sc., Ph.D.



Area of Research : Genomics, Cancer Biology, Drug designing and Micro RNA profiling

Research Accomplishments : Dr. Y. Suneetha has been working as Associate Professor in the Department of Zoology. Joined in the University service in 2007. Received International Fellowship from the Indian Council of Medical Research, New Delhi to carry her research/training. Completed four major research projects funded by UGC, DBT and ICMR. Currently working on cancer specific drug targeting and therapeutics. Dr. Suneetha has publications in several prestigious journals including Human Genetics, PLOS one, International Journal of Molecular Sciences.

Supervised seven students for PhD and M.Phil., supervising six students. Active member at the American Society of Clinical Oncology, Society of Toxicology and technical editor for the International

journal of Cancer research and joint executive editor for Indian journal of Comparative Animal Physiology. Authored 80 original research articles, reviewed several research articles in reputed journals such as PLOS ONE, Medicinal chemistry Research (Springer), Onco Targets and Therapy, Food Chemistry: X, Metagene (Elsevier) etc, and presented her research data in several National and International conferences. Organized several National and International Conferences. Published 2 books and 10 book chapters

Awards : ICMR HRD International Fellowship in Texas Tech. Health Science Centre, Lubbock, USA and UGC Research Award. Received ICMR-DHR International Fellowship and worked in the University of North Texas Health Science Centre, USA and Dr. Indiranath Award for the year 2020 under Excellent Women Scientist of A.P. from the Govt. of Andhra Pradesh, DST-SERB-Travell Grant award, USA.Fellow, Society for applied Biotechnology, 2015.Associate Fellow, Andhra Pradesh Akademi of Sciences,2016.University Merit Fellow. Sri Venkateswara University, Tirupati

Administrative Positions Held : Deputy Warden, Sri Venkateswara University Hostels for women. Joint Secretary, Sri Venkateswara University Women Teachers Association, Sri Venkateswara University.Member of the Board of Studies in Department of Fishery Science and Aquaculture, Sri Venkateswara University. Chairperson, Board of Studies in Environmental Studies, DRW College, Gudur. Member, Board of Studies in Department of Zoology, Sri Venkateswara University. Member Board of Studies in Department of Zoology, Bangalore North University, Karnataka. Member, DST PURSE, Sri Venkateswara University

Academic Consultants

Dr. Obaiah Jamakala is working as Academic Consultant in the Department of Zoology, Sri Venkateswara University, Tirupati from 2014 to till date i.e, 9 years of post-graduate teaching experience. Specialized in the field of Environmental Toxicology and Animal Physiology. Published more than 35 research papers in National and International peer reviewed journals of high repute and presented his research work at more than 46 National /International Conferences / Seminars / Symposiums. Published 5 books and 3 book chapters. Life member of National Environmental Science Academy (NESAs), New Delhi, Indian Society for Comparative Animal Physiology and Indian Science Congress Association, Kolkata, India. Project Fellow (PF), Senior Research Fellow (SRF) and Research Associate (RA). Attended 35 Workshops, 80 National/International Conferences / Seminars / Symposiums, 23 National/International webinars and 6 Faculty Development programmes organized by various Universities / Institutions to enrich Research and Teaching Skills. Editorial Board Member for 8 Journals and Reviewer for 6 Journals. Received 8 research awards in Conferences / Seminars and various scientific bodies.



Dr. CHINTADA VIVEK has 5 years of Teaching experience in Zoology, SVU. Area of Research is Toxicology and Animal Physiology. Worked as UGC-BSR Merit Fellow under RFSMS Scheme at ANU, Guntur and URF- Merit Fellow at Acharya Nagarjuna University. Bagged State Level 3rd Rank in ANUPGCET. Member of ISCA and IJCRT RMS. Authored 5 book chapters, Editor for one book and published 32 research articles in peer reviewed National and International journals. Attended 17 workshops, 28 Seminars, 9 Webinars and 28 Papers presented in National/International Seminars. Attained 02 certificate of appreciations for conduct of SZIUVBWT-2015 and Brain Storming Sessions. Received 06

certificate of merit in College day celebrations, Trained and Completed bonafide project work on Scientific Instruments Operation techniques, Celon Laboratories Ltd. Hyderabad. Received certificate of merit from Jawahar Knowledge Centre, Govt.of Andhra Pradesh.

Dr. A. Govardhan Naik is working as Academic Consultant in the Department of Zoology, S.V University, Tirupati from 2018 to till date 4 years of teaching experience. Published 22 Papers in various journals, National and international. Attended 20 National and international conferences /Seminars and webinars. Specialized in Reproductive physiology and Endocrinology.



Dr. Ganjikunta Venkata Subbaiah working as academic consultant in Department of Zoology, S.V. University Tirupati from 2019 to till date putting up total teaching experience 7 years. Specialized in Ethnopharmacology and Molecular Biology. Published more than 47 papers in various National and International journals and attend and presented more than 37 National and international Conference/seminars/ Workshops. Completed DST-SERB PDF from 2015 to 2018. UGC-BSR Merit Fellow under RFSMS Scheme. Project Fellow (PF), Senior Research Fellow (SRF) Reviewer in reputed journal Disease and Marker, Life time member in Indian Science Congress and Indian journal of comparative animal physiology and published 3 book chapters



Dr. Erla Komali Working as Academic Consultant in Department of Zoology, S.V. University, Tirupati from 07.09.2019 to till date putting up total teaching experience 6 years. Published 5 papers in various National and International journals and Attend 15 National and International Conference /Seminars /Workshops participated. Specialized in Neurotoxicology and Molecular Biology.



Dr. Shanmugam Bhasha is working as Academic Consultant in the Department of Zoology, Sri Venkateswara University, Tirupati from 2018 to till date i.e., 5 years of post-graduate teaching experience. Specialized in the field of Molecular Biology and Ethnopharmacology. Published more than 40 research papers in National and International reputed journals with considerable impact factor. Presented / attended/ participated more than 50 ational/International seminars /workshops/ webinars. Active life member in 5 prestigious scientific bodies and also Associate Fellow of Andhra Pradesh Akademi of Sciences and Young scientist award received from NESAI in 2020.



Dr. P.N. Pallavi is working as academic consultant in Animal Biotechnology in the Department of Zoology, S.V. University, Tirupati from 2018 - 2022 to till Date putting up 5 years of Teaching experience. Published 7 papers in various journals, National and international. Attended 15 National and international Conferences / Seminars and 10 Webinars participated.



Dr. K. Praveen Kumar working as Academic consultant, Animal Biotechnology, Department of Zoology, SV University, Tirupati from 7-9-2019 to till date (4 years). Completed Doctor of Philosophy from Sri Venkateswara University, Tirupati, and Andhra Pradesh, India and joined as post-doctoral fellow in Medical College of Shantou University, Shantou, China and studied the impact of L1 mimetics on Alzheimer's Disease. Research work is mainly focused on developmental neurotoxicity studies of heavy metals and its therapies. Received UGC-BSR Meritorious Research Fellowship-New Delhi and Young Scientist award for best research work presentation. Published twelve international publications with high impact factor and participated in several national and international seminars



Dr. M. Neeraja Reddy is working as academic consultant in M.Sc., Animal Biotechnology, in the Department of Zoology, S. V. University, Tirupati from 09-09-2022 to till date having 4 years of experience. Previously worked as Guest faculty for two years i.e. from 10-07-2010 to 24-05-2012 in the Department of Biotechnology, Acharya Nagarjuna University, Guntur and completed PhD in the Department of Biotechnology in Acharya Nagarjuna University, Guntur, Andhra Pradesh, India. Research work comprised the study on "Breast Cancer Incidence in Guntur District and Its Environs and the Possible Causative Factors and In-Vivo Molecular Studies". Published 14 research publications in both National and International journals.



Courses offered

The Department is offering M.Sc., Zoology and M.Sc., Animal Biotechnology courses under Choice Based Credit System and M.Sc., Zoology through Distance mode under annual pattern. In addition, the Department has research programmes namely Ph.D.

Laboratories

The Department has the credit of having well established Laboratories such as P.G. labs, Centralized Research labs (DRS) with sophisticated equipment, Cell & Tissue Culture laboratory, Computing facility with internet connectivity, Museum and Animal house.

MUSEUM



Ph.D's awarded : 57

Post doc's - 04



Bio-informatics
Infrastructure Facility



Atomic absorbance
spectrophotometer



Ultra Centrifuge



Laminar Air flow

Bioinformatics Infrastructure Facility Centre



Brief summary about BIF Centre : The Bioinformatics Infrastructure Facility (BIF) was established in the Department of Zoology, Sri Venkateswara University, Tirupati with the financial assistance from the Department of Biotechnology (DBT), New Delhi on 25th June 2010 for Bioinformatics Teaching and Research. The Centre has procured several hardwares and softwares, high speed internet and these infrastructure facilities were extended to all disciplines of Life Sciences in campus to carry out their research work and project works in the field of Bioinformatics, Biotechnology, Computational Biology, Drug Discovery, Ethanopharmacology and Human Diseases etc. The Research person working at this centre import training to the Research Scholars and PG students in Bioinformatics teaching and research activities. Further the centre has been focusing research work in Molecular Modeling, Molecular Dynamics, Drug Targeting & Drug discovery, Genomics, Proteomics, Pharmacophore, Chemoinformatics, and NGS etc., this centre has the privilege of Conducting the 26th BTIS'net Annual Co-Ordinator's Meeting and National conferences and Bioinformatics workshops and received lot of appreciation from Researches and scientist/academicians. The Centre has received "INCENTIVE AWARD FOR PUBLICATIONS" for Two years i.e. 2014 and 2016 from DBT, New Delhi for its contributions in Biotechnology and Bioinformatics Research and Development. Data bases were developed for Cancer Genes and Markers, Alzheimer's. New inhibitors were Identified against cancer, Human disease, Neurodegenerative disorders and Viraldiseaseagainst genes/proteins. Essential gene identified as potential for drug development deposited in NCBI. One M.Phil., 19 Ph.D.'s awarded in pure Bioinformatics.

Department projects - Details:

Name of the Scheme/Project	Name of the Principal Investigator	Name of the Funding agency	Year of Award	Funds provided (INR in lakhs)	Duration of the project
UGC-SAP	Prof. M. Srinivasulu Reddy, Prof. P. Jacob Doss	UGC, New Delhi	2013 - 18; 2018 - 22	74,00,000/-	5 Years
DST - FIST	Prof. P. Jacob Doss	DST, New Delhi	2016 - 2021	1,02,00,000/-	5 Years
UGC-BSR Faculty Fellowship	Prof. W. Rajendra	UGC, New Delhi	2017 - 2020	33,00,000/-	3 Years
UGC-Major Project	Prof. K. Yellamma	UGC, New Delhi	2015 - 2018	16,08,800/-	3 Years
UGC-ISF Research Programme	Prof. P. Sreenivasula Reddy	UGC, New Delhi	2017 - 2020	1,37,00,000/-	3 Years
UGC-Major Project	Prof. A. Usha Rani	UGC, New Delhi	2015 - 2018	15,99,000/-	3 Years
ICMR International fellowship Project	Dr. M. Rajasekhar	ICMR, New Delhi	2017 - 2018	24,70,000/-	1 Year
ICMR-Major Project	Dr. Y. Suneetha.	ICMR, New Delhi	2017 - 2020	30,00,000/-	3 Years
UGC-BSR Faculty Fellowship	Prof. K. Sathyavelu Reddy	UGC, New Delhi	2018 - 2021	33,00,000/-	3 Years
DBT - RRSFT Programme	Prof. M. Bhaskar	UGC, New Delhi	2018	9,90,05,840/-	2 Years
UGC-BSR Faculty Fellowship	Prof. M. Bhaskar	UGC, New Delhi	2019 - 2022	33,00,000/-	3 Years
ICMR-Major Project	Prof. M. Bhaskar	ICMR, New Delhi	2020 - 2021	24,81,190/-	2 Years
DBT supported Bioinformatics Infrastructure Facility	Prof. M. Srinivasulu Reddy	DBT, New Delhi	2020 - Till date	30,00,000/-	----
ICMR-Major Project	Dr. M. Rajasekhar	ICMR, New Delhi	2020 - 2023	30,00,000/-	3 Years
DST -SERB	Dr. M. Rajasekhar	DST, New Delhi	2022 - 2025	43,00,000/-	3 Years

Fellowships - staff, students:

Name of the Awardee	Title of the Fellowship	Year of Award	Name of the Awarding Agency
Prof. W. Rajendra	UGC-BSR Faculty Fellowship	2017	UGC, New Delhi
Prof. P. Sreenivasula Reddy	UGC-BSR Faculty Fellowship	2017	UGC, New Delhi
Prof. K. Sathyavelu Reddy	UGC-BSR Faculty Fellowship	2018	UGC, New Delhi
Prof. M. Bhaskar	UGC-BSR Faculty Fellowship	2019	UGC, New Delhi
Dr. M. Rajasekhar	International Fellowship	2017	ICMR, New Delhi
Dr. Y. Suneetha.	ICMR - DHR International Fellowship	2020	ICMR, New Delhi

Conferences/Seminars/Workshops - organized - Details - Date, Title of Seminar/Conferences/Workshop, Funding agency Grant aid:

Name of the Workshop / Seminar	Funding agency	From - To	Year
Science Academies' Lecture Workshop on New Horizons in Biology	INSA, New Delhi	16 to 17 February, 2017	2017
National Lecture cum Workshop	DBT, New Delhi	24 to 25 March, 2017	2017
National Seminar on Aquaculture Production & Biodiversity Conservation and Environmental Toxicology (ABET-2017)	CSIR, New Delhi; DST, New Delhi; APCOST, Guntur	30 to 31 August, 2017	2017
National Conference on The current and future prospects of Animal Physiology and Biotechnology in Disease Control in the era of interdisciplinary Ethno pharmacology (APBDCE-2018)	UGC, New Delhi	29 to 30 August, 2018	2018
International Conference on "Advances in Biosciences and Technology: Impact on Plant, Animal and Human Health" (ICABT-2019)	CSIR, New Delhi; DBT, New Delhi; APCOST, Guntur; NBA, Chennai	24 to 26 December, 2019	2019
One Day Workshop on "Bioinformatics in Human Health	DBT, New Delhi	26 th December, 2019	2019
New horizons in cancer biology and therapeutics	ICMR, New Delhi	6-7 February, 2021	2021
Hands on training workshop on Flow Cytometry	ICMR, New Delhi	18- 20 April, 2022	2022

