

Dr. Shanti N. Dessai

Assistant Professor

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PROJECTS

Projects handled by Prof. Dessai, S.N. either as Investigator or Co-investigator

S. No.	Project title	Funding agency	Amount (Rs. in lakhs)	Duration
1	Culture and Characterization of Mantle Cells of Paphia malabarica (PI)	SERC-DST, New Delhi	18.50	February 2009 - February 2012
2.	Lipidomics of some fishes: Control of inflammatory diseases (Co-investigator)	DBT, New Delhi	29.00	October 2009- May 2013

PUBLICATIONS

1. **N. D. Shanti**, K.C. Shashikumar and P.V. Desai. 2004. Influence of proline on rat brain activities of alanine aminotransferase, aspartate aminotransferase and acid phosphatase. *Neurochemical Research* (29)12: 2197-2206. [doi:10.1007/s11064-004-7026-2](https://doi.org/10.1007/s11064-004-7026-2)
2. **N. D. Shanti**, and P.V. Desai. 2007. The Study of Na⁺, K⁺-ATPase Activity of Rat Brain during Crush Syndrome. *Neurochemical Research* (32)11: 1843-1848. [doi:10.1007/s11064-007-9370-5](https://doi.org/10.1007/s11064-007-9370-5)
3. **S. N. Desai** and P.V. Desai. 2007 Changes in Glomerular Filtration Rate and Renal Tubular Function under the influence of Monocrotophos. *Indian J Comp. Anim. Physiol.* 1-7.
4. **S. N. Desai** and P.V. Desai. 2007. Changes in renal clearance under the influence of monocrotophos in mice. In: *Diversity and Life processes from Ocean and land* Edited by P. V. Desai and R. Roy. Goa University Publication, India. 1st Edition, 105-113.

5. U. Garad, **S. N. Desai** and P. V. Desai. 2007. Toxic effects of monocrotophos on *Paramecium caudatum*. African Journal of Biotechnology (6) 19: 2245-2250. <http://www.academicjournals.org/AJB>
6. **S. N. Desai** and P.V. Desai. Changes in renal clearance and renal tubular function in albino mice under the influence of Dichlorvos. Pesticide Biochemistry and Physiology 91 (2008) 160–169. [doi:10.1016/j.pestbp.2008.03.008](https://doi.org/10.1016/j.pestbp.2008.03.008)
7. **S. N. Desai** and P.V. Desai. (2008) Aspartate aminotransferase and Alanine aminotransferase Activities of Rat Brain during Crush Syndrome. Neuroscience Letters 447 58–61. [doi:10.1016/j.neulet.2008.09.043](https://doi.org/10.1016/j.neulet.2008.09.043)
8. E. S. Nunes, **S. N. Desai** and P.V. Desai. (2009) Effect of Ferrous sulphate on Aspartate and Alanine aminotransferase Activities of Brain *Tilapia mossambica*. Food and chemical toxicity. Food and Chemical Toxicology, 48 (2010) 490-494. [doi:10.1016/j.fct.2009.10.045](https://doi.org/10.1016/j.fct.2009.10.045)
9. **S. N. Dessai**. 2012. Primary culture of mantle cells of bivalve mollusc, *Paphia malabarica* In Vitro Cellular & Developmental Biology – Animal, 48(8):473-477
10. I. Pereira, **S. N. Dessai**, and Annaliza Pinto. 2013. "Vitamin E-Induced Changes in Glutamate and GABA Metabolizing Enzymes of Chick Embryo Cerebrum," ISRN Neurology, vol. 2013, Article ID 851235, 8 pages, 2013. [doi:10.1155/2013/851235](https://doi.org/10.1155/2013/851235)
11. **S. N. Dessai**. 2018. Cryopreservation of cultured mantle cells of *Paphia malabarica* for perennial availability, Cryobiology 82: 93–98.
12. **S. N. Dessai**, 2019. Frontiers in Developmental Neurogenesis, In "Advances in Biological Science Research" (Eds), S. N Meena and M. M. Naik, Elsevier publication, 381-391. ISBN: 978-0-12-817497-5.
13. A.V. Naik, **S. N. Dessai** and K. Sellappan, K. (2021). Antitumour activity of *Annona muricata* L. leaf methanol extracts against Ehrlich Ascites Carcinoma and Dalton's Lymphoma Ascites mediated tumours in Swiss albino mice. *The Libyan journal of medicine*, 16(1), 1846862. <https://doi.org/10.1080/19932820.2020.1846862>
14. A. Shashikumar, R. Roy, **S. N. Dessai** (2021) Hepatocyte growth factor and fish oil facilitated reversal of D-galactosamine–induced toxicity in primary hepatocyte cultures of albino mice Nutrition:91–92,111466.

PRESENTATIONS/CONFERENCES

Conferences and symposium and seminar attended & presented papers:

- A. Third International/15th national Symposium on “Recent Trends in Life Science”, held on 11th –13th Feb. 1999, organized by department of zoology, Bangalore University and **presented research Paper** for the same entitled “Effect of Dichlorvos and Monocrotophos on the kidney of mouse, *Mus musculus*”.
- B. National Seminar on Frontiers in Zoology & National Symposium on Ocean as Source of Nutrients and drugs for 21st Century held on 22nd –24thFeb. 2006, organized by Department of Zoology, Goa University, Goa and **presented research paper** entitled “Changes in Renal Clearance under the Influence of Monocrotophos”.
- C. 23rd National Conference of the Indian society for comparative animal Physiology on “Frontiers in applied animal Sciences” held on 16th-18thOct. 2006, organized by Department of zoology, Shivaji University, Kholhapur and **presented research paper** entitled “Changes in Glomerular Filtration Rate and Renal Tubular Function under the influence of Monocrotophos”.
- D. UGC sponsored National seminar on “Current and emerging trends in animal science –an overview” from 26th -27th November, 2010, organized by SPC College of Arts and Commerce, Margao Goa. **Presented paper on** “MSG influence on cerebral enzymes of developing chick embryo”.
- E. UGC sponsored National seminar on “Current and emerging trends in animal science –an overview” from 26th -27th November, 2010, organized by SPC College of Arts and Commerce, Margao Goa. **Presented paper on** “Glutamate & GABA Metabolizing enzymes during developmental neurogenesis”.
- F. International Symposium on “Metabolic Signaling in Brain in health and diseases” held on 7th -9th January, 2011 at University of Hyderabad, AP. Organized by SSCI, India and school of Life Science University of Hyderabad. **Presented paper on** “Vitamin E-induced differences in glutamate and GABA-metabolizing enzymes during developmental neurogenesis.

- G. 4th Bharatiya Vigyan Sammelan organized at Kala Academy, Panaji, Goa, by Vijnana Bharati, Government of Goa in association with NIO and Goa University, Goa. **Presented paper on “Tamoxifen-induced Changes in Chick Embryo”.**
- H. 4th Bharatiya Vigyan Sammelan organized at Kala Academy, Panaji, Goa, by Vijnana Bharati, Government of Goa in association with NIO and Goa University, Goa. **Presented paper on “Antiepileptic drug, Phenobarbitone effects on Chick Embryo”.**
- I. International Conference on “Reproductive Physiology and Comparative Endocrinology” held on 20th -22nd January, 2018 at BITS Pilani, Goa, India, organized by department of Biological sciences, BITS, Pilani, K. K. Birla Goa Campus, Goa India in association with the Society for Reproductive Biology and Comparative Endocrinology. **Presented Paper on “Chick embryo Morphopathies due to Tamoxifen exposure.**
- J. Invited talk on “**Frontiers and Tools to Study Developmental Neurogenesis**” at 34th SNCI Annual Conference 2020 on “Brain Diseases, Injuries and Infections: Emerging Challenges and treatment strategies” held on 11th -13th December, 2020 at University of Hyderabad, AP.

Ph. D. Students

NIL

Other Information

Membership:

- **Life member of Indian Society for Comparative Animal Physiology (ISCAP) association.**
- **Life member of Society for Neurochemistry India (SNCI).**

- **Member Editorial Board for 'Neurochemical Research' Journal (ON INVITE)**

For a period 01/01/2011-2016

(Journal no. 11064, ISSN: 0364-3190 (print version), ISSN: 1573-6903 (electronic version) Impact Factor:3.996

Workshops/Orientation Program, Refresher course attended:

- A. Workshop on ENVIRONMENTAL AWARENESS- Conducted by Goa University & C.P.R, Environmental Education Centre-21st Dec.1994.
- B. UGC-Infonet E-Journals Consortium: "Access to Scholarly Electronic Journals/Databases under UGC-Infonet" held at Goa University during 1st-2nd Nov. 2004, organized by INFLIBNET Centre, Ahmedabad in collaboration with Goa University, Goa.
- C. UGC's Workshop on "Capacity building of women managers in higher education" conducted by dept. of Political science, Goa University & MES College, Zuarinagar, Goa from 15th -19th March, 2011.
- D. Workshop on INTELLECTUAL PROPERTY RIGHTS (IPR) MANAGEMENT - Conducted by BITS Pilani AND BITS Pilani K.K. Goa campus and supported by Ministry of small & medium enterprise, govt. of India, on 17th September,2011.
- E. One credit course on "ONB-103: Paradigm shift in Education and earning in 21st Century" conducted by Prof. Arvind Kudchadker, IIT, Mumbai, at Goa University from 26th August to 6th September 2013.
- F. 89th Orientation Programme organised by Academic Staff College, Goa University, Goa from 23rd September to 20th October, 2014. Supported by UGC, New Delhi.
- G. UGC-Sponsored Refresher Course in Life science (Inter Disciplinary) at UGC-HRDC, Goa University, Goa from 28th September to 18th October, 2018.
- H. Teachers training workshop on "Understanding Climate Change and sustainable development Goal for Safer planet and a Sustainable Future, held on 14th August, 2018, organised by UGC-HRDC, Goa University in association with The Climate Reality Project, India.

- I. 109th Faculty Induction Program (ONLINE) organised by , UGC-HRDC, Goa University, Goa from 9th February to 16th March 2021. Supported by UGC, New Delhi.
- J. Two-day FDP Conducted by Trinity Institute of Professional Studies, Dwarka on Topic "Outcome based Education" From 8th -9th September, 2020

Organized activities:

1. Organizing secretary for workshop on Hands on Training on “Modern Laboratory Techniques” from 11th -14th February, 2020 organized at Department of Zoology, Goa University.
2. Coordinator for “**Zoology Webinar**” scheduled from 1st- 4th February, 2021 organized at Department of Zoology, Goa University.
3. Organizing secretary for National Seminars on “**Life & Life Processes: Interdisciplinary Approach for Sustainable Development**” From 19th -21st July, 2021. Organized at Department of Zoology, Goa University Goa.

Mentoring Activities:

MH-SET and CSIR-UGC NET (Lifesciences) (2017-Till date)

Swachh Bharat Summer Internship (2021-2022)

Website links:

<https://scholar.google.co.in/citations?user=JUYcxflAAAAJ&hl=en>

<https://orcid.org/0000-0001-5239-2446>

<https://www.researchgate.net/profile/Shanti-Dessai>