

SCHOOL OF SCIENCES



Name: Dr. Sanjay S. Karn
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EDUCATIONAL QUALIFICATIONS

Ph.D. Zoology, 2015, Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar.

M.Sc. Zoology, 2009, Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar.

B.Sc. Microbiology, 2006, Sardar Patel University, Vallabh Vidyanagar.

Work Experience

Assistant Professor (08/2019 – ongoing), Department of Biosciences, Indrashil University, Rajpur, Mehsana, India

Temporary Assistant Professor, (07/2016- 07/2019), Department of Zoology, The Maharaja Sayajirao University, Vadodara, Gujarat India

Ad hoc Assistant professor, (06/2015 – 06/2016) Natubhai V Patel college of Pure and Applied Science, Vallabh Vidyanagar, Sardar Patel University, Gujarat India.

SUBJECTS TAUGHT

- Physiology (BIO AB 501)
- Reproduction and Developmental Biology (BIO M 502)
- Biological diversity of Gujarat (BIO 1 103)

RESEARCH AREA

In the field of Physiology, metabolic disorders, Fluoride toxicity, Ethnopharmacology, role of nutraceuticals and Formulated food.

Focus of my research area is to understand the adverse effect of fluoride on metabolic disorders like diabetes, hypercholesterolemia and hyperlipidemia its effect on physiology. The role of plant products and whole grains in ameliorating the adverse effect of reactive oxygen species generated by toxicants. Effect of multigrain diet and plant supplements in formulating a diet

which can be useful to overcome or reduce the adverse effect of different ROS generating toxicant which leads to metabolic toxicity.

KEY PUBLICATIONS

- **Sanjay S. Karn**, Rupal A. Vasant, Richa B. Tripathi, A. V. R. L. Narasimhacharya. 2016, Antidiabetic and antioxidant effects of a multigrain diet. *International journal of pharma sciences and research*. 7[6]:284-289.
- **Sanjay S. Karn** and A.V.R.L. Narasimhacharya. 2014, Physiologic and metabolic benefits of formulated diets and *Mangifera indica* in fluoride toxicity. *Journal of Dietary Supplements*, DOI: 10.3109/19390211.2014.952857.
- Rupal A. Vasant, Namrata D. Patel, **Sanjay S. Karn**, Amaravadi V. R. L. Narasimhacharya, 2014, Physiological role of a multigrain diet in metabolic regulations of lipid and antioxidant profiles in hypercholesteremic rats *Journal of Pharmacopuncture* 17[2]:034-040.
- Rupal A. Vasant, Elizabeth R.C. Vincent, **Sanjay S. Karn**, Narasimhacharya V.R.L. Amaravadi. 2014, Multigrain diet mitigates fluoride induced metabolic toxicity *Journal of Environmental and Occupational Science* 3(1):25-30.
- **Sanjay S. Karn**, Sanjay B. Pandavadara, Rupal A. Vasant, AVR.L. Narasimhacharya. Lovastatin improves fluoride-induced hypercholesterolemia in albino rats. 2014, *Fluoride* 47(1)69–77.
- Menaka C. Thounaojam, Ravirajsinh N. Jadeja, Ansarullah, **Sanjay S. Karn**, Jigar D. Shah, Dipak K. Patel, Sunita P. Salunke, Geeta S. Padate, Ranjitsinh V. Devkar, A.V. Ramachandran 2011 “Cardio protective effect of *Sidarhomboides*. Roxb extract against isoproterenol induced myocardial necrosis in rats” *Experimental and Toxicologic Pathology* 63: 351–356.

CONFERENCES

- Presented Poster “**Metabolic role of formulated diets in fluoride toxicity**” at National Symposium on Exploring Advances in Biological Sciences at Sardar Patel University Vallabh Vidyanagar, on 5th march 2016.
- Presented Poster “**Role of multigrain diet on lipid metabolism in hypercholesterolemic albino rats**” at National Conference on Interdisciplinary Perspectives: Defence studies, Earth system science and Bio-medical science at CISST Sardar Patel University, on 15th – 17th November 2013.
- Presented Poster, “**Physiological role of multigrain diet in Type-1 Diabetes**” at International conference of Diabetes and its complication at CHARASUT Changa, Anand on 18-20 January 2013.

- Presented poster, “**Protective effects of diets and *Limonia acidissima* on fluorosis in albino rats**” at National seminar on advances in Zoology and life processes. Held at department of zoology Goa University Goa, on 9th-12th February 2012.
- Oral presentation, “**Comparative beneficial effects of *Emblica officinalis* and *Mangifera indica* with formulated diets in fluoride induced toxicity**” at Two day symposium on innovation in science SPU research scholar meet (ISSPURSM-2012) at SPU, on 8th-9th January 2012.
- Presented Poster, “**Antihyperlipaemic, hepato- and renal protective effects of *Mangifera indica* L. supplemented formulated diets in fluoride toxicity**” National seminar on functional foods: managing health in the modern age. Held at department of home science, Sardar patel University Vallabh Vidyanagar, Gujarat on 7th and 8th October 2011
- Presented Poster, “**Antioxidant potential of multigrain diets with Mango fruit powder in fluoride toxicity**” International conference on New Horizons in Biotechnology, at Trivandrum Kerala, 21st-24th November, 2011.
- Oral presentation, “**Effect of formulated diets supplemented with *Emblica officinalis* on carbohydrate and lipid profiles in fluoride induced toxicity in rats**” at National seminar on Trends in Biological Sciences at Department of Bioscience Sardar patel University Vallabh Vidyanagar, Gujarat on 28th -29th Jan 2011
- Oral presentation, “***Emblica officinalis* as a dietary supplementation in Fluoride intoxicity**” at XXIX conference of the International society for fluoride Research, at Rajasthan University Jaipur, on December 2nd – 5th 2010.

WORKSHOP/TRAINING

One day Faculty development programme for faculty of technical courses organized by Indian Institute of Teacher Education, Gandhinagar.