

Dr. RAGHUNANDAN P, Ph. D.

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Shivamogga, Karnataka, 577201

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EDUCATIONAL QUALIFICATION

2014 – 2019 **Ph.D. in Biochemistry**, University of Mysore, Karnataka, India.

Doctoral work: *'Nuclear receptor PPAR γ and intestinal lipid transporter SR-B1 in enhancing carotenoid absorption and their mechanism of action in dyslipidemia.'*

Under the supervision of **Dr. S. Nanjunda Swamy**, Associate Professor, Dept. of Biotechnology, Sri Jayachamarajendra College of Engineering, Mysore.

2011 – 2014 **DBT- Project JRF** Central Food Technological Research Institute (CFTRI), University of Mysore, Karnataka, India.

Worked on: *'Marine carotenoids as nutraceuticals for alleviating age-related macular degeneration and retinol deficiency induced biochemical changes.'*

(DBT grant aided project 392)

Under the supervision of **Dr. V. Baskaran**, Senior Principal Scientist and Head, Department of Biochemistry, CSIR-CFTRI, Mysuru, India.

July 2011 **NET (Lectureship)**, Joint CSIR- UGC **National Eligibility Test**

2009 – 2011 **M.Sc. in Biochemistry**, University of Mysore, Mysuru, Karnataka, India. (*1st Class, 64.6%, year of passing: 2011*).

Masters Dissertation: *'Comparative study of Indian snake venom and their response towards commercial anti-venom.'* Under the supervision of **Dr. K Kemparaju**, Professor, Department of Biochemistry University of Mysore.

2006 - 2009 **B. Sc. In Botany, Biochemistry and Microbiology, Sahyadri Science College**

(AUTO) Kuvempu University, Shivamogga, Karnataka, India. (*1st Class, 87.8%, year of passing: 2009*)

RESEARCH EXPERIENCE

Presently guiding students towards their master's project work on research experiment planning and scientific writing. Faculty member of Food Technology Forum and organizing committee member at Food technology department, Kuvempu University for Conferences and food fests.

2014- 2019, SJCE, Mysuru.

Doctoral researcher

The role of nuclear receptor PPAR γ and intestinal lipid transporter SR-B1 in enhancing carotenoid absorption and their mechanism of action in dyslipidemia.

2011- 2014, CSIR-CFTRI, Mysuru.

Project JRF

Marine carotenoids as nutraceutical for alleviating age-related macular degeneration and retinol deficiency induced biochemical changes.

Research Works During Masters and Bachelors program

1. *Comparative study of four indian snake venoms and their neutralization by commercial anti venom*, at Department of studies in biochemistry, University of Mysore, Karnataka, India (2011).
2. Botany- *Pteridophyte diversity in Agumbe, Shivamogga District.*
3. Biochemistry- *Toxicology (Dissertation)*
4. Microbiology- *Actinomycetes from the estuarine sediments of Honnavar, Uttara Kannada Dist.* (Sahyadri Science College (AUTO), Kuvempu University, Shimoga, Karnataka, India.)

SKILLS and TECHNIQUES

- Plant taxonomy, phytochemistry and evaluation of traditional food and medicine.
- Animal Handling, Breeding, invivo, exvivo and invitro experimentation.
- Microbiological, plant and animal cell culture studies
- RT- PCR, western blotting and basic molecular techniques
- Bright field and fluorescence microscopy
- Data Analysis using Graph Pad

TEACHING AND TRAINING EXPERIENCE

1. January 2024- Present
Guest Lecturer (**Full time, contractual**)
Department of PG Studies and Research in Food Technology, Kuvempu University
2. February- October 2023
Guest Lecturer (**Full time, contractual**)
Department of Biochemistry, Government Science College, Hassan
3. December 2020- March 2023
Assistant Professor and Head
Department of Botany, GMS Academy First Grade College, P B Road, Davanagere
4. August 2018- November 2020
Assistant Professor (**Full time, contractual**)
JSS College for Women, Saraswathipuram, Mysuru.
5. September 2017- February 2018
Guest Lecturer (Post Graduate)
Department of Biochemistry, Pooja Bhagavat Memorial Post graduation center, Mahajana's College, Metagalli, Mysuru.
6. 2012- 2014 (CSIR-CFTRI Mysore)
Research supervisor for Dissertation students
Guidance and supervision of graduate students on research experiment planning and scientific writing. Lead seminars and oral presentations for improvement of scientific thinking.

PUBLICATIONS

1. Shankara H Nanjegowda, Manasa G Papanna, **Raghunandan Purohith**, Bharathi TR, Prakash HS, Mallu P, Nanjunda Swamy Shivananju, (2018), *Metabolite Profiling of fruit and seed extracts of Garcinia xanthochymus using RP-HPLC-ESI-Q-TOF-MS and Progenesis QI*, *Current metabolomics*, DOI: <https://doi.org/10.2174/2213235X06666181005143806>.
2. **Raghunandan P**, Baskaran V, Priya B S and Nanjunda Swamy S, (2019), *Intestinal absorption of Astaxanthin and Fucoxanthin; role PPAR γ and SRB1 and modulation by selected PPAR γ ligands – Accepted in National Journal of Physiology Pharmacy and Pharmacology*.
3. **Raghunandan P**, Nagendra Prasad M N and Nanjunda Swamy S, (2019) **Beneficial role of dietary carotenoids in managing Metabolic syndrome and association of PPARs in the process- Accepted in Current Nutrition and food Science.**
4. Venkatesh B K, **Raghunandan P** and Nanjunda Swamy S, *Beneficial and Deleterious Roles of Oxygen and Reactive Oxygen Species in Healing of Cutaneous Wounds*, (2019), International Journal of Pharmacy and Pharmaceutical Research.
5. **Raghunandan P**, Baskaran V, Priya B S and Nanjunda Swamy S, *Dietary Astaxanthin and Fucoxanthin ameliorate Diet Induced Obesity in Rats. - Communicated Clinical Nutrition ESPEN.*

AWARDS AND FELLOWSHIPS

Dr. Raghunandan P, Ms. Aishwarya M, Ms. Bindu N C and Ms. Ramya S S, *Edible Cutlery Using Millet Flour- Nutritional and Sensory Evaluation- Best Oral Presentation Award (III Prize)- presented at the International Conference on Environmental, Chemical & Synthetic Biology towards sustainable Development, 21-22 Nov- 2024. Vel-Tech University, Chennai.*

CONFERENCES AND WORKSHOPS

Raghunandan P, Rajeswari G and Baskaran V, *Database on the the vitamin-A (retinal activity equivalent), eye-protective carotenoids and polyphenols in folk medicinal plants.*

Poster presented in XV International Food data Conference, 03- 05 NOV- 2015, NIN, Hyderabad, India.

PROFESSIONAL SOCIETY ASSOCIATION

- Member of the Society of Biological Chemists (SBC), India, from 2013-present, and
- Association of Microbiologists of India (AMI) from 2012-present.

- **PERSONAL DETAILS**

- **DOB:** 12.09.1987
- **FATHER'S NAME:** MADHAVAMURTHY P
- **NATIVE PLACE:** SHIMOGA, KARNATAKA
- **NATIONALITY:** INDIAN
- **MARITAL STATUS:** MARRIED
- **RELIGION/ CASTE:** HINDU/ BRAHMIN

REFERENCES

Dr. S. Nanjunda Swamy

Doctoral Supervisor

Associate professor

Dept. of Biotechnology

Sri Jayachamarajendra College of
Engineering Mysuru- 570005, India.

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Dr. Sathisha G J

Professor & Chairman

Department of Food Technology

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Shimoga- 577451, India

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