

Brief Resume

Name: Thiagarajan Raman

Designation : Assistant Professor & Head

Department/Institute/University : Department of Advanced Zoology & Biotechnology

Ramakrishna Mission Vivekananda College

Mylapore, Chennai - 5

Date of Birth : 09-12-1975

Education

Sl No	Institution Place	Degree Awarded	Year	Field of Study
1	Loyola College, Chennai	M.Sc.	1998	Zoology
2	Department of Zoology, University of Madras, Guindy Campus, Chennai	PhD	2006	Zoology

A. Research and Teaching Experience

Sl No	Institution Place	Position
1	Ramakrishna Mission Vivekananda College, Chennai	Assistant Professor
2	SASTRA University	Senior Assistant Professor
3	University of Colorado Denver, USA	Postdoctoral fellow
4	Centre for Cellular and Molecular Biology (CCMB), Hyderabad	Postdoctoral fellow

Honors/Awards

Undergraduate program

- Among the top-five students in the University class consisting of 200 students
- Proficiency prize in Zoology, based on academic excellence

Post Graduate program

- Lions Club of Madras Scholarship for academic excellence
- Mrs. Ballambal Trust Scholarship for academic excellence

Doctoral program

- Best researcher & presentation award at National Seminar on Comparative Animal Physiology held at Goa University, 13th to 15th December 2001
- Cleared SLET in Zoology, January 2000
- Junior Research Fellow, UGC, India

Current:

- **Editorial Board Member** – Toxicology Reports
- **Subject matter expert:** Metabolic Regulation, under ‘e-PG Pathshala’ – University Grants Commission (UGC), New Delhi.

B. Selected peer-reviewed publications

(for full list refer to: https://scholar.google.co.in/citations?hl=en&user=KxeTUjQAAAAJ&view_op=list_works)

1. **Thiagarajan, R.**, Arumugam, M and Mullainadhan, P. (2008). Agglutinin mediated phagocytosis associated generation of superoxide anion and nitric oxide by the hemocytes of the giant freshwater prawn *Macrobrachium rosenbergii*. Fish and Shellfish Immunology 24:337-345.
2. Radha, V., A. Rajanna, R.K. Gupta, K. Dayama, **R. Thiagarajan**. (2008). The guanine nucleotide exchange factor, C3G regulates differentiation and survival of human neuroblastoma cells. Journal of Neurochemistry. 107: 1424-1435
3. R. Manikandan, **R. Thiagarajan**, S. Beulaja, S. Chindhu, K. Mariammal, G. Sudhandiran and M. Arumugam. (2009). Anti-cataractogenic effect of curcumin and aminoguanidine against selenium induced oxidative stress in eye lens of Wistar rat pups: An *in vitro* study using isolated lens. Chemico-Biological Interactions. 181: 202-209.
4. R. Manikandan, **R. Thiagarajan**, S. Beulaja, G. Sudhandiran, M. Arumugam. (2010). Curcumin prevents free radical mediated cataractogenesis through modulations in lens calcium. Free Radical Biology and Medicine. 48: 483-492.
5. R. Manikandan, M. Beulaja, **R. Thiagarajan** and M. Arumugam. (2011). Effect of curcumin on the modulation of α A, α B crystallin and Hsp 70 in selenium-induced cataractogenesis in Wistar rat pups. Molecular Vision 17:388-394
6. Williams-Skipp, C, **Thiagarajan, R**, Valuck, R.J., Watkins, H., and Palmer, B., Scheinman, R.I. (2009). Unmasking of a protective TNFR1 mediated signal in the collagen arthritis model. Arthritis & Rheumatism. 60: 408-418.
7. R. Manikandan, **R. Thiagarajan**, S. Beulaja, G. Sudhandiran, M. Arumugam. (2010). Curcumin prevents free radical mediated cataractogenesis through modulations in lens calcium. Free Radical Biology and Medicine. 48: 483-492.

8. Sai Varsha, MKN, **Thiagarajan R**, Manikandan, R and Dhanasekar, G. (2015). Vitamin K1 alleviates streptozotocin induced type 1 diabetes by mitigating free radical stress, inhibiting NF-kB activation, and iNOS expression in rat pancreas. *Nutrition* 31: 214-222.
9. MKNS Varsha, **T Raman**, R Manikandan. (2015). Inhibition of diabetic-cataract by vitamin K1 involves modulation of hyperglycemia-induced alterations to lens calcium homeostasis. *Experimental Eye Research* 128, 73-82.
10. Azadeh Manayi, Mohammad Abdollahi, **Thiagarajan Raman**, Seyed Fazel Nabavi, Solomon Habtemariam, Maria Daglia, Seyed Mohammad Nabavi. (2015). Lutein and cataract: from bench to bedside. *Critical Reviews in Biotechnology* 8:1-11.
11. **Thiagarajan R**, Manikandan R, Arumugam M, Nabavi SM, Sai Varsha MKN. (2016). Cytoprotective mechanism of action of curcumin against cataract. *Pharmacological Reports* 68: 561–569.
12. Premranjan K, **Thiagarajan R**, Mitali M S, Rangnath M, Artatrana P. (2016). Hyperglycemia-induced oxidative-nitrosative stress induces inflammation and neurodegeneration via augmented tuberous sclerosis complex-2 (TSC-2) activation in neuronal cells. *Molecular Neurobiology* DOI 10.1007/s12035-015-9667-3.
13. Asaithampi G, Rene Christena L, Subbarao HMV, Venkatasubramanian U, **Thiagarajan R**, Sivaramakrishnan V, Kabilan K, Saisubramanian N, Selva Ganesan S. (2016). Identification of benzochromene derivatives as a highly specific NorA efflux pump inhibitor to mitigate the drug resistant strains of *S. aureus*. *RSC Advances* 6 (36), 30258-30267.
14. Rene Christena L, **Thiagarajan R**, Himesh VM, Venkatasubramanian U, Selva Ganesan S, Ashok Ayyappa K, Anisha M, Sundaresan CN, Saisubramanian N. (2016). Dithiazole thione derivative as competitive NorA efflux pump inhibitor to curtail multi drug resistant clinical isolate of MRSA in a zebrafish infection model. *Applied Microbiology Biotechnology*. 100 (21), 9265-9281
15. Cheepurupalli L, **Thiagarajan R**, SS Rathore SS, Ramakrishnan J. (2017). Bioactive molecule from *Streptomyces sp.* mitigates MDR *Klebsiella pneumoniae* in zebrafish infection model. *Frontiers in Microbiology* 8, 614.
16. Cheepurupalli L, **Thiagarajan R**, Rathore SS, Manikandan R, Arumugam M, Jayapradha R. (2017). ASK2 bioactive compound inhibits MDR *Klebsiella pneumoniae* by antibiotic activity, modulating macrophage cytokines and opsonophagocytosis. *Frontiers in Cellular and Infection Microbiology* 7, 1-14.
17. Sudarshan SR, Muthukrishnan I, Sridharan V, David Raj C, Lalitha C, **Thiagarajan R**, Jayapradha R. (2017). Exploration of antifungal and immunomodulatory potentials of a furanone derivative to rescue disseminated Cryptococcosis in mice. *Scientific Reports* 7, 15400
18. Rene CL, Akshaya R, Niranjana Sri S, Aswin S, Vidhyalakshmi M, Himesh S, Venkatasubramanian U, **Thiagarajan R**, Anand S, Saisubramanian N. (2017). Norfloxacin salts of carboxylic acids curtail planktonic and biofilm mode of growth in ESKAPE pathogens. *J Appl Microbiol.* doi: 10.1111/jam.13651.
19. Vinod Kumar V, **Thiagarajan R**, Philip Anthony S. (2017). Fluorescent carbon quantum dots chemosensor for selective turn-on sensing of Zn 2+ and turn-off sensing of Pb 2+ in aqueous medium and zebrafish eggs. *New J. Chem.*, 41, 15157-15164.

c. Research Support

Ongoing Research Projects

Sl No	Title of Project	Funding Agency	Amount	Date of sanction and Duration
1.	Bio-prospecting drugs from marine Streptomyces in bioconsortia for anti-cancer and immunostimulant activities	SERB	30 lakhs	17-6-2016 and 3 years

Completed Research Projects

Sl No	Title of Project	Funding Agency	Amount	Date of completion
1	Studies on the mechanism of anti-inflammatory action of TNFa in relation to autoimmune disease.	SERB	23 lakhs	10-10-2015