

**Name and Qualification:** Dr. Kavitha R Thangaraj. MSc, MPhil, PhD

**Designation with Address of the Institution:**

Assistant Professor  
Department of Biomedical Sciences  
Faculty of Biomedical Sciences and Technology  
Sri Ramachandra Institute of Higher Education and Research (D.U)  
Porur, Chennai 600116, India.

**Education:**

Institution and Location	Degree (UG/PG/ PhD)	Year Conferred	Field of Specialization
D.K.M Women's College, Vellore/University of Madras	UG	2002	Biochemistry
D.K.M Women's College, Vellore/University of Madras	PG	2005	Biochemistry
Dr. A.L.M PG Institute Basic Medical Sciences, Taramani Campus, Chennai	PG/M.Phil	2006	Endocrinology
Christian Medical College & Hospital/ The Tamil Nadu Dr. M.G.R Medical University, Vellore	PhD	2015	Biochemistry

**Teaching & Research Experience:      Research Experience**

Institute	From	To	Designation
The Wellcome Trust Research Laboratory, Division of Gastro intestinal Sciences, Christian Medical College & Hospital, Vellore	2015	2017	Senior Research Fellow
The Wellcome Trust Research Laboratory, Division of Gastro intestinal Sciences, Christian Medical College & Hospital, Vellore	2017	2018	Research Associate
Department of pediatric ortho, Centre for Stem cell Research (CSCR, inStem), Christian Medical College campus,	2018	2019	Research Coordinator
Department of Human Genetics, Sri Ramachandra Institute of Higher Education and Research (DU), Chennai	2019	2022	DST Women Scientist

**Research Interests:**

- Identifying Hydrogen Sulphide Role in Inflammatory Bowel disease.
- Hydrogen sulphide toxicity study in pancreatitis.

**TOXICOLOGY STUDY**

- Role of Nitric Oxide and Mitochondrial Calcium Handling In Muscle Paralysis Induced By Acute Organophosphate Poisoning.
- Long chain fatty acid toxicity in Acute fatty liver of pregnancy.

**Research Projects Conducted:**

- DST Women Scientist Grant worth 32 Lakhs from the KIRAN division, Department of Science & Technology, Ministry of Science and Technology.
- Project Title: Identifying Hydrogen Sulphide Role in *in vitro* Model of Inflammatory Bowel Disease.

**Ph.D. Research Guidance:** N/A

**Post graduate Project Guidance:** N/A

**Under Graduate Project Guidance:** N/A

**Conferences/Workshops/Seminars Organized:**

**Workshop**

- One of the organizing secretary for the workshop ASM-IUSSTF Indo-US Teaching Professorship Program Workshop on “Introduction to Molecular Phylogenetics and Virus Evolution. Organized by University of Cincinnati, USA and YRG CARE Infectious Diseases Laboratory & SRIHER Faculty of Biomedical Sciences, Technology and Research on Oct 2019.

**International Symposium**

- As Research Coordinator I Organized an international symposium on “Translational Research in Osteogenesis Imperfecta & Cell Therapy at Center for stem cell Research (CSCR, inStem Campus), Christian Medical College and Vellore on Feb 2019

## **Workshop Participated**

- Participated in a workshop EMBL-EBI-IBAB workshop, “Analysis of Next Generation Sequencing data” at Institute of Bioinformatics and Applied Biotechnology (IBAB), Bangalore Nov 2018.
- Attended short course on fundamentals of biostatistics, principles of Epidemiology & SPSS held in Department of Biostatistics (BRTC), Christian Medical College in 2017.

## **Conference presentations (Oral and Poster):**

- Presented a poster in 17<sup>th</sup> Indo-US Cytometry workshop “Applications of Laser Flow Cytometry in Biomedical Research held in Indian Institute of Sciences and National Centre for Biological Sciences, Bangalore Jan 2020
- Presented a poster in 10<sup>th</sup> Winter symposium “Cellular and Molecular Medicine: Cancer, Stem cells & inflammation. Christian Medical College. 2012.
- Presented a poster in XXV- National Symposium on Reproductive Biology and Comparative Endocrinology (SRBCE 2007) held at Trivandrum, Kerala.

## **Academic and/or Research awards:**

- **DST Women Scientist Scheme A.**

## **Publications (Journals):**

1. Raised plasma levels of H<sub>2</sub>S and nitrate predict intra-pulmonary vascular dilations- A preliminary report in patients with cryptogenic cirrhosis. Indian Journal of Gastroenterology. 2018; 37(3):209-214. (IF 1.30)
2. Qureshi IN, David D, **Thangaraj KR**, Kurien RT, Chowdhury SD, Goel A, Dutta AK, Simon EG, Ramachandran A, Balasubramanian KA, Joseph AJ. Plasma hydrogen sulphide does not predict severity of acute pancreatitis in humans. Indian J Gastroenterol. 2016;35(6):478-481. PMID: 27796938. (IF 1.30)
3. **Thangaraj KR**, Priyadarshini SJ, Qureshi IN, Joseph AJ, Balasubramanian KA, Ramachandran A. Plasma Citrulline, Glycans, and Hydrogen Sulfide in Patients With Acute Pancreatitis: Possible Markers of Intestinal Damage. Pancreas. 2016 ;45(6):27-9. PMID:27295536. (IF 2.92)
4. Kini AT, **Thangaraj KR**, Simon E, Shivappagowdar A, Thiagarajan D, Abbas S, Ramachandran A, Venkatraman A. Aberrant Niche Signalling in the Etiopathogenesis of Ulcerative Colitis. Inflamm Bowel Dis. 2015;21(11):2549-61. PMID: 26197452. (IF 4.52).
5. Raghupathy V, Goel A, **Thangaraj KR**, Eapen CE, Balasubramanian KA, Regi A, Jose R, Benjamin SJ, Ramachandran A. Absence of G1528C mutation in long-chain 3-hydroxyacyl-CoA dehydrogenase in four Indian patients with pregnancy-related liver disease. Indian J Gastroenterol. 2014;33(4):387-9. PMID: 24105666. (IF 1.30)

6. G. Jayakumar Amirtharaj, **Kavitha R. Thangaraj**, Archana Kini, Raghupathy V, Ashish Goel, Eapen C.E, Aparna Venkatraman, Anna B. Pulimood, Balasubramanian K.A, Anup Ramachandran. Acute liver injury induced by low dose dimethylnitrosamine alters mediators of hepatic vascular flow. Toxicology Reports. 2014; 1: 707–717. (IF 4.81)
7. Natarajan SK, **Thangaraj KR**, Goel A, Eapen CE, Balasubramanian KA, Ramachandran A. Acute fatty liver of pregnancy: an update on mechanisms. Obstet Med. 2011;4(3):99-103. PMID: 27579101. (IF 1.15)
8. Natarajan SK, **Thangaraj KR**, Eapen CE, Ramachandran A, Mukhopadhyaya A, Mathai M, Seshadri L, Peedikayil A, Ramakrishna B, Balasubramanian KA. Liver injury in acute fatty liver of pregnancy: possible link to placental mitochondrial dysfunction and oxidative stress. Hepatology. 2010;51(1):191-200. PMID: 20034024. (IF 14.68)

**University Industry Linked Consultancy (UILIC) and Biomedical Sciences In Time Training (BITT)**

S. No.	UILIC/BITT – Title of the research	Affiliation of the student
<b>1.</b>	<b>Animal Cell culture – BITT Program</b>	Anna University and Chettinad Academy of Research and Education

**Membership in Professional Bodies:**

- Annual Member in Society for Reproductive Biology and Comparative Endocrinology (SRBCE).

**Membership in University Committees:**

**Member Secretary** for the Prof. S. P. Thyagarajan Endowment Oration Committee – Faculty of Biomedical Sciences & Technology.