



Dr. SANGEETHA THANGAVELU Ph.D.,

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To be precise...

I have completed my **Ph.D., in Human Genetics and Molecular Biology** at Bharathiar University, Coimbatore. I am familiar with the molecular biology techniques, biochemical, haematological, genetic and epigenetic analysis of human blood samples. I have also gained a considerable experience in quantitative and qualitative phytochemical analysis along with the *in vitro* analysis during my Ph.D., programme. I have also published around **16** research and review papers (15 published + 1 under revision) in highly indexed National and International journals along with **three book** chapters. My doctoral dissertation has received **Highly commended** comments from Indian and Foreign examiners.

Educational Qualification – Ph.D.,

- Completed **SSLC** with **94%** at Mercy Matriculation Higher Secondary School, Kadaiyur, Kangayam, Tamil Nadu, India.
- Completed **HSC** with **87%** at Mercy Matriculation Higher Secondary School, Kadaiyur, Kangayam, Tamil Nadu, India.
- Completed **B.Sc., Biotechnology** at Nandha Arts and Science College, Erode, Tamil Nadu, India with **87.8%**.
- Completed **M.Sc., Human Genetics and Molecular Biology** at Bharathiar University, Tamil Nadu, India with **87.8%**.
- Completed course completion exam for **M.Phil., Human Genetics and Molecular Biology** at Bharathiar University, Tamil Nadu, India with **85%**.
- Completed **Ph.D., Human Genetics and Molecular Biology (Full Time)** at Bharathiar University, Tamil Nadu, India with **HIGHLY COMMENDED** thesis and Viva-Voce examination.

Other Courses Completed

- **Medical Laboratory Technician** with **DISTINCTION** offered by Bharat Sevak Samaj, IDK Educational Institution, Erode, Tamil Nadu in 2013.

- A course on “**A Recent Trend in Life Science Research with Special Reference to Molecular Imaging, Proteomics and Metabolomics**” during 12th to 16th February, 2018 at Bharathidasan University, Tiruchirapalli, Tamil Nadu with “**A**” Grade.
- A Skill certification course on “**Counselling Skills on Genetic Disorders**” at Bharathiar University, Coimbatore.

Miles stones of the Academic life

- Obtained **UNIVERSITY FIRST RANK (GOLD MEDALIST)** in M.Sc., Human Genetics and Molecular Biology, Bharathiar University
- Obtained **UNIVERSITY SECOND RANK** in B.Sc., Biotechnology, Bharathiar University
- Received **YOUNG ACHEIVER AWARD** from Bharathiar University, Coimbatore, Tamil Nadu, India for the year 2016
- Received **UNIVERISTY RESEARCH FELLOWSHIP** during the Ph.D., program at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore, Tamil Nadu, India
- Won **BEST PAPER PRESENTATION** award in the **International Web Conference on Advances in Biotechnology - Gene Technology (ICAB 2021)** organized by the Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai - 06, on 17th and 18th February, 2021.

Title of the Ph.D., Research Work: Comprehensive Assessment on the Risk of Anaemia for Chronic Obstructive Pulmonary Disease with a Pharmaceutical Approach

Acted as a Reviewer in

1. Asian Journal of Medicine and Health
2. Annual Research and Review in Biology
3. Evidence-Based Complementary and Alternative Medicine
4. Journal of Advances in Medicine and Medical Research
5. Journal of Pharmaceutical Research International
6. Asian Journal of Case Reports in Medicine and Health

Editorial Board Member in

Frontiers – Science Publishing Group (Period assigned: 2022 to 2024)

English Proficiency Test

Obtained EF SET score as **C1 ADVANCED** according to the guidelines set by the Common European Framework of Reference (CEFR).

Academic Activities and Achievements

1. Served as a **Trainer** in a two days Workshop cum Hands-on training in “Immunotechniques” conducted on 5th and 6th March 2018, at Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore.
2. Served as **Guest Lecturer** at the Kalasalingham University, Krishnankoil, Tamil Nadu – 626 126, during the Technical training programme from 10th April 2018 to 14th April 2018.
3. Served as a **Trainer** in a two days Workshop cum Hands-on training in “Mol-Bio Techniques” conducted on 12th and 13th March 2018, at Bharathiar University, Coimbatore.
4. Served as an **Organizing Member** in a one-day Workshop cum Hands-on training on “Remedial Formulation” conducted on 11th March 2019, at Bharathiar University, Coimbatore.
5. Served as a **Resource Person** in a three days Workshop cum Hands-on training on “Bio-Tools” conducted on 20th to 22nd May 2019, at Bharathiar University, Coimbatore.

Conferences and Seminars Participated

1. Participated in the “**CME National Seminar on Advances in Basic and Clinical Immunology**” on 15th to 16th September, 2015 conducted by Department of Zoology, Bharathiar University, Tamil Nadu and Indian Immunology Society, New Delhi.
2. Participated in the “**International Workshop on Biochemical and Bioinformatics Techniques**” on 5th September, 2017 at Shrimati Indira Gandhi College, Tiruchirapalli.
3. Participated in the “**Awareness Program on Down Syndrome**” on 20th December, 2017 at Bharathiar University, Coimbatore.
4. Participated in the “**International Conference on Science and Humanities for Grooming the Future: An Interdisciplinary Approach**” (ICSHI-2018) on 7th-9th February, 2018 at Bharathiar University, Coimbatore.
5. Participated in the “**Awareness Program on Down Syndrome**” and **won Quiz Competition** on 21st March, 2018 at Bharathiar University, Coimbatore.

6. Participated in the five days **“National Workshop on Research Methodology and Data Analysis for Social Science”** on 6th-10th August, 2019 at Bharathiar University, Coimbatore.

Publications - 19

Research Papers (08)

1. **Sangeetha Thangavelu**, Vijaya Anand Arumugam, Kalibulla Syed Ibrahim, Deepa Soundararajan, Balamuralikrishnan Balasubramanian. Efficiency of Coriandrum sativum (Linn.) and Petroselinum crispum (Mill.) in Enhancing the Iron Absorption – An In vitro Approach. Evidence Based Complementary and Alternative Medicine. 2022; 7359081: 1-8. ([Scopus and PubMed Indexed - Impact Factor: 2.629](#))
2. **Sangeetha Thangavelu**, Nargis Begum Tajuddin, Vijaya Anand Arumugam. Assessment of Inter-relationship between Anemia and COPD In Accordance with Altitude. The Open Respiratory Medicine Journal. 2022; (Ahead of print). ([SCOPUS indexed – Impact Factor – 0.842](#))
3. **Sangeetha Thangavelu**, Balamuralikrishnan Balasubramanian, Sampathkumar Palanisamy, Velayuthaprabhu Shanmugam, Senthilkumar Natchiyappan, Syed Ibrahim Kalibulla, Baskaran Rathinasamy, Vijaya Anand Arumugam. Characterisation and Phytoconstituents of Petroselinum crispum (Mill.) and Coriandrum sativum (Linn.) and their impacts on inflammation– An in vitro analysis against human adenocarcinoma cells with molecular docking. *South African Journal of Botany*. 2022; 146: 776-788. ([Scopus and PubMed Indexed – Impact Factor:2.315](#))
4. **T. Sangeetha**, A. Vijaya Anand, B. Balamuralikrishnan, P. Sampathkumar, T. Nargis Begum and S. Balakumar Srinivasan. Predicting the Role of SERPINA1 DNA Methylation in Chronic Obstructive Pulmonary Disease and Anaemia and Identification of 3 Novel Methylation Sites. *International Journal of Human Genetics*. 2021; 21(4):151-166. ([SCIE Indexed - Impact Factor: 0.226](#))
5. **Sangeetha Thangavelu**, Preethi Basavaraju, Vijaya Anand Arumugam, Rengarajan RL. Influence of altitude in anemia and risk assessment for chronic obstructive pulmonary disease. *The Egypt Journal of Haematology*. 2019; 44:134-140. ([ESCI, Web of Science Indexed](#))
6. Mohd Younis, P. Sujeetha, **T. Sangeetha**, M. Kaviya, K. Bharathi and A. Vijaya Anand. Molecular Heterogeneity in Colorectal Cancer: Insights from Genetic Profiling. *Journal of Advanced Applied Scientific Research*. 2021; 3(5):06-15. ([ESCI Indexed](#))

7. Palanisamy Sampathkumar, Subramanian Kalavathy, Arumugam Vijaya Anand, **Thangavelu Sangeetha**, Purusothaman Sujeetha. Impact of Tridax procumbens on Hematological Parameters in Aflatoxin induced liver toxicity in Albino Rats. *Pharmacognosy Journal*. 2018; 10(1): 73-77. (SCOPUS indexed)
8. Papitha, Sujeetha, Balajee, **Sangeetha** and Vijaya Anand. Pharmacological effects of atorvastatin and cholesterol and blood pressure. *Current Research on Cardiovascular Pharmacology*. 2017; 6(1):17-21. (Web of Science indexed)

Review Papers (07)

9. **Sangeetha Thangavelu**, Vijaya Anand Arumugam, Balamuralikrishnan Balasubramanian. Medicinal Exploitations of *Coriandrum Sativum* L. Natural Resources for Human Health, 2022 (1-6). <https://doi.org/10.53365/nrfhh/147312> (Published Online)
10. **T Sangeetha**, B Balamuralikrishnan, A Vijaya Anand, M Arun. Genetics of Chronic Obstructive Pulmonary Disease-A Literature Review. *International Journal of Human Genetics*. 2020; 20(3):110-119. (SCIE Indexed - Impact Factor: 0.226)
11. **Thangavelu Sangeetha**, Varsha T, Mariappan Vignesh, Arumugam Vijaya Anand, Basavaraju Preethi. A review on iron refractory iron deficiency anemia. *J Health Res Rev*. 2019; 6:57-61.
12. Pavithra Ravindran, **Sangeetha Thangavelu**, Vijaya Anand Arumugam, et al., A literature survey on the Biomarkers of Cardiovascular Disease. *International Journal of Academic Medicine*. 2021; 7(3):141-149. (SCOPUS indexed – Impact Factor: 0.49)
13. Vijaya Anand Arumugam, **Sangeetha Thangavelu**, Zareena Fathah, et al., COVID 19 and the World with Co-Morbidities of Heart Disease, Hypertension and Diabetes. *Journal of Pure and Applied Microbiology*. 2020;14(3):1623-1638. (SCOPUS indexed – Impact Factor: 0.483)
14. Ramya Shanmugam, **Sangeetha Thangavelu**, Zareena Fathah, et al., SARS CoV-2 / COVID-19 Pandemic – An Update. *Journal of Experimental Biology and Agricultural Sciences*. 2020; S219-S248 (Spl-1-SARS-CoV-2). (SCOPUS, UGC indexed - Impact Factor: 0.42)
15. M Vignesh, **T Sangeetha**, T Varsha. Polymorphism study on SLC30A8 and its association with type 2 diabetes. *Recent Advances in Biology and Medicine*. 2016; 02:118.

Under Revision (01)

16. **Thangavelu Sangeetha**, Arumugam Vijaya Anand, Tajuddin Nargis Begum, Balasubramanian Balamuralikrishnan, Meyyazhagan Arun, Palanisamy

Sampathkumar. Association of SERPINA1 with Anemia and Chronic Obstructive Pulmonary Disease (COPD). ([Scopus and PubMed Indexed - Impact Factor: 2.629](#))

Book Chapters (03)

17. **Sangeetha Thangavelu**, Bharathi Kathirvel, Kaviya Mohandass, Preethi Basavaraju, Balamuralikrishnan Balasubramanian, Naif Abdullah Al-Dhabi, Mariadhas Valan Arasu Vijaya Anand Arumugam (2022). Production, maintenance and benefits of seaweeds in tropical regions. Aquaculture Science and Engineering, Springer Nature. ISBN: 978-981-19-0816-3.
18. Kaviya Mohandass, **Sangeetha Thangavelu**, Bharathi Kathirvel, Manoharan Rajesh, Kannan Vijayarani, Utthapon Issara, Balamuralikrishnan Balasubramanian, Vijaya Anand Arumugam (2022). Molecular closeness of Zebrafish and Human platelets. Aquaculture Science and Engineering, Springer Nature. 978-981-19-0816-3.
19. Bharathi Kathirvel, Kaviya Mohandass, **Sangeetha Thangavelu**, Vijayarani Kannan, Balamuralikrishnan Balasubramanian, Naif Abdullah Al-Dhabi, Mariadhas Valan Arasu Vijaya Anand Arumugam (2022) Pharmacological Importance of seaweeds. Aquaculture Science and Engineering, Springer Nature. ISBN: 978-981-19-0816-3.

Papers Presented

Total – 03 (International – 02; National – 01)

1. Presented a paper entitled, “*Coriandrum sativum* and *Petroselinum crispum* – As a source of herbal medicine” in the **5th International Symposium on Phytochemicals in Medicine & Food** conducted by Nanchang University, China and University of Vigo, Spain on 25th August to 1st September, 2021 at Nanchang University, China.
2. Presented a paper on “Anemia – A Risk Factor for Chronic Obstructive Pulmonary Disease? A Genetic Analysis Study” in the **International Web Conference on Advances in Biotechnology - Gene Technology (ICAB 2021)** organized by the Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai - 06, on 17th and 18th February, 2021. (**BEST PAPER PRESENTATION AWARD**)
3. Poster presented on, “Influence of Altitude in Anemic Patients Related to the Risk of Lung Disorders” in the **National Conference on Biology and Medicine (NCBM’19)** organised by the Department of Zoology and Department of Human Genetics & Molecular Biology, Bharathiar University, Coimbatore, on 7th and 8th February, 2019.

Technical Skills Known

- Haematological and Biochemical parametric analysis from human blood
- DNA Isolation and Quantification of human blood
- Polymerase Chain Reaction and Restriction digestion of human DNA
- Bisulfite Conversion of human DNA
- Phytochemical Estimation (Quantitative) of plant samples
- Qualitative Analysis of Phytoconstituents
- Leucocyte Cell Culturing and Karyotyping
- *In silico* studies – Virtual Screening and Molecular Docking
- *In vitro* studies – Cell culturing, MTT assay, ICMPS, Wound scratch assay
- Microsoft Office – Word, Powerpoint, Excel
- IBM SPSS Statistical Software

PERSONAL DETAILS

Name : **Dr. T. Sangeetha**
Age/Gender : **27 / Female**
Father Name : **Mr. K. Thangavelu**
Mother Name : **Mrs. T. Kamalathal**
Siblings : **One sister - T. Sonia**
Research Experience : **4 years during the Ph.D., programme**
Corresponding Address : **3/411, Navavoor Pirivu, Marudhamalai road, Coimbatore – 46**
Permanent Address : **1/29, Kandian Kovil post, Kulathupalayam, Tiruppur – 65**
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References:

1. Prof. A. Vijaya Anand

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2. Dr. S. Velayuthaprabhu

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I acknowledge that the details provided above are true to my knowledge and herewith I declare that I take sole responsibility for the details given.



Sangeetha Thangavelu