

# **PROFILE**

## **S. GEET ANDREA**

No.30, J.K.Nagar, (1<sup>st</sup> Layout)  
Godown Road, Khajanagar P.O.,  
Tiruchirappalli- 620023,  
TamilNadu, India.

Mobile: +91 9600301957

Mail ID: [andrea.surendran@gmail.com](mailto:andrea.surendran@gmail.com)

---

### **Professional Summary:**

- ❖ A highly accomplished biotechnologist/academician with three years of teaching and research experience possessing the ability to inspire students to achieve personal and professional growth.
- ❖ Strong analytical and technical skills with in depth knowledge of Molecular Biology, Cell Biology, Genetic Engineering, Immunotechnology and *In vitro* Cell Culture.
- ❖ Experienced in mentoring, management and training undergraduate and postgraduate students.
- ❖ Experienced in performing innovative research managing several projects, with detailed planning, orientation and execution from concept to conclusion.
- ❖ Strong communication and writing skills.
- ❖ Experience in lab and field research, data collection, analysis and project management.
- ❖ My objective is to enhance my skills and familiarize myself with scientific challenges through which I can contribute to the development and better understanding and advancement of Science for useful purposes.

### **Educational Qualifications:**

**Tamil Nadu State Eligibility Test (TNSET) - qualified in 2016 - Reg no: 2502713**

**Post Graduate Diploma in Immunotechnology- first class with distinction (2008- 2009)**  
from University of Madras, Chennai, Tamil Nadu.

The title of the thesis undertaken was “Studies on Cellular and Histopathological implications of Indian cobra (*Naja naja*) venom on different mice tissues” done as a preliminary study towards the development of monoclonal antibodies against *Naja naja* venom.

**ADVISOR:** Dr. K. Ramalingam, Associate Professor, Department of Zoology, Government Arts College, Nandanam, Chennai.

**Master of Science (M.Sc.) in Biotechnology- first class (2005- 2007)** from Bharathidasan University, Tiruchirappalli, Tamil Nadu.

The title of the thesis undertaken was “Molecular characterization of mutant *Bacillus* species antagonistic to *Rhizoctonia solani*”.

**ADVISOR:** Dr. Jasdeep Padaria, Principal Scientist, NRCPB, IARI, New Delhi.

**Bachelor of Science (B.Sc.) In Zoology- first class with distinction (2002- 2005)**  
Holy Cross College (Autonomous), Affiliated to Bharathidasan University, Trichy.

**Research interests and Areas of expertise:**

- Development of monoclonal antibodies as therapeutic agents for the treatment of various diseases.
- Cancer immunotherapy and Phytotherapy.
- Studies on the efficacy of gold, silver, iron and zinc nanoparticles of aqueous extracts of various phytotherapeutic compounds for the treatment of different cancers.
- Characterization and development of probiotic microbes as therapeutic agents for improving gut health and the importance of traditional probiotic and probiotic foods.

**Research experience:**

**Lab assistant (Sep 2021- Oct 2021), Animal Cell Culture Laboratory, Department of Biotechnology, National College, Trichy.**

**Junior research officer (JRO), R&D (January 2009- December2010) at Mediclone Biotech Private Limited, Chennai.**

**DBT Major Project:** “Development and manufacture of monoclonal antibody cocktail against snake venom (Cobra, Russell’s viper, saw- scaled viper and Krait) as an immunotherapeutic tool for the treatment of snakebite in India”.

- Propagation of animal cell lines
- Monoclonal antibody production, purification and conjugation and detection.
- Histopathological analysis of normal and venom infected mouse and horse tissues.
- Polyclonal antibody production in horse, mice and guinea pig.

**Research Assistant (Jan- June 2007) at NRCPB, IARI, New Delhi**

- Molecular cloning
- PCR and genomic DNA library construction using cosmid vectors.

**Teaching and mentoring experience:**

**Assistant Professor** in the Department of Biotechnology, Jamal Mohamed College, Trichy, Tamil Nadu, from **June 2022- till date.**

**Assistant Professor** in the Department of Biotechnology, Holy Cross College, Trichy, Tamil Nadu. for two years from **June 2018- April 2020.**

- Prepared lectures, theory and practical class activities for Undergraduate, Postgraduate students.
- Guide for Post Graduate student projects entitled  
“**Green synthesis, characterisation and antimicrobicrobial study of a novelGymnemic diacetate extract**”  
“**Evaluation of antimicrobial activity of Dihydroxy Gymnemic Triacetate extract against multidrug resistant pathogens**”  
“**Characterization of probiotic microbes present in different samples of curd from in and around Trichy**”
- Conducted and accompanied students for **RESCAPES classes-** (Rural Enrichment through Students in CommunityAction and Participation for Environmental Sustainability).

**Subjects handled:** Molecular Biology, Immunology, Recombinant DNA technology, Cell Biology, Microbiology, Fermentation technology, Nanobiotechnology, Genomics and proteomics Research students supervised /trained:

Level	No. of trainees	Year
Masters students	2	2017-18
Masters students	2	2018-19

**Participation in Thesis and Oral Examination Committees:**

Level	No. of Examinations	Year
Masters students	2 (Internal Practical Examiner)	2017-18
Masters students	1 (Internal Practical Examiner)	2018-19
Undergraduate students	1 (Internal Practical Examiner)	2018-19

**Conference presentations:**

- ❖ Presented a poster “**Biosorption of chromium (VI) using isolated white rot fungus**” **Geet Andrea. S.**, Venkatesh. J, Vijayalakshmi. K., Srividhya. S., Shankar. C (2005) at the National Conference on “**Frontiers in environmental sciences and engineering in India**” at Bharathiyar University, Coimbatore.
- ❖ Poster presented on “**Antiretroviral therapy**”, **Geet Andrea. S.**, Venkatesh. J., Dinesh Babu.G. (2006) at the National conference on “**Aids and TB pandemic**” Bharathidasan University, Trichy, India.

**Publication:**

- ❖ Book chapter by J. Anita Christie and S. Geet Andrea “**Therapeutic potential of different probiotic foods**” in the book “**Advances in Probiotics Microorganisms in food and health**” ISBN 978-0-12-822909-5 Academic Press Publications, 2021, ELSEVIER INC.

**Conferences and workshops attended:**

Name of Conference/Workshop	Place (City & Country),	Date
Online 2 day FDP on “ <b>ICT tools for effective teaching and blended learning</b> ”	Servite College of Arts and Science for Women, Karur.	4 <sup>th</sup> August 2021-6 <sup>th</sup> August 2021
Online 5 days National Workshop on “ <b>E-content for effective teaching</b> ”	Rani Anna Government College for women, Tirunelveli	13 <sup>th</sup> July-17 <sup>th</sup> July 2021
Participated in the five day hands on Faculty Development Program webinar on “ <b>Evolution from offline to Online teaching</b> ”	Sathish Pradhan Dnyansadhana College, Mumbai and Microsoft	29 <sup>th</sup> May- 3 <sup>rd</sup> June 2020

Participated in a webinar on “Bio-entrepreneurship from theory to a practical success”	Sathyabama Institute of Science and Technology, Chennai	29 <sup>th</sup> and 30 <sup>th</sup> May 2020
Participated in a webinar on ‘BIRAC’s role in creating the startup innovation ecosystem’	Crescent Innovation and Incubation Council, Crescent University, Chennai	29 <sup>th</sup> May 2020
Participated in a webinar entitled “Building a startup like a corporate”	Crescent Innovation and Incubation Council, Crescent University, Chennai	28 <sup>th</sup> May 2020
Participated in a webinar on “Turn the challenges to opportunities: Covid -19 Pandemic and measures to combat by Higher Education of India”	NAAC, Bengaluru, MHRD, Govt. of India	27 <sup>th</sup> May 2020
Participated in Webinar on ‘Comprehensive nutrition to combat Covid-19’ conducted by CIIC, Chennai.	Crescent Innovation and Incubation Council, Crescent University, Chennai	16 <sup>th</sup> May 2020
Attended one day International Workshop delivered by British Council	British Council and Holy Cross College, Tiruchirappalli, India	20 <sup>th</sup> August 2018
Hands On Workshop on Real Time Q-PCR	Holy Cross College, Tiruchirappalli, Tamilnadu, India	26 <sup>th</sup> November 2017
Participated in International Conference on Frontiers in Nano-Biotechnology	Bishop Heber College, Tiruchirappalli, India	8 <sup>th</sup> - 9 <sup>th</sup> September 2017
Participated and presented a poster in National conference on Frontiers in environmental sciences and engineering in India	Bharathiyar University, Coimbatore	15 <sup>th</sup> - 17 <sup>th</sup> September 2005
Participated and presented a poster in national conference on ‘Aids and TB Pandemic: Global perspective’	Bharathidasan University Trichy	October 2006

### **Technical skills:**

- Basics of Computing- MS OFFICE, EXCEL, POWERPOINT.
- Undergone **certified level I training in British English** from British Council.
- Undergone **certified training** and orientation in **requirements for NAAC assessment criteria for accreditation** at Holy Cross College, Trichy.
- Worked as a core committee member for Teaching- Learning and evaluation parameter for NAAC.

**Additional skills:**

- Excellent soft skills
- Content writing and development
- Good team player
- Good records for achievement of goals within stipulated time frame
- Proficient in maintaining records

**Languages known:**

- English and Tamil (Reading, Writing and speaking)

**Personal details:**

- **Date of birth** : 02/03/1985
- **Age** : 36 years
- **Gender** : Female
- **Nationality** : Indian
- **Marital Status** : Married

**References:****DR. M. ARUMUGAM**  
**Former Professor and Head**

Department of Zoology  
University of Madras,  
Guindy Campus  
Chennai- 600 025

**DR. JASDEEP PADARIA**

Principal Scientist  
National Research Centre on Plant Biotechnology  
IARI, PUSA campus,  
New Delhi 110012

**Dr. M.A. Akbarsha****Former Professor and Co-ordinator**

School of Life Sciences,  
Bharathidasan University.  
Former Director,  
Mahatma Gandhi Dorenkamp Centre,  
Bharathidasan University.  
Currently Research Co-ordinator,  
National College  
Trichy.

**Declaration**

I hereby declare that the above mentioned details are true to the best of my knowledge.

Date:

Place: Tiruchirappalli.

Mrs. S. Geet Andrea