Curriculum Vitae

Dr. Gangavarapu Subrahmanyam
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I. Academic qualification

≠	Programme	University/Institute	Subject	Year of passing
1	**Ph. D.**	Department of Microbiology and Biotechnology, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India (Supervisor: Prof. G. Archana)	Microbiology	December 2013
2	**M. Sc.**	College of Science and Technology, Andhra University, Vizag, Andhra Pradesh, India	Microbiology	April 2006

II. Research / Professional Experience

(1) Scientist C (Since June 28, 2021 onwards) at Seribiotech Research laboratory, Seri Biotech Research laboratory, Central Silk Board, Carmelram post, Kodathi Bangalore-560035. http://www.sbrl.res.in/

(2) **Scientist C** (1st July 2019 to 27th June 2021 onwards) at Pathology section, Central Muga Eri Research and Training Institute (CMER&TI), Central Silk Board, Govt. of India, Lahdoigarh-785700, Jorhat Assam, India. http://www.cmerti.res.in/

(3) **Scientist B** (12th November 2015 to 30th June 2019) at Pathology section, Central Muga Eri Research and Training Institute (CMER&TI), Central Silk Board, Govt. of India, Lahdoigarh-785700, Jorhat Assam, India. http://www.cmerti.res.in/

(4) **Assistant Professor** (16th August, 2014 to 31st October 2015) at Department of Biomedical Science, NU Centre for Science Education & Research (NUCSER), Nitte University (Deemed University), Deralakatte, Mangalore-575018, India. http://nucser.nitte.edu.in/

(5) **Postdoctoral Research Associate** (31st May, 2013 to 26th June 2014) in UNESCO MIRCEN for Marine Biotechnology, Karnataka Veterinary, Animal and Fisheries Sciences University, College of Fisheries, Mangalore-575002, India. http://www.cofm.edu.in/

(6) **TWAS-CAS postgraduate research fellow** (March 17, 2011 to January 14 2012) at Research Centre for Eco-environmental Science (RCEES), Chinese Academy of Sciences (CAS), Beijing-1000085, China. http://english.rcees.cas.cn/

(7) **Junior research fellow and senior research fellow** in DST, New Delhi funded research project at Department of Microbiology and Biotechnology center, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.

III. Research Interest/Expertise

- Insect Biotechnology/Molecular diagnostics/ Silkworm Pathology
- Insect viruses and viral genomics

IV. Research projects as principle investigator : 04; as coinvestigator: 06

Sl. No	As principal investigator Title	Funding agency, Project code/File no and duration	Technologies developed	Budget (Rs. In Lakhs)
1	Biological and molecular characterization of virosis in Muga silkworm (*Antheraea assamensis* Helfer)"	Central Silk Board, Bangalore, Project code: ARP08007MI, March 2022 to Feb 2025	Molecular diagnostic tool for virus detection Propylactic measuers to control virosis	**27.0**
2	Next generation sequencing studies and bioinformatics analysis of microbiome in flacherie infected *Antheraea assamensis* Helfer for developing effective disease control measures	Central Silk Board, Bangalore, Project code: ARP5887, September 2016 to September 2019	General disinfect formulation for controlling flacherie disease in muga rearing field	**20.9**
3	Development of microbial biocatalyst by heterologous expression of *hpaC* &	DST, New Delhi, File no:	Bacterial consortium for biodesulfurization	**28.0**

	soxABC gene *cluster* in biosurfactant producing bacterium for effective desulfurization of dibenzothiophene (Project code AIT5885)	YSS/2015/001541, August 2016 to August 2019	of DBT	
4	*In-situ* conservation of muga and other wild silk moths in natural habitat" (project code: AIB 5894)	Central Silk Board, Bangalore, Project code: AIB 5894. April 2016 to March 2020	Conservation activities of Muga silkworms in Assam, Meghalaya and Arunachal Pradesh	**44.0**

V. International research exposure

- Secured prestigious TWAS-CAS/PG international fellowship for the year 2010 and conducted final year PhD in Chinese academy of science (CAS) institute, RCEES, Beijing under the mentorship Prof. Ji-Zheng He (jzhe@rcees.ac.cn) during March 17, 2011 to January 14th 2012.
- Attended 2nd Asian PGPR congress at China Agricultural University, Beijing, China during August 21-24, 2011.
- Selected and participated in international workshop by MYRES (meeting of young researchers in earth sciences), September 20-24. 2010, Brandenburg University of Technology, Cottbus, Germany 2010. Both travel and accommodation grants were secured.

VI. Top 10 Publications during last 02 years in refereed SCI journals along with impact factors (H index: 15, i10 index: 20) Total no of publications: 40 (First author 25)

Sl No	Title	Authors	Journal and publisher	Year of publication	No of citations for the last 02 years	Impact factor (Thomson Reuters , 2022)
1	Co-inoculation of native multi-trait plant growth promoting rhizobacteria promotes plant growth and suppresses Alternaria blight disease in castor (Ricinus communis L.).	Sandilya SP, Jeevan B, Subrahmanyam G, Dutta K, Vijay N, Bhattacharyya N, Chutia M.	Heliyon. CellPress	2022 Dec 1;8(12)	2	4.0
2	Investigation on Pathological Aspects, Mode of Transmission, and Tissue Tropism of *Antheraea proylei* Nucleopolyhedrovirus Infecting Oak Tasar Silkworm.	Khajje, D., Devi, S.S., Subrahmanyam, G., Kobayashi, J., Sivaprasad, V., Terenius, O. and Ponnuvel, K.M., 2022	Journal of Insect Science, (Oxford Academic)	2022, 22(5), p.9.	1	2.2
3	Mechanistic understanding of *Gordonia* sp. in biodesulfurization of organosulfur compounds.	Kalita, M., Chutia, M., Jha, D.K. and Subrahmanyam, G.,	Current Microbiology, Springer	2022, 79(3), p.82.	8	2.6
4	Genomics and omics tools to assess complex microbial communities in silkworms: a paradigm shift towards translational research. In (Vol. 49, pp. 143-174). Academic Press.	Sangannavar, P.A., Kumar, J.S., Subrahmanyam, G. and Kutala, S., 2021	Methods in Microbiology, Elsevier	2021, 49: 143-174	2	3.0
5	Myco-remediation: A mechanistic understanding of contaminants alleviation from natural environment and future prospect	Kumar, A., Yadav, A. N., Mondal, R., Kour, D., Subrahmanyam, G., Shabnam, A. A., ... & Malyan, S. K.	Chemosphere, Elsevier	2021, 131325.	54	8.8

6	Geochemical characteristics control potential microbial activity in exposed Late Quaternary alluvial deposits.	Subrahmanyam, G., Kumar, K., Shah, A. P., Maurya, D. M., Sharma, A., Chamyal, L. S., & Archana, G.	Pedobiologia, Elsevier	2021, Vol 87-88; 150747	2	2.3
7	Bio-remediation approaches for alleviation of cadmium contamination in natural resources.	Kumar, A., Subrahmanyam, G., Mondal, R., Cabral-Pinto, M. M. S., Shabnam, A. A., Jigyasu, D. K., ... & Yu, Z. G.	*Chemosphere*, Elsevier	*2021, 268*, 128855.	107	8.8
8	Nickel in terrestrial biota: Comprehensive review on contamination, toxicity, tolerance and its remediation approaches.	Kumar, A., Jigyasu, D. K., Subrahmanyam, G., Mondal, R., Shabnam, A. A., Cabral-Pinto, M. M. S., ... & Bhatia, A. .	*Chemosphere*, Elsevier	*2021,* 129996.	75	8.8
9	Development of a Muga Disease Early Warning System (MDEWS)-a mobile-based service to seri farmers.	Goswami, J., Gogoi, D. K., Rasid, N., Handique, B. K., Subrahmanyam, G., Bora, P. P., ... & Raju, P. L. N.	*Current science*	*2021, 121*(10), p.1328.	2	1.0
10	Molecular and ecological perspectives of nitrous oxide producing microbial communities in agro-ecosystems.	Kumar, A., Medhi, K., Fagodiya, R. K., Subrahmanyam, G., Mondal, R., Raja, P., ... & Pathak, H. (2020).	*Reviews in Environmental Science and Bio/Technology*, Springer	*2021,* 1-34.	40	14.4

VII. Books edited: 07 nos.

1. Subrahmanyam G and Gutler V. Methods in Silkworm microbiology, Elsevier, 2021
2. Rajal D and Subrahmanyam G et al., 2022. Molecular techniques applied in the field of sericulture: Fundamentals and protocols", published by SBRL Centarl Silk Board Kodathi, 2022
3. Subrahmanyam G, Sangannavar P, Saikia M, Das R. 2018. Muscardine disease and its management practices in Muga Culture, published by CMER&TI, Lahdoigarh, 2018.
4. Chutia M, Subrahmanyam G. 2018. BioQuest, Volume 2, Issue 1, 2018 published by DBT-IBH, New Delhi and CMER&TI, Lahdoigarh, 2018.
5. Chutia M, Debnath R, Subrahmanyam G. 2017. BioQuest, Volume 1, Issue 1, 2017 published by DBT-IBH, CMER&TI, Lahdoigarh, 2017.
6. Ahmed S. A, Sarmah M and Subrahmanyam G. 2017. Borpat (*Ailanthus grandis* Prain): A paradise tree for sustainable Ericulture, Vol 1, published by Director, CMER&TI, Lahdoigarh, 2017.
7. Edited a conference Souvenir "SeriBioEcon-2018: Vanya sericulture and seri-biodiversity for economic upliftmnet, 12-13th March 2018, CMER&TI (Cover design and compilation)

VIII. International Book chapters written in Elsevier and Springer published books: 15 nos.

IX. Popular articles: 09 nos.

X. No of microbial sequences submitted to NCBI: 600 and 01 whole genome sequence of bacteria

XI. Awards/Recognitions received: 13 nos.

1. **Best oral presentation award** received in the National Symposium on Vanya sericulture-Opportunities Galore organized by CTR&TI, CSB Ranchi during 28th to 29th .10.2022.
2. **Best oral presentation award** received in the National Seminar on Climate Smart Sericulture 2022" Approaches for Sustainable Sericulture. Organized by Central Silk board, during October 6th – 7th 2022, NIFT Bengaluru, India.:
3. **Best young scientist award** for the year 2020, Central Silk Board, Ministry of Textiles, Govt. of

India, Bangalore.

4. **Dr. S. N. Choudhury best scientist award** for the year 2018, CMER&TI, Central Silk Board, Govt of India, Lahdoigarh, Jorhat, Assam.
5. **Best oral presentation award** in International conference on "Climate Change, Biodiversity and Sustainable Agriculture", Asaam Agriculture University, Jorhat during 13 to 16th December, 2018.
6. **Best poster presentation award** in National Symposium on "Molecular Insect Science" held at Assam Agricultural University, Jorhat, Assam during 6-8th Feb 2017.
7. **Best participant award for ICAR** sponsored national workshop "Preparation of bioformulation of fungal and bacterial biocontrol agents for management of biotic stress of agricultural crops" organized at the Department of Plant pathology, Assam Agricultural University, 1st-10th September 2017.
8. **Secured prestigious TWAS-CAS/PG international fellowship** for the year 2010 for conducting final year PhD in Chinese academy of science (CAS) institute, Research Centre for Eco-Environmental Sciences (RCEES), Beijing under the guidance Prof. Ji-Zheng He (jzhe@rcees.ac.cn).
9. **Best oral presentation** award in 2nd Indian group meeting of Asian PGPR, 'Recent Trends in Sustainable Agriculture'. October 22-23, 2012, Department of Biochemistry, M. S. University of Baroda, Vadodara-390002, India.
10. **Best poster presentation award** in International workshop on Rhizosphere Biology of Agriculture, Horticulture and Forestery: Present and Future., February 25-27, 2010, J.B. Pant agricultural university and technology (J.B.P.U.&T.), Pantnagar- 263 145, India.
11. **Best oral presentation award** in DST PAMC meeting on science of shallow subsurface (SSS), October 12-14, 2009, National Geophysical Research Institute (NGRI), Hyderabad- 500 606, India.
12. **Selected as a potential young earth scientist** by MYRES, 2010, Cottbus, Germany. **Both travel and accommodation grants** were secured**.**
13. **Junior research fellowship (2006-2009) and senior research fellowships (2009-2010)** from a research project of Department of Science and Technology (DST), New Delhi, India.

XII. **International and National Seminars/ Conferences/Symposiums attended and presented research papers: 20 nos (14 oral presentations and 06 poster presentations)**

XIII. Workshops/Training courses attended: 10 nos

XIV. National conferences/workshops organized: 04 nos

Sl no	Name of the workshop / seminar	Place and date	Role/Responsibility
1	National Conference on "Economic Insects of NE India: Thrust on Recent Advances in Vanya Silks".	Kokrajhar, BTC, Assam, 21st-22nd, February 2017	Co-organizing secretary
2	DBT, New Delhi Sponsored National Workshop cum Training Programme on "Advanced diagnostic techniques of infectious diseases in insects".	CMER&TI, Lahdoigarh, Assam, 21st-23rd, March 2016	Asst-organizing secretary
3	DBT, New Delhi Sponsored National Workshop cum Hands on Training Programme "Sericulture and Seri-Biotechnology".	CMER&TI, Lahdoigarh, Assam 28th – 30th March, 2017	Joint organizing secretary
4	DBT, New Delhi Sponsored National Workshop cum Hands on Training Programme "Techniques and Technologies of Seri-Biotechnology"	CMER&TI, Lahdoigarh, Assam 27th March to 2nd April, 2018.	Joint organizing secretary

XV. Training, extension and communication activities

Imparted training to approximately 1300 nos of seri stake holders/farmers on silkworm diseases and management practices during extension and communication programmes of CMER&TI, Lahdoigarh, Central Silk Board

XVI. Membership of professional organizations/ Body: 06 nos (Enclosed in annexure 11)

Life membership in national Academy of Sericulture Sciences, Society of Biological Chemists (SBC)