

CURRICULUM VITAE

Dr. SANGEETHA. G

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Education qualification

YEAR OF PASSING	COURSE	BOARD/ UNIVERSITY	INSTITUTION	SCORE
2018	National Eligibility Test-December 2017	CSIR-UGC	UGC	CSIR UGC With JRF
2018	Ph. D. in Botany	Kerala university	University college Thiruvananthapuram	Awarded in 17/04/2018
2014	State Eligibility Test-December-2013	Kerala university	Government of Kerala Directorate of Higher Secondary Education	Passed
2011	MPhil Botany	Kerala university	University college Thiruvananthapuram	A grade
2009	B. Ed Natural Science	Kerala University	Government of Kerala Directorate of Higher Secondary Education	77.3%
2008	MSc. Botany	Kerala University	University college Thiruvananthapuram	76%
2006	BSc. Botany	Kerala University	University college Thiruvananthapuram	85.4%

Computer Skills

- Done a certified course on “Diploma in Computer Management”
- Done a certified course in Visual Basic

Academic Project

B.Sc. – A Preliminary study on intraspecific variations in *Alternanthera sessilis*(L) De. within Thiruvananthapuram city.

M.Sc. –Callus cultures of *Coccinia indica* W&A, as a source of Trypsin Protease Inhibitor, A potential insecticidal and Anti-tumor agent

M.phil- Screening for Bioactive Phytochemicals and Micropropagation in *Alstoniavenenata*R.Br

Ph.D*In vitro* culture and Production of Secondary metabolites from *Pseudarthriaviscida*(L.) Wight & Arn.

Teaching experience

- One year teaching experience in Fatima Mata National college, Autonomous , Kollam from 06.06.2019 to 10.3.2020.
- Three months experience in T. K.M College of Arts & Science, Kollam from 12.01.2021 to 31.03.2021.
- Jointed as Assistant professor in T. K.M College of Arts & Science, Kollam from 28/09/2021 to till the date

Orientation/Refresher Course attended:

Name of the Course/Summer School	Place	Duration	Sponsoring Agency
Online Faculty Induction Programme	Aligarh Muslim University, Aligarh	12/07/2023 to 17/08/2023	UGC, HRDC
Refresher Course in Environmental Science (Interdisciplinary)	University of Kerala, Karivattom, Trivandrum	15/10/2024 to 28/10/2024	UGC-MMTTC
NEP 2020 Orientation & Sensitization Programme	University of Kerala, Karivattom, Trivandrum	19/05/2025 to 29/05/2025	UGC-MMTTC

Publications

1. **Sangeetha G , Jisha M S. (2025)** Evaluation of *in vitro* antioxidant, Cytotoxicity and FTIR analysis of whole plant extract of *Elephantopus scaber* L.(Asteraceae). Plant Science Today.: 12 (1): 1-6.
2. **Sangeetha G and Swapna T S. (2024).** An Effective Micropropagation Strategy for *Pseudarthriaviscida* (L.) Wight & Arn. Micropropagation of Medicinal Plants-Bentham Books published by Bentham Science Publishers Pte. Ltd. Singapore..2. 338-367. ISBN (ONLINE) 978-981-5238-30-3.

3. Jisha M.S and **Sangeetha.G.** (2022). A study of alien invasive plant species in Kottamkara, Kollam District, Kerala. *International Journal of Botany Studies*, 7(7). 1-9. ISSN: 2455-541X.
4. **Sangeetha,G. and Swapna, T.S (2018).** Anticancerous potential of in vivo and in vitro developed roots of *Pseudarthriaviscida* (L.) Wight&Arn. *Trends in Bioscience*. 11(7): 1320-1327.
5. M. Devi Chinmayee, **G. Sangeetha**, G.S. Nikhila, I. Mini, and T.S. Swapna (2018) Protein Profiling Alteration in Response to Heavy Metal Accumulation in *Alternanthera sessilis* 1038 R Br. With Special Reference to Metallothionein , *Trends in Biosciences* 11(7), Print : ISSN 0974-8431, 1038-1047.
6. G. S. Nikhila, **G. Sangeetha**, M. Devi Chinmayee, T. S. Preetha and T. S. Swapna (2017) Cell Suspension Culture - An improved system for production of colchicine from *Gloriosa superba* L., **International Journal of Advanced Research**, 5(1), 1184-1190.
7. **Sangeetha, G., Nikhila, G.S. and Swapna, T.S.**(2016). Antimicrobial screening of *Pseudarthriaviscida*(L.) Wight&Arn.-A medicinally potent plant against common pathogenic microorganisms. *JIRMEPS*. 10(1): 53-59.
8. **Sangeetha, G., Nikhila, G.S. and Swapna, T.S.** (2016). In vitro cytotoxic activity of root methanol extract of *Pseudarthriaviscida*(L.) Wight & Arn. HeLa, Hep G2 and L929 cell lines. *EJPMR*. 3(7): 498-501.
9. **Sangeetha, G., Nikhila, G.S., Mini, I. and Swapna, T.S.**(2016). Elicitation and isolation of Gallic acid from cell suspension culture of *Pseudarthriaviscida*(L.) Whigh& Arn. *International Journal of Advanced Research*. 4(7): 1433-1442.
10. **Sangeetha, G., Nikhila, G.S. and Swapna, T.S.** (2016). An efficient plant regeneration and *in vitro* secondary metabolite production in *Pseudarthriaviscida*(L.) Wight & Arn. *International Journal of Current Research*. 8(6):33217-33224.
11. Nikhila G S , **Sangeetha G** , Preethe T S and Swapna T S (2016) GC-MS analysis of phytochemical compounds present in the rhizome of *Gloriosa superba* L., **Journal of Pharmacognosy and Phytochemistry**; 5(5): 17-20, E-ISSN: 2278-4136 P-ISSN: 2349-8234. Impact factor: GIF: 0.255, ICV 5.52.
12. Nikhila G S, **Sangeetha G** ,Devi Chinmayee M and Swapna T S (2016) An investigation on phytochemical screening and hepatoprotective activity in an important medicinal herb *Gloriosa superba* L., **International Journal of Applied and Pure Science and Agriculture**, Volume 02, Issue 05, 133-137, e-ISSN: 2394-5532, p-ISSN: 2394-823X, Impact Factor 3.762.
13. **Sangeetha, G., Nikhila, G.S., Devi, C.M. and Swapna, T. S.** (2015). Exploration of *in vitro* hepatoprotective activity of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. *International Journal of Agriculture, Environment and Biotechnology*. 8: 21-25.

14. Nikhila G S, **Sangeetha G**, Archana Ga Nair, Devi Chinmayee M and Swapna TS, (2015) A Comparative Study on Free Radical Scavenging Activity of Methanolic Tuber and Seed Extracts of a Medicinally Potent Plant- *Gloriosa Superba* L., **International Journal of Agriculture, Environment and Biotechnology**, Special issue, 8: 1103-1109, PRINT ISSN. : 1025-1030, PRINT ISSN. : 0974-1712 ONLINE ISSN.: 2230-732X.

15. M. Chinmayee Devi, **G. Sangeetha**, G.S. Nikhila, G. Nair Archana, I. Mini and T.S. Swapna (2015) Phytoremediation of Cadmium Chromium and Lead from Urban solid waste compost using two species of Alternanthera, **International Journal of Agriculture, Environment and Biotechnology**, Special issue, 8: 1103-1109, PRINT ISSN. : 1055-1060, PRINT ISSN. : 0974-1712 ONLINE ISSN.: 2230-732X.

16. Nikhila G .S, **Sangeetha G** and T.S Swapna (2015) Anti inflammatory properties of root tubers of *Gloriosa superba* and its conservation through micropropagation, **Journal of Medicinal Plants Research**, Vol 9(1), 1-7.

17. **Sangeetha, G., Nikhila G.S., Archana, G. N., Pradeesh , S. and Swapna, T.S.** (2014). Conservation of an antiinflammatory medicinal plant *Pseudarthriaviscida* (L.) Wight & Arn. through rapid *in vitro* clonal propagation. *Journal of Aquatic Biology and Fisheries*. 2: 594-599.

18. **Sangeetha, G., Nikhila, G.S., Archana, G. N., Devi, C. M. and Swapna, T.S.** (2014). *In vitro* antioxidant activity of methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. *International Journal of Pharmacy Education and Research*. 1(3): 1-6.

19. **Sangeetha, G., Nikhila, G.S., Archana, G. N., Devi, C. M. and Swapna, T.S.** (2013). Evaluation of *in vitro* antiinflammatory activity of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. *Journal of Phytological Research*. 26(1&2): 47-51.

20. **Sangeetha G.** and Deepthi S R. (2013). Screening for bioactive phytochemicals and callus production in *Alstoniavenenata* R.Br. *Journal of Phytological Research*. 26(1&2):7-13.

21. Nikhila, G.S, **Sangeetha, G.**, Archana G. Nair, Pradeesh, S. and Swapna, T.S. (2014) High frequency embryogenesis and organogenesis in *Gloriosa superba* l. - A plant in need of conservation, **Journal of Aquatic Biology and Fisheries** Vol. 2/2014/ pp. 404 to 408.

22. G .S Nikhila, **G. Sangeetha** and T.S Swapna (2014) Antimicrobial screening of a medicinally potent plant - *Gloriosa superba* L., **CIBTech Journal of Microbiology** ISSN: 2319-3867 (Online) Vol. 3 (2) April-June, pp. 48-57.

23. Nikhila G .S, **G. Sangeetha**, Archana G Nair, Devi Chinmayee and T.S Swapna (2013) Anti inflammatory properties of the root tubers of *Gloriosa superba* and its conservation through micropropagation, **Journal of Phytological Research**. 26 (1&2):15-21.

Presentations

- **Sangeetha. G** (2022). Presented a paper on Recent advancements and Applications in Plant Biologics. Organized by Department of Biotechnology, Bannaru Amman Institute of technology. 27/01/2022 to 28/01/2022.
- **Sangeetha G** (2022). Evaluation of preliminary phytochemical and in vitro antioxidant activity of whole plant extract of *Elephantopus scaber* L. organized by Department of Biotechnology in 14/12/2022 to 16/12/2022.
- **Sangeetha G & Swapna T.S.** (2018) Presented a paper on Insight into the interdisciplinary perspectives of chemical and biosciences. Organized by department of chemistry, Botany and Biotechnology, Govt. Arts college.Trivandrum. 26-28 February 2018.
- **Sangeetha G, Nikhila G S, Mini I and Swapna T. S**(2017). In vitro root induction for conservation of *Pseudarthriaviscida*(L) Wight & Arn. and evaluation of its Antioxidant potential. 3rd National Biodiversity Congress. Tagore theatre, Thiruvananthapuram, Kerala.
- **Sangeetha G, Nikhila G S, Archana G Nair and Swapna T S** (2015). Antimicrobial screening of a medicinally potent plant *Pseudarthriaviscida* (L.) Wight & Arn against common food borne and human pathogenic microorganisms. 27th Kerala Science Congress, Alapuzha, Kerala, pp. 178.
- **Sangeetha G, Nikhila GS, Devi C, M and Swapna T S.**(2015). High frequency plant regeneration system in *Pseudarthriaviscida* (L.) Wight & Arn –A hepatoprotective plant. 2nd National Biodiversity congress, Kanakakunnu Palace, Thiruvananthapuram, Kerala, pp. 133.
- **Sangeetha G, Nikhila GS, Devi C, M and Swapna T S.**(2015). Exploration of *in vitro* hepatoprotective and antioxidant activities of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. Proceedings of the national seminar on Flowering Plant Reproduction and Diversity, Fatima Mata National College, Department of Botany. Pp. 5
- **Sangeetha G, Nikhila G S, Archana G Nair, Pradeesh S, Devichinmayee M and Swapna T S** (2014), *In vitro* antioxidant evaluation of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn., 26th Kerala Science Congress, Wayanad, Kerala.

- **Sangeetha G, Nikhila G S, Archana G Nair, Devichinmayee M and Swapna T S** (2014). Exploration of *in vitro* hepatoprotective activity of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. The fourth international seminar on Sustainable utilisation of Tropical plant Biomass- Ayur informatics. 1pp. 60.
- **Sangeetha G, Nikhila G S, Archana G Nair, Devichinmayee M and Swapna T S** (2014), Antioxidant evaluation of different plant parts and callus of *Pseudarthriaviscida* (L.) Wight & Arn., National symposium on Emerging trends in Biotechnology 2014, Organised by Department of Biotechnology, Cochin University of Science and Technology.
- **Sangeetha G, Nikhila GS, Devi C, M and Swapna T S.**(2014). *In vitro* antioxidant and antiinflammatory evaluation of root methanol extract of *Pseudarthriaviscida* (L.) Wight & Arn. National symposium on Underutilized and wild edible plants of India- “Future crops” organized by Department of Botany, University of Kerala, Kariyavattom, Kerala, India.pp.65.
- **Sangeetha G, Nikhila G S, Archana G Nair, Pradeesh S, and Swapna T S** (2013), Conservation of an anti- inflammatory medicinal plant- *Pseudarthriaviscida* (L.) Wight & Arn. Through rapid *in vitro* clonal propagation, International conference on Ecosystem conservation, climate change and sustainable development (ECOCASD), Organised by Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram.
- **Sangeetha G, Nikhila G S, Archana G Nair, Pradeesh S, and Swapna T S** (2013), An efficient plant regeneration system in *Pseudarthriaviscida* (L.) Wight & Arn. A rare ethnomedicinal undershrub, 16th All India Congress of Cytology and Genetics and National symposium on ‘Gene, Environment and Health’, Organised by Department of Botany, University of Kerala, Thiruvananthapuram.
- **Sangeetha G, Archana G Nair, Nikhila G S, Devichinmayee M Pradeesh S and Swapna T S** (2012), *In vitro* studies of *Pseudarthriaviscida* (L.) Wight & Arn , a vulnerable medicinal plant, International seminar on ‘ World bioheritage concerns over climate change, with a special reference to ethnic vegetables’ organized by the Department of Botany, Sree Narayana College, TVPM.
- **Sangeetha G and Deepthi S R** (2012) Screening for bioactive phytochemicals and micropagation in *Alstoniavenenata* R.Br. International conference on Advances in Biological Sciences (ICABS-2012) organized by the Department of Biotechnology and Microbiology and Inter University Centre for Biosciences, Kannur University, Kannur,Kerala. India.
- Nikhila G S, **Sangeetha G**, Archana G Nair, Devichinmayee M Pradeesh S and Swapna T S (2014), Antibacterial screening of a medicinally potent plant *Gloriosa superba* L, 26th Kerala Science Congress, Wayanad, Kerala.

- Nikhila G S, **Sangeetha G**, Archana G Nair, Devi chinmayee M, Pradeesh S and Swapna T S (2014), Investigation of hepatoprotective activity of *Gloriosa superba* L. and its conservation through micropropagation, National symposium on Emerging trends in Biotechnology 2014, Organised by Department of Biotechnology, Cochin University of Science and Technology.
- Nikhila G S, **Sangeetha G**, Archana G Nair, Pradeesh S and Swapna T S (2013), High frequency embryogenesis and organogenesis in *Gloriosa superba* L.- A plant in need of conservation, International conference on Ecosystem conservation, climate change and sustainable development (ECOCASD), Organised by Department of Aquatic Biology and Fisheries, University of kerala, Thiruvananthapuram.
- Nikhila G S, **Sangeetha G**, Archana G Nair, Pradeesh S and Swapna T S (2013), Investigation of Anti- inflammatory activity of *Gloriosa superba* L. and its conservation through micropropagation, 16th All India Congress of Cytology and Genetics and National symposium on 'Gene, Environment and Health', Organised by Department of Botany, University of Kerala, Thiruvananthapuram.
- Nikhila G S, Devichinmayee M, Archana G Nair, **Sangeetha G**, Pradeesh S and Swapna T S (2012), Somatic embryogenesis in *Gymnemasyvestre* R. BR.- vulnerable medicinal plant, International seminar on ' Worldbioheritage concerns over climate change, with a special reference to ethnic vegetables' organized by the Department of Botany, Sree Narayana College, Thiruvananthapuram.
- Devichinmayee M, Nikhila G S, **Sangeetha G**, Mary Sheeba A, Mini I and Swapna T S (2014), Biochemical mode of resistance to environmentally toxic heavy metal lead in two species of Alternanthera, 26th Kerala Science Congress, Wayanad, Kerala.
- Devichinmayee M, Nikhila G S, **Sangeetha G**, Archana G Nair, Mary Sheeba A, Mini I and Swapna T S (2013), Phytoremediation potential and antioxidant responses in Alternanthera sessilis (L) R. BR., International conference on Ecosystem conservation, climate change and sustainable development (ECOCASD), Organised by Department of Aquatic Biology and Fisheries, University of kerala, Thiruvananthapuram.
- Archana G Nair, Pradeesh S, Nikhila G S, **Sangeetha G**, Mini I and Swapna T S (2013), Conservation of vegetable fern (*Diplazium esculentum* Retz.) of Western Ghats through in vitro spore culture, International conference on Ecosystem conservation, climate change and sustainable development (ECOCASD), Organised by Department of Aquatic Biology and Fisheries, University of kerala, Thiruvananthapuram.
- Archana G Nair, Pradeesh S, Nikhila G S, **Sangeetha G**, Mini I and Swapna T S (2013), In vitro propagation of a rare medicinal fern of Western Ghats – *Diplazium esculentum* (Retz.), *Indian J. of Experimental Biology*, Vol 51 (11), pp: 919-923.
- Archana G Nair, Pradeesh S, Nikhila G S, **Sangeetha G**, Mini I and Swapna T S (2013), Flavanoid Glycoside from *Diplazium esculentum* Retz.-A potential anti-cancer drug,

16th All India Congress of Cytology and Genetics and National symposium on ‘Gene, Environment and Health’, Organised by Department of Botany, University of Kerala, Thiruvananthapuram.

- ❖ Sony Ratnaraj, **Sangeetha G**, Ajeesh M and Deepthi S R (2012) Screening for Phytochemical and invitro studies of *Michelia Champaca* Linn. International conference on Advances in Biological Sciences (ICABS-2012) organized by the Department of Biotechnology and Microbiology and Inter University Centre for Biosciences, Kannur University, Kannur, Kerala. India.
- Lekshmy Priya D, **Sangeetha G**, Swapna T S and Preetha T S (2012), In vitro multiplication and Antimicrobial activity studies in a red listed plant *Baliospermum montanum* (Willd) Muell. Arg., International seminar on ‘Worldbioheritage concerns over climate change, with a special reference to ethnic vegetables’ organized by the Department of Botany, Sree Narayana College, Thiruvananthapuram.

Seminar/ Workshops

- ❖ International viral conference on “Recent Advancements and Applications in Plant Biologics, (2023)
- ❖ Workshop on Bioinformatics training on Computer Aided Drug Design (CADD)- Centre of Bioinformatics training and Research, Lucknow 19/11/2022.
- ❖ International webinar on “ Biotechnology,-Recent advances, Challenges & Opportunities” - December 14-16,2022.
- ❖ International virtual conference on “Recent Advancements and Applications in Plant Biologics”-2022.
- ❖ 3rd National Biodiversity Congress. Tagore theatre, Thiruvananthapuram, Kerala on January 2017.
- ❖ 27th Kerala Science Congress, Alapuzha, Kerala on 2015
- ❖ 2nd National Biodiversity congress, Kanakakunnu Palace, Thiruvananthapuram, Kerala on 2015.
- ❖ One day seminar on ‘**Scientific outlook on Biodiversity Conservation**’ Held at Department of Botany, University college, Thiruvananthapuram on February 2014.
- ❖ 26th **Kerala Science Congress**, held at Wayanad, Kerala on January 2014.
- ❖ National symposium on **Emerging trends in Biotechnology 2014**, Organized by Department of Biotechnology, Cochin University of Science and Technology.

- ❖ One day seminar on 'Methodology & Perspectives in Plant Science' organized by Department of Botany , University College, Thiruvananthapuram on February 2013.
- ❖ International conference on **Ecosystem conservation, climate change and sustainable development** (ECOCASD), Organised by Department of Aquatic biology and Fisheries, University of Kerala, Thiruvananthapuram on October 2013.
- ❖ 16th All India Congress of **Cytology and Genetics and National symposium on 'Gene, Environment and Health'**, Organised by Department of Botany, University of Kerala, Thiruvananthapuram on October 2013.
- ❖ One day seminar on '**Methodology and perspectives in plant science**' organized by Department of Botany, University college, Thiruvananthapuram on February 2013
- ❖ International seminar on '**Worldbioheritage concerns over climate change, with a special reference to ethnic vegetables**' organized by the Department of Botany, Sree Narayana college, Chempazhanthu, Thiruvananthapuram on September 2012.
- ❖ International conference on **Advances in Biological Sciences (ICABS-2012)** organized by the Department of Biotechnology and Microbiology and Inter University Centre for Biosciences, Kannur University, Kannur,Kerala. India on March 2012.
- ❖ International symposium on '**Genomics of Crops, Medicinal Plants and Microbes**' organized by Department of Botany University of Kerala on 28-31 May 2011.