

Curriculum Vitae

Name : DR. SARAN KUMAR GUPTA
Mother's Name : Late. Bimla Devi
Father's Name : Shri Bharat Prasad
Department : Botany
Designation : Assistant Professor
Vidwan ID : 375307
E-mail : nbubotany saran@gmail.com; Mob. No.: 7908607969
Date of Birth : 7th of December 1988
Area of Specialization : Plant Physiology & Biochemistry
Address for Correspondence : Department of Botany, Kalimpong College,
Dist: Kalimpong, West Bengal, Pin: 734301



Academic Qualifications:

Examination	Name of the University	Year of passing	Marks obtained	Class/grade
High School	CBSE	2004	82.6%	1 st Division
Higher Secondary School	AISSE	2006	61.5%	1 st Division
B.Sc.	University of North Bengal	2009	59.5%	2 nd Division
M.Sc.	University of North Bengal	2011	72.25%	1 st Division (Gold Medal)
Ph.D.	University of North Bengal	2018	NA	NA
Other examination, if any SET	WBCSC	2018	60.25%	1 st Division
CSIR-NET	CSIR-UGC	2017 Dec	57.5 %	AIR 55
CSIR-NET	CSIR-UGC	2018 June	75.5 %	AIR 2
CSIR-NET	CSIR-UGC	2018 Dec	79.75 %	AIR 2
GATE	IIT Guwahati	2018	39%	AIR 524

Ph D thesis title: Elicitor induced biochemical changes associated with nitric oxide and calcium signaling during seed germination in *Trigonella foenum-graecum* L.

Orientation Programme/Refresher Course

Sl. No.	Course/Programme Name	Sponsoring Agency/Body	University	Date
1	Orientation Programme	MHRD	Ramanujan College, University of Delhi	26-06-2020 to 24-07-2020
2	Refresher Course	UGC, HRDC	University of North Bengal	16-02-2022 to 02-03-2022
3	Short Term Course	UGC, HRDC	University of North Bengal & Sarojini Naidu College	20-05-2022 to 26-05-2022

Teaching Experience

Courses Taught	Name of the University/ College / Institution	Duration
U.G. (B.Sc. Hons. Pass)	Kalimpong College	02.09.2019 till date
CSIR NET, GATE, DBT-JRF and PhD Entrance Exams Coaching*	Institute for Advanced Studies (Jodhpur, Pune, Kolkata)	01/07/2018 to 30/08/2019

- *Mentor and Guided around 1500+ aspirants of CSIR NET, GATE, DBT-JRF and PhD Entrance Exams

Awards, Achievements and other Qualifications

- Awarded Gold medal for securing 1st Rank in Post Graduation course in Botany, University of North Bengal, 2011
- Awarded DST-INSPIRE fellowship for pursuing PhD degree by Department of Science & Technology, Govt. of India, 2012-2016

- ❖ **Membership of Professional Bodies, Societies**
Life Member of Indian Botanical Society

Research Publications

1. **Gupta SK** and Mandal P. Assessment of Growth Performance and Histochemical Localisation of Reactive Oxygen Species in Fenugreek under Exogenous Calcium Ion Priming. *NBU Journal of Plant Sciences*. 2022; 14; 35-39.
2. **Gupta SK**. Food derived antioxidants and Human health in Covid 19 – A Review. *Himalayan Research Journal*. 2021; 3; 66-77.
3. Jha S, **Gupta SK**, Bhattacharyya P, Ghosh A, Mandal P. *In vitro* antioxidant and antidiabetic activity of oligopeptides derived from different mulberry (*Morus alba* L.) cultivars. *Pharmacognosy Research*. 2018;10:361-7.
4. **Gupta SK**, Islam N, Choudhuri C, Mandal P. Elicitation of therapeutic potential and oxidative stress assessment of fenugreek sprouts under UV irradiation. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2017; 9(5): 91-99
5. **Gupta SK**, Nanda AK, Ghosh R, Mandal P. Elicitation of trigonelline, a hypoglycemic agent in fenugreek sprouts by calcium and nitric oxide priming. *Asian Journal of Pharmaceutical and Clinical Research*. 2017; 10(5): 120-125
6. **Gupta SK**, and Mandal P. Bioinformatic characterization of sod under uv in fenugreek (Family: Fabaceae). *International Journal of Pharmacy and Pharmaceutical Sciences*. 2016; 8(3): 231-237
7. **Gupta SK** and Mandal P. Nitric oxide and calcium signalling in plants under salinity stress and their crosstalk. *NBU Journal of Plant Sciences*. 2016; 10(1): 31-44
8. Jha S, Ghosal M, **Gupta SK**, Ghosh A, Mandal P. *In-vitro* free-radical scavenging potential of oligopeptides derived from wheat and mung bean. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2016; 8(1): 428-432
9. **Gupta SK** and Mandal P. Assessment of the effect of nitric oxide and calcium ion on the therapeutic potential and oxidative stress status of fenugreek sprouts. *Asian Journal of Pharmaceutical and Clinical Research*. 2016; 9(2): 271-277
10. **Gupta SK** and Mandal P. Involvement of calcium ion in enhancement of antioxidant and antidiabetic potential of fenugreek sprouts. *Free Radicals and Antioxidants*. 2015; 5:74-82
11. **Gupta SK** and Mandal P. Free radical scavenging activity and histochemical localisation of reactive oxygen species in fenugreek sprouts primed with nitric oxide donors. *American Journal of Phytomedicine and Clinical Therapeutics*. 2014; 2:11-1310-1322

12. **Gupta SK**, Ghosal M, Biswas R, Saha BK, Das AP and Mandal P. Evaluation of *in vitro* antioxidant activity of methanolic extracts of some ferns from Mawsynram of Meghalaya, India. *International Journal of Current Science*. 2014; 12: E 87-97.
13. **Gupta SK**, Ghosal M, Choudhury D, and Mandal P. Assessment of antioxidant activity and polyphenolic content of *Couroupita guianensis* during flower and fruit maturation. *International Journal of Recent Scientific Research*. 2014; 5(5):940-947.
14. **Gupta SK**, Ghosal M, Choudhury D, and Mandal P. Dynamic changes in antioxidant activity during floral development of *Couroupita guianensis*. *British Journal of Pharmaceutical Research*. 2014; 4(6): 676-694
15. **Gupta SK** and Mandal P. Improvement of antioxidant activity and related compounds in fenugreek sprout through nitric oxide priming. *International Journal of Pharmaceutical Sciences Review and Research*. 2014; 26(1): 249-257.
16. Lama B, Ghosal M, **Gupta SK**, Mandal P. Assessment of different preservative solutions on vase life of cut roses. *Journal of Ornamental and Horticultural Plants*. 2013; 3(3):171-181.

Book Chapters:

1. **Saran Kumar Gupta**. (Aug, 2023). Therapeutic Potential of Fenugreek – A Review. In: *Current Trends in the Emerging Fields of Botanical Research (Vol-I)*, (Ed: Pranay Bantawa & B.B. Gurung), Iterative International Publisher, Karnataka, India. pp. 37-47.
2. **Saran Kumar Gupta** and Suchisree Jha. (Aug, 2023). Revisiting *Moringa oleifera*: Pharmacology and Therapeutic Potentialities. In: *Current Trends in the Emerging Fields of Botanical Research (Vol-I)*, (Ed: Pranay Bantawa & B.B. Gurung), Iterative International Publisher, Karnataka, India. pp. 59-67.
3. **Saran Kumar Gupta** and Palash Mandal. (July, 2023) Impact of exogenous nitric oxide and calcium ion on therapeutic potential and associated phytoconstituents of fenugreek seedlings. In: *Research in emerging fields of Biological Science (Multidisciplinary Aspect)*. (Ed.: Tarun Kumar Misra), Astiva Prakashan, Chhattisgarh, India. pp. 1-9.
4. **Saran Kumar Gupta**. (Apr, 2023). Plant secondary metabolites and environmental stress: Current Scenario and future perspectives. In: *Innovative Approaches in Plant Protection* (Ed: Rakesh Yonzon & Maimom Soniya Devi), Prakhar Goonj Publication, Delhi, India. pp. 238-255.

Seminar/Symposium/Conference/Webinar:

- 1.** International Conference on Current Issues in Agricultural, Biological & Applied Sciences for Sustainable development. 11-13 June, 2022. Science Centre, Kalimpong.
- 2.** One day National Conference on Mentoring Institutional social responsibility and facilitating community engagement. 19th April 2022. North Bengal University.
- 3.** 15th National Seminar Cum Workshop on Genomics and Bioinformatics in High throughput Era, 26th & 27th March 2022, Bioinformatics Facility Center, NBU.
- 4.** International Webinar on Understanding the basics of making the other planets habitable for living organisms-by visiting inside the central campus of ISU, France. 19th January 2022. Jhargram Raj College.
- 5.** International Webinar on Science, Biology and the World's future, 25th August, 2020, Dinabandhu Andres College.
- 6.** International Webinar on Neoteric Approaches in Applied Sciences, 24th August, Darjeeling Government College.
- 7.** International Webinar on Crucial Roles of Biological Rhythms in Health and Diseases: A novel insight into COVID-1 management. 8th August 2020, Asutosh College & Dhruba Chand Haldar College.
- 8.** International Web Conference on Climate Change & Human Health, 07th August 2020, Tufanganj Mahavidyalaya and Ananda Chandra College.
- 9.** International Virtual Conference on World After Covid-1: The future of Higher Education, 3rd & 4th August 2020, South Field College.
- 10.** International Webinar on Application of Statistics in Contemporary Issues, 02 August 2020, Krishnagar Government College.
- 11.** International Webinar on Sustainable Approaches for Environmental Protection: Lesson from Covid-19 Pandemic, 25th June, 2020, Department of Applied Sciences, KIET Group of Institutions, Lucknow.
- 12.** National Seminar on Bi-Centenary Birth Anniversary of Pandit Ishwar Chandra Vidyasagar, September, 2019, Kalimpong College.
- 13.** Presented a research paper entitled: 'Effect of exogenous supply of nitric oxide on the oxidative stress status of fenugreek sprouts under salinity'. The Green Planet: past, present and future, 2016.
- 14.** Presented a research paper entitled: 'Effect of exogenous supply of calcium ion on the therapeutic potential and oxidative stress management of fenugreek sprouts'. Defining Modern Biology: Plants and Microbes, 2016.

15. Presented a research paper entitled: 'Reactive oxygen species localisation and free radical scavenging properties of fenugreek sprouts under the influence of exogenous nitric oxide'. Advances in plant and Microbial Research, 2014.

16. Presented a research paper entitled: 'Elicitation of free radical scavenging activity by nitric oxide donors during different developmental phases in dark germinated fenugreek sprouts'. Current Trends in Plant Biology Research, 2013.

17. Presented a research paper entitled: 'Developmental stimulation of total phenolics and related antioxidant activity in dark-germinated *Trigonella foenum-graecum* by nitric oxide donors'. Biotechnology for people: Applications and awareness, 2012.

18. Participated in 31st Annual Conference of Indian Society of Mycology and Plant Pathology entitled "Microbial Wealth Plant Health" 2009.

Workshop attended

- 1) Mushroom cultivation at Department of Botany in collaboration with Department of lifelong learning and extension, University of North Bengal, 2010.
- 2) Intellectual property and Innovation management in knowledge era organized by University of North Bengal and National Research Development Corporation, New Delhi, 2013.
- 3) Cultivation and Post Harvesting of Edible Mushrooms organized by Department of Botany, University of North Bengal, 2014.
- 4) Cultivation of Medicinal and Aromatic Plants organized by Department of Botany, University of North Bengal, 2015.
- 5) Exploitation of Plant and Microbial Resources of North Bengal organized by Department of Botany, University of North Bengal, 2015.
- 6) Bioresource Utilization organized by Department of Botany, University of North Bengal, 2016.

Declaration:

All the details given above are true to the best of my knowledge and believe.

Place: Kalimpong

Date: 07/03/2024

Saran Kumar Gupta

Dr. Saran Kumar Gupta

Assistant Professor