



Dr. S. Shweta

Centre/School: School of studies of Life Science

Department: Botany

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Qualification:

2009-2015	Ph.D. in Systematics, Evolution and Biogeography of the genus <i>Crotalaria</i> L. Department of Botany, University of Delhi, Delhi - 110007
2007-2009	M.Sc. Botany (Gold Medalist) Department of Botany, University of Delhi, Delhi - 110007
2004-2007	B.Sc. Botany (Gold Medalist) University of Delhi, Delhi - 110007

Area of interest/specialization:

Systematics, Evolution, Biogeography and Reproductive ecology of selected groups of flowering plants

Experience: Research

2015-2016	Research Associate Department of Botany, University of Delhi, Delhi - 110007
2013	Research scholar (invited) Department of Systematic Botany and Mycology Ludwig Maximilians Universitat, Munchen, Germany
2009-2015	Ph.D. Scholar University of Delhi, Delhi - 110007

Experience: Teaching

2020 - present	Assistant Professor – Botany Guru Ghasidas Vishwavidyalaya Bilaspur, Chhattisgarh – 495009
2018 - 2020	Assistant Professor – Botany (UPSC selection – 3rd Rank) Mahatma Gandhi Govt. Arts College, Mahe – 673311 Govt. of Puducherry

2016 - 2018	Assistant Professor – Botany Hansraj College, University of Delhi, Delhi - 110007
2015	Assistant Professor – Botany Zakir Hussain Delhi College, University of Delhi, Delhi - 110007
2014	Assistant Professor – Botany Dyal Singh College, University of Delhi, Delhi - 110007
2010 - 2014	University Teaching Assistant Department of Botany, University of Delhi, Delhi - 110007

Awards and Honors:

1. **Awarded YS Murty Medal (2020)** of the 43rd All India Botanical Conference of The Indian Botanical Society for “**Outstanding contributions in the filed of legume Systematics, Phylogeny and Evolution** held at CSIR- NBRI, Lucknow from 19-21 March 2021.
2. **Awarded best poster presentation** in International Association of Plant Taxonomy 2016, on the topic "Systematics and evolutionary significance of pod morphology and anatomy in the genus *Crotalaria* L.”
3. **Awarded** “Fr. Antony Mukkath K.S. Manilal Award for **best paper presentation** under the category “Modern Techniques in Plant Taxonomy” presented at the Annual Conference of the Indian Association of Angiosperm Taxonomy of the year 2010 for the paper entitled “Molecular Systematics of Indian *Crotalaria* inferred from ITS Sequences of nuclear ribosomal DNA on 28th November 2010.
4. Qualified joint **CSIR-UGC NET-JRF** examination held on 20-12-2009. Sr. No. 2120930672
5. Qualified **Graduate Aptitude Test in Engineering** in 2009. Reg. No. XL 3410306
6. **Gold medal** in MSc Botany from University of Delhi, Delhi – 110007
7. **Gold medal** in BSc Botany from University of Delhi, Delhi – 110007

Research Projects

- **As PI: UGC start up grant sanctioned** for Rs. 10,00,000/- on 6th August 2020 in Minutes of 98th meeting of the empowered committee on Basic Scientific Research.

International Collaboration:

- Updated the legume checklist of the genus *Crotalaria* L. under the **LEGUME PHYLOGENY WORKING GROUP** and part of the GLOBAL LEGUME TAXONOMIC EXPERT NETWORK alongwith Anne Bruneau, Ph.D., Professeure titulaire, Dépt. Sciences biologiques, Université de Montréal, Canada and Marianne Le Roux (e-Flora co-ordinator), South African National Biodiversity Institute (SANBI)

Citation:

- Andrella G C, Atahuachi Burgos M, Bagnatori Sartori Â L, Balan A, Bandyopadhyay S, Barbosa Pinto R, Barrett R L, Boatwright J S, Broich S L, Brullo S, Bruneau A, Cardinal-McTeague W, Cardoso D, Castro Silva I C, Cervantes A, Choo L M, Cobra e Monteiro T, Compton J, Cramer S, Delgado-Salinas A, Dorado O, Duan L, Egan A N, De la Estrella M, Falcão M, Farruggia F, Fortuna-Perez A P, Fritsch P, Giusso del Galdo G P, Goncharov M, Gregório B D S, Javadi F, Klitgaard B B, Kramina T, Lachenaud O, Lana C. Atunes L, Le Roux M M, Ledis Linares J, Lewis G P, Li S, De Lima H C, Mansano V, Mashego K S, Mattapha S, Montenegro Valls J F, Moteeteete A, Murphy B, Ohashi H, Ohashi K, Pandey A, Pennington R T, Phillipson P, Povydysh M, Rakotonirina N, Ramos G, Ranzato Filardi F, Sanjappa M, Santos-Guerra A, Schley R, Schrire B, Schütz Rodrigues R, Seijo G, Seleme E P, Şentürk O, Silva de Carvalho C, Silva Flores A, Simpson C E, Sirichamorn Y, Soares Gissi D, Sokoloff D, Stirton C H, **Subramaniam Shweta**, Thulin M, Torke B M, Van der Burgt X, Vatanparast M, Wilding N, Wojciechowski M, Yi T, Zhang R (2022). The World Checklist of Vascular Plants (WCVP): Fabaceae. Royal Botanic Gardens, Kew. Checklist dataset <https://doi.org/10.15468/mvhaj3> accessed via GBIF.org on 2022-07-18.

List of Publications:

1. **Subramaniam Shweta**, Pandey AK, Geeta R, Mort ME (2013) Molecular systematics of Indian *Crotalaria* (Fabaceae) based on analyses of nuclear ribosomal ITS DNA sequences. *Plant Systematics and Evolution* 299: 1089-1106. **Impact Factor: 1.6**
2. **Subramaniam Shweta**, Pandey AK (2013) Taxonomy and phylogeny of the genus *Crotalaria* (Fabaceae): an overview. *Acta Biologica Indica* 2: 253-264
3. Chauhan V, **Subramaniam Shweta**, Pandey AK (2013) Relationships of Indian *Indigofera* L. (Fabaceae) based on ITS sequences of nuclear ribosomal DNA. *Phytomorphology* 63: 157-167. **Impact Factor: 0.1**
4. **Subramaniam Shweta**, Pandey AK (2014) Reinstatement of *Crotalaria pellita* (Leguminosae, Papilionoideae) and a new combination for its variety. *Phytotaxa* 183: 051-055. **Impact Factor: 1.8**
5. **Subramaniam Shweta**, Pandey AK, Rather SA (2015) Systematics and adaptive significance of seed morphology in *Crotalaria* L. (Fabaceae). *International Journal of Plant Reproductive Biology* 7: 135-146.
6. **Subramaniam Shweta**, Pandey AK, Rather SA (2015) A revised circumscription of the species in Bracteatae complex (section *Calycinae*) in the genus *Crotalaria* L.: evidence from nuclear and chloroplast markers. *Plant Systematics and Evolution* 301: 2261-2290. **Impact Factor: 1.6**
7. Danda S, **Subramaniam Shweta**, Rather SA, Pandey AK (2016) A new species of *Crotalaria* (Fabaceae, Crotalarieae) from Meghalaya, India. *Systematic Botany*. 41(2): 307-315. **Impact Factor: 1.89**
8. Gholami A, Subramaniam Shweta, Geeta R, Pandey AK (2017) Molecular systematics of Indian *Alysicarpus* (Fabaceae) based on analyses of nuclear ribosomal DNA sequences. *Journal of Genetics* 96 (2): 353-363. **Impact factor: 1.00**

9. Rather SA, **Subramaniam Shweta**, Danda S, Pandey AK (2018) Two new species of the legume genus *Crotalaria* L. (Fabaceae) from Maharashtra, India. *PLoS ONE*. pone0192226. **Impact Factor: 3.752**
10. **Subramaniam Shweta**, Rather SA, Danda S, Pandey AK (2020) Presence of air cavities in pods of an endemic legume *Crotalaria pusilla* DC. (Leguminosae, Papilionoideae). *Current Science*. 118 (18): 1492-1493. **Impact Factor: 1.102**
11. Kaushik S, Vashihshtha A, **Shweta S**, Sharma KK, Lakhanpaul S (2020) Essential amino acid profiling of the four lac hosts belonging to genus *Flemingia*: its implications on lac productivity. *Physiology and Molecular Biology of Plants*. 26(9): 1867-1874. **Impact factor: 3.442**
12. Andrella G C, Atahuachi Burgos M, Bagnatori Sartori Â L, Balan A, Bandyopadhyay S, Barbosa Pinto R, Barrett R L, Boatwright J S, Broich S L, Brullo S, Bruneau A, Cardinal-McTeague W, Cardoso D, Castro Silva I C, Cervantes A, Choo L M, Cobra e Monteiro T, Compton J, Cramer S, Delgado-Salinas A, Dorado O, Duan L, Egan A N, De la Estrella M, Falcão M, Farruggia F, Fortuna-Perez A P, Fritsch P, Giusso del Galdo G P, Goncharov M, Gregório B D S, Javadi F, Klitgaard B B, Kramina T, Lachenaud O, Lana C, Atunes L, Le Roux M M, Ledis Linares J, Lewis G P, Li S, De Lima H C, Mansano V, Mashego K S, Mattapha S, Montenegro Valls J F, Moteetee A, Murphy B, Ohashi H, Ohashi K, Pandey A, Pennington R T, Phillipson P, Povydysh M, Rakotonirina N, Ramos G, Ranzato Filardi F, Sanjappa M, Santos-Guerra A, Schley R, Schrire B, Schütz Rodrigues R, Seijo G, Seleme E P, Şentürk O, Silva de Carvalho C, Silva Flores A, Simpson C E, Sirichamorn Y, Soares Gissi D, Sokoloff D, Stirton C H, **Subramaniam Shweta**, Thulin M, Torke B M, Van der Burgt X, Vatanparast M, Wilding N, Wojciechowski M, Yi T, Zhang R (2022). The World Checklist of Vascular Plants (WCVP): Fabaceae. **Royal Botanic Gardens, Kew**. Checklist dataset <https://doi.org/10.15468/mvhaj3> accessed via GBIF.org on 2022-07-18.
13. **Shweta S**, Kurmi A, Kaushik S (2022) Master of disguise: Deceiving tactic employed by crab spider as an efficient strategy for predation. *Indian Journal of Entomology*. Accepted. **Impact Factor: 0.5**
14. **Subramaniam S**, Rather SA, Danda S, Pandey AK (2022) The systematic significance of pod morphological and anatomical variations in Indian *Crotalaria* L. (Leguminosae). *FLORA*. 290: 152059. Impact Factor: **2.253**

Recent Books/Book Chapters/Monographs etc.

- **Shweta S**, Subramaniam B, Rai MK, Danda S, Kurmi S, and Kaushik S (2023) Traditional Agriculture: A Sustainable Approach towards Attaining Food Security in book entitled Crop Sustainability and Intellectual Property Rights (**In Press**). CRC Press: Taylor and Francis Group. **ISBN: 978-1-77491-319-2**.

Research Supervision:

1. **As Supervisor:** Anurag Dwivedi (Enrollment number: GGV/21/13102). Yet to be registered.

- 2. As Co-supervisor:** Praveen Shyam, Department of Environmental Science, Indira Gandhi National Tribal University, Amrkantak, under the guidance of **Dr. Sandeep Kaushik, Assistant Professor**

Administrative responsibilities:

- 1. Member-** Admission committee from 2020, Department of Botany, Guru Ghasidas Vishwavidyalaya from 16th January 2020 till present.
- 2. NSS program officer** of the NSS unit of Guru Ghasidas Vishwavidyalaya
- 3. Warden** of Bilasa Devi Girls Hostel of Guru Ghasidas Vishwavidyalaya
- 4. Member,** NAAC accreditation Committee