

**Name:** Dr. Ashok Kumar

**Father's name:** Late Sh. Mehar Chand

**Designation:** Assistant Professor (Botany)

**Qualification:** Ph.D.(Botany)

**Specialization:** Angiosperms taxonomy, Grass systematics,

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**Address:** Department of Botany, Central University of Jammu, Jammu, 180011

**Area of Interest:** Plants Taxonomy, Diversity distribution and ecology of plants, DNA barcoding, Stress physiology, Molecular plant physiology, Millets, carbon sequestration through grasses.

**Educational qualifications:**

Ph.D. (Botany), Guru Nanak Dev University (GNDU) Amritsar, 2014

M.Sc. (Botany) Guru Nanak Dev University (GNDU) Amritsar, 2007

B.Sc. (Medical) WRS Govt. Degree College, Dehri, Kangra, Himachal Pradesh University (HPU), 2005

**Topic of Ph.D:** Exploitation and Systematics of grass flora of Punjab.

**Supervisor:** Dr. Amarjit Singh Soodan, Former Head, Department of Botanical and environmental sciences, Guru Nanak Dev University, Amritsar 143005

**Teaching experience:**

Assistant professor in Botany, Central University of Jammu, from March 22, 2023 to till date.

Assistant professor in Botany, Guru Nanak Dev University College, Pathankot from May 5, 2021 to March 21, 2023.

Worked as assistant professor in Botany at SMDRSD College Pathankot from 26 July, 2016 to March 31, 2020.

Assistant professor in Botany, SRSPM, Guru Nanak Dev University, College Niari, Pathankot from 15-07-2015 to 15-04-2016.

Lecturer in Botany at DAV, College, Amritsar, from 20-08-2007 to 29-02-2008

### **Professional Training & Research Experience:**

Project fellow in the UGC project under guidance of Dr. A. S. Soodan from May 22, 2009 to July 31, 2011. Work was focused on “Exploration, inventorization and taxonomic analysis of the grass flora of Punjab

Senior Project Associate in IISF, 2020, CSIR NIScPR New Delhi from Dec.2, 2020 to 31, 2021

### **Awards and achievements**

Qualified State Level Eligibility Test (SLET) for Lectureship conducted by HPPSC, Shimla, HP, 2007

Qualified CSIR(NET) for Lecturership conducted by CSIR, New Delhi , 2009

Awarded Rajiv Gandhi National Fellowship (RGNF), UGC, New Delhi, 2011

Qualified Graduate Aptitude Test in Engineering (GATE), Conducted by IIT Roorkee, 2011

### **Publications:**

**Kumar, A.** Soodan, A.S, (2023) *Microstegium ciliatum* (Tri: Andropogoneae Subfamily Panicoideae Poaceae) : a new record from shivalik hills, Punjab, India. *Annals of Plant Science* (Accepted for publication).

Kumar, V., Pandita, S, Kaur, R., **Kumar, A.**, Bhardwaj R. Biogeochemical cycling, tolerance mechanism and phytoremediation strategies of boron in plants: A critical review. *Chemosphere*. 2022

Soodan, A.S, Sharma, S. **Kumar, A.** Kaur, R. (2020). Morpho functional diversity of diaspores of some range grasses of Punjab (India). *Proceedings of 23 international Grassland Congress* (Sustainable use of Grassland Resources for Forage Production, Biodiversity and Environmental Protection) took place in New Delhi, India from November 20 to November 24, 2015.

**Kumar, A.**, Sharma, S., Kaur, R., Soodan, A.S. (2015). A study of Punjab grasses as indicator of environmental change. *Botany Research International*, 8(2): 41-46.

**Kumar, A.**, Soodan, A.S (2013) Taxonomic description of *Elytrophorus spicatus* (Willd.) A campus (Poaceae: Arundinoideae, Arundineae, from the shivaliks of Northern India. *Botany Research International*, 6(3): 71-73.

Soodan, A.S., Sharma, S., **Kumar, A.**, Kaur, R (2012). Strategies for optimising the grass cover of Punjab for fodder production. *Range management and agroforestry*, 33(1): 13-19.

Soodan A.S., **Kumar, A.**, Sharma, S. (2012). An updated conspectus of grasses of Punjab. *Taxonomy and Biosystematics*, 13: 73-84.

### **Conferences/ Symposia**

- ✓ Presented paper on “*Inventorization & systematics analysis of Punjab grasses & relevance to climate change*” in 15<sup>th</sup> Punjab Science Congress Punjab. Organized by Academy of Science, Patiala and Guru Nanak Dev University, Amritsar, 2013.
- ✓ Presented paper in National Seminar on *Biodiversity & Environment* organized by Shahzada Nand College, Amritsar, 2013.
- ✓ Presented paper entitled “*seed and diaspora structure of grasses of Punjab*” in the International symposium” on the topic ‘innovative prospects in angiosperms’ organised by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra Oct. 28-30, 2012.
- ✓ Presented paper entitled “*Potential of the non-conventional grasses for the fodder production in Punjab*” in national symposium ‘Emerging trends in medical biotechnology and nanotechnology’ organised by Arni university, Kangra Himachal Pradesh on Dec.3-4, 2011.
- ✓ Presented paper in national Seminar on *Environment Analysis and Remediation* organized by Department of Botany, Guru Nanak Dev University, Amritsar, 2011.
- ✓ Presented paper entitled “*Non-conventional fodder grasses of Punjab for livestock production*” in the national symposium on the topic ‘Forage resources and livestock for livelihood, environment and nutritional security’ organised by IGFRI, Jhansi, Uttar Pradesh . Sept. 10-11, 2011.
- ✓ Presented paper entitled ‘*A study of Punjab grasses as indicator of environmental change*’ in the “International conference on climate change and sustainable management of natural resources” organised by institute of allied sciences and computer applications ITM Universe, Gwalior on Nov.10-12, 2009.
- ✓ Attended national seminar on *Relevance of Botany in the conservation and improvement of Plants* organized by Department of Botany, University of Delhi, Feb. 8-9, 2006.

### **Workshops attended:**

- ✓ Attended workshop on “*question paper setting as per Revised Blooms Taxonomy (RBT) Model*” conducted by Central University Jammu, 9th & 10th May, 2023.
- ✓ Attended Brain storming workshop on “*Promoting extramural Research in Punjab*” in Department of Botany, Guru Nanak Dev University, Amritsar, 2013.
- ✓ Attended workshop cum training on “*Management of Municipal Solid and plastic waste*” in Department of Botany, Guru Nanak Dev University, Amritsar, 2009.

### **Workshops/webinar co-ordinated**

- ✓ Co-ordinated webinar on *Biodiversity and Eco-restoration* in context of World Environment Week in GNDU college, Pathankot, 2021
- ✓ Co-ordinated seven day National workshop on “*Human Rights*” organized by SRSPM College, Niari, Pathankot, 2015

### **Technique /Instruments handled**

Herbarium management, Stereoscopy, RAPD, DNA isolation, PCR, Amplification of DNA, Gel- electrophoresis.

### **Membership of societies:**

*Indian Range Management Society*

*Indian Ecological Society*

### **Other achievements/duties performed**

**President:** Society of Botanical and Environmental Sciences Guru Nanak Dev University Amritsar (DOBES), 2012

**Best orator:** WRS Govt Degree College, Dehri, Kangra HP, 2005

**Member Quiz Team :** Guru Nanak Dev University Amritsar, 2006

**Co-ordinator :** Youth festival, SRSPM college Niari Pathankot, 2015

**Teacher in-charge :** Quiz team, youth festival, GNDU College Pathankot, 2021-2022

**Nodal officer:** SC scholarship, GNDU College Pathankot, 2021

**Hobbies:** Playing Chess, badminton , Cricket ; travelling , writing.

### **References:**

**Dr. Amarjit Singh Soodan,**

Former Head,  
Department of Botanical and environmental sciences,  
Guru Nanak Dev University, Amritsar 143005

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**Dr. Adarsh Pal Vig,**

Professor

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Guru Nanak Dev University, Amritsar 143005

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