

Curriculum vitae



Name : PRABHAT KUMAR SRIVASTAVA
Name in Hindi : प्रभात कुमार श्रीवास्तव
Designation : Assistant Professor of Botany
Qualifications : MSc (Botany), CSIR-UGC NET-JRF, D. Phil.
Date of Birth : 22/09/1983
Father's Name : Sri Yogendra Kumar Srivastava
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Present Address : Department of Botany
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Topic of the thesis : 'Studies on UV-B and Pesticide Induced Oxidative Stress in Cyanobacteria of Paddy Field'
Research interests : Physiology and biochemistry of cyanobacteria, algae and other higher plants under different environmental stresses and cell signaling
Teaching Experience :
i. Assistant Professor of Botany in Government Degree College Bhaiyathan, Surajpur, Chhattisgarh 497231 (affiliated to Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, C.G.) from 07/12/2012 to 21/12/2017
ii. Assistant Professor of Botany in KS Saket PG College, Ayodhya, Uttar Pradesh 224123 (affiliated to Dr RML Avadh University, Ayodhya, U.P.) from 07/12/2012 up till now.
No. of papers published in refereed journals: 23
Books : 01 (edited)
Book Chapters : 04

Publications:

[A] Research Papers: (In Chronological Order)

2018:

1. Kumar J., Patel A., Tiwari S., Tiwari S., **Srivastava P.K.**, Prasad S.M. (2018). Pretilachlor toxicity is decided by discrete photo-acclimatizing conditions: Physiological and biochemical evidence from *Anabaena* sp. and *Nostoc muscorum* Ecotoxicology and Environmental Safety 156, 344-353 (Elsevier publication, ISSN 0147-6513).

2017:

2. Singh, S., Singh, A., **Srivastava, P.K.**, Prasad, S.M. (2017). Cadmium toxicity and its amelioration by kinetin in tomato seedlings *vis-à-vis* ascorbate-glutathione cycle 165 (2016) 58-70 (Elsevier publication, ISSN 1878-8181).
3. Kumar J., Singh S., Singh M., **Srivastava P. K.**, Mishra R.K., Singh V.P., Prasad S.M. (2017). Transcriptional regulation of salinity stress in plants: A short review. Plant Gene. 11: 160-169 <http://dx.doi.org/10.1016/j.plgene.2017.04.001> (Elsevier publication, ISSN 2352-4073).

2016:

4. Yadav V., Arif N., Singh S., **Srivastava P. K.**, Sharma S., Tripathi D. K., Dubey, N.K., Chauhan, D. K. 2016. Exogenous mineral regulation under heavy metal stress: Advances and prospects. Biochemistry & Pharmacology (Los Angel) 5: 220. doi: 10.4172/2207-0501.1000220.
5. Tripathi, D.K., Singh, S., Singh, S., **Srivastava, P.K.**, Singh, V.P., Singh, S., Prasad, S.M., Singh, P.K., Dubey, N.K., Pandey A.C., Chauhan, D.K. (2016), Nitric oxide alleviates silver nano particles (AgNps)-induced phytotoxicity in *Pisum sativum* seedlings, Plant Physiology and Biochemistry doi.org/10.1016/j.plaphy.2016.06.015 (Elsevier publication; ISSN: 0981-9428).
6. Yadav, G., **Srivastava, P.K.**, Parihar, P., Tiwari, S., Prasad, S.M. (2016). Oxygen toxicity and antioxidative responses in arsenic stressed *Helianthus annuus* L. seedlings against UV-B. Journal of Photochemistry & Photobiology, B: Biology 165 (2016) 58-70 (Elsevier publication, ISSN 1878-8181).
7. Mishra, R.K., Kumar, J., **Srivastava, P.K.**, Bashri, G., Prasad, S.M. (2016). PS II Photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed *Oryza sativa* L. seedlings Chemistry and Ecology. ISSN: 0275-7540 (Print) 1029-0370 (Online)

2015:

8. Singh S., **Srivastava, P. K.**, Kumar D., Tripathi, D. K., Chauhan, D. K., Prasad, S. M. 2015. Morpho-anatomical and biochemical adopting strategies of maize (*Zea mays* L.) seedlings against lead and chromium stresses. Biocatalysis and Agricultural Biotechnology, 4(3):286-295, doi:10.1016/j.bcab.2015.03.004 ISSN: 1878-8181 (Elsevier publication, ISSN 1878-8181).

2014:

9. **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2014. Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. *Ecotoxicology and Environmental Safety* 107, 342-350 (Elsevier publication, ISSN 0147-6513).

10. Yadav, G., **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2014. Light intensity alters the extent of arsenic toxicity in *Helianthus annuus* L. seedlings. *Biological Trace Element Research*, DOI 10.1007/s12011-014-9950-6 Springer publication; ISSN: 0163-4984 (Print) 1559-0720 (online).

2013:

11. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2013. Nitric oxide alleviates arsenic-induced toxic effects in ridged *Luffa* Seedlings. *Plant Physiology and Biochemistry* 71:155-163 (Elsevier publication; ISSN: 0981-9428).

2012:

12. **Srivastava, P.K.**, Singh, V.P., Prasad, S.M. 2012. Compatibility of ascorbate-glutathione cycle enzymes in cyanobacteria against low and high UV-B exposures, simultaneously exposed to low and high doses of chlorpyrifos. *Ecotoxicology and Environmental Safety* 74, 79-88 (Elsevier publication, ISSN 0147-6513).

13. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Differential effect of UV-B radiation on growth, oxidative stress and ascorbate-glutathione cycle in two cyanobacteria under copper toxicity. *Plant Physiology and Biochemistry* 61, 61-70 (Elsevier publication; ISSN: 0981-9428, Impact factor 2.775).

14. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in *Phormidium foveolarum* and *Nostoc muscorum* under copper toxicity: differential display of antioxidants system. *Acta Physiologiae Plantarum* 34:2225-2239 (Springer publication; ISSN: 0137-5881 (Print) 1861-1664 (Online), Impact factor 1.305).

15. Singh, R., Dubey, G., Singh, V.P., **Srivastava, P.K.**, Kumar, S., Prasad, S.M. 2012. High light intensity augments mercury toxicity in cyanobacterium *Nostoc muscorum*. *Biological Trace Element Research* 149, 262-272 Springer publication; ISSN: 0163-4984 (Print) 1559-0720 (online)

16. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. *Toxicological and Environmental Chemistry* 94 (8): 1511-1535 Taylor & Francis publication; ISSN 0277-2248 (Print), 1029-0486 (Online)

17. Singh, V.P., **Srivastava, P.K.**, Prasad, S.M. 2012. UV-B induced differential effect on growth and nitrogen metabolism in two cyanobacteria under copper toxicity. *Cellular and Molecular Biology*.

2011:

18. Sheeba, Singh, V.P., **Srivastava, P.K.**, Prasad, S.M., 2011. Differential physiological and biochemical responses of two cyanobacteria *Nostoc muscorum* and *Phormidium foveolarum* against oxyfluorfen and UV-B radiation. *Ecotoxicology and Environmental Safety* 74, 1981-1993 (Elsevier publication, ISSN 0147-6513)

19. Singh, R., **Srivastava, P.K.**, Singh, V.P., Dubey, G., Prasad, S.M., 2011. Light intensity determines the extent of mercury toxicity in the cyanobacterium *Nostoc muscorum*. *Acta Physiologiae Plantarum* 34:1119-1131 (Springer publication; ISSN: 0137-5881 (Print) 1861-1664 (Online))
20. Gangwar, S., Singh, V.P., **Srivastava, P.K.**, Maurya, J.N., 2011. Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in *Pisum sativum* (L.) seedlings. *Acta Physiologiae Plantarum* 33, 1385-1397 (Springer publication; ISSN: 0137-5881 (Print) 1861-1664 (Online)).
21. Singh, V.P., Shukla, S. K., **Srivastava, P.K.**, Singh, A. K. 2011. Cytomorphological effects of EMS treatment on safflower in M₁ generation. *Biochemical and Cellular Archives* 12 (1), 75-79 (ISSN 0972-5075).

2009:

22. Prasad, S. M., **Srivastava, P.K.**, Singh, V.P., Singh D., 2009. Neem leaf aqueous extract induced changes in biomass accumulation, photosynthetic activity and status of reactive oxygen species, lipid peroxidation and enzymatic antioxidants in cyanobacterium *Plectonema boryanum*. *Biochemical and Cellular Archives* 9, 103-111 (ISSN 0972-5075).

2008:

23. Prasad, S. M., **Srivastava, P.K.**, Singh, V. P., Kumar, D., 2008. Endosulfan induced effect on growth, photosynthesis and assimilation of nitrogen and phosphorus in non-heterocystous cyanobacterium *Plectonema boryanum*. *Biochemical and Cellular Archives* 8, 109-118 (ISSN 0972-5075).

[B] Books:

2019:

1. Pesticides in Crop Production: Physiological and Biochemical Action, **Srivastava P. K.**, Singh V.P., Singh A., Tripathi D.K., Singh S., Prasad S.M., Chauhan D.K. (eds.) John Wiley & Sons, Ltd.

[C] Book Chapters:

2018:

1. Singh R., Parihar P., Singh S., **Srivastava P. K.**, Singh V. P., Prasad S. M. Life in Ancient Era: The Evolution of Photosynthesis Studium Press 2018 V. P. Singh et al. (eds.), Environment and Photosynthesis: A Future Prospect, p.p.1-6 ISBN13 9789385046209

2016:

2. **Srivastava, P.K.**, Parihar, P. Singh, R., Prasad, S.M. The risk associated with the xenobiotics released through wastewater reuse Springer Nature Singapore Pte Ltd. 2016 A. Singh et al. (eds.), Plant Responses to Xenobiotics, DOI 10.1007/978-981-10-2860-1_11

2015:

3. Contribution of an e- chapter to the e-pathshala entitled '**Fertilization**' under 'Plant Development' section in Botany (sponsored by the University Grants Commission, New Delhi under the Ministry of Human Resource Development under its National

Mission on Education for the postgraduate courseware, available on <http://epgp.inflibnet.ac.in/ahl.php?csrno=4>)

4. Contribution of an e- chapter to the e-pathshala entitled '**Meristem**' under 'Plant Development' section in Botany (sponsored by the University Grants Commission, New Delhi under the Ministry of Human Resource Development under its National Mission on Education for the postgraduate courseware, available on <http://epgp.inflibnet.ac.in/ahl.php?csrno=4>)