

CURRICULUM VITAE

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GENERAL INFORMATION AND ACADEMIC BACKGROUND

1. Name :	Dr. ASHOK KUMAR
2. Father's Name:	Sh. Bhumi Chand
3. Department:	Botany Department
3. Date of place of birth-	04/03/1968
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11. Period of teaching: 25 Years.

12. Research Experience excluding years spent in ME/Ph.D. Years: 20 Years.

13. Fields of specialization under the subject / discipline: Microbial Biotechnology

14. Fields of specialization: Microbial Biotechnology/ Nitrogen Fixation.

15. Research guidance:

i. M. Phil- 25

ii. Ph.D.- 2- awarded, 4: working

16. Research Paper: More than 40 Research papers have been published in different National and International repute journals.

1. Govind prakash, S.P. Verma, Kumar V and **Kumar A** (1995). Evaluation of *Lagenaria siceraria* Seedling emerged from pre-treated seeds with acid solutions of different pH. Acta Botanica 23: 105-108. ISSN: 0019-4468.
2. Sen Shilpi, **Kumar A** and Charaya M. U. (2007). Screening of soil for cadmium- tolerant micro fungi. Bulletin of Pure and applied sciences. Vol.26B (No.1-2). ISSN-0970-4612.
3. **Ashok Kumar**, Charaya M.U. and V. Kumar (2006), Effect of some nitrogenous fertilizer on nodulation in different cultivars of some legumes. J. Bot. Soc. Univ. Sagar vol. 41:5-10 ISSN: 0019-4468.
4. **Ashok Kumar** and Kumar P, (2005-08). Effect of some nitrogenous fertilizers on Bacteroidal and cortical area of pea nodules. Acta Botanica indica 33-36: 87-88. ISSN: 0379-508X.

5. Ram Asrey, Kalyan B and **Kumar A** (2008). Enjoying Quality pomegranates for a longer period. Indian Horticulture Vol. 53, No. 4. ISSN: 0019-4875.
6. Renu Mavi, **Kumar A** (2013). Health and Environment impact of Nano materials. Proceedings of national seminar in Nano- materials 12:13 April. ISSN: 2231-3442.
7. Deepak Kumar, Malik S and **Kumar A** (2013). Effect of sugar mill effluent on seed germination and seeding growth of barley (*Hordeum vulgare*) and Fenugreek (*Trigonella Foenum- Graecum*) progressive research 8 (special): 903-905.ISSN: 0973-6417.
8. Renu Mavi and **Kumar A** (2013). Environmental migration and climate change; A Review proceedings in national conference on climate change “Socio-Economic and Environmental Issues problems and challenges 21-22 April ISBN: 978-81-7445-645-3.
9. Shalu Malik and **Kumar A** (2013). Effect of iron on Seed germination, Plant growth and nodulation in *Vigna radiata*, R. Wilczak. J. Indian bot . soc. vol 92 (3 & 4) 184-189.ISSN:0019-4468
10. **Ashok kumar** and Garg G (2013) “Effect of Simulated acid rain on *Avena Satvia* CV kulta and Kent 2” Proceedings of national conference on “climate change: Socio Economic and Environmental Issues problems and challenge ISBN: 978-81-7445-645-3.
11. **Ashok kumar** and Singh H (2014). “Effect of N-Fertilizer and *Rhizobium* on *Vigna radiata* and *Cajanus cajan* society of green world for sustainable Environment “Biotech today”.ISSN:2319-2186.
12. Lalita , **Kumar A** and Malik S (2014). The Role of Molybdenum on growth and nodulation with combination of *Rhizobium* in *Vigna radeata* (L) J. Indian bot Soc. Vol. 93 (3 & 4) 236-242. ISSN:0019-4468.
13. Malik Shalu, **Kumar A** (2014). Approach for Nano-particle synthesis: using as Nano-fertilizers IJPRBS, Volume 3(3): 519-527. ISSN:2277-8713.
14. Shalu Malik, Bhati H and **Kumar A** (2014) Effect of Iron on Morpho-physiological and biochemical attributes in *Vigna radiata* (L) Journal of Pharma Research3(8), 154-156.ISSN:2319-5622.
15. Shalu malik, Devi S and **Kumar A** (2014) Influence of arbuscular mycorrhizal fungi (AMF) and phosphorous applications on plant growth and modulation of *Vigna radiata* (L) International journal of current research vol 6, Issue 08 pp 7973-7977. ISSN:0975-833X.
16. Richa Chaudhary, Malik S, **Kumar A** and Paliwal A.K. (2014). Effect of *Rhizobium* and herbicides (2, 4-1) and pendimethalim) on growth and protein content of *Vigna radiata* (L). Proceedings of national seminar on “Recent Trends in plant sciences on 22nd & 24nd August.ISBN_978-93-8464-8-6-2-6.
17. Anju, **Kumar A**, Lalita (2015). Effect of *Rhizobium* and heavy metals (Iron and Copper) on the growth of *Vigna mungo* (L) International journal of Pharmaceutical research and Bio Science volume 4(3): 248-260. ISSN: 2277-8713.
18. Meenakshi and **Kumar A** (2015). Allelopathic effect of Eucalyptus Exudates on *Vigna radiata* L. Progressive Research – An International journal vol 10 (special-1) 582-584. ISSN-0973-6417.
19. Krishna kumari and **Kumar A** (2016). Effect of phosphate Solubilising bacteria on *Vigna radiata* (L.) WILCZEK. International journal of of applied science and Technology, 4(2):pp. ISSN: 2231-3842.

20. Nalini Bharti, **Kumar A** (2016) Response of Mycorrhiza on physiological and Bio Chemical parameters of Black Gram *Vigna mungo* (L) Hepper. International Journal of Pharmaceutical Research and Bioscience volume 5(2): 143-157. ISSN 2277—8317.
21. Kuldeep kumar. **Kumar A** (2016). Effect of fly ash on Morpho- Physiological properties of soil and *Vigna mungo* L. International Journal of Biological sciences Biotech Today Volume 6(2):49-54. ISSN 2322-0996.
22. Kuldeep kumar, **Kumar A** (2017). Effect of fly ash on some biochemical properties of *Vigna mungo* L. International journal of pharmaceutical research of Bio-science Volume 6(2):1-13. ISSN: 2277-8713.
23. **Ashok kumar**, Singhal M, Kumar K (2017). Effect of glyphosate herbicide on physiological and biochemical parameters of *vigna mungo* L. Journal of plant development sciences Volume 9(6) : 549-557. ISSN: 2348-9170.
24. Soni, Lalita and **Kumar A.** (2017) Influence of micronutrients (molybdenum and iron) applied in combination with *Rhizobium* on biochemical parameters of *Vigna radiata* (L). International Journal of Current Research. Vol. 9, Issue, **10**, pp.59639-59643.
25. Asma and **Kumar A.** (2017). Phenotypic evaluation of spring wheat in two different environments. Journal of plant development science. Vol **9** (11): 1019-1025.
26. Ziyaul N., Lalita and **Kumar A.** (2017). Influence of dual inoculation of *Rhizobium* and Mycorrhiza on physiological and biochemical properties of *Vigna radiata* (L). International Journal of Recent Scientific Research. Vol. **8** (12):22633- 22639.
27. Soni, **Kumar A**, and Lalita. (2018). *Vigna radiata* (L.) yield and its quality influenced by rhizobium inoculation and different concentration of iron and molybdenum. International journal of pharmaceutical research of Bio-science Volume Volume **7(1)**: 11-26.
28. Rajpoot, P., Kumar, K., Asma., **Kumar, A.** (2018). Impact of ammonium sulphate (Paper Marker's Alum) on some physiological growth characteristics of Lentil and soil parameter. IJCRT Vol. 6 (2): 453-457.
29. Rajpoot, P., Kumar, K., Asma., **Kumar, A.** (2018). Potential use of Mascagnite [(NH₄)₂SO₄]: A way to ameliorate crop yield and nitrogen fixation capacity of *Lens culinaris* L. International Journal of Multidisciplinary Research and Development. Vol 5 (6): 81-85.
30. Kumar A*, Kumar N., Kumar K and Asma (2018). Allelopathic assessment of *Ageratum conyzoides* weed on *Pisum sativum* L. *International Journal of Recent Scientific Research*. Vol. 9, Issue, 6(F), pp. 27566-27570
31. Kumar N, Kumar K, Asma and **Kumar A.** (2018). Allelopathic potential of *Ageratum conyzoides* L. on growth and development of *Pisum sativum* L. *International Journal of Current Research*. Vol. 10, Issue, 07, pp.71659-71663.
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36. Samar S. and Kumar A. (2020). Co- inoculation Potential Impact of PSB and *Rhizobium* on Phytochemical Properties of soil and Legume crop growth. *Research Journal of Agriculture Sciences* 11(1): 01-09.
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38. Doli, Asma and **Kumar A.** (2020). Growth with Some Biochemical Responses in Two Cultivars of *Cicer arietinum* L. to Fly Ash Amended Soil. *Indian Journal of Agricultural Research*. **Accepted:** 21-07-2020.
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42. Kumar K and Kumar A (2022). Empirical use of fly ash for rhizobial population and yield of some legume crops for sustainable agriculture. *Biomass Conversion and Biorefinery (Springer Nature)*. DOI. [10.1007/s13399-021-02058-9](https://doi.org/10.1007/s13399-021-02058-9).