

CURRICULUM-VITAE

Dr. SANDEEP KUMAR

Assistant Professor

Department of Botany & Microbiology,

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Education

- **Ph.D. "Effect of Bio-fertilizer and Integrated Nutrient Management Protocol (N, P & K) on quality improvement of *Sesamum indicum* L.** from Department of Botany & Microbiology, GurukulaKangri University, Haridwar, Uttarakhand, India-2008.
- **National Eligibility Test (CSIR-NET), Exam Pass-LIFE-SCIENCE-** 2003.
- **GATE- IIT Madras, Chennai, India, Exam Pass- LIFE-SCIENCE -**2003.
- Post Graduate Diploma in **Biodiversity Conservation**-Forest Research Institute (**ICFRE**), Deemed University, Dehradun, UK, India. First Division-2002
- **Master of Science with Spl. in Plant Biotechnology** -First Division-2001. Institute of Advanced Studies, Ch. C. S. University CAMPUS, Meerut, UP, India.
- **Bachelor of Science**--First Division-1999. M. S. Degree College, Saharanpur, Ch. C. S. University, Meerut, UP, India.

Employment/ Scholarship

• **Assistant Professor**(10th Nov. 2018 to till date)

Department of Botany and Microbiology,

GurukulaKangri University, Haridwar, Uttarakhand, India

• **Assistant Professor**(11 Nov. 2017 to 9th Nov.2018)

Department of Botany,

Multanimal Modi PG College, Modinagar, Ghaziabad, UP, India

• **Scientist-A, Botany/Plant Breeding(27.06.2011 to 06.10.2017)**

Regional Experiment Station, Nagrakata, Jalapiguri, West Bengal,

Rubber Research Institute of India,

Rubber Board, Ministry of Commerce & Industry, Government of India, Kottayam-09

• **Assistant Professor (Adhoc)** (24 August 2007 to 15.05.2011)

Department of Botany and Microbiology,

GurukulaKangri University, Haridwar, Uttarakhand, India.

• **Lecturer-on-Sanvida**(12 Dec 2006 to 23-August 2007)

Department of Botany, Government, Post Graduate Degree College,

Berinag, Pithoragarh, Uttarakhand, India

• **Research Intern** (4 June, 2004 to 3 June, 2006)

CSIR-Diamond Jubilee Research Intern Award-2004,

Raw Materials, Herbarium and Museum Division (RHMD), **NISCAIR**

(**CSIR**) PUSA CAMPUS, Dr. K. S. Krishnan Marg, New Delhi-12. India.

Research Papers: Published in journal with ISSN No & Impact factor

1. Diman, S., Dubey, R.C., Maeshwari, D.K. and Kumar, S. (2019) Sulfur-oxidizing buffalo dung bacteria enhance growth and yield of *Foeniculumvulgare*Mill. *Canadian Journal of Microbiology*. **65**: 1-10.
Impact factor: 1.243 **ISSN (print):** 0008-4166: **ISSN (electronic):** 1480-3275
2. Reju, M.J., Mydin, K.K., Singh, M. and Kumar, S. (2017) Evaluation of poly-cross progeny populations of *Heveabrasiliensis* in three agro-climatic zones of India. *Rubber Science*, **30**(3): 226-243.
ISSN: 2454-4841 **Online ISSN 2454-485X**
3. Das, G., Kumar, S., Krishnakumar, R. and James, J. (2016) Early establishment and photochemical efficiency of Ortets from diverse agro-climate in a cold-prone environment. *Rubber Science*, **29**(3):286-297.
ISSN: 2454-4841 **Online ISSN 2454-485X**
4. Das, G., Kumar, S., Raj, S., Krishnakumar, R. and James, J. (2016) Performance of *Hevea* seedlings from diverse regions in the agro-climate of Sub-Himalayan West Bengal. *Rubber Science*, **29**(2):185-193.
ISSN: 2454-4841 **Online ISSN 2454-485X**
5. **Kumar, S., Das, G. and Mondal, G.C. (2015) Lightning damage on rubber plants in West Bengal. *Rubber Board Bulletin*. **33**(4):23-24.
ISSN No. 0970-4123**
6. **Kumar, S., Das, G. and Mydin, K.K. (2015) Performance of some *Hevea* clones under the cold prone climate of sub-Himalayan West Bengal. *Rubber Science*, **28**(3):247-254.
ISSN: 2454-4841 **Online ISSN 2454-485X****
7. Das, G., **Kumar, S.**, Choudhury, M., Krishnakumar, R. and Jacob, J. (2015) Rubber cultivation in alkaline soils of Dooars area of West Bengal: A report on growth of young plants. *Rubber Science*, **28**(3):266-274.
ISSN: 2454-4841 **Online ISSN 2454-485X**
8. Das, G., Meenakumari, T., Meti, S., **Kumar, S.** and Mydin, K.K. (2015) Growth and yield of new generation clones of *Hevea* under the agro-climate of sub-Himalayan West Bengal. *Journal of Plantation Crops*. **42**(2): 126-130.
ISSN No 0304-5242
9. **Kumar, S.** and Jacob, J. (2015) Common weeds in Rubber Plantations in West Bengal. *Rubber Board Bulletin*. **33**(2):21-25.
ISSN No. 0970-4123
10. Maheshwari, D. K., Dubey, R. C., Aeron, A., Kumar, B., **Kumar, S.**, Tewari, S. & Arora, N. K. (2012) Integrated approach for disease management and growth enhancement of *Sesamumindicum*L. utilizing *Azotobacterchroococcum*TRA2 and chemical fertilizer. *World J. Microbiol. Biotechnol.* **28** (10):3015-3024.
Impact factor: 1.532 **ISSN No. 1573-0972**
11. Maheshwari, D.K., **Kumar, S.**, Kumar, B., Pandey, P. (2010)Co-inoculation of Urea and DAP tolerant *Sinorhizobium meliloti* and *Pseudomonas aeruginosa* as integrated approach for growth enhancement of *Brassica juncea*.*Indian J Microbiol.* Oct-Dec, 2010, **50**(4): 425-431.
Impact Factor: 1.143, **ISSN No. 0046-8991**
12. Singh, N., **Kumar, S.**, Bajpai, V.K., Dubey, R.C., Maheshwari, D.K. and Kang, S.C. (2010). Biological control of *Macrophominaphaseolina* by chemo-tactic fluorescent *Pseudomonas aeruginosa* PN1 and its plant growth promontory activity in Chir-pine. *Crop Protection*. **29**(10): 1142-1147.

Impact Factor: 1.539, ISSN No. 0261-2194.

13. **Kumar, S.**, Pandey, P. and Maheshwari, D.K. (2009). Reduction in dose of chemical fertilizers and growth enhancement of sesame (*Sesamum indicum* L.) with application of rhizospheric competent *Pseudomonas aeruginosa* LES4. *European Journal of Soil Biology*. **45**(4): 334-340.

Impact Factor: 2.014, ISSN No. 1164-5563.

14. **Kumar, S.** and Srinivasan, K. (2009) Effect of Chromium sulphate on soil Mycobiota. *Environment Conservation Journal*. **10**(3): 77-79.

ISSN No. 0972-3099.

15. Singh, H.B. and **Kumar, S.** (2005) Crude drug identification an essential need. *Bulletin of Medico-Ethno-Botanical Research*. Vol. XXVI No. **3-4**: pp.54-64.

ISSN No. 0253-6889.

16. **Kumar, S.** Srinivasan, K., Saxena, S. and Uprety, M. (2005) Dormancy breaking treatments to improve seed germination in *Delonix regia*. *Indian Journal of Plant Genetic Resources*. **18**(3): 279-281.

ISSN No. 0971-8184.

Reviews Article/Chapter/popular articles:

1. **Kumar, S.**, Agarwal, M., Shrivardhan, D. and Maheshwari, D. K. (2015) Exploitation of Phytohormones-Producing PGPR in development of multispecies Bio-inoculant Formation. *In: Bacterial Metabolites in Sustainable Agro-ecosystem, Sustainable Development and Biodiversity*: (ed. Maheshwari, D. K.), Springer, Heidelberg, Germany, Pp. 297-317.

ISBN No- 978-3-319-24652-9

2. **Kumar, S.**, Kumar, P., Dubey, R.C. and Maheshwari, D.K. (2012) Ecofriendly and Economically Viable Integrated Nutrient Management for Sustainable Agriculture. *In: Bioremediation of Pollutants* (Eds. Maheshwari, D.K. and Dubey, R.C.), I.K. International Publisher House Pvt. Ltd. New Delhi. Pp279-298.

ISBN No.: 9789381141052 9381141053.

3. Maheshwari, D.K., **Kumar, S.**, Narendra, K. Patel, D and Saraf, M. (2012) Nutrient availability and management in rhizosphere by microorganisms. *In: Bacteria in Agrobiolgy: Stress Management*, (ed. Maheshwari, D. K.), Springer, Heidelberg, Germany. pp 301-326

ISBN No. -9783642234644 364223464X.

4. **Kumar, S.**, Dubey, R. C. and Maheshwari, D. K. (2011) Role of PGPR in Integrated Nutrient Management of Oil Seed Crops. *In: Bacteria in Agrobiolgy: Plant Nutrient Management* (ed. Maheshwari, D. K.), Springer, Heidelberg, Germany, pp. 1-16.

ISBN No- 9783642210600

5. **Kumar, S.**, Aeron A., Pandey, P. and Maheshwari, D.K. (2011) Ecofriendly Management of Charcoal Rot and *Fusarium* Wilt Diseases in Sesame (*Sesamum indicum* L.). *In: Bacteria in Agrobiolgy: Crop Ecosystems*, (ed. Maheshwari, D. K.), Springer-Verlag Berlin Heidelberg, Germany. Pp. 387-405.

ISBN No. - 9783642183560

6. Aeron, A., Kumar, S., Pandey, P. and Maheshwari, D. K. (2011) Emerging role of Plant Growth Promoting Rhizobacteria. *In: Bacteria in Agrobiolgy: Crop Ecosystem* (ed. Maheshwari, D. K.), Springer, Heidelberg, Germany, Pp. 1-36.

ISBN No.– 9783642183560

Popular articles

7. **Kumar, S.** and Maheshwari, D.K. (2011) Popular article in National Magazine on “*Sadabhar Harit Kranti*” (Ever Green Revolution) published as special article. *VigyanPragati*. August, 29-34.

ISSN No- 0042-6075

8. **Kumar, S.** and Maheshwari, D.K. (2010) Popular article in National Magazine on “*JavikKrishi-Paryavaran Ki Pukar*” special issue on Agriculture, *VigyanPragati* March, 34-40.

ISSN No- 0042-6075

9. **Kumar, S.** and Singh H. B. (2006) *Acokantheraoppsitifolia*- An Ornamental Poisonous Plant. *Nat. Prod. Rad.* 5 (2), pp. 124.

ISSN No. 0972-592X

Training programs /Conference/ Seminars/ Workshop Summer School Attended/ participated/ Abstract Published

1. Participated and paper presented in National Conference on “**Microbial Inoculants for Agriculture and Environmental Sustainability**” from September 28-30, 2018, held at Department of Botany and Microbiology, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand.
2. Participated in National workshop on “**Hands on Training in Plant Taxonomy: Tools and Techniques**” from February 15-21, 2018 held at Department of Botany, Ch. Charan Singh University, Meerut in collaboration with Botanical Survey of India.
3. Paper presented and participated in “**103rd Indian Science Congress**”: Kumar, S., Das, G. and Mydin, K.K. (2016) Intra-clonal variability for yield in *Hevea* under the clod prone climate of Sub-Himalayan West Bengal, held at University of Mysuru 3-7 January, 2016.
4. Participated in International Rubber Research Development Board- Rubber Research Institute (IRRDB-RRII) workshop on “**Multilateral Clone Exchange**” from 4-7th June, 2014 at RRII, Rubber Board, Kottayam, Kerala, India.
5. Participated in **Eddy Covariance Training Course** organized by Campbell Scientific, Canada held at CRIDA, Hyderabad 25-27 November, 2013.
6. Participated, poster presentation and Abstract published: Gitali, D., MeenaKumari, T., Singh, R.S., Khroar, S., Meti, S., Gohain, T., **Kumar S.**, Mydin, K.K., and Chaudhary, D. (2012) Growth and yield of new generation clones of *Hevea* in Sub-Himalayan West Bengal. In: **International Rubber Conference 2012**, organized by Rubber Board India under the auspices of International Rubber Research and Development Board 28-31 October, 2012 held at Kovalam, Kerala, India.
7. Participated in **training program** on “**Project Planning, Research Methodology, and Data Analysis**” from 2-4 Nov, 2011 at Rubber Training Institute, Rubber Board, Kottayam, Kerala.
8. Participated in state level workshop on “**Watershed Management & Rain water Harvesting Training Workshop**” held on 3-4 February 2011, organized by UCOST and Central Ground Water Board, Dehradun, Uttarakhand.
9. Participated in **Training Program** on “**Current Trends in Microbial Biotechnology**” held on 14-25th November, 2010 organized department of Botany & Microbiology, GurukulaKangriVishwavidyalaya, Haridwar.
10. Participated in National Seminar on “**Challenge and Opportunities in Evolutionary and Reproductive Biology of Plants**” 10-11 Dec, 2009. On the occasion of Prof. V.Puri Birth centenary, organized by department of Botany, Ch. C.S. University, CAMPUS, Meerut, UP, India.

