

Proforma for information to be provided by the Teaching/Academic/Research Staff

Employee No. 13489



1. Name : (first name) **Jai** (middle name) **Singh** (surname) **Srivastava**
2. Designation : **PROFESSOR**
3. Academic Qualifications :

Degree/Diploma	University/Institution	Year
B.Sc (Ag)	Gorakhpur University	1968
M.Sc.(Ag.)	Banaras Hindu University	1970
Ph.D.	Banaras Hindu University	1978

4. **Area of Specification : (brief writeup) :** General plant pathology, Phytobacterial diseases, Molecular genetics of bacteria and Biological N₂ fixation.
5. **Contact Information :** Tel.(Off.) 0542-2307110, (Chamber)0542-2307116
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6. **Projects Undertaken as PI/Co PI:**

Visits abroad:

1. CIAT, Cali, Columbia, South America, 1981
2. Wye College, University of London, U.K. 1984
3. Molecular Biology Laboratory, University of Bristol, U.K. 1986-87
4. Tissue culture protoplast laboratory, University of Nottingham, U.K. 1991-92
5. Forschungs Institute, Borestol, Germany, 1995

Awards:

1. Commonwealth Academic Staff Fellowship-1986-87 (U.K.)
2. Bursory Scholarship (GU) 1966-68

Achievements:

1. Isolation of highly efficient strain of Bradyrhizobium (M

05) ranked first at National Coordinated Centres. .
 .Isolation of dung resistant mutants of rhizobia and their use as marker in competition studies.
 .Isolation and characterization of rhizobiophages of P5,SU391 (*R. leguminosarum*) and 32H1 (Cowpea group) and their use for competition studied under field conditions.
 .Isolation of transconjugants by using sym plasmids pJB5Ji and their use in genetically dissimilar background .
 .Altering specificity control on interaction between rhizobia and cereals.
 .Antifungal activities of various plant products were determined and used in plant disease management.
 .Management of common scab of potato by using organic amendment.
 .Use of laser rays for mycological research.

**Important
Publications:**

- 1.Isolation and characterization of a virus RL1 infective on *Rhizobium leguminosarum* .Arch.Microbiol.119,263-267,1978
- 2.Occurrence and distribution of Bacteriophages in Indian soils. Acta.Micribiol.Polon.28, 319-324,1979
3. Competition between inoculated cowpea Rhizibium and native rhizobium population Beitr.Biol. Pflanzen.55, 147-155, 1981
- 4.Differential expression of pea symbiotic plasmid pJB5J1 in genetically dissimilar background . Microbios. Letters (Great Britain).43.135-140.1990
- 5.Altering specifically control of the interaction between rhizobia and plants. Symbiosis, 14, 123-130. 1992
- 6.Antifungal activity of Berginin a constituent of Flueggea Microcarpa, Plant Pathology,46,387-389. 1997
- 7.Effect of mannich bases on some plant pathogenic fungi. Folia Microbiol. 43, 393-398.1998
- 8.Effect of Ca⁺ , Mg⁺ , light, temperature and pH on athelial stage formation in *Sclerotium rolfsii* Sacc. Zeitschrift. Fur Pflanzen Krankheiten Und Pflanzenschutz.107.274-278.2000
- 9.Soil amendments to control common scab of potato. Potato Research.47. 101-109. 2004
- 10.Secondery metabolites in Chickpea and their role in pathogenesis after infection by *Sclerotium rolfsii* Sacc. Zeitschrift. Fur Pflanzen Krankheiten Und

Pflanzenschutz.112, 118-123. 2005

Date :

Signature

Place :