

## Profile of Scientist

1. Name of the Scientist :Dr. Anil Kumar Singh
2. Personal bio-data
- a) Position/Designation : Principal Scientist (Plant Pathology)
- b) Contact Details :
- i.ICAR Email ID: [Anil.Singh6@icar.gov.in](mailto:Anil.Singh6@icar.gov.in)
- ii. Personal Email ID: [draksingh56iisr@gmail.com](mailto:draksingh56iisr@gmail.com)
- iii. Mobile No.:9450017632
- c)Joining date in
- i. ICAR: 04/12/1984
- ii.IISR: 12/09/2011
- d) Discipline and Specialization : Plant Pathology :  
Sugarcane Pathology, Bio-control, Fruit Pathology, Mushroom Cultivation.
- e)Training/Advance Exposure in the area of work:
- i) Participated in training course on” **Challenges and Opportunities of Biological Control in Pant Disease Management**” held at the Centre of Advanced Studies in Plant Pathology, Post Graduate School, Indian Agricultural Research Institute, New Delhi from October 16 to November 5, 2001.
- ii) Participated in training course on“**WTO & Patenting Rights**” organized by the ICAR- IPR Cell at the Indian Institute of Sugarcane Research, from September 17-20, 2002.
- iii) Participated in training courseon “**Techniques in Biochemistry and Molecular Biology**” organized by the ICAR Centre of Advanced Studies in Biochemistry, Division of Biochemistry, Indian Agricultural Research Institute, New Delhi from November1-21, 2003.
- iv) Co-convener in first workshop-cum-training program on “**Preservation and Conservation techniques and digitization of Agriculturally**



**Important Microorganisms”** under NBAIM-CABI (U.K) work plan, organized at NBAIM, Mau from September 3-10, 2004.

v) Co-convener in National training on “**Biochemical and Molecular Characterization of Agriculturally Important Microorganisms”** organized at NBAIM, Mau from April 22-29, 2005.

(f)Contribution to the Scientific advancement (in about five bullets):

- **Epidemiology and management of smut disease of sugarcane** (*at IISR, Lucknow*)

i)Developed a protocol for laboratory screening of sugarcane genotypes susceptible to smut by growing point staining technique

ii) Management of smut disease by cultural practices and plant products and bio-agents

iii)Disease estimation models for the management of sugarcane smut

- **Conservation, maintenance and utilization of agriculturally important microorganisms**(*at NBAIM, Mau*)

- **Management of anthracnose disease of mango** (*at CISH, Lucknow*)

- **Biological control of soil-borne diseases**:Establishment of bio-control laboratory & production of bio agents *at CISH, Lucknow*

3. Future planning of research ( in bullets)

- Integrated disease management of fungal diseases of sugarcane.

4. Publication (best five):

1.Singh, A.K. (1992). Susceptibility of some sugarcane selections and varieties to culmicolous smut. *Annals of Applied Biology (U.K.) supplement* 120: 122-123.

2. Rajesh Kumar, Misra, S.R., Singh, A.K. and Ram JiLal (2003). Yield loss in sugarcane genotypes to smut at different resistance levels. *Sugar Cane International, Sept/Oct, 2003: 22-24.*

3. Pandey, S.; Tripathi, R.C.; Singh A.K.; Shukla, U.S. and Agnihotri, V.P. (2000), Inheritance of resistance to red rot I. Evaluation of parental clones of *Saccharum* species against red rot pathogen (*Colletotrichumfalcatum* Went). *Indian Journal of Genetics*. 60((2): 221-226.

4.Singh, A.K. (1998). Cultivation of oyster mushrooms (*Pleurotus* spp.) on sugarcane residues. *Journal of Mycology and Plant Pathology* 28(3): 240-245.

5. Rajesh Kumar; Sinha, O.K.; Bajpai, P.K. and Singh, A.K. (1999). Non-linear model for crop infected by smut-Richards model. *Sugar Tech*. 1(3&4): 98-99.

5. Other relevant activities of : Nil  
Scientist