

Profile of Scientist



1. **Name of the Scientist:** Dr. A. K. Singh

2. **Personal bio-data:**

- a) **Designation:** Senior Scientist
- b) **Joining date in ICAR:** 10-11-1993
- c) **Discipline and specialization:** Agronomy
(Agronomy of sugarcane based cropping systems)
- d) **Training / advance exposure in the area of work:**

| Trainings attended in the relevant field of specialization | | | |
|--|---|---|---------|
| Title | Duration | Institution | Year |
| 48 th Foundation Course on “Agricultural Research Project Management” | 10-11-93 to 9-04-94 (6 Months) | National Academy of Agricultural Research Management, Hyderabad | 1993-94 |
| “Subject Matter Training” | 10-05-94 to 21-11-94 (6 Months) | Indian Institute of Pulses Research, Kanpur | 1994 |
| “Advances in weed management in an Agro-ecological context” | June 10-19, 1996 (10 days) | Tamil Nadu Agricultural University, Coimbatore. | 1996 |
| “Micro propagation” | 11-10-96 (One Day) | Gola Sugar Factory, Gola, Lakhimpur, U. P. | 1996 |
| “Techniques in crop nutrition” | March 29 to April 18, 1997 (21 days) | GBPUA&T, Pantnagar | 1997 |
| “Recent advances in Extension Management” | September 26 to October 16, 2001 (21 days) | IARI New Delhi | 2001 |
| “ Sugarcane crop modelling” | October 21 to Nov. 26, 2004 (37 days) | CIRAD, Reunion, France | 2004 |
| “Adoptive production technologies for sugar beet under Indian conditions” | June 01 -21, 2011 (21 days) | IISR, Lucknow | 2011 |

e) **Contribution to the scientific advancement:**

- Production efficiency of applied nitrogen in relation to sugarcane plant density and intersown dual purpose legumes

- Agronomy of early maturing high sugar genotypes in plant-ratoon system
- Drought management in sugarcane
- Agronomic evaluation of mung bean/ urd bean genotypes with spring planted sugarcane
- Intercropping studies on linseed with autumn planted sugarcane
- Identification of sugarcane genotypes for high nitrogen use efficiency
- Effect of sub-soiling on soil physico-chemical characteristics and sugarcane productivity
- Irrigation management in spring planted sugarcane

3. **Future Planning of research:**

- Sugarcane Crop Modelling
- Seed cane production and Planting Techniques
- Integrated Nutrient Management and Crop Residues Recycling
- Agro-techniques for Multiple Ratoons and Abiotic Stresses
- Crop Diversification vis-à-vis Allelopathic Investigation
- Technology Assessment and Refinement Projects

4. **Publications:**

1. **Singh, A.K.**, Menhi Lal and T.K. Srivastava (2005). Enhancing productivity and sustainability of sugarcane plant-ratoon system through planting geometry, dual purpose legume intercropping and nitrogen nutrition. *Indian Journal of Agronomy* **50** (4):285-288.
2. **Singh A.K.** and Menhi Lal and Arun Kumar Singh (2006). Production potential and economic viability of sugarcane (*Saccharum* spp. hybrids) -based crop diversification options in the North Zone of subtropical India. *Indian Journal of Sugarcane Technology* **21** (1&2):23-26.
3. **Singh A.K.**, Menhi Lal and S.R. Prasad (2006). Effect of row spacing and nitrogen on ratoonability of early maturing high sugar genotypes of sugarcane (*Saccharum* spp.) hybrids. *Indian Journal of Agricultural Sciences* **76** (2):108-10.
4. **Singh A.K.**, Menhi Lal and Mohan Singh (2006). Productivity and profitability of autumn sugarcane based plant-ratoon system through lentil intercropping, nitrogen nutrition and biofertilizer. *Indian Journal of Sugarcane Technology* **20** (1&2): 1-5.

5. Archna Suman, Lal M., **A.K. Singh**, Asha Gaur (2006). Microbial biomass C and N turnover in Indian subtropical soils under different sugarcane- intercropping systems. Agronomy Journal **98**:698-704.

5. **Other relevant activities of Scientist:**

| Type of activities | | | Nature of participation |
|---|-----------------------------------|------------------------------|---|
| ICAR Inter Institutional Zonal/Inter Zonal Sports | Institute Staff Welfare Committee | Security/Vigilance Committee | Chief-de-mission/ Chairman/ Member |