

Personal Details

Dr Shiv Lal

Senior Scientist- Horticulture

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Research Interest: Post Harvest technology, Value addition, Organic farming

M.Sc. : Indian Agricultural Research Institute, New Delhi

Ph.D. : Indian Agricultural Research Institute, New Delhi

Joining date in ICAR (yyyy/mm/dd) : 2008-02-26

[Google Scholar](#)

Publications (Top 10 Publications having NAAS rating 6 and above with first or corresponding author only) :

1. Lal, S., Singh, A.K., Srivastava, M., Dubey, A.K. and Singh, N.K. 2008. Genetic diversity assessment in Indian grape by simple sequence repeats (SSR) markers. *Indian J. Hort.*, 65(4): 383-388.
2. Lal, S., Ahmed, N., Singh, S.R., Singh, D.B., Sharma, O.C. and Kumar, R. 2012. Variability for health and bioactive compounds in strawberry (*Fragaria x ananassa* Duch.) cultivars grown under Indian temperate ecosystem, *Fruits*, 68 (5):1-13.
3. Lal, S., Singh, S.K., Singh, A.K., Srivastava, M., Singh, A. and Singh, N.K. 2016. Character association and path analysis for fruit chromatic, physico-chemical and yield attributes in mango (*Mangifera indica* L.). *Indian J. Agric. Sci.*, 87(1):122-126.
4. Lal, S., Ahmed, N., Verma, M.K., Sharma, O.C. and Mir, J.I. 2017. Genetic variability, character association and path analysis for yield and yield contributing traits in peach. *Indian J. Hort.*, 73 (4): 465-469.
5. Lal, S., Singh, A.K., Singh, S.K., Srivastava, M., Singh, B.P., Sharma, N. and Singh, N.K. 2017. Association analysis for pomological traits in mango (*Mangifera indica* L.) by genic-SSR markers. *Trees: Structure and Function*. 31 (5): 1391-140.
6. Lal, S., Singh, S.K., Singh, A.K. and Singh, N.K. 2019. Assessment of genetic divergence of mango genotypes using multivariate techniques. *J. Environ. Biol.*, 40:17-28.
7. Lal, S., Singh, A.K., Singh, S.K., Srivastava, M. and Singh, N.K. 2019. Genetic diversity in mango cultivars revealed by SSR markers. *Indian J. Hort.* 76(3): 382-394.
8. Singh, D.B., Ahmed, N., Lal, S., Mirza, A., Sharma, O.C. and Pal, A.A. 2014. Variation in growth, production and quality attributes of *Physalis* species under temperate ecosystem. *Fruits* 69 (01): 31-40.
9. Mir, J.I., Ahmed, N., Singh, D.B., Rashid, M., Singh, S.R., Sharma, O.C., Lal, S. and Sharma, A. 2018. Morphological characterization of walnut genotypes of diverse origin. *Indian J. Hort.*, 75(2): 172-176
10. Srivastava, K.K, Singh, D.B., Kumar, D., Singh, S.R., Sharma, O.C. and Lal, S. 2017. Effect of planting densities and varieties on yield and yield associated characters of apple (*Malus x domestica*) on semi-dwarfing rootstock. *Indian J. Agric. Sci.*, 87(5):593-596.

Patent / Technologies / Varieties / Methodologies / System etc. (Five only) :

1. Developed 01 variety of sweet cherry, 02 varieties of walnut and 01 variety of apricot and walnut (CITH-W-3) variety registered for specific fruit shape trait with PPV& FRA, New Delhi.
2. Methodology of screening of almond genotypes against *in-vitro* frost sensitivity to identify low temperature tolerant almond genotypes.
3. In mango two novel markers MSSR 146 & MSSR 174 was identified which was associated with alternate bearing habit, fruit quality, and yield traits.
4. High density orcharding and training systems for apple and peaches/nectarines.
5. Process technology of making apricot fruit bar, cape gooseberry jam and osmo-dehydrated products rose hips, drying of prunes and blending of different fruit juices of stone fruits was standardized.

No. of Students Guided: M.Sc : 0 Ph.D : 0

Awards / Recognitions / Fellowship (Five only) :

1. **IARI Merit Medal (Gold medal)** in Ph.D. conferred by Indian Agricultural Research Institute, New Delhi.
2. **Dr. B. R. Barwale Award** for best Ph.D. thesis in Horticulture Biotechnology-2017 conferred by IAHS, New Delhi.
3. **Fellow** of Confederation of Horticulture Associations of India, New Delhi -2019
4. **Young Scientist Associates Award-2019** conferred by Hi-Tech Horticulture Society, Meerut and Prerna Foundation Meerut.
5. **Young Scientist Award-2019** conferred by Dr. Ram Avatar Shiksha Samiti (DRASS), Lucknow, Uttar Pradesh, India.

International exposure: Nil

Ongoing research projects (institutional / external funded -as PI or CCPI):

- Development of value chain in fennel (PI)
- Development of process technologies for seed spice waste based fortified products for product diversification (PI)
- All India Network Programme on Organic Farming (AI-NPOF) (CCPI)