

Dr. SUDHIR KUMAR INJETI

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Position/Designation	:	Scientist (Plant Breeding)
Discipline and Specialization	:	Genetics & Plant Breeding
Joining date in to service	:	09.08.2011
Date of Birth	:	05.02.1983
Address for Correspondence	:	Scientist (Plant Breeding), Agricultural Research Station, Peddapuram – 533 437, E.G.Dt., A.P.
Permanent Address	:	S/o I. Suvarna Raju, II Lane, Bank Colony, Tadepalligudem W.G.Dt., - 534 101, A.P.
Educational Qualifications	:	
Ph. D.	2011	Acharya NG Ranga Agricultural University (ANGRAU), Hyderabad and International Crops Research Institute for SemiArid Tropics (ICRISAT), Patancheru, AP, India
M. Sc., (Ag.)	2007	University of Agricultural Sciences, Bangalore
B. Sc., (Ag.)	2005	Acharya NG Ranga Agricultural University (ANGRAU), Hyderabad
PGDTMA	2014 onwards	Currently pursuing Post Graduate Diploma in Technology Management in Agriculture (PGDTMA) Jointly offered by NAARM, Hyderabad and University of Hyderabad

Training/Advance exposure in the area of work:

- Carried out doctoral research at ICRISAT, Patancheru, Hyderabad on Genetics of sugar and its component characters in Sweet Sorghum.
- Involved in the development of parental lines for hybrid development in sweet sorghum.
- Worked as research associate in the project entitled 'National Initiative on Climate Resilient Agriculture' at Directorate of Rice Research, Rajendranagar, Hyderabad.
- Involved in collection and evaluation of rice germplasm for tolerance against heat stress.
- Undergone training on seed production in important field crops at Seed Research and Technology Centre, Rajendranagar, Hyderabad.

Work experience and Current profile of work:

- Practical experience in planning and execution of field experiments including preparation of field layouts, data collection and management.
- Practical experience in emasculation, pollination and crossing techniques in sorghum. Preparation of drafts for research papers and technical reports.
- Currently involved in development of high yielding finger millet varieties tolerant to non-lodging and resistance to blast and also involved in the development of maize hybrids suitable for coastal Andhra Pradesh.

Contribution to the scientific advancement:

Generation mean analysis carried out to know the gene action of various sugar yielding components in sweet sorghum in two consecutive rainy seasons as part of doctoral research revealed importance of both additive and dominant gene action as well as epistasis in the genetic control of the traits. Hence, recommended use of heterosis breeding to take the advantage of dominance to bring about best high yielding genotypes and use of biparental mating followed by few generations of selfing to reduce epistatic effects before carrying out selection in segregating generations. I contributed results of my research in the form of publications by publishing four papers based on research work done in master's degree and three papers based on research work done in doctoral degree.

Future planning of Research:

- To develop lodging tolerant, nutrient rich finger millet variety.
- To develop potential hybrids in maize suitable for coastal Andhra Pradesh.

Accolades:

- Awarded Junior Research Fellowship during (JRF) 2005 ICAR.
- Qualified National Eligibility Test (NET) for lectureship/Assistant Professorship in Crop improvement (Plant breeding) conducted by Agricultural Research Scientists Recruitment Board, Indian Council of Agricultural Research (ICAR-ASRB) in 2008.

Publications:

Journal articles:

Sudhir kumar Injeti, P. Venkataravana and M. R. Gururaja Rao 2008 Evaluation of new germplasm and advanced breeding lines of groundnut (*Arachis hypogaea* L.) under late *kharif* situation. Legume Research, 31: 254-258.

I. Sudhir kumar, P. Venkataravana and N. Marappa 2010 Divergence of new germplasm and advanced breeding lines of groundnut (*Arachis hypogaea* L.) studied under late *kharif* situation. Legume Research, 33: 124-127.

- I. **Sudhir kumar**, N Marappa and M Govindaraj 2010 Classification of new germplasm and advanced breeding lines of groundnut (*Arachis hypogaea* L.) through principal component analysis. Legume Research, 33(4):242-248.
- I. **Sudhir Kumar**, M. Govindaraj, K. Vijay Kumar 2010 Estimates of genetic divergence by principal components, canonical, discriminant and cluster analysis in new germplasm and advanced breeding lines of groundnut (*Arachis hypogaea* L.). World journal of agricultural sciences, 6(5): 547-554.
- I. **Sudhir Kumar**, K.H.P. Reddy, P. Srinivasa Rao, P. Sanjana Reddy and Belum VS Reddy 2011 Study of gene effects for stalk sugar yield and its component traits in sweet sorghum [*Sorghum bicolor* (L.) Moench] using generation mean analysis. Journal of Range Land Science 1(2) 133-142.
- P.Venkataravana and **Sudhir Kumar Injeti** 2008 Assessment of groundnut germplasm and advanced breeding lines and isolation of elite foliar disease resistant genotypes for southern Karnataka. J. Soils and Crops, 18: 282-286.
- M. Govindaraj, B. Selvi and I. **Sudhir Kumar** 2011 Genetic diversity studies in indigenous pearl millet [*Pennisetum glaucum* (L.) R. Br.] accessions based on quantitative and quality traits. Indian Journal of Plant Genetic Resources 24(2): 186-193.

Books

- N. Marappa, **Sudhir Kumar Injeti** and P. Venkataravana.2009 Practical manual of Principles of Genetics –[Course No. GPB 101 (2+1) offered for I B.Sc. (Agri.) and (Seri.), University of Agricultural Sciences, Bangalore, College of Sericulture, Chintamani-563125].
- N. Marappa, **Sudhir Kumar Injeti** and P. Venkataravana. 2009 Practical Manual of Principles of Plant Breeding –[Course No. GPB 201 (2+1), University of Agricultural Sciences, Bangalore, College of Sericulture, Chintamani-563125].
- N. Marappa, **Sudhir Kumar Injeti** and P. Venkataravana. 2009 Practical Manual of Breeding of Field Crops –[Course No. GPB 202 (2+1) offered for II B.Sc. (Agri.), University of Agricultural Sciences, College of Sericulture, Chintamani-563125].

Booklets

- Co authored for a booklet published in telugu on *Quality characters of important rice varieties- Tips to achieve quality standards “Mukyamaina vari rakamula nanyata lakshanamulu – nanyata pramanumulanu pondutaku mekakuvalu”* 2013 Andhra Pradesh Rice Research Institute & Regional Agricultural Research Station, Maruteru.

Co authored for a booklet published in telugu on *Weed management in Paddy – “Vari lo kalupu yajamanyam”* 2013 Andhra Pradesh Rice Research Institute & Regional Agricultural Research Station, Maruteru.

Co authored for a booklet published in telugu on *Farm machinery suitable for Paddy Cultivation – “Vari saaguku anuvaina yantra parikaraalu”* 2013 Andhra Pradesh Rice Research Institute & Regional Agricultural Research Station, Maruteru.

Short communications

I. **Sudhir Kumar** and P. Venkataravana. Screening of new germplasm and advanced breeding lines of groundnut (*Arachis hypogaea* L.) Against late leaf spot, rust and leaf miner. (Submitted).

Abstracts

Thesis Abstract: Genetic assessment of new germplasm accessions and advanced breeding lines for oil yield and its attributing characters under late kharif situation in groundnut (*Arachis hypogaea* L.). **Sudhir Kumar Injeti**. Mysore J. Agricultural Sciences.

Memberships:

Life Membership in Indian Society of Plant Breeders (ISPB), TNAU, Coimbatore, Tamilnadu, India (Life Member No. LM-267). Link: <http://sites.google.com/site/ispbtнау/life-members>

Other relevant activities of Scientist :

- Involved in seed production of black gram, green gram and sesamum.
- Contributing services as resource person in various training programs.

References:

Dr. A. Vishnuvardhan Reddy

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