

DSR Publications as on 31st January, 2010

Journal Papers

International

1. Audilakshmi, S., Mall, A.K., Swarna latha, M. and Seetharama, N. 2010. Inheritance of sugar concentration in stalk (brix), sucrose content, stalk and juice yield in sorghum. *Biomass and Bioenergy* (Accepted) (IF - 8.3).
2. Chuni Lal, Hariprasanna, K., Rathnakumar, A.L., Misra, J.B., Samdur, M.Y., Gor, H.K., Chikani, B.M. and Jain, V.K. 2009. Response of peanut genotypes to mid-season moisture stress: phenological, morpho-physiological and yield traits. *Crop & Pasture Science* (formerly *Australian Journal of Agricultural Research*) **60** (4): 339-347 (IF - 8.1).
3. Jaikishan, I., Rajendrakumar, P., Ramesha, M.S., Viraktamath, B.C., Balachandran, S. M., Neeraja, C.N., Sujatha, K., Srinivasa Rao, K., Natarajkumar, P., Hari, Y., Sakthivel, K., Ramaprasad, A.S. and Sundaram, R. M. Prediction of heterosis for grain yield in rice using 'key' informative EST-SSR markers. *Plant Breeding* (doi:10.1111/j.1439-0523.2009.01633.x Published Online: May 4 2009) (IF - 8.0).
4. Naresh, V., Yamini, K. N., Rajendrakumar, P. and Dinesh Kumar, V. 2009. EST-SSR marker-based assay for the genetic purity assessment of safflower hybrids. *Euphytica* **170**: 347-353 (IF - 8.0).
5. Rajendrakumar, P., Biswal, A.K., Sakthivel, K., Madhav, M.S., Neeraja, C.N., Balachandran, S.M., Srinivasarao, K., Natarajkumar, P., Hari, Y., Sujatha, K. and Sundaram, R. M. 2009. Development and validation of class I SSR markers targeting (GATA)_n repeat motifs in rice. *Euphytica* **169**: 263-271 (IF - 8.0).
6. Satish, K. Srinivas, G. Madhusudhana, R., Padmaja, P.G., Nagaraja Reddy, R., Murali Mohan, S. and Seetharama, N. 2009. Identification of quantitative trait loci for resistance to shoot fly in sorghum (*Sorghum bicolor* (L.) Moench). *Theoretical and Applied Genetics* **119**: 1425-1439 (IF - 8.9).
7. Sujay Rakshit, Zerka Rashid, Sekhar, J.C., Fatma, T and Sain Dass. 2010. Callus induction and whole plant regeneration in elite Indian maize (*Zea mays* L.) inbreds. *Plant Cell Tissue and Organ Culture* **100**: 31-37 (IF - 8.0).

National

1. Balikai, R.A. and Bhagwat, V.R. 2009. Evaluation of integrated pest management components for the management of shoot fly, shoot bug and aphid in rabi sorghum. *Karnataka Journal of Agricultural Sciences* 22: 532-534 (IF - 1.0).
2. Blümmel, M., Rao, S.S., Palaniswami, S., Shah, L. and Reddy, B.V.S. 2009. Evaluation of sweet sorghum (*Sorghum bicolor* (L.) Moench) used for bio-ethanol production in the context of optimizing whole plant utilization. *Animal Nutrition and Feed Technology* 9: 1-10 (IF - 4.0).
3. Dayakar Rao, B., Shashidhar Reddy, Ch., Krishna Rao, E., Mishra, J.S. and Seetharama, N. 2009. Impact of CSH-16 on economics of sorghum cultivation in Ranga Reddy district of Andhra Pradesh. *Agricultural Situation in India* Accepted (IF:3.0).
4. Hariprasanna, K., Chuni Lal and Radhakrishnan, T. 2009. Potential groundnut (*Arachis hypogaea* L.) genotypes with large seed size for sustaining groundnut farming. *Indian Journal of Agricultural Sciences* 79(7): 549-551 (IF:7.2).
5. Kannababu, N., Das, I.K. and Seetharama, N. 2009. Effect of chemicals and bioagents on control of molds and improvement of seed quality of rainy season sorghum (*Sorghum bicolor*). *Indian Journal of Agricultural Sciences* 79 (6): 461-465 (IF:7.2).
6. Kumar, S.R. and Ramanjaneyulu, A.V. 2009. Entrepreneurship development in certified seed production activity - A case study with hybrid sorghum. *Indian Farming* May : 25-27.
7. Mishra, J.S. and Singh, V.P. 2009. Weed dynamics and productivity of soybean (*Glycine max*)-based cropping systems as influenced by tillage and weed management. *Indian Journal of Agronomy* 54 (1): 29-35 (IF:6.0).
8. Prabhakar, Elangovan, M. and Raut, M.S. 2010. Stability of new varieties for yield components in rabi sorghum (*Sorghum bicolor* L.). *Indian Journal of Agricultural Sciences* 80 (2):106-109 (IF:7.2).
9. Padmaja, P.G., Madhusudhana, R. and Seetharama, N. 2009. Epicuticular wax and morphological traits associated with resistance to shoot fly, *Atherigona soccata* Rondani in sorghum, *Sorghum bicolor*. *Entomon* 34 (3) Accepted (IF:3.0).
10. Pawar, K.N., Rao, S.S., Jahagirdar, S. and Biradar, B.D. 2009. Physiological basis for growth and yield variation in rabi sorghum genotypes under receding soil moisture situation. *Research on Crops* 10: 68-71.

11. Seetharama, N., Raghavendra Rao, K.V., and Rao, S.S. 2009. Sweet stalk sorghum: A future dryland bioenergy crop for biofuel production in India. *The Botanica* 57:1-4 (IF - 1.0).
12. Sekhar, J.C., Rakshit Sujay, Kumar Pradyumn, Anuradha, M., Mehrajuddin and Dass Sain. 2008. Relative susceptibility of maize single cross hybrids to pink borer (*Sesamia inferens* Walker). *Indian Journal of Plant Genetic Resources* 21 (2): In Press (IF - 4.0).

Review paper

1. Mishra, J.S. 2009. Biology and Management of *Cuscuta* species. *Indian Journal of Weed Science* 41 (1&2): 1-11 (IF - 2.0).

Conferences

Abstracts/Posters

1. Aruna, C., Bhagwat, V.R., Vittal Sharma, Hussain, T., Ghorade, R.B., Khandalkar, H.G., Audilakshmi, S. and Seetharama, N. 2009. Genotype x environment interactions for shoot fly resistance in sorghum (*Sorghum bicolor* (L.) Moench: response of recombinant inbred lines. In: National Seminar on "Designing Crops for the Changing Climate" organized by Indian Society of Genetics and Plant breeding at Ranchi during 30-31 October, 2009. PS-IV:43, pp:176.
2. Balikai, R.A. and Bhagwat, V.R. 2009. Evaluation of IPM components for the management of shoot fly, shoot bug and aphid in rabi sorghum. In: National symposium on "Biotechnological and biorational approaches for pest management in Agriculture & 33rd Annual Conference of Ethological Society of India", UAS, Dharwad, November 6-7, 2009, 105.
3. Chari Appaji 2009. Usefulness of Short message service (SMS) in adoption of sorghum production technology in Solapur district. In: National Seminar on "Enhancing efficiency of extension for sustainable agriculture and livestock production" held during 29-30 December, 2009 at Indian Veterinary Research Institute, Izatnagar.
4. Chandrabhanu and Mishra, J.S. 2009. Biological control of exotic weed *Lagascea mollis* in soybean-mustard cropping system by using a potential rust-bioagent.

In Suvenir & Abstract: 5th International Conference, Plant pathology in the Globalized Era, November, 10-13, 2009, New Delhi, pp. 319.

5. Das, I.K., Annapurna, A., Gadewar, A.V., and Seetharama, N. 2009. *Pseudomonas chlororaphis* SRB 127, a novel strain for bio-suppression of stalk rot in sorghum. 5th International conference on plant pathology, Nov 10-13, 2009, IARI, New Delhi 595 (S-15).
6. Dayakar, B. et al. 2009. Postharvest processing and value -addition of millets for effective marketing. In: Indian Society of Agricultural Marketing, Hyderabad.
7. Elangovan, M., Vilas A Tonapi and Seetharama, N. 2009. National active germplasm sites as India's regional genebanks. In: National symposium on Recent global developments in the management of plant genetic resources, December 17-18, NBPGR, New Delhi, India E8.
8. Elangovan, M., Vilas A Tonapi and Seetharama, N. 2009. Status of Indian sorghum genetic resources collection and distribution. In: National symposium on Recent global developments in the management of plant genetic resources, December 17-18, NBPGR, New Delhi, India A6.
9. Jain, S.K., Elangovan, M. and Patel, N.V. 2009. Correlation and path coefficient analysis for agronomical traits in forage sorghum (*Sorghum bicolor* (L.) Moench. In: National symposium on Recent global developments in the management of plant genetic resources, December 17-18, NBPGR, New Delhi, India C 92.
10. Nageswara Rao, T.G. Audilakshmi, S., Kamtar, M.Y. and Nehru, B. 2009. Improvement in grain mold resistance in advanced breeding lines of sorghum (*Sorghum bicolor* L). 5th International conference on plant pathology, Nov 10-13, 2009, IARI, New Delhi 256 (S-06).
11. Rao, S.S., Seetharama, N., Umakanth, A.V., Ratnavathi, C.V. and Dayakar Rao, B. 2009. Sweet sorghum: A promising energy crop for production of biofuel, food and high biomass. International Conference on food security and environmental sustainability, December, 17-19, Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur
12. Rao, S.S., Umakanth, A.V., Seetharama, N., Ratnavathi, C.V. and Dayakar Rao, B. 2009. Sweet sorghum an alternative biofeedstock for bioethanol and lignocellulosic biomass production in dryland agroecosystem. National seminar on Biological and alternative energies - present and future, 30-31 Aududt, 2009, Department of Biochemistry, Andhra University, Visakhapatnam - 530 003, Andhra Pradesh, 5.
13. Seetharama, N. and Raghavendra Rao, K.V. 2009. Concerns on climate change brings millet crops to the fore. AP Science Congress at Tirupati.

14. Shrinivas Mudigoudra, Shekharappa, Balikai, R.A. and Bhagwat, V.R. 2009. Evaluation of sorghum hybrids against shoot fly, *Atherigona soccata* Rondani. In: National symposium on " Biotechnological and biorational approaches for pest management in Agriculture & 33rd Annual Conference of Ethological Society of India", UAS, Dharwad, November 6-7, 2009, 95.
15. Umakanth, A.V., Rao. S.S., Venkatesh Bhat, B. and Seetharama, N. Promising sweet sorghum (*Sorghum bicolor* L. Moench) genotypes for bio-ethanol related traits. In: National seminar on "Biological and alternate energies present and future Organized by Department of Biochemistry, Andhra University, Visakhapatnam during August 30-31, 2009.
16. Vilas A Tonapi, Elangovan, M., Kulkarni, R.N., and Seetharama, N. 2009. IP protection, licensing and commercialization of germplasm for national food, livelihood and consumer security. In: National symposium on Recent global developments in the management of plant genetic resources, December 17-18, NBPGR, New Delhi, India B2.
17. Vilas A Tonapi, Elangovan, M., Kulkarni, R.N. and Seetharama, N. 2009. Sorghum: Genetic resources as potential tool to fight climate change. In: National symposium on Recent global developments in the management of plant genetic resources, December 17-18, NBPGR, New Delhi, India C 29.

Book

1. Ratnavathi, CV., Sailaja, V., Kiranmayi, E., and Gopala Krishna, D. 2009. *'Jonnatho Ruchi karamina Vantalu'* Directorate of Sorghum Research, Rajendranagar, Hyderabad-500 030, pp 50 ISBN No. 81-89335-26-X.

Book chapter

2. Das. I.K., Gadewar, A.V. 2010. *Macrophomina phaseolina*: An overview on molecular biology and host specialization. In: Molecular biology of plant pathogens (eds) Gangawane, L.V. and Khilare, V.C. Daya publishing house, Delhi. Pp:73-80.

Popular articles

1. Das, I.K. and Seetharama, N. 2009. New *Pseudomonas* strain for sorghum stalk-rot management. ICAR News, April - June, pp.3
2. Mishra, J.S. 2009. Biology and management of field dodder. *Indian Farming* 59 (5): 9-13.
3. Seetharma, N. and Talwar, H.S. 2009. Promoting alternate uses and value-additions to enhance income. *The Hindu Survey of Indian Agriculture* 50-52.
4. Shashidhar Reddy, Ch, Mukesh, P, Dayakar Rao, B, and Subbarayudu.B. 2009 "Kharif Jonna digubadiki patincha valasina melukuvalu" *Padipantalu (Telugu)*, August 2009.
5. Umakanth, A.V., Aruna, C., Padmaja, P.G., Rani, C.H. and Seetharama, N. 2009. *Rabi Jonna Saagu -Mukhya suchanalu. Padipantalu* 11: 32.

Technical articles

1. Ambekar, S.S., Kamatar, M.Y., Ganesamurthy, K., Ghorade, R.B., Usha Saxena, Pooranchand, Jadav, B.D., Das, I.K., Nageshwara Rao, T.G., Seetharama, N. and Audilakshmi, S. 2009. Breeding for grain mould resistance. *Jowar Samachar* 5(2):7-8.
2. Aruna, C., Bhagwat, V.R., Audilakshmi, S., Seetharama, N., Vittal Sharma, Hussain, T., Ghorade and Khandalkar, H.G. 2009. Promising sorghum genetic stocks for shoot fly resistance. *Jowar Samachar* 5(2): 10.
3. Audilakshmi, S., Aruna, C. and Seetharama, N. 2009. Superior B lines for rainy-season grain hybrids. *Jowar Samachar* 5(2):2.
4. Chari Appaji, Prabhakar, Raut, M.S., Gadewar, A.V., Limhore, A.R. and Bahadure, D.M. 2009. Sorghum production in India during rabi 2008-09. *Jowar Samachar* 5(2):4-5.
5. Elangovan, M., Raghavendra Rao, K.V., Vilas A Tonapi, Seetharama, N. and Nattu Bhai Patel. 2009. Production and marketing of sorghum land race by a "farmer breeder" in Gujarat. *Jowar Samachar* 5(2):11-12.
6. Mishra, J.S., Subbarayudu, B. and Chapke, R. R. 2009. Sorghum in rice-fallows: new opportunities for intensive sorghum production. *Jowar Samachar* 5(2): 1-2.
7. Ravi Kumar, V., Ravi Kumar, S., Anji Reddy, M., Kulkarni, B.S. 2009. Effect of rainfall and temperature on rabi sorghum production. *Jowar Samachar* 5(2):5-7
8. Rao, S.V. 2009. Adhirasam: A sweet dish from sorghum. *Jowar Samachar* 5(2):12.

9. Rohit Sidhar, Dayakar Rao, B., Nandita Mathew and Krishna Rao, E. 2009. Analysis of sorghum utilization in India. *Jowar Samachar* 5(2):9-10.

Technical bulletin

1. Dayakar Rao, B., Shashidhar Reddy, Ch, Nirmal Reddy, K., Naphade, S.A., Bhagwat, V.R. and Seetharama.N. 2009 " *Kharif jwariche sudharith lagavad tantagyan*", Technical bulletin(marathi), ITC, Hyderabad and Directorate of Sorghum Research (DSR), Hyderabad-500 030 2009-2010, January 2010, 16 pp

Press release

1. Mishra, J.S., Chapke, R.R. and Subbarayudu, B. 2009. Sorghum in rice-fallows: a new opportunity. Press release.

Pamphlets

1. Chari Appaji, Raghavendra Rao, K.V., Mahesh Kumar and Gawali, H.S. 2009. *CSV 17 kharif mausam hethu seeghra paripakv hone vali kism (in Hindi)*. Directorate of Sorghum Research, Rajendranagar, Hyderabad, AP 500 030.
2. Chari Appaji, Raghavendra Rao, K.V., Mahesh Kumar and Gawali, H.S. 2009. *CSV 20 kharif mausam hethu jwar ki nayi dwivudhesh kism (in Hindi)*. Directorate of Sorghum Research, Rajendranagar, Hyderabad, AP 500 030.
3. Chari Appaji, Raut, M.S., Prabhakar, Gadewar, A.V., Bahadure, D.M., Limhore, A.R. and Gawali, H.S. 2009. Varietal recommendations for rabi season in Maharashtra. Directorate of Sorghum Research, Rajendranagar, Hyderabad, AP 500 030.