

Srinivasa R. Pinnamaneni

Associate Professor, Agricultural Science Centre, Artesia, New Mexico State University

Email: sriniv@nmsu.edu

EDUCATION

- Ph. D.** (1998) Indian Agricultural Research Institute (IARI), New Delhi, India
Specialization: Genetics
Dissertation: “*Investigations on drought tolerance in maize, A genetic and biochemical appraisal*”
- M. S.** (1995) Acharya NG Ranga Agricultural University (ANGRAU), Hyderabad, India
Specialization: Genetics and Plant Breeding
Dissertation: “*Development of iso-cytoplasmic restorer lines in rice-a study in F3 populations*”
- B. S.** (1993) Acharya NG Ranga Agricultural University (ANGRAU), Hyderabad, India.
Specialization: Agriculture

PROFESSIONAL EXPERIENCE

- Associate Professor** July 2026- Agricultural Science Centre, New Mexico State University Artesia, NM
Responsibilities: *Deficit irrigation, alternative crops, ET, soil health and forages*
- Cropping Systems Specialist** December 2022 to 2026, Western Colorado research Center-Grand Valley, Colorado state University, Fruita, CO
Responsibilities: *Cropping systems, Forages-production and quality, cover cropping, water use efficiency, soil health, alternative crops and weed management*
- Research Agronomist** May 2018 to November 2022, Crop Production Systems Research Unit, USDA-ARS (ORISE), Stoneville, MS, USA
Responsibilities: *Cropping systems, cover cropping, water use efficiency in row crops including rice, corn, soybean and cotton, ecosystem fluxes through eddy covariance, soil amendments, forage quality, and weed management*
- Research Scientist** Sep 2017 to Apr 2018, Center for Viticulture and Small Fruit Research Florida A&M University, FL, USA
Responsibilities: *Viticulture, cropping systems*
- Research Scientist** Mar 2017 to August, Sugar Research Station, Louisiana State University, Baton Rouge, LA, USA
Responsibilities: *Sugarcane and energy cane breeding, cropping systems*
- Research Scientist** 2015 to Feb 2017, Department of Microbiology and Cell Science & Radiation Oncology, University of Florida, Gainesville, FL, USA
Responsibilities: *Bioenergy and forage sorghum agronomy & breeding and Virus induced gene silencing,*
- Senior Scientist (Sorghum Breeding)** 2008 to 2015, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India
Responsibilities: *Led bioenergy and forage sorghum program, sorghum genetic enhancement for agronomic traits, biotic and abiotic stresses, international collaboration*
- Postdoctoral Fellow** 2005-2008, Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India

Responsibilities:

Marker assisted breeding in rice, transcriptomics, gene expression analysis, cotton gDNA isolation method

Scientist (Plant Breeding)

1998 to 2005, Acharya NG Ranga Agricultural University (ANGRAU), Hyderabad, India

Responsibilities:

Breeding sugarcane, corn, sunflower and sesame

AWARDS AND RECOGNITIONS

- Fellow of Association of Biotechnology and Pharmacy, 2014
- Distinguished Researcher Award (2011) from Pampanga Agricultural University, Philippines
- Resource mobilizer award (2013) from the Director General, ICRISAT
- Department of Biotechnology- Postdoctoral fellowship (2005-2008)
- Council of Scientific and Industrial Research- Senior Research Fellowship (1995-1998)
- National Merit Scholarship (1987-1989)
- My PhD student was awarded- first time PI award (2013) from the Director General, ICRISAT

Professional service

- Member of Intensive Management of Irrigated Forages for Sustainable Livestock Production in the Western U.S (WERA1014 project)
- Leader- Western Cover Crops Council-Mountain range
- Member- Western Cover Crops Council
- Guest Editor for a special issue of Sugar Technology on sweet sorghum utilization
- Member, International Advisory Committee member (2013-2016) in Biofuelnet Canada
- Member of the expert committee on lignocellulosic biofuels, Ministry of New and Renewable Energy, Govt. of India (2011-15).
- Editorial Manager for the International Journal of Sugar Technology.
- Editorial board member in J of Rangeland Science (2010-2012)
- Member of American Forage and Grassland Council, American Society of Agronomy, Soil Science Society of America
- Moderated few sessions at Tri-societies meetings and served as Judge for oral competitions and poster sessions in multiple years
- Regularly review manuscripts in Pest Management Science, Nature Scientific reports, Agricultural Water Management, Plants, Agronomy J, Biotechnology J, Industrial Crops and Products, J of Cotton Science, Plant Disease, Phytoparasitica, Water

Extramural funding (Total: \$4,799,000 as PI: \$1,396,000 as Co-PI: \$3,403,000)

Professional Skills

A) Technical:

- ✓ **Agronomy:** Cropping systems, forages-production and quality, cover cropping, crop physiology, precision agriculture, water management, irrigation scheduling, eddy covariance, energy balance, soil amendments, soil health, soil fertility, livestock management, alternative tillage systems, alternative crops, weed management, weed biology, seed nutrition, cotton lint quality, biofuels, and value chains
- ✓ **Breeding:** germplasm evaluation and maintenance, experimental design, mendelian and molecular genetics, phenotyping, line development and maintenance, mapping population development and maintenance, resistance breeding, trait development trials and integration, data acquisition, field and greenhouse trial experimentation, trait adaptation trials, IP rights, IP strategy and documentation, patenting, lab and inventory management
- ✓ **Biotechnology:** DNA/RNA/protein extraction and quantitation, PCR, blotting techniques-southern, northern and western, electrophoresis, genomic libraries construction, gene cloning, gene

sequencing and analysis, RT-PCR, high throughput genotyping (SSR, SNP based), Kompetitive Allele Specific PCR, transformation, transgenics-recombinant DNA, tissue culture, transcriptomics, proteomics, gene silencing, QTL mapping, association analysis, marker assisted backcrossing (MABC) and selection, and genome editing

- ✓ **Seed Technology:** seed multiplication and maintenance, crop agronomy-planting, tagging, sampling, transplanting, pollinating, harvesting, shelling, and packaging, cultivar purity assessment, seed systems development, seed logistics and processing
- ✓ **Data Analysis:** MS Office, SAS, JMP, R-language, Pipe planner, GENSTAT, bioinformatics tools, statistical data mining, special data analysis, spreadsheet, database management

B) Soft:

- ✓ Open minded, project and data management, leadership and coordination, strategic thinking and analysis, excellent communication, capacity to work with cross-functional teams, develop broad networks, team building and collaboration, capable of building strong work relationships, critical observation and analysis, multi-tasking, problem solving, conflict resolution and adaptability to changing and challenging environments

Significant Contributions

Research:

- ❖ Identified alfalfa cultivars with high water use efficiency through alternate furrow irrigation
- ❖ Conducted partnership forage alfalfa trials with industry at WCRC-Fruita (SWS Seeds, Forage Genetics International and Zinma Seeds LLC)
- ❖ Demonstrated the benefits of alternate wetting and drying (AWD) in rice compared to continuous flooding in rice: AWD saves 31% water and reduce methane emissions by 53%
- ❖ Demonstrated benefits of altered planting patterns and skipped row irrigation in row crops
- ❖ Pioneered in establishing Eddy Covariance towers for CO₂ and H₂O flux measurements.
- ❖ Contributed significantly on the use of soil amendments, altering planting geometry for enhanced water use efficiency of row crops in Mississippi Delta
- ❖ Pioneered in genetic enhancement, especially in sorghum to understand the biochemical and molecular mechanisms underlying sugar accumulation, drought and salinity tolerance by deploying quantitative genetics and molecular breeding tools
- ❖ Developed high sugar or biomass yielding genetic resources (varieties/hybrids/populations; over 300) and hybrid parental lines (60) especially two gene and three gene dwarf male sterile lines (A1, A2, A3 and A4 backgrounds) and corresponding maintainers
- ❖ Developed eight forage sorghum lines with *in vitro* organic matter digestibility (IVOMD) of 58% which is comparable with that of commercial forage corn hybrids (IVOMD>60%).
- ❖ Developed sorghum clip inoculation screening method for aphids
- ❖ Established integrated pest and disease management program for sweet sorghum
- ❖ Strengthened the sustainability of sweet sorghum-ethanol and sorghum-forage value chains with appropriate technological solutions in Asia
- ❖ Established viable intercropping systems of sweet sorghum with red gram, sugarcane and banana for enhanced farm incomes
- ❖ Developed sustainable sweet sorghum ethanol value chain and forage sorghum value chain in India, Philippines and Kazakhstan
- ❖ Shared the developed materials to partners in India, Philippines, China, Mexico, Japan, Australia, USA, Italy, France, South Africa, Sudan, Mozambique
- ❖ A few varieties like ICSV 93046, SPV 422 were released in the Philippines while ICSV 700 and ICSV 93046 were released in Kazakhstan for forage and grain production.

- ❖ A high biomass forage drought tolerant sorghum hybrid RVICH28 was released specifically for the state of Madhya Pradesh, India in 2015
- ❖ These materials found place in the breeding programs of Advanta Seeds, Ceres Inc, Dow Agrochemicals, KWS SAAT SE, Syngenta and Monsanto.
- ❖ Introgressed *bmr* 6 and 12 alleles (through marker assisted backcrossing-MABC) in to locally adapted forage cultivars for use in livestock and biofuel industries
- ❖ MABC of staygreen (Stg1, Stg3, Stg4 and StgB) and shootfly QTL (QGl10) in to popular forage/sweet sorghum cultivars (ICSV 93046, ICSV 25280 and ICSV 25300)
- ❖ Identified genetic variability for biological nitrification inhibition potential in sorghum
- ❖ Identified differentially expressed genes for drought tolerance using RNA –seq analysis
- ❖ Developed a novel protein isolation method in sorghum for direct MS-MS peptide sequencing
- ❖ Played key role in the success of sorghum hybrid parents research consortium-ICRISAT
- ❖ Lead successfully several R4D projects besides playing key role as Co-PI in other projects
- ❖ Worked on sugar beet, corn and cassava for biofuel value chain development
- ❖ Identified genes and gene networks involved in Rice-*Xanthomonas* avirulence interaction through transcriptomics and RT-PCR approaches followed by field studies
- ❖ Developed a non-destructive and economical cotton genotyping method, routinely used by cotton companies
- ❖ Demonstrated biological nitrification inhibition potential in sorghum
- ❖ Established sugarcane nutrition protocols (N, P and K) including micronutrients
- ❖ Demonstrated the effect of plant associated mycorrhiza in sugarcane
- ❖ Contributed to the release of two sugarcane varieties (Godavari and Krishnaveni)
- ❖ Seed systems development in sorghum, corn, soybean, cotton, sunflower and sesame

Outreach/Extension:

- ❖ Established perennial grass+ alfalfa; alfalfa+ sainfoin+ cicer milk vetch; falcata+ sainfoin+ cicer milk vetch; grass+ falcata on-farm trials in growers fields of Western Colorado (Clifford Chiles-Rimrocker Ranch, Nucla; Mike Pearson-Fruita; Hines Farm-Delta) in 2024-2025.
- ❖ Installed six eddy covariance towers in producers' fields of Lower Mississippi Delta (LMD) in diverse crop ecosystems and published the research out comes in peer reviewed journals (Soybean-Tim Clements; Rice-Carter Murrell, David Arandt; Corn-Bubba Simmons, David Arandt, Mike Schimdt and Rob Baker and cotton- Brian Vanlandingham)
- ❖ Installed moisture sensors for irrigation scheduling in the producer fields of LMD.
- ❖ Installed Arable anemometers for determining the best time for scheduling herbicide /pesticide sprays in producer fields of LMD.
- ❖ Conducted hundreds of grower/farmer participatory trials in India, Philippines and Uzbekistan, Kazakhstan
- ❖ Trained thousands of farmers on sweet sorghum and energy sorghum cultivation in India, Philippines and Uzbekistan
- ❖ Supplied seeds of improved cultivars and other technologies to hundreds of farmers in different countries in Asia, Africa and South America
- ❖ Developed informal seed production system involving progressive farmers
- ❖ Developed a successful forage value chain in India by offering technological solutions to the farmers and stakeholders.

- ❖ Published and distributed crop production bulletins/handbooks/brochures/posters in English /local language on sweet sorghum, forage sorghum, biomass sorghum, sunflower, sugarcane, corn, sesame and rice
- ❖ Supplied improved materials of sorghum for graduate student studies
- ❖ Organized over 30 field days, 10 travel workshops and 200+ capacity building farmer interactions
- ❖ Organized 12 national trainings and 3 international training programs to staff of Universities /NGOs / Government staff on cropping systems/sorghum value chains/genetic enhancement.

Leadership/Management:

- ❖ Lead PI of USDA-NIFA project: Strategies for sustaining the productivity of alfalfa under water limited environments of the Intermountain West.
- ❖ Developed the ICRISAT Bioenergy Strategy, which was later approved by the Governing Board of ICRISAT
- ❖ Lead the feedstock development teams in Brazil, Mexico and South Africa in Sweetfuel project (<http://www.sweetfuel-project.eu/>) funded by European Commission (2009-2014)
- ❖ Served as Asia Coordinator in the biofuel project funded by International Fund for Agriculture and Development (IFAD) during 2008-2011.
- ❖ Formed the Indo-US biofuel research consortium involving 18 organizations from India and USA and lead the work package on feedstock development in Sustainable Advanced Lignocellulosic Biofuel Systems jointly funded by Department of Biotechnology, Government of India and US- Department of Energy (2012-2015) <http://biofuels.ifas.ufl.edu/>). Six organizations in India and two universities (University of Florida and University of Missouri) in USA were part of feedstock development program.
- ❖ As a lead partner, contributed to the capacity development programs for researchers in Philippines, Uzbekistan, Kazhakstan, Jordan, Vietnam, Egypt, South Africa, Mexico and India.
- ❖ Contributed to the institutional mandate by serving in committees for recruiting staff, staff evaluation, laboratory practices
- ❖ Represented ICRISAT in international forums and Indian national committees for promoting sustainable sweet sorghum ethanol value chain and forage sorghum value chain.

Teaching:

Student mentoring:

- ✓ Supervised ten Master's students for their thesis and two PhD scholars partly.
- ✓ Mentored 13 summer student interns (2018-2022) at USDA-ARS, CPSRU, Stoneville, MS.

Sno	Name	Degree	Graduation year	Title of the thesis
1	Anupama S	BS	2015	Differential proteomics study in drought tolerant lines of energy sorghum
2	Deepak GC	MS	2014	Line x tester analysis across environments for stalk sugar yield traits in B x R crosses of sweet sorghum
3	Richa Y	MS	2014	Molecular and Physiological differential mechanisms in drought tolerant and susceptible lines of sorghum
4	Sugandhi Y	MS	2014	Characterization of <i>sorghum nervosum</i> (nr 481) and its hybrids

5	Keerthi K V	MS	2014	Standardization of compositional analysis using fibretherm and assessing variability for cellulose, hemicellulose and lignin in different sorghums
6	Shankar K	MS	2013	Line x tester analysis of candidate sugar traits in sweet sorghum and high biomass sorghum
7	Prasanthi M	MS	2012	Agronomic and physiological characterization <i>Sorghum nervosum</i> (nr481) and its hybrids
8	Madhulika B	MS	2012	Assessment improved sweet sorghum cultivars for stalk yield, sugar and physiological traits under mid-season moisture stress.
9	Deepthi Rekha P	MS	2011	Wide hybridization in sorghum to exploit tertiary genepool species
10	Lavkusarao K	MS	2010	Evaluation of sweet sorghum parents and hybrids for mid-season drought tolerance

Formal teaching:

- ✓ Taught the course-Floral biology and seed maturation for MS students ANGRAU (2002-03) with 3 (2 Theory+1 lab) credits per week for 6 weeks, number of students/ class: 15
- ✓ Recognized faculty in Genetics, Osmania University, India since 2012

Informal teaching:

- ✓ Delivered invited/ guest lectures at many schools in Canada, China, Denmark, India, Mexico, Philippines, Uzbekistan, UK and USA.
- ✓ Organized several travel workshops/ international trainings/conferences/ brainstorming sessions in Asia
- ✓ Conducted several on-field/on-research station training programs for scientists, farmers and other stake holders on sweet sorghum and energy sorghum
- ✓ Organized hundreds of field days/ field visits for trainee scientists, farmers .

Publications

Peer reviewed research publications: 78

Books and book chapters: 7 and 13

Working series papers: 2

Google Scholar citations: 3294 (<https://scholar.google.com/citations?hl=en&user=auPcwb0AAAAJ>)

h index: 32; i10-index: 73; **Orcid ID:** orcid.org/0000-0001-7983-4662

I. Journal articles-published

1. **Pinnamaneni, S. R.**, Lima, I. M., & Beacorn, J. A. (2026). Photosynthetic Traits Underlying Yield Differences in Irrigated and Rainfed Soybean Systems in the Mississippi Delta. *Plant-Environment Interactions*, 7(4), e70178.
2. Anapalli, S. S., Mubvumba, P., Bhandari, A. B., **Pinnamaneni, S. R.**, Adireddy, R. G., Reddy, K. N., & Singh, G. (2026). Can soil amendments help stabilize rainfed soybean production variations?. *Agrosystems, Geosciences & Environment*, 9, e70329. <https://doi.org/10.1002/agg2.70329>
3. Anapalli, S. S., Partson, M., **Pinnamaneni, S. R.**, Reddy, K. N., & Corser, J. K. (2025). Comparing Soybean Productivity, Soil Health, and Economic Viability Under No-Tillage and Conventional Tillage in the Lower Mississippi Delta. *International Journal of Agronomy*, 2025(1), <https://doi.org/10.1155/ioa/8878397>

4. Mubvumba, P., Tyler, H. L., Anapalli, S. S., **Pinnamaneni, S. R.**, & Reddy, K. N. (2025). Furrow Irrigated Long-Term No-Till and Conventional-Till Soil Evaluation in the Mid South USA. *Air, Soil and Water Research*, 18, <https://doi.org/10.1177/11786221251320712>
5. Gopalakrishnan, S., Srinivas, V., Nares, N., **Pinnamaneni, S. R.**, & Govindaraj, M. (2024). Evaluation of sweet sorghum bagasse compost for its plant growth-promotion, yield and nutritional traits. *The Andhra Agricultural Journal*, 71(2), 224-232.
6. **Pinnamaneni, S. R.**, Lima, I. M., Boone, S. A., Beacorn, J. A., & Bellaloui, N. (2023). Effects of pelleted sugarcane biochar applications on growth, yield and economics of rainfed corn (*Zea mays* L.) in the Mississippi Delta. *Industrial Crops and Products*, 204, 117318. <https://doi.org/10.1016/j.indcrop.2023.117318>
7. Anapalli, S.S., **Pinnamaneni, S.R.** and Reddy, K.N. (2023) Impacts of alternate wetting and drying floodwater management on rice water use and methane emissions large-scale farm in a humid climate. *Heliyon J.* <https://doi.org/10.1016/j.heliyon.2023.e14696>
8. Anapalli, S.S., **Pinnamaneni, S.R.**, Chastain, D., Reddy, K.N. and Simmons, C.D., (2023) Eddy Covariance Quantification of Carbon and Water Dynamics in Twin-Row vs. Single-Row Planted Corn. *Agricultural Water Management*. <https://doi.org/10.1016/j.agwat.2023.108235>
9. **Pinnamaneni, S.R.**, Anapalli, S.S. and Reddy, K.N. (2022) Assessing water use efficiency and on-farm profitability of corn production in response to irrigations and planting patterns in humid climates. *Agronomy J* <https://doi.org/10.1002/agj2.21221>
10. Ravichandra, K., Balaji, R., Kezia D., Cheemalamarri, C., Poda, S., Banoth, L., **Pinnamaneni, S.R.**, Prakasham, R.S. (2022) Impact of structure and composition of different sorghum xylans as substrates on production of xylanase enzyme by *Aspergillus fumigatus* RSP-8. *Industrial Crops and Products* 188:115660. <https://doi.org/10.1016/j.indcrop.2022.115660>
11. **Pinnamaneni, S.R.**, Partson M., Anapalli, S.S and Reddy, K.N. (2022) Cereal rye cover crop impacts on soybean (*Glycine max* L.) root growth and soil properties. *Frontiers in Soil Science and Soil Management*. DOI: 10.3389/fsoil.2022.970380
12. **Pinnamaneni, S.R.**, Anapalli, S.S. Molin, W. and Reddy, K.N. (2022) Effect of rye cover crop on weed control, soybean yield and profitability. *Frontiers in Agronomy* <https://doi.org/10.3389/fagro.2022.907507>
13. **Pinnamaneni, S.R.**, Anapalli, S.S. and Reddy, K.N. (2022) Photosynthetic response of soybean and cotton to different irrigation regimes and planting geometries. *Frontiers in Plant Sciences*: DOI: 10.3389/fpls.2022.894706
14. Saseendran, S.S, **Pinnamaneni, S.R.**, Reddy K.N. and Singh G. (2022) Eddy covariance quantification of corn (*Zea mays* L.) water use and yield responses to irrigations on farm-scale fields. *Agronomy J* <https://doi.org/10.1002/agj2.21130>
15. **Pinnamaneni, S.R.**, Kumar G.S, Ramu P., Vanamala, J. and Rakesh K.S. (2022) Assessment of genotypic and phenotypic diversity in elite temperate and tropical sweet sorghum cultivars. *Sugar Tech*. <https://doi.org/10.1007/s12355-022-01117-3>
16. Saseendran, S.S, **Pinnamaneni, S.R.**, Reddy K.N, Sui R. and Singh G. (2022) Investigating soybean (*Glycine max* L.) responses to irrigation on a large-scale farm in the humid climate of the Mississippi Delta region. *Agricultural Water Management* <https://doi.org/10.1016/j.agwat.2021.107432>
17. Ravichandra, K., Balaji, R., Devarapalli, K., Batchu, U.R., Thadikamala, S., Banoth, L., **Pinnamaneni, S.R.** and Prakasham, R.S., (2022). Enzymatic production of prebiotic xylooligosaccharides from sorghum (*Sorghum bicolor* (L.) xylan: value addition to sorghum

- bagasse. Biomass Conversion and Biorefinery, pp.1-9. <https://doi.org/10.1007/s13399-021-02216-z>
18. Quintana-Ashwell, N.E., Anapalli, S.S., **Pinnamaneni, S.R.**; Kaur, G., Reddy, K.N.; Fisher, D.K. (2021) Profitability of twin-row planting and skip-row irrigation in a humid climate. *Agronomy Journal* 16 Pp. <https://doi.org/10.1002/agj2.20847>
 19. **Pinnamaneni, S.R.**, and Anapalli, S.S (2021) Assessing the effects of agronomic management practices on soybean (*Glycine max* L.) residue quality in the lower Mississippi Delta Plants **2021**, 10(7), 1337; <https://doi.org/10.3390/plants10071337>
 20. **Pinnamaneni, S.R.**, Anapalli, S.S., Fisher, D.K. and Reddy, K.N. (2021) Water use efficiencies of different maturity group soybean cultivars in the humid Mississippi Delta. *Water* 2021, 13, 1496. <https://doi.org/10.3390/w13111496>
 21. Anapalli, S.S., **Pinnamaneni, S.R.**, Fisher, D.K. and Reddy, K.N. (2021) Vulnerabilities of irrigated and rainfed corn to climate change in a humid climate in the Lower Mississippi Delta. *Climatic Change* 164, 5 (2021). <https://doi.org/10.1007/s10584-021-02999-0>
 22. **Pinnamaneni, S.R.**, Anapalli, S.S., Bellaloui, N. and Reddy, K.N., (2021). Effects of irrigation and planting geometry on soybean (*glycine max* l.) seed nutrition in humid climates. *International Journal of Agronomy*. <https://doi.org/10.1155/2021/6625919>
 23. **Pinnamaneni, S.R.**, Anapalli, S.S., Sui, R., Bellaloui, N. and Reddy, K.N. (2021). Effects of irrigation and planting geometry on cotton (*Gossypium hirsutum* L.) fiber quality and seed composition. *J Cotton Res* 4, 2 (2021). <https://doi.org/10.1186/s42397-020-00078-w>
 24. Gaffoor, I., Sandoya, G.V., Xavier, K.V., Nuckles, E.M., **Pinnamaneni, S.R.**, Vaillancourt, L.J. and Chopra, S. (2021) Performance of novel sorghum germplasm in Pennsylvania and their response to anthracnose. *Crop Science*. <https://doi.org/10.1002/csc2.20486>
 25. Anapalli, S.S., Fisher, D.K., **Pinnamaneni, S.R.** and Reddy, K.N., (2020). Quantifying evapotranspiration and crop coefficients for cotton (*Gossypium hirsutum* L.) using an eddy covariance approach. *Agricultural Water Management*, 233, p.106091. <https://doi.org/10.1016/j.agwat.2020.106091>
 26. Gopalakrishnan, S., Srinivas, V., Kumar, A.A., Umakanth, A.V., Addepally, U. and **Pinnamaneni, S.R** (2020). Composting of Sweet Sorghum Bagasse and its Impact on Plant Growth Promotion. *Sugar Tech*, 22(1), pp.143-156 <https://doi.org/10.1007/s12355-019-00747-4>
 27. **Pinnamaneni, S.R.**, Anapalli, S.S., Reddy, K.N., Fisher, D.K. and Quintana-Ashwell, N.E., (2020). Assessing irrigation water use efficiency and economy of twin-row soybean in the Mississippi Delta. *Agronomy Journal*, 112(5), pp.4219-4231.
 28. **Pinnamaneni, S. R.**, Anapalli, S.S., Fisher, D.K. and Reddy, K.N., (2020). Irrigation and planting geometry effects on cotton (*Gossypium hirsutum* L.) yield and water use. *J Cotton Sci*, 24, pp.87-96.
 29. Anapalli, S.S., Fisher, D.K., Reddy, K.N., Krutz, J.L., **Pinnamaneni, S.R.** and Sui, R., (2019). Quantifying water and CO₂ fluxes and water use efficiencies across irrigated C₃ and C₄ crops in a humid climate. *Science of The Total Environment*, 663, pp.338-350.
 30. Anapalli, S.S., Fisher, D.K., Reddy, K.N., Rajan, N. and **Pinnamaneni, S.R.**, (2019). Modeling evapotranspiration for irrigation water management in a humid climate. *Agricultural Water Management*, 225, p.105731.

31. Fisher, D.K., Woodruff, L.K., Anapalli, S.S. and **Pinnamaneni, S.R.**, (2018). Open-source wireless cloud-connected agricultural sensor network. *Journal of Sensor and Actuator Networks*, 7(4), p.47.
32. Vanamala, J., Massey, A. R., **Pinnamaneni, S.R.**, Reddivari, L., and Kenneth, R. (2018) Grain and sweet sorghum (*Sorghum bicolor* L. Moench) serves as a novel source of bioactive compounds for human health. *Critical reviews in food science and nutrition* 58 (17): 2867-2881
33. Sharan, A.A., Nikam, A.N., Jaleel, A., Tamhane, V.A. and **Rao, S.P.**, (2018) Method for Label-Free Quantitative Proteomics for *Sorghum bicolor* L. Moench. *Tropical Plant Biology*, 11(1), pp.78-91.
34. Kumar, G.A., Vinutha, K.S., Shrivastava, D.K., Jain, S., Syed, B.A., Gami, B., Marimuthu, S., Yuvraj, A., Yadava, H.S., Srivastava, S.C. Yadagiri, K. and **Pinnamaneni, S.R.**, (2018). Identification of ideal locations and stable high biomass sorghum genotypes in semiarid tropics. *Sugar Tech*, 20(3), pp.323-335.
35. Vinutha, K.S., Lokesh, H., Kumar, G.A., Vadlani, P.V. and **Pinnamaneni, S.R.**, (2018). Performance of bmr 6 and 12 Sorghum Mutants in Different Wild Backgrounds Under Salinity. *Sugar Tech*, 20(3), pp.293-304.
36. Deshavath, N.N., Mahanta, S., Goud, V.V. Dasu, V.V., and **Pinnamaneni, S.R.** (2018). Chemical composition analysis of various genetically modified sorghum traits: Pretreatment process optimization and bioethanol production from hemicellulosic hydrolyzates without detoxification. *Journal of environmental chemical engineering*, 6(4), pp.5625-5634.
37. Guragain Y.N., Prasad, P.V., **Srinivasa Rao P** and Praveen V (2017) Evaluation of brown midrib sorghum mutants as a potential biomass feedstock for 2,3-butanediol biosynthesis. *Applied Biochemistry and Biotechnology* DOI: [10.1007/s12010-017-2486-4](https://doi.org/10.1007/s12010-017-2486-4)
38. Narendra N.D., Mood M., Dasua V.V., Goud, V.V., **Srinivasa Rao P** and Benarjee T (2017) Dilute acid pretreatment of sorghum biomass to maximize the hemicellulose hydrolysis with minimized levels of fermentative inhibitors for bioethanol production. *3 Biotech* 7(2):139. doi: [10.1007/s13205-017-0752-3](https://doi.org/10.1007/s13205-017-0752-3).
39. Vinutha K., Anil Kumar G.S., Blummel M. and **Srinivasa Rao P** (2017) Cultivar evaluation for fodder quality in main and ratoon crops of different classes of sorghum. *Tropical Forages* 5: 40-49
40. Chiranjeevi, T., **Srinivasa Rao P.**, Prakasham R. S. and Uma A. (2016). Synthesis of lignin-based nanomaterials/nanocomposites: recent trends and future perspectives. *Industrial Biotechnology*, 12(3): 153-160.
41. Jain S, Shrivastava D.K., Srivastava S.C., Singh J., Mirdha I.S., Tomar R.P.S., Yadava H.S. and **Srinivasa Rao P** (2016) Study of genetic diversity in high biomass sorghum in marginal lands as lignocellulosic feed stock for bioethanol production. *International Journal of Agriculture Sciences* 8:3119-3121
42. Kumar, S., **Srinivasa Rao P.**, Reddy, B.V.S., Ravindrababu, V. and K.H.P Reddy. Heterosis and inbreeding depression in tropical sweet sorghum (*Sorghum bicolor* (L.) Moench). (2016) *Crop Research* 51(1):1-4
43. Ravichandra, K., Yaswanth V. V. N., Nikhila B., Jamal Ahmad, **Srinivasa Rao P.**, Uma A, Ravindrababu, V. and R. S. Prakasham (2016) Xylanase production by isolated fungal strain, *Aspergillus fumigatus* RSP-8 (MTCC 12039): Impact of agro-industrial material as substrate. *Sugar Tech*, 18 (1):29-38.

44. Kumar, C. G., **Srinivasa Rao, P.**, Gupta, S., Malapaka, J., and A. Kamal (2015) Chemical preservatives-based storage studies and ethanol production from juice of sweet sorghum cultivar, ICSV 93046. Sugar Tech, 17 (4):404-411.
45. Rauan Z., Kulyash I., Kristina T., Irina P., Abdullah A. D., Shoaib I., **Srinivasa Rao P.**, and Muratbek K. (2015) Sweet sorghum genotypes testing in the high latitude rainfed steppes of the northern Kazakhstan (for Feed and Biofuel) J. of Env. Sci. and Engineering B4: 25-30
46. Qazi, H. A., **Srinivasa Rao, P.**, Kashikar, A., Suprasanna, P., and S. Bhargava (2014). Alterations in stem sugar content and metabolism in sorghum genotypes subjected to drought stress. Functional Plant Biology <http://dx.doi.org/10.1071/FP13299>
47. Chiranjeevi, T., Uma, A., Radhika, K., Baby Rani, G., Prakasham, R. S., **Srinivasa Rao, P.**, and A. V. Umakanth (2014). Enzymatic hydrolysis of market vegetable waste and subsequent ethanol fermentation-kinetic evaluation. Journal of Biochemical Technology, 5(4): 775-781
48. Vinutha, K. S., Rayaprolu, L., Yadagiri, K., Umakanth, A. V., Patil, J. V., and **P. Srinivasa Rao** (2014). Sweet sorghum research and development in India: status and prospects. Sugar Tech, 16(2), 133-143.
49. Tesfamariam, Tschaye, Yoshinaga H., Deshpande S. P., **Srinivasa Rao P.**, Sahrawat K. L., Ando Y., Nakahara K., Hash C. T., and G. V. Subbarao (2014). Biological nitrification inhibition in sorghum: the role of sorgoleone production. Plant and Soil 379: 325-335.
50. Prakasham, R. S., Nagaiah, D., Vinutha, K. S., Uma, A., Chiranjeevi, T., Umakanth, A. V., **Srinivasa Rao, P** and N. Yan (2014). Sorghum biomass: a novel renewable carbon source for industrial bioproducts. Biofuels, 5(2): 159-174.
51. **Srinivasa Rao, P.**, Sateesh Kumar, P and R.V. Sonti (2013). Excised radicle tips as a source of genomic DNA for PCR-based genotyping and melting curve analysis in cotton. Journal of Biosciences, 38: 167-172.
52. Munirathnam, P., Ashok Kumar, K. and **P. Srinivasa Rao** (2013). Performance of sweet sorghum varieties and hybrids during post rainy season (maghi) in vertisols of scarce rainfall zone in Andhra Pradesh. Sugar Tech 15 (3): 271-277
53. Nagaiah, D., Prakasham, R.S., A.V. Umakanth., Uma, A. and **Srinivasa Rao, P.**, (2013). Sweet sorghum juice as an alternate substrate for fermentative hydrogen production: Evaluation of influencing parameters using DoE statistical approach. Sugar Tech 15: 338-344
54. Kumar, C.G., **Srinivasa Rao, P.**, Gupta, M., Jayalakshmi, M., and A. Kamal (2013). Enhancing the shelf life of sweet sorghum [*Sorghum bicolor* (L.) Moench] juice through pasteurization while sustaining fermentation efficiency Sugar Tech 15: 328-337
55. Rao, S. S., Patil, J. V., Chandrasekara Reddy, D., Vijay Kumar, B. S., **Srinivasa Rao, P.** and S. R. Gadakh (2013). Effect of different crushing treatments on sweet sorghum juice extraction and sugar quality traits in different seasons. Sugar Tech 15: 311-315
56. **Srinivasa Rao P.**, C. Ganesh Kumar, Jayalakshmi, M., Kamal, A., and B. V. S. Reddy (2012). Effect of micronutrient treatments in main and ratoon crops of sweet sorghum cultivar ICSV 93046 under tropical conditions Sugar Tech 14(4):370-375
57. **Srinivasa Rao, P.**, Kumar, CG and Malapaka, J and Kamal, A and B.V.S., Reddy (2012). Feasibility of sustaining sugars in sweet sorghum stalks during post-harvest stage by exploring cultivars and chemicals: A desk study. Sugar Tech. 14 (1): 21-25

58. **Srinivasa Rao, P.**, Deshpande, S., Blummel, M., Reddy, B.V.S., and C.T. Hash. (2012) Characterization of brown midrib mutants of sorghum (*Sorghum bicolor* (L) Moench). European Journal of Plant Science and Biotechnology 6:71-75
59. **Srinivasa Rao, P.**, Blümmel, M. and B.V.S. Reddy. (2012). Enhancement of *in vitro* organic matter digestibility of sorghum (*Sorghum bicolor* (L) Moench) through introgression of brown mid rib (*bmr*) alleles. European Journal of Plant Science and Biotechnology 6:76-80
60. Prakasham, R.S., Brahmaiah. P., Nagaiah, D., **Srinivasa Rao, P.**, Reddy, B.V.S., Sreenivas Rao, R. and P.J. Hobbs (2012). Impact of low lignin containing *Brown mid rib* sorghum mutants to harness biohydrogen production using mixed anaerobic consortia. International J of Hydrogen Energy 37: 3186-3190.
61. Nagaiah, D., **Srinivasa Rao, P.**, Prakasham, R.S., Uma, A., Radhika, K., Barve, Y and A.V. Umakanth (2012). High biomass sorghum a potential raw material for biohydrogen production: A preliminary evaluation. Current trends in Biotechnology and Pharmacy 6:183-189.
62. Reddy, B.V.S., Reddy, P., Sadananda, A.R., Dinakaran, E., Kumar., A.A., Deshpande, S.P., **Srinivasa Rao, P.**, Sharma, H.C., Sharma, R., Krishnamurthy, L. and J.V. Patil (2012). Poststrainy season sorghum: Constraints and breeding approaches. Journal of SAT Agricultural Research 10.
63. Mazumdar, S.D., Poshadri, A., **Srinivasa Rao, P.**, Ravinder Reddy, Ch. and B.V.S. Reddy (2012). Innovative use of sweet sorghum juice in the beverage industry. International Food Research Journal 19(4): 1361-1366.
64. Basavaraj, G., Rao, P. P., Reddy, C. R., Kumar, A. A., **Srinivasa Rao, P.**, and B.V.S. Reddy (2012). A Review of national biofuel policy in India: A critique-need for promotion of alternative feedstocks. Journal of Biofuels, 3(2), 65-78.
65. Subbarao, G.V., Sahrawat, K.L., Nakahara, K., Ishikawa, T., Kishii, M., Rao, I.M., Hash, C.T., George, T.S., **Srinivasa Rao, P.**, Nardi, P., Bonnett, D., Berry, W., Suenaga, K, and J.C. Lata, (2012). Biological Nitrification Inhibition—A Novel Strategy to Regulate Nitrification in Agricultural Systems. Advances in Agronomy 114 (DOI: 10.1016/B978-0-12-394275-3.00001-8)
66. **Srinivasa Rao, P.**, Sanjana Reddy, P., Rathore, A and B.V.S. Reddy (2011). Application of GGE biplot analysis to evaluate sweet sorghum hybrids for stability and seasonal adaptation. Indian Journal of Agricultural Sciences 81: 438–444.
67. **Srinivasa Rao, P.**, Prasad, J.V.N.S., Umakanth, A.V. and B.V.S. Reddy (2011). Sweet sorghum (*Sorghum bicolor* (L.) Moench) - A new generation water use efficient bioenergy crop. Indian J of Dryland Agriculture 26: 65-71
68. Sudir Kumar, I., Reddy, K.H.P., **Srinivasa Rao, P.**, Reddy S.P. and B.V.S., 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. J of Rangeland Science 1 (2): 133-142
69. Kumar, C.G., Fatima, A., **Srinivasa Rao, P.**, Reddy, B.V.S., Rathore, A., Nageswar Rao, R., Khalid, S., Kumar, A.A. and A. Kamal (2010). Characterization of improved sweet sorghum genotypes for biochemical parameters, sugar yield and its attributes at different phenological stages. Sugar Tech. 12: 322–328.
70. Sanjana Reddy, P., Reddy, B.V.S. and **P. Srinivasa Rao** (2010). Genetic analysis of traits contributing to stalk sugar yield in sorghum. Cereal Research Communications 39(3): 453–464.
71. Thakur, R.P., Sharma, R., **Srinivasa Rao, P.**, Reddy P.S., Rao, V.P. and B.V.S. Reddy (2010). Evaluation of sweet sorghum hybrid parents for resistance to grain mold, anthracnose, leaf blight and downy mildew. SAT e- journal (8)

72. Kumar, A.A., Reddy, B.V.S., Blümmel, M., Anandan, S., Reddy, Y.R., Ravinder Reddy, Ch., **Srinivasa Rao, P.** and P.S. Reddy (2010). On-farm evaluation of elite sweet sorghum genotypes for grain and stover yields and fodder quality. *Animal Nutrition and Feed Technology*. Special issue. Pp 56-66.
73. Kumar, A.A., Reddy, B.V.S., Ravinder Reddy, Ch., Blümmel, M., **Srinivasa Rao, P.**, Ramaiah, B., and P.S. Reddy (2010). Enhancing the harvest window for supply chain management of sweet sorghum for ethanol. *SAT e-journal* (8)
74. Subbarao, G.V., Hossain, A.K.M.Z., Nakahara, K., Ishikawa, T., Yanbuaban, M., Yoshihashi, T., Ono, H., Yoshida, M., Hash, C.T., Upadhyaya, H., **Srinivasa Rao, P.**, Reddy, B.V.S., Sahrawat, K.L. and O. Ito (2009). Biological nitrification inhibition (BNI) potential in sorghum. UC Davis: The Proceedings of the International Plant Nutrition Colloquium XVI, 26–30 August 2009, University of California Sacramento, California, USA. <http://escholarship.org/uc/item/5tp8s9pj>
75. Sundaram, R.M., Vishnupriya, M.R., Laha, G.S., Shobha Rani, N., **Srinivasa Rao, P.**, Balachandran, S.M., Ashok Reddy, G., Sarma, N.P. and R.V. Sonti. (2009). Introduction of bacterial blight resistance into Triguna, a high yielding, mid-early duration rice variety. *Biotechnology Journal* 4:400–407.
76. **Srinivasa Rao, P.**, and R.D. Singh (2004). Studies on combining ability for drought tolerance in maize (*Zea mays* L.) using polyethylene glycol (PEG) as an osmoticum. *Annals of Agri Bio Research*, 9 (2): 135-139.
77. **Srinivasa Rao, P.**, and R.D. Singh (2004). Combining ability studies for drought tolerance related traits in maize (*Zea mays* L.). *Progressive Agriculture*, 4 (2): 121-124.
78. **Srinivasa Rao, P.**, Varade, P. B., and R.D. Singh (2004). Absciscic acid responses in corn inbred lines under progressive water stress. *Annals of Agri Bio Research* 9 (2): 141-143.

II. Books

1. Gopalakrishnan, S., Eggleston, G., Sanchez., G. and Pinnamaneni S.R. (2018) Novel pathways of sweet sorghum utilization and bio-products development. <https://link.springer.com/article/10.1007%2Fs12355-018-0616-0>
2. Khawaja, C., Janssen, R., Rutz, D., Luquet, D., Trouche, G., Reddy, B.V.S., **Srinivasa Rao, P.** .. and S. Braconnier (2014) Energy sorghum-an alternative energy crop-a handbook. 2014 by WIP-Renewable Energies Sylvensteinstr. 2, 81369 Munich, Germany. ISBN: 978-3-936338-31-7.
3. **Srinivasa Rao, P.** and Kumar, C.G. (Eds) (2013). Characterization of tropical sweet sorghum cultivars. Springer brief (132 Pp,)
4. **Srinivasa Rao, P.**, Prakasham, R.S, and Deshpande, S., (Eds) (2010) Brown midrib sorghum- current status and potential as novel ligno-cellulosic feedstock of bioenergy. Lap Lambert academic publishing Gmbh and Co KG, Germany Pp: 112
5. Reddy, B.V.S., Layaoen, H., Dar, W., **Srinivasa Rao, P.** and J. Eusebio (2011). Sweet sorghum in the Philippines: Status and Future. International Crops Research Institute for the Semi-Arid Tropics, Patancheru 502324, Andhra Pradesh, India. 116 Pp.
6. **Srinivasa Rao, P.**, Rao, S.S., Seetharama, N., Umakanth, A.V., Sanjana Reddy, P., Reddy, B.V.S. and C.L.L. Gowda (2009). Sweet sorghum for biofuel and strategies for its improvement. Information Bulletin No. 77, International Crops Research Institute for the Semi-Arid Tropics, Patancheru 502324, Andhra Pradesh, India. 80 Pp. ISBN 978-92-9066-518-2.

7. Ravinder Reddy, Ch., Basavaraj, G., Reddy, B.V.S., Ambekar, S.S., Kumar, A.A., Parthasarathy Rao, P., Blummel, B., Reddy, Y.R., Srinivas, I., Rao, S.S. Umakanth, A.V., Kumar, C.G., **Srinivasa Rao, P.**, Mazumdar, S.D. and S.M.K. Chetty (2012). Sweet Sorghum Stalk supply Chain Management: Decentralized Crushing cum Syrup Making unit. Bulletin No. 90. International Crops Research Institute for Semi -Arid Tropics Patancheru, 502 324, Andhra Pradesh, India. 52Pp.

III. Book chapters

1. **Srinivas Rao, P.**, Vinutha, K. S., Kumar, G. S., Chiranjeevi, T., Uma, A., Lal, P., .. and S. Jose (2016). Sorghum: A Multipurpose Bioenergy Crop. *In Sorghum: State of the Art and Future Perspectives*, (agronmonographs:58) I. Ciampitti and V. Prasad (ed.) ISBN: 978-0- 89118-628-1
2. Sathya, A., Kanaganahalli, V., **Srinivas Rao, P.**, and S. Gopalakrishnan (2016) Cultivation of sweet sorghum on heavy metal contaminated soils by phytoremediation approach for production of bioethanol. 271-292 *In Bioremediation and Bioeconomy*. M.N.V. Prasad (ed.) ISBN: 978-0-12-802830-8, Elsevier Inc.
3. **Srinivasa Rao, P.**, Prakasham, R. S., Rao, P.P., Chopra, S. and S. Jose (2015). Sorghum as a sustainable feedstock for biofuels. *In Biomass and Biofuels Advanced Biorefineries for Sustainable Production and Distribution*. Shibu Jose and Bhaskar (ed) ISBN: 978-1-4665-9531-6 CRC Press
4. **Srinivasa Rao, P.**, Kumar, C. G., Prakasham, R. S., Rao, A. U. and B.V.S. Reddy (2015). Sweet sorghum: breeding for bioenergy and bio products. *In Industrial Crops*. 1-28. Von Mark V. Cruz, David A. Dierig (ed.) ISBN 978-1-4939-1446-3. Springer New York.
5. Basavaraj, G., Rao, P P., Ravinder Reddy, C., Kumar, A A., Mazumdar, S D., Reddy, Y R., **Srinivasa Rao, P.**, Chetty, S.M.K., and B.V.S. Reddy (2014) Sweet sorghum: a smart crop to meet the demands for food, fodder, fuel and feed. *In Innovative Institutions, Public Policies and Private Strategies for Agro-Enterprise Development*. Ralph D Christy, Carlos A da Silva, Nomathemba Mhlanga, Edward Mabaya, Krisztina Tihanyi (ed.) pp. 169-188. ISBN 978-981-4596-60-2. FAOUN/World Scientific Publishing Co., Pte. Ltd., Rome, Italy,
6. **Srinivasa Rao, P.**, Reddy, B.V.S., Nagaraj, N., and H.D. Upadhyaya (2014). Sorghum Production for Diversified Uses. *In Genetics, Genomics and Breeding of Sorghum*, 1-27. Yi-Hong Wang, Hari D. Upadhyaya, Chittaranjan Kole (ed.) ISBN 978-1-4822-1008-8. CRC Press, Taylor and Francis group.
7. **Srinivasa Rao, P.**, Zegada-Lizarazu, W., Bellmer, D., and A. Monti (2014). Prospect of Sorghum as a Biofuel Feedstock. *In Genetics, Genomics and Breeding of Sorghum* 303-330. Yi-Hong Wang, Hari D. Upadhyaya, Chittaranjan Kole (ed.) ISBN 978-1-4822-1008-8. CRC Press, Taylor and Francis group.
8. **Srinivasa Rao, P.**, Reddy, B.V.S., Umakanth, A.V., Kumar, A.A., Ravinder Reddy, Ch. and J.V. Patil. (2013) Sweet sorghum: genetics, breeding and commercialization 172-198. *In Biofuel crops: production, physiology and genetics* B. P. Singh (ed) CABI.
9. **Srinivasa Rao, P.**, Ravinder Reddy, Ch., Kumar, A.A., Blümmel, M., Rao, P.P., Basavraj, G. and B.V.S. Reddy (2012) Opportunities and challenges in utilizing by-products of sweet sorghum-based biofuel industry as livestock feed in decentralized systems. 229-242. *In Opportunities and Challenges in Utilizing By-products/Co-products of the Biofuel Industry as Livestock Feed*. Harinder Makkar (ed.) FAO publication Rome, Italy.

10. Kumar, A.A., Reddy, B.V.S., Reddy, P.S., Ramesh, P.S., **Srinivasa Rao, P.** and Ch. Ravinder Reddy (2012). Sorghum (*sorghum bicolor*) in “Breeding, Biotechnology and Seed Production of Field Crops”, Edited by Bidhan Roy, Asit Kumar Basu and Asit Baran Mandal published by New India Publishing Agency, New Delhi.
11. **Srinivasa Rao, P.**, Prakasham, R.S., Umakanth, A.V., Deshpande, S., Ravikumar, S. and B.V.S. Reddy (2010) Introduction. 1-7 *In*: Brown midrib sorghum- current status and potential as novel ligno-cellulosic feedstock of bioenergy. Srinivasa Rao P, Prakasham RS and Deshpande S (ed). Lap Lambert academic publishing Gmbh and Co KG, Germany
12. **Srinivasa Rao, P.**, Deshpande, S., Prakasham R.S. and B.V.S. Reddy (2010) Composition and characterization of *bmr* sorghums. 9-36. Lap Lambert academic publishing Gmbh and Co KG, Germany
13. Deshpande, S., **Srinivasa Rao, P.**, Hash, C.T. and B.V.S. Reddy (2010). Genomics and bioengineering of lignin biosynthetic pathway genes 37-58. Lap Lambert academic publishing Gmbh and Co KG, Germany
14. Umakanth, A.V., **Srinivasa Rao, P.**, Prakasham, R.S. and V.S. Reddy (2010). Brown midrib sorghums use in dairy industry 59-73. Lap Lambert academic publishing Gmbh and Co KG, Germany
15. Prakasham, R.S., **Srinivasa Rao, P.**, Kumar, S.Y., Sreenivas Rao, R., Deshpande, S., Hobbs, P., Umakanth, A.V. and V.S. Reddy (2010). Introduction to *bmr*s 74-95. Lap Lambert academic publishing Gmbh and Co KG, Germany
16. **Srinivasa Rao, P.**, Ravikumar, S., Prakasham, R.S., Deshpande, S. and V.S. Reddy (2010). *Bmr* – from efficient fodder trait to novel substrate for futuristic biofuel: Way forward 99-112. Lap Lambert academic publishing Gmbh and Co KG, Germany

III. Working series papers

1. Basavaraj, G., Rao P.P., Basu, K., Ravinder Reddy, Ch., Kumar, A.A., **Srinivasa Rao, P.** and B.V.S. Reddy (2012). Assessing viability of bio-ethanol production from sweet sorghum. working paper Series no. 30. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 20 Pp.
2. Basavaraj, G., Rao P.P., Basu, K., Ravinder Reddy, Ch., Kumar, A.A., **Srinivasa Rao, P.** and B.V.S. Reddy (2012). A review of the national biofuel policy in India: A critique of the need to promote alternative feedstocks. working paper series no. 34. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 20 Pp.

IV. Extension bulletins, Flyers, and digital products

- 1 Published 25 extension bulletins, flyers, on developed technologies on forage sorghum, biomass sorghum and sweet sorghum.
- 2 Developed several DVD's on sweet sorghum value chain and distributed to stakeholders
- 3 Developed / contributed to 5 project websites (Ex: Sweetfuel: <http://www.sweetfuel-project.eu/>; Indo-US JCERDC project: <https://biofuels.ifas.ufl.edu/index.shtml>) with regular updates on the project progress to help stakeholders
- 4 Participated in several panel discussions and one to one interviews with growers and extension agents in television/radio/field days

Voluntary and Invited Presentations (selected):

- Breeding sorghum for biofuels and bioproducts. February 12, 2016. FCRC, University of Florida, Gainesville, FL, USA
- Sorghum as first and second generation biofuels feedstock – ICRISAT. July 30, 2015 Kansas State University, Manhattan, KS, USA
- Sweet sorghum commercialization in sugarmills- a demonstration. 22 European Biomass Conference and Exhibition, June 23-26 2014, Hamburg, Germany
- Development of drought tolerant sweet sorghum. 21 European Biomass Conference and Exhibition, June 3-7, 2013, Copenhagen, Denmark
- Challenges of breeding sorghum for lingo-cellulosic biofuels production. January 30, 2014 University of Missouri, Columbia, MO, USA
- Improvement of sweet sorghum for drought tolerance. Sweet Sorghum Ethanol Association Annual Conference. January 23-24, 2014 Orlando, USA
- Challenges of breeding sorghum for biotic and abiotic stresses. July 24, 2013 Texas A&M University, College station, TX, USA
- Advances in sweet sorghum cultivar development. July 18, 2013 Penn State University, PA, USA
- Commercialization of sweet sorghum in India. Sweet Sorghum Ethanol Association Annual Conference, January 24-25, 2013 Orlando, USA
- Commercialization of sweet sorghum cultivation in Asia. IV International congress on phyto-genetics. September 24-28, 2012 UANL, Monterey, Mexico
- Current status and challenges of sorghum based biorefineries. Dupont Knowledge Center, 22 June 2012, Hyderabad, India
- Dynamics of sugar yield in relation to different phenological stages of sweet sorghum. Bioenergy and biorefinery conference-Southeast Asia. March 23-25, 2011 Singapore
- Role of ICRISAT in SWEETFUEL project and the results achieved so far. EU-India S&T cooperation days November 4-6, 2009 New Delhi, India
- A simple gel free technique of genotyping hybrids. Second international rice congress. October 9-13, 2006 New Delhi, India