



Seventh framework programme  
Food, Agriculture and Fisheries, and Biotechnology

Specific International Co-operation Actions  
Small or medium scale focused research project



# Sweet Sorghum an alternative energy Crop

Grant Agreement n° 227422

## WP 7

### Deliverable 7.4:

*Articles published in press and  
international scientific journals  
(articles, communications, posters,  
press releases, etc...)*

Composition of the consortium

**CIRAD**  
ICRISAT  
EMBRAPA  
KWS  
IFEU  
UniBO  
UCSC  
ARC-GCI  
UANL  
WIP



### Table 1: Peer-reviewed publications

Walter Zegada-Lizarazu, Andrea Monti. An integrated approach to harvest and storage sweet sorghum at farm scale. Submitted to BioEnergy Research (2014)

Dario Fernando Luna, Walter Zegada-Lizarazu, Andrea Monti. Photosynthetic acclimation of sweet sorghum under progressive water stress. Submitted to European Journal of Agronomy (2014)

Chiranjeevi T., A. Uma, K. Radhika, G. Baby Rani, M. Lakshmi Narasu, R.S. Prakasham, P. Srinivasa Rao, A.V. Umakanth (2014). Enzymatic hydrolysis of market vegetable waste and subsequent ethanol fermentation-Kinetic evaluation. Journal of Biochemical Technology (Accepted)

Luca Pasini, Mauro Bergonti, Alessandra Fracasso, Adriano Marocco, Stefano Amaducci. Microarray analysis of differentially expressed mRNA and miRNAs in young leaves of sorghum under dry-down conditions. 2014, Journal of Plant Physiology, 171 (7): 537-548. DOI : 10.1016/j.jplph.2013.12.014

Serge Braconnier -2014- P. Srinivasa Rao and C. Ganesh Kumar (eds.): Characterization of Improved Sweet Sorghum Cultivars. Sugar Tech, 15(3): 345-346. DOI: 10.1007/s12355-013-0236-7

K. S. Vinutha, Laavanya Rayaprolu, K. Yadagiri, A. V. Umakanth, J. V. Patil, P. Srinivasa Rao. Sweet sorghum research and development in India: status and prospects – 2014- Sugar Tech , 16 (2): 133-143 DOI : 10.1007/s12355-014-0302-9

Tesfamariam, Tsehay, 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 (1-2): 325-335 DOI: 10.1007/s11104-014-2075-z

Prakasham, R. S., Nagaiah, D., Vinutha, K. S., Uma, A., Chiranjeevi, T., Umakanth, A. V., Srinivasa Rao, P and Yan, N. (2014). Sorghum biomass: a novel renewable carbon source for industrial bioproducts. Biofuels, 5(2), 159-174, DOI : 10.4155/bfs.13.74

P. Munirathnam, K. Ashok Kumar 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: 271-277 DOI: 0.1007/s12355-013-0230-0

Hilal A. Qazi, Pinnamaneni Srinivasa Rao, Akansha Kashikar, Penna Suprasanna and Sujata Bhargava. Alterations in stem sugar content and metabolism in sorghum genotypes subjected to drought stress -2014- Functional Plant Biology, 41 (9): 954-962. DOI : dx.doi.org/10.1071/FP13299

C. M. B. Damasceno · R. E. Schaffert and I. Dweikat. Mining Genetic Diversity of Sorghum as a Bioenergy Feedstock -2014- In Plants and Bioenergy, Advances in Plant Biology 4., pp81-102. DOI: 10.1007/978-1-4614-9329-7\_6, © Springer Science+Business Media New York 2014 DOI: 0.1007/978-1-4614-9329-7\_6

**Table 1: Peer-reviewed publications (cont.)**

Ganesh Kumar, Srinivasa Rao P, Soma Gupta, Jayalakshmi M, and Kamal A. 2013. Enhancing the Shelf Life of Sweet Sorghum [*Sorghum bicolor* (L.) Moench] Juice Through Pasteurization While Sustaining Fermentation Efficiency Sugar Tech 15: 328-337 DOI: 10.1007/s12355-013-0221-1

S. S. Rao , et al. 2013. Effect of Different Crushing Treatments on Sweet Sorghum Juice Extraction and Sugar Quality Traits in Different Seasons. Sugar Tech DOI: 10.1007/s12355-013-0220-2

Srinivasa Rao P and C Ganesh Kumar (Eds) 2013. Characterization of tropical sweet sorghum cultivars. Springer brief (132 Pp,)

Srinivasa Rao P., Belum VS Reddy, AV Umakanth, A Ashok kumar, Ch Ravinder Reddy and JV Patil. (2013) Sweet sorghum: genetics, breeding and commercialization In B. P. Singh (Ed). Biofuel crops: production, physiology and genetics: 172-198 DOI: 10.1079/9781845938857.0000

G. Basavaraj, P. Parthasarathy Rao, Lalith Achoth and Ch Ravinder Reddy (2013). Assessing Competitiveness of Sweet Sorghum for Ethanol Production: A Policy Analysis Matrix Approach. Agricultural Economics Research Review. Vol. 26(No.1) January-June 2013

Vander de Souza, Rafael da Costa Parella, Flavio Tardin, Marcia Costa, Geraldo de Carvalho Jr, and R. Schaffert: Adaptability and stability of sweet sorghum cultivars – 2013, Crop Breeding and Applied Biotechnology, 13: 144-151

Gutjahr S., Clément-Vidal A., Soutiras A., Sonderegger N., Braconnier S., Dingkuhn M., Luquet. D. -2013 - Grain, sugar and biomass accumulation in photoperiod-sensitive sorghums. II. Biochemical processes at internode level and interaction with phenology. Functional Plant biology, 40: 355-368, DOI: 10.1071/FP12177

G. Basavaraj, Parthasarathy Rao P, Reddy BVS, Ashok Kumar A, BANTILAN MCS, Ravinder Reddy Ch and Srinivasa Rao P. (2013). Policy options for promotion of alternate feedstocks for ethanol production in India: Sweet Sorghum for Ethanol Production. Policy Brief No. 24. RP Markets, institutions and Policy (MIP), ICRISAT, Patancheru, Andhra Pradesh India. 6 pp

Gutjahr S., Vaksman M., Dingkuhn M., Thera K., Trouche G., Braconnier S., Luquet. D. -2013 - Grain, sugar and biomass accumulation in tropical sorghums. I. Trade-offs and effects of phenological plasticity. Functional Plant biology, 40: 342-354, <http://dx.doi.org/10.1071/FP12269>

Rao S., Kumar CG., Malapaka J., Kamal A. and Reddy BVS. 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 DOI: 10.1007/s12355-012-0172-y

Rao S., Kumar CG., Malapaka J., Kamal A. and Reddy BVS. 2012. Feasibility of Sustaining Sugars in Sweet Sorghum Stalks During Post-Harvest Stage by Exploring Cultivars and Chemicals: A Desk Study. Sugar Tech. 14:21-25 DOI : 10.1007/s12355-011-0133-x

**Table 1: Peer-reviewed publications (cont.)**

Rao PS, Deshpande S, Blümmel M, Reddy BVS, Hash T. 2012. Characterization of brown midrib mutants of sorghum (*Sorghum bicolor* (L.) Moench). *The European Journal of Plant Science and Biotechnology*, 6 (Special issue 1), 71-75.

G. Basavaraj, Parthasarathy Rao, ChRavinder Reddy, A.Ashok Kumar, P. Srinivasa Rao, B.V.S.Reddy (2012). A review of National Biofuel Policy in India: A critique- Need for promotion of alternate feedstocks. *J. of Biofuels*, Volume 3, Issue 2, Jul-Dec 2012: 65-78. DOI : 10.5958/j.0976-4763.3.2.007

Zegada-Lizarazu W., Monti A. (2012) Photosynthetic response of sweet sorghum to drought and re-watering at different growth stages. In press in *Physiologia Plantarum* Article first published online : 28 DEC 2012, DOI: 10.1111/ppl.12016

Zegada-Lizarazu W., Monti A. 2012. Are we ready to cultivate sweet sorghum as a bioenergy feedstock? A review on field management practices. *Biomass and Energy*, 40: 1-12. DOI: 10.1016/j.biombioe.2012.01.048

Zegada-Lizarazu W., Zatta Z. Monti A. 2012. Water uptake efficiency and above- and belowground biomass development of sweet sorghum and ethanol maize under different water regimes. *Plant and Soil*, 351: 47-60. DOI: 10.1007/s11104-011-0928-2

SrinivasaRao P, Prasad JVNS, Umakanth AV and Belum VS Reddy. 2011. Sweet sorghum (*Sorghum bicolor* (L.) Moench) – A new generation water use efficient bioenergy crop. *Indian Journal of Dryland Agricultural Research and Development*, 26: 65-71

Parentoni S. N; de Souza Junior C. L; Alves V. M. C; Gama EEG, Coelho A. M; Oliveira A. C de; Guimarães P. E. O; Guimarães C. T.; Vasconcelos M. J. V; Pacheco C. A. P; Meirelles W. F; Magalhães, J. V. Guimarães L. J. M; Silva A. R, Mendes F. F; Schaffert R. E. 2010. Inheritance and breeding strategies for phosphorus efficiency in tropical maize (*Zea Mays* L.). *Maydica*, 55: 1-15

**Table 2: Oral presentations (International Conferences)**

Braconnier S. *et al.* (CIRAD) 2014. Sweet and biomass sorghum: a good opportunity for producing energy ? 26th Annual Meeting of AAIC, Athens, Greece, September 13-19, 2014.

Braconnier S. *et al.* (CIRAD) 2014. Sweet sorghum as an alternative energy crop: results from 5 years of research (SWEETFUEL Project), 22nd European Biomass Conference and Exhibition, Hamburg, Germany, June 23-26, 2014.

Zegada-Lizarazu W. (UniBO) 2014. Agronomy of Energy Sorghum in Temperate Climates. Proceedings of the regional stakeholder workshop "Energy sorghum – an alternative energy crop for industrial use" on the occasion of the "22nd European Biomass Conference and Exhibition", Hamburg, Germany, June 23-26, 2014

P. Srinivasa Rao Keerthi KC, Ramakrishna, Santosh Deshpande, and Stefania Grando (2014). Molecular breeding approaches in sweet sorghum. In 9th Canadian biotechnology Conference, 12-15 May 2014, Montreal, Canada

P. Srinivasa Rao P., Munirathnam, Vishwanath, Santosh Deshpande, Francisco Zavala, Namera Shargie,, Vincent Vadez, Serge Braconnier and Stefania Grando (2014). Improvement of sweet sorghum for drought tolerance. In SSEA meeting, 23 January 2014, Orlando, USA

Luna DF, Zegada-Lizarazu W, Sartoni R, Vecchi A, Zaneti F, Monti A. (UniBO) 2014. Effects of Progressive Drying Up on Photosynthetic Capacity and Sugars Accumulation of Sweet Sorghum during Vegetative and Reproductive Stages. Proceedings of the plant biology Europe FESPB/EPSO 2014, Dublin, Ireland June 22-26, 2014

R. Schaffert and R. Parrella (EMBRAPA) 2014. Minimum Concepts for Ethanol Production from Sweet Sorghum in Brazil, Sweet Sorghum Ethanol Association, Orlando, January 23-24, 2014.

Monti A. (UniBo) 2013. Sweet Sorghum as an alternative energy crop. AAIC Conference, Washington (Invited speaker) Awarded Best Oral Presentation, 12-16 October, 2013

R. Schaffert and R. Parrella (EMBRAPA) 2013. Overcoming impediments for improving agronomic and industrial traits of sweet sorghum", Sweet Sorghum Ethanol Association, Orlando, Florida, January 24-25, 2013.

Keller and Reinhardt (IFEU) 2013. Environmental impacts of second generation bioethanol: recent LCA results. In: Proceedings of the final NEMO meeting, [www.nemo.eu](http://www.nemo.eu), Nice, France, 15-16 April 2013.

Reinhardt, G (IFEU) 2013. Environmental assessment of 1st and 2nd gen ethanol: an overview. In: Proceedings of the 20th International Symposium on Alcohol Fuels (ISAF) "Alcohol fuels enabling sustainable future development", [www.isaf2013.co.za](http://www.isaf2013.co.za), Stellenbosch, South Africa, 25-27 March 2013

**Table 2: Oral presentations (International Conferences) (cont.)**

Reinhardt, G (IFEU) 2013. How sustainable are biofuels from Sweet Sorghum? In: Proceedings of the Sweet Sorghum Workshop / Farmers' Day, Potchefstroom, South Africa, 21 February 2013

Reinhardt, G and Hienz (IFEU) 2013. How sustainable are 1st and 2nd generation biofuels for transportation? In: Proceedings of "Fuels - conventional and future energy for automobiles". 9th International Colloquium, 15 – 17 Jan 2013, Esslingen. Bartz (ed): Fuels – Mineral oil based and alternative fuels. pp 37-42, ISBN: 983943563047, 2013

S. Braconnier et al. (CIRAD) 2013. "What kind of competition food vs fuel in sweet sorghum?" Sweet Sorghum Ethanol Association annual Meeting, Orlando, FL, USA, January 24-25, 2013.

R Schaffert (Embrapa) 2013. "Overcoming impediments for improving agronomic and industrial traits of sweet sorghum" Sweet Sorghum Ethanol Association annual Meeting, Orlando, FL, USA, January 24-25, 2013.

R Schaffert and J Magalhães (Embrapa) 2012. "Population Development and Phenotyping of Important Traits in Sorghum" (International Sorghum Genomics Workshop 15-16/11/2012 in Atlanta, Georgia, USA, November 15-16, 2012.

J.E. Treviño Ramírez *et al.* (UANL) 2012. Response of three population densities on sugar production in 6 sweet sorghum genotypes in Marín, N.L. México. XXIV National and IV International Congress of Plant Genetics, Monterrey, Nuevo Leon, Mexico, 24-26 September 2012.

H. Williams Alanís *et al.* (UANL) 2012. Genetic breeding in sweet sorghum of FAUANL I. A-B Line Formation. XXIV National and IV International Congress of Plant Genetics, Monterrey, Nuevo Leon, Mexico, 24-26 September 2012.

H. Williams Alanís *et al.* (UANL) 2012. Genetic breeding in sweet sorghum of FAUANL I. Variety formation. XXIV National and IV International Congress of Plant Genetics, Mponterrey, Nuevo Leon, Mexico, 24-28 September 2012.

K.J. Lazarin Padilla *et al.* (UANL) 2012. Estimation of sugar content in sweet sorghum hybrids in different phenological stages. XXIV National and IV International Congress of Plant Genetics, Monterrey, Nuevo Leon, Mexico, 24-26 September 2012.

F. Zavala García *et al.* (UANL) 2012. Physiological responses in sweet sorghum genotypes under soil moisture stress. XXIV National and IV International Congress of Plant Genetics, Mponterrey, Nuevo Leon, Mexico, 24-28 September 2012.

R Schaffert (EMBRAPA) 2012. "A Changing Scenario and Increased Demand for Sweet Sorghum for Ethanol Production in Brazil" (Biofuel Crops Symposium) in Monterrey, NL, Mexico, September 24-26, 2012.

**Table 2: Oral presentations (International Conferences) (cont.)**

Braconnier, S (CIRAD) 2012. "Sweet sorghum: a good opportunity to produce bio-ethanol?". IV International Congress of Phytogenetic/ Biofuel Crops Symposium), Monterrey (Mexico), September 24-28, 2012.

Rao, S (ICRISAT) 2012. SWEETFUEL Presentation participation at the stakeholder meeting of the FP7 project SAHYOG (Strengthening Networking on Biomass Research and Bio-waste Conversion – Biotechnology for Europe India Integration) in New Delhi, India, 7 November 2012.

Reinhardt, G (IFEU) 2012. Environmental implications (LCA) associated with biofuels. Presentation at the international workshop "2G bioethanol production: technological development and agroenvironmental and economic implications". Bologna, Italy, 18 April 2012.

Braconnier, S (CIRAD) 2012. Sweet Sorghum: a smart solution for bioethanol production? 9th international conference "Fuels for the future. Berlin, January 23-24, 2012.

Rettenmaier, N. (IFEU) 2011. Environmental implications associated with sweet sorghum production and use for biofuels. EUROCLIMA Workshop on the agro-environmental impact of biofuels and bioenergy (organised by JRC, UNICAMP & CTBE), Campinas, Brazil, 30 November – 1 December 2011, [http://re.jrc.ec.europa.eu/biof/pdf/euroclima\\_brazil/rettenmaier\\_lca-biodiesel.pdf](http://re.jrc.ec.europa.eu/biof/pdf/euroclima_brazil/rettenmaier_lca-biodiesel.pdf), 2011

R. Schaffert (EMBRAPA) 2011. "Breeding Strategies for Sorghum as a Feedstock for First and Second Generation Technologies for Production of Bioenergy in Brazil", oral presentation at the 6th Frontiers in Bioenergy: United States-Brazil Symposium on Sustainable Bioenergy, Purdue University in West Lafayette, Indiana, USA, May 15-18, 2011.

S. Braconnier (CIRAD) 2011. "Development of new sorghum ideotypes to meet the increasing demand of bioethanol". CIMAC (Crop Improvement, Ideotyping, and Modelling for African Cropping Systems under Climate Change) Workshop at University of Hohenheim, Germany, February 7-9, 2011.

S. Köppen, Dahms, T. (IFEU) 2011. Environmental Implications of Sweet Sorghum Bioethanol. Published in: W.J. Bartz [Hrsg.] (2011): Fuels 2011 - Conventional and Future Energy for Automobiles, 8th International Colloquium, January 19 - 20, 2011, Technische Akademie Esslingen, p. 335-342, ISBN 9783924813864, 2011.

Monti A. (2010) Il progetto SWEETFUEL - Sweet sorghum: an alternative energy crop. "Agroenergie e biocarburanti: le tecnologie e le prospettive di nuovimodelliergeticisostenibili" Green Energy Conference 17-19 Nov., 2010, Milano. Italy. [http://www.pvtech.eu/it\\_esp/conf\\_2010.asp?conf=BIO](http://www.pvtech.eu/it_esp/conf_2010.asp?conf=BIO)

**Table 2: Oral presentations (International Conferences) (cont.)**

S. Braconnier (CIRAD) 2010. SWEETFUEL presentation at the second annual meeting of the FP7 project “4F Crops”, The Netherlands, March 2010

R. Schaffert (EMBRAPA) 2010. Embrapa Energy Sorghum Research and Development Update”, Sweet Sorghum Ethanol Association, January 28/29, 2010, Orlando, Florida.

Zegada-Lizarazu W., Zatta A., Matteucci D., Barbanti L., and Monti A. (UniBO) 2010. Rooting characteristics and aboveground biomass development of sweet sorghum and ethanol maize under water deficit. 18th European Biomass Conference and Exhibition, 3-7 May 2010, Lyon, France. 195-199.

R. Janssen and D. Rutz (WIP) 2010. Sweet sorghum: an alternative energy crop. 18th European Biomass Conference and Exhibition in Lyon, France, 3-7 May 2010

S. Köppen (IFEU) 2010. Sweet Sorghum first and second generation bioethanol – an environmental perspective. 6th International Conference on Biomass for Energy, Kyiv, 14 - 15 September 2010. Conference proceedings published on CD, to be ordered via <http://biomass.kiev.ua/en/en/conferences> or [conference@biomass.kiev.ua](mailto:conference@biomass.kiev.ua).

S. Braconnier (CIRAD) 2010. SWEETFUEL presentation at a round table of the 4th International Exhibition on Renewable Energies at Montpellier, 8-11 December 2010.

R. Janssen (WIP) 2010. “Sweet Sorghum: An Alternative Energy Crop” in Proceedings of the 19. Symposium BIOENERGIE, Bad Staffelstein, Germany, 25-26 November 2010.

S. Braconnier (CIRAD) 2009. Presentation and participation of SWEETFUEL at the EU-India Scientific and Technical Days in New Delhi, India, November 2009

M. Dingkuhn (CIRAD) 2009. SWEETFUEL presentation at the Seminar “Land Resources and land use options”, in Goettingen, Germany, July 2009

S. Braconnier (CIRAD) 2009. SWEETFUEL presentation in the framework of the Twinning programme “Soil, Plant and Food Research between the EU, Argentina and MERCOSUR”, in Argentina, 7-8 May 2009

S. Braconnier (CIRAD) 2009. SWEETFUEL presentation at the first meeting of the FP7 project “4F Crops” in Madrid, Spain, March 2009



**Table 3: Oral presentations (National Conferences)**

R. Schaffert (EMBRAPA) 2013. Situação do Cultivo de Sorgo no Brasil”, Seminário para Subcomissão "Sorgo" CTNBio, 20/03/2013, Brasília – DF, Brazil.

R. Schaffert (EMBRAPA) 2012. Características desejáveis para uma boa cultivar de sorgo sacarino , Seminário Temático Agroindustrial de Produção de Sorgo Sacarino para Bioetanol, 20-21/09/2012, Riberão Preto – SP, Brazil.

R. Schaffert (EMBRAPA) 2012. Overview of the potential of sweet sorghum to produce ethanol in Brazil”, Embrapa-RDA (South Korea), Project Start-up Workshop,05-09 March 2012, Brasília- Federal District.

Robert E Schaffert (EMBRAPA) 2012. An Update on Sweet Sorghum for Ethanol Production in Brazil”. Embrapa Maize and Sorghum – CERES Meeting, 07/02/2012, Sete Lagoas, MG, Brazil.

R. Schaffert et al.(EMBRAPA) 2012. Overview of the Potential of Sweet Sorghum to Produce Ethanol in Brazil, Embrapa-Nexsteppe – Meeting, 20 March 2012, Sete Lagoas, MG.

R. Schaffert et al. (EMBRAPA) 2012. Overview of the Potential of Sweet Sorghum to Produce Ethanol in Brazil, Embrapa-Chromatin Meeting, 9 Abril 2012, Sete Lagoas, MG.

R Schaffert (EMBRAPA) 2012. “Características desejáveis para um bom cultivar de sorgo sacarino” (Seminário Temático Agroindustrial de Produção de Sorgo Sacarino para Bioetanol) in Riberão Preto, SP, Brazil, 20 September 2012.

R. Schaffert (EMBRAPA) 2011. Breeding for tolerance to abiotic stress in sorghum – what the plant can do to improve adaptability to abiotic stresses !, 09/11/2011, UFV Vicosa, Minas Gerais.

R. Schaffert (EMBRAPA) 2011. Sorghum Improvement for Tropical Savannas, Visit of North Korean Deligation Embrapa Maize and Sorghum, September 30, 2011, Sete Lagoas, MG.

R. Schaffert (EMBRAPA) 2011. Potencialidade do Sorgo, como matéria prima para produção de Biocombustíveis, Curso: Resíduos de Biomassa para Produção de Biocombustíveis no Maranhão, 27/09/2011, São Luis, Maranhão.

R. Schaffert (EMBRAPA) 2011. Perspectivas da Embrapa com o Projeto Sistema de Produção em Sorgo Sacarino, Reunião Embrapa/Petrobras - CENPES/PDEDS/BIO, Rio de Janeiro, RJ, 15/09/2011.

Robert E. Schaffert and A. Porcin (EMBRAPA) 2011. Potencial do sorgo sacarino para produção de bioetanol e sua utilização na extensão da safra de cana-de-açúcar – “safrinha”, Reunião Algar, 05/08/2011, Uberlandia, MG.

R. Schaffert (EMBRAPA) 2011. Potencial do sorgo para produção de bioetanol e sua utilização na extensão da safra de produção de bioetanol de cana-de-açúcar, Reunião Embrapa x Ministerio de Minas e Energia, 11/03/2011, Brasília, DF.

**Table 3: Oral presentations (National Conferences) (cont.)**

R. Schaffert and R. Parrella (EMBRAPA) 2011. Estratégias para o melhoramento de sorgo sacarino e desafios futuras, Seminário Temático – Sorgo Sacarino, Embrapa Milho e Sorgo, 20-21/09/2011, Sete Lagoas,-MG.

F. Zavala (UANL) 2010. Biotechnological Crops for Food, Forage and Bioenergy at Biocumbre Monterrey Congress, 16-17 November 2010, Monterrey, Mexico.

R. Schaffert (EMBRAPA) 2010. Pesquisa de Sorgo Como Fonte de Matéria Prima para Produção de Energia na Embrapa Milho e Sorgo, Centro de Tecnologia Canaveira CTC, 04/08/2010, CTC, Piracicaba, SP.

R. Schaffert (EMBRAPA) 2010. A experiência brasileira na produção do etanol a partir de sorgo sacarino, Seminario “Os Gargalos do setor sucroalcooleiro e as contribuições da Embrapa - UDOP”, 18/08/2010, Campo Grande, MS.

R. Schaffert (EMBRAPA) 2010. Potencial do sorgo para produção de bioetanol e sua utilização na extensão da safra de produção de bioetanol de cana-de-açúcar, Reunião Anual do Conselho Assessor Externo da Embrapa, 25/08/2010. Sete Lagoas, MG

R. Schaffert (EMBRAPA) 2010. Sorgo: Potencialidades e limitações para produção de bioenergia, Congresso de Milho e Sorgo, 01/10/2010, Goiania, GO, Brazil

R. Schaffert (EMBRAPA) 2010. Simpósio Estadual de Agroenergia e 3ª Reunião Técnica de Agroenergia, Embrapa Clima Temperado, 11/08/2010. Pelotas, RG, Brazil

F. Zavala (UANL) 2009. SWEETFUEL presentation at the Annual Meeting of the RED MEXICANA DE BIOENERGIA (Mexican Net of Bioenergy) in Mexico, November 2009

W. Snijman (ARC-GCI) 2009. Potential of sorghum for bioethanol production. 13/03/2009, Potchefstroom, South Africa

#### Table 4: Posters

Reinhardt, G., *et al.* (IFEU) 2014. Sustainability assessment for sweet and biomass sorghum as energy crops. on the occasion of the “22nd European Biomass Conference and Exhibition”, Hamburg, Germany, June 23-26, 2014

Reinhardt, G., Cornelius, C. (IFEU) 2014. Environmental assessment of energy sorghum. Proceedings of the regional stakeholder workshop “Energy sorghum – an alternative energy crop for industrial use” on the occasion of the “22nd European Biomass Conference and Exhibition”, Hamburg, Germany, June 23-26, 2014

Pereira, G.S. *et al.* (EMBRAPA) 2013. Quantitative Trait Loci mapping for sugar-related traits in sweet sorghum based on high-density SNP markers. 21th Plant and Animal Genomes Conference, 2013/01/12-16, San Diego, California, USA.

MOURAO, C. S. *et al.* (EMBRAPA) 2013. Adaptabilidade e estabilidade de híbridos de sorgo granífero em condições de safrinha. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

SILVA, L. A.*et al.* R. E. (EMBRAPA) 2013. Análise de trilha em linhagens de Sorghum bicolor L. Moench avaliadas em condições de estresse de fósforo. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

OLIVEIRA, M. S. *et al.* (EMBRAPA) 2013. Desempenho de cultivares de sorgo sacarino em dois níveis de saturação por alumínio visando a produção de etanol. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

PEREIRA, G. S. *et al.* (EMBRAPA) 2013. Identification of QTLs controlling yield traits in sweet sorghum using genotyping by sequencing. In: 59º Congresso Brasileiro de Genética, Águas de Lindóia. Ribeirão Preto, SBG, Brazil, 16-19/09/2013.

SOUZA, V. F. d *et al.* (EMBRAPA) 2013. Estimação de parâmetros genéticos em linhagens endogâmicas recombinantes de sorgo sacarino. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

MOURA, S. M. *et al.* (EMBRAPA) 2013. Distribuição de açúcares nos entrenós de genótipos comerciais de sorgo sacarino. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

SENA, F. M. (EMBRAPA) 2013. Distribuição e acumulação de açúcares nos entrenós de dois genótipos de sorgo sacarino sensíveis ao fotoperiodismo. In: 7º Congresso Brasileiro de Melhoramento de Plantas, Uberlândia , MG, Brazil, 05-08/08/2013.

SOARES, E. A. C. *et al.* (EMBRAPA) 2013. Resposta de genótipos de sorgo à inoculação com microrganismos solubilizadores de fósforo. In: 34º Congresso Brasileiro de Ciencia do Solo, Florianópolis, MG, Brazil, 28/07/2013-02/08/2013.

P.S. Rao and B. VS Reddy (ICRISAT) 2012. Identification of Midseason moisture stress sweet sorghum material. Poster presented to ICRISAT Governingboard April 3, 2012

**Table 4: Posters (Cont.)**

Zegada-Lizarazu W., Zatta A., Nissen L., Monti A.(UniBO) 2012. Sweet sorghum root and canopy responses to water deficit occurring at different growth stages. Roots to the Future. 8th Symposium of the International Society of Root Research (ISRR), Dundee, Scotland, June 26-29 2012.

Zegada Lizarazu W, Zatta A, Monti A. (UniBO) 2012. Root system characterization in sweet sorghum and maize using two different methodologies. Roots to the Future. 8th Symposium of the International Society of root Research (ISRR), Dundee, Scotland, June 26-29 2012.

Zegada-Lizarazu W, Vecchi A, Zatta A, Luna F, Monti A. (UniBO) 2012. Response of three commercial biomass sorghum hybrids to cold stress in northern Italy. 12th Congress of the European Society for Agronomy, Helsinki, Finland, August 20-24 2012

RIBEIRO, P. B. *et al.* (EMBRAPA) 2012. Análise de expressão de genes relacionados à biossíntese de lignina em sorgo. In: Encontro da Rede de Pesquisa, Desenvolvimento e Inovação em Biocombustíveis em Minas Gerais, Sete Lagoas, Brazil, 2012.

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SOUZA, V. F. de *et al.* (EMBRAPA) 2012. Estimativas de correlações fenotípicas e genotípicas entre parâmetros agroindustriais do sorgo sacarino. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

TORRES, T. B. C. F.*et al.* (EMBRAPA) 2012. Caracterização de cultivares de sorgo sacarino no Norte de Minas Gerais visando a produção de etanol. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

BERNARDINO, K. da C. *et al.* (EMBRAPA) 2012. Caracterização de cultivares de sorgo sacarino visando a produção de etanol de primeira e segunda geração In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

MOURAO, C. S.*et al.* (EMBRAPA) 2012. Efeito de doenças foliares no desenvolvimento de sorgo sacarino. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012.

PINTO, M. de O. *et al.* (EMBRAPA) 2012. Identificação de marcadores moleculares microssatélites associados à restauração da fertilidade em sorgo. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

#### Table 4: Posters (Cont.)

VIANA, A. A. de O. N. *et al.* (EMBRAPA) 2012. Influência da dose de fósforo na diversidade genética bacteriana na rizosfera de linhagens endogâmicas recombinantes de sorgo. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

MAY, A. *et al.* (EMBRAPA) 2012. Influência do arranjo de plantas no desempenho produtivo de sorgo sacarino (*Sorghum bicolor* (L.) Moench), em Sete Lagoas-MG. In: 29° Congresso Nacional de Milho e Sorgo, Águas de Lindóia (SP), Brazil, 26-30/08/2012

S. Braconnier (CIRAD) 2011. "Definition of new sorghum ideotypes to meet the increasing demand of bioenergy". Poster presented at the 19th European Biomass conference and Exhibition, Berlin, Germany, June 6-10 2011.

W. Snijman (ARC-GCI) 2011 SWEETFUEL presentation (flyer) at the NAMPO Agricultural Show, Bothaville, South Africa, May 17-20 2011.

M. Bergonti, L. Pasini, A. Marocco and S. Amaducci (UCSC) 2011. Physiological and molecular analysis of drought response in two sweet sorghum genotypes. XXII EUCARPIA Maize and Sorghum Conference, Opatija, Croatia, June 19-22, 2011.

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Gutjahr S. *et al.* (CIRAD) 2010 Functional analysis of sugar accumulation in sorghum stems and its competition with grain filling among contrasted genotypes. In Proceedings of Agro2010: the XIth ESA Congress, August 29th - September 3rd, 2010, Montpellier, France'. Montpellier. ( J. Wery, ed. ; I. Shili-Touzi, ed. ; A. Perrin, ed. ; European society for agronomy) pp. 89-90. (Agropolis international)

F. Zavala (UANL) 2010. SWEETFUEL presentation (poster display) at the University of Nuevo Leon, Mexico on the occasion of the university research open days.

#### Table 4: Posters (Cont.)

PARRELLA, R. A. da C. *et al.* (EMBRAPA) 2010. Desempenho de cultivares de sorgo sacarino em diferentes ambientes visando a produção de etanol. In: 28° Congresso Nacional de Milho e Sorgo, Goiânia, Brazil, 29/08/2010-02/09/2010

BATISTA, K. D.; *et al.* (EMBRAPA) 2010. Morfologia do sistema radicular de genótipos de sorgo em função da concentração de fósforo na solução nutritiva. In: 28° Congresso Nacional de Milho e Sorgo, Goiânia, Brazil, 29/08/2010-02/09/2010.

DAMASCENO, C. M. B. *et al.* (EMBRAPA) 2010. Biochemical and molecular analysis of bioenergy sorghums for variation in lignin content. In: 2nd Panamerican Congress on Plants and Bioenergy, São Paulo, 08-11/09/2010

DAMASCENO, C. M. B. *et al.* (EMBRAPA) 2010. Caracterização bioquímica de genótipos de sorgo quanto ao teor de lignina e análise molecular de rotas metabólicas visando à produção de etanol de segunda geração. In: 28° Congresso Nacional de Milho e Sorgo, Goiânia, Brazil, 29/08/2010-02/09/2010..

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R. Janssen (WIP) 2009. Presentation (poster) of SWEETFUEL at the 17th European Biomass conference and Exhibition in Hamburg, Germany, June 29 – July 03 2009

SILVA, L. A. *et al.* (EMBRAPA) 2009. Crescimento radicular de híbridos de sorgo isogênicos avaliados quanto a tolerância ao alumínio tóxico. In: 5° Congresso Brasileiro de Melhoramento de Plantas, Vitória, Brazil, 10-13/08/2009

SCHAFFERT, R. E. *et al.* (EMBRAPA) 2009. Field validation of near isogenic lines and hybrids contrasting of tolerance to aluminum toxicity and comparison of parameters derived from nutrient solution and field evaluation at various levels of aluminum. In: 7<sup>th</sup> International Symposium on Plant-Soil interactions at low pH, Guangzhou, China, 17-21/05/2009

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#### Table 4: Posters (Cont.)

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LANA, U. G. D. P. *et al.* (EMBRAPA) 2009. Caracterização molecular de um membro da família Multidrug and Toxic Compound Extrusion (MATE) que confere tolerância ao alumínio em sorgo. In: 55° Congresso Brasileiro de Genética, Águas de Lindóia, SP. Brazil, 30/08/2009-02/09/2009

RODRIGUES, F. *et al.* (EMBRAPA) 2009. Avaliação precoce de genótipos de sorgo quanto à eficiência e resposta na aquisição de fósforo em solo de cerrado. In: 5° Congresso Brasileiro de Melhoramento de Plantas, Vitória, Brazil, 10-13/08/2009

CANIATO, F. F. *et al.* (EMBRAPA) 2009. Association mapping for aluminum tolerance in candidate regions of the Altsb locus in sorghum. In: 55° Congresso Brasileiro de Genética, Águas de Lindóia, SP. Ribeirão Preto, Brazil, 30/08/2009-02/09/2009

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MAGALHAES, J. *et al.* (EMBRAPA) 2009. Tailoring superior alleles for abiotic stress genes for deployment into breeding programmes: a case study based on association analysis of Altsb, a major aluminium tolerance gene in sorghum (ALTSORGHUM). In: Generation Challenge Programme, 2009, Texcoco, Mexico.

#### Table 5: Press releases

W. Snijan, (ARC-GCI) 2014. The effect of nitrogen application levels on sweet sorghum yield, Agriland, July/August, vol 58 (n°4): 22-23.

P Srinivasa Rao, ICRISAT presents its take on biomass at European Biomass Conference in Copenhagen, in: ICRISAT Happenings, In-House Newsletter, 28 June 2013 No. 1577

S. Braconnier (CIRAD) 2010. Contribution to the Film "To feed a World" for a regional TV station (in French) available at <http://www.capcanal.com/videos.php?rubrique=5&emission=4>.

S. Braconnier (CIRAD) 2010. SWEETFUEL publication in the on-line Magazine Research Media, "Sweet sorghum: a suitable alternative energy crop", Edition December 2010 'Rebuilding trust in the food supply chain'

S. Braconnier (CIRAD) 2009. Radio interview of the coordinator broadcasted in West Africa on 19, May 2009 by The Voice of America Radio

### Table 5: Press releases (cont.)

S. Braconnier (CIRAD) 2009. SWEETFUEL presentation in Green Techno N° 14, p3, 24/04/2009

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### Table 6: Participation in meetings/conferences

R. Janssen (WIP) 2014. SWEETFUEL participation at the Second High Level Meeting of the Africa-EU Energy Partnership on 12-13 February 2014 in Addis Ababa, Ethiopia

D. Rutz (WIP) 2014. SWEETFUEL participation at the meeting of the FP7 project SAHYOG (Strengthening Networking on Biomass Research and Bio-waste Conversion – Biotechnology for Europe India Integration) in New Delhi, India, 4-7 February 2014.

R. Janssen, D. Rutz, C. Khawaja (WIP) 2014. SWEETFUEL participation at the REGIONAL WORKSHOP on Sustainable Biomass Production in Latin America in Bogota, Colombia, 28-29 January 2014

R. Janssen (WIP) 2013. SWEETFUEL participation at the 4th Conference on Biofuels in Ouagadougou, Burkina Faso, 21-23 Nov 2013

D. Rutz and R. Janssen (WIP) 2013. SWEETFUEL participation at the 21st European Biomass Conference and Exhibition in Copenhagen, Denmark, 3-6 June 2013

D. Rutz and R. Janssen (WIP) 2013. SWEETFUEL participation at the final conference of the FP7 project Global-Bio-Pact (Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability) in Brussels, Belgium, 28-30 January 2013.

R. Janssen and D. Rutz (WIP) 2012. SWEETFUEL participation at the meeting of the FP7 project Global-Bio-Pact (Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability) in Buenos Aires, Argentina, 17-20 September 2012.

R. Janssen and D. Rutz (WIP) 2012. SWEETFUEL participation at the meeting of the FP7 project SAHYOG (Strengthening Networking on Biomass Research and Bio-waste Conversion – Biotechnology for Europe India Integration) in New Delhi, India, 5-7 November 2012.



**Table 6: Participation in meetings/conferences (Cont.)**

R. Janssen (WIP) 2011. SWEETFUEL participation at the project meeting of the FP7 project NEMO (Novel High Performance Enzymes and Micro-organisms for Conversion of Lignocellulosic Biomass to Bioethanol), 7-9 November 2011, Frankfurt, Germany.

R. Janssen (WIP) 2011. SWEETFUEL participation at the XIX ISAF (International Symposium on Alcohol Fuels) and 2<sup>nd</sup> International Conference on Lignocellulosic Ethanol, 10-14 October 2011, Verona, Italy.

R. Janssen and D. Rutz (WIP) 2011. SWEETFUEL participation at the meeting of the FP7 project Global-Bio-Pact (Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability) in Bamako, Mali, 26-30 September 2011.

D. Rutz (WIP) 2011. SWEETFUEL participation at the Mitteleuropäische Biomassekonferenz 2011 in Graz, Austria, 26-29 January 2011.

R. Janssen and D. Rutz (WP) 2011. SWEETFUEL participation at the GTZ/DED/InWEnt conference on decentralised energy solutions for developing countries in Bonn, Germany, 10-12 January 2011.

R. Janssen (WIP) 2011. SWEETFUEL participation at the GIZ Expert discussion "Biofuel feedstock potential in East Africa" in Eschborn, Germany, 8 February 2011.

R. Janssen and D. Rutz (WIP) 2011. SWEETFUEL participation at the meeting of the FP7 project Global-Bio-Pact (Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability) in Medan, Indonesia, 14-17 March 2011.

R. Janssen and D. Rutz (WIP) 2011. SWEETFUEL participation at the EC Workshop International Cooperation Projects in Support to Research and Innovation Policies and Competence Building in Brussels, Belgium, 16-17 June 2011.

D. Rutz (WIP) 2010. SWEETFUEL participation at the Annual Meeting of the RED MEXICANA DE BIOENERGIA (Mexican Net of Bioenergy) in Mexico, October 2010.

R. Janssen (WIP) 2010. SWEETFUEL participation at the First Canada-Europe-Australia-New Zealand Workshop on Biotechnologies for Biorefineries and Biobased Materials, 6-7 October 2010, Saskatoon, Canada.

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R. Janssen 2009. SWEETFUEL participation at the conference "Biofuel Markets West Africa" in Accra, Ghana, October 2009

R. Janssen (WIP) 2009. SWEETFUEL participation at the COMPETE Financing Conference in Dakar, Senegal, September 2009

## Table 7: Thesis and Master

Dario Fernando Luna, PhD thesis. Evaluation of the photosynthetic efficiency of sweet sorghum under drought and cold conditions. Alma Mater Studiorum – Università di Bologna supervised by Walter Zegada-Lizarazu and Andrea Monti

Boccassi Marco, Laurea Magistrale in Scienze e Tecnologie Agrarie, "Caratterizzazione di genotipi di sorgo in funzione della tolleranza allo stress idrico", Università Cattolica del Sacro Cuore, Piacenza, Italia, Aprile 2013, supervised by Dr. Stefano Amaducci.66pp.

Gutjahr S. 2012. Ecole Doctorale SIBAGHE: « Analysis of useful morphogenetic and biochemical traits for the development of dual-purpose “grain-bioethanol” sweet sorghum ». Thèse de doctorat Université Montpellier 2, soutenue le 5/7/2012. 118pp.

Jesus Olivera Vargas. 2012. Production systems base don fertilization and topological arrangements for bioethanol production with sweet sorghum. Master of Science, UANL, 10/03/2012

Jose Alonso Yerbés Vazquez, Master (UANL) 2011. Thesis on Heterosis en características asociadas con la producción de etanol en sorgo dulce (Sorghumbicolor L. Moench), June 2011, supervised by Dr. Francisco Zavala García (AUNL).

De Souza, Vander Fillipe, Master of Science ‘Adaptabilidade e estabilidade de cultivares de sorgo sacarino’, Universidade Estadual de Montes Claros, Janaúba, Minas Gerais, Brasil, 2011.

## Table 8: Organization of workshops

Schaffert R., Parrela R. and Damasceno C.

2010 – International workshop on “Role of lignin on sorghum biomass quality for energy and animal utilization”, Sete Lagoas, Brazil, 19-20 April 2010.

2011 - Regional workshop in Sete Lagoas, Brazil, 20-21 September 2011

2012 - Seminar on the Agro-Industrial Production and Processing of Sweet Sorghum for Ethanol Production” took place in Ribeirão Preto, São Paulo on 9-10 August 2012

Monti A., and Braconnier S. (Chairs; 2012) 2G Bioethanol production: Technological development and agroenvironmental and economic implications. 18 Aprile 2012 Sala Ulisse - Accademia delle Scienze. Bologna, Italy. [www.unibo.it/Ricerca/2GBioethanolProduction](http://www.unibo.it/Ricerca/2GBioethanolProduction)

Zavala Garcia 2012 International workshop in Mexico : « Biofuel Symposium », Monterrey, Nuevo Leon, Mexico, 24-26 September 2012

Snijman W. 2013 Regional workshop in South Africa, 21/02/2013, Potchefstroom

Rao S. 2014 International workshop and regional workshop in Hyderabad, India

S. Braconnier 2014 SAMARA-sorghum Training workshop in Montpellier 17-21 March 2014-02-19

R. Janssen, D Rutz, S. Braconnier, International workshop on Sweetfuel in Hamburg, Germany, 26 June 2014

### Table 9: Technical documents

Melhoramento molecular da tolerância ao alumínio em sorgo. Embrapa Milho e Sorgo, Boletim de Pesquisa e Desenvolvimento n° 90, 25p. Sete Lagoas, 2013.

Cultivo de sorgo sacarino em áreas de reforma de canaviais. - Embrapa Milho e Sorgo. Circular técnica n° 186, 36p. Sete Lagoas, 2013.

Análise morfoagronômica e bioquímica de um painel de sorgo energia para características relacionadas à qualidade da biomassa. - Embrapa Milho e Sorgo, Circular técnica n° 190. Sete Lagoas, 2013.

Influência do espaçamento entrelinhas e da população de plantas no desempenho produtivo do sorgo sacarino BRS 511. - Embrapa Milho e Sorgo. Boletim de Pesquisa e Desenvolvimento N° 89, 27P. Sete Lagoas, 2013.

Sistema Embrapa de produção agroindustrial de sorgo sacarino para bioetanol: Sistema BRS1G-Tecnologia Qualidade Embrapa. - Embrapa Milho e Sorgo, Documentos n° 139, 118p. Sete Lagoas, 2012.

Mapeamento de QTLs para a tolerância à seca em sorgo com ajustes para características fenológicas. - Embrapa Milho e Sorgo, Circular técnica n° 182, 10p. Sete Lagoas, 2012.

Validação de marcadores moleculares para introgressão da característica nervura marrom (bmr6) em linhagens de sorgo biomassa utilizando retrocruzamento assistido. - Embrapa Milho e Sorgo. Circular técnica n° 184, 7p. Sete Lagoas, 2012.

Efeitos de background genético para a tolerância ao alumínio em sorgo. - Embrapa Milho e Sorgo. Circular técnica n° 180, 7p. Sete Lagoas, 2012.

Desempenho de cultivares de sorgo sacarino para a produção de etanol sob diferentes densidades de plantas Pelotas. - Embrapa Clima Temperado, Boletim de Pesquisa e Desenvolvimento n° 156, 22p. Sete Lagoas, 2011.

Pré-melhoramento para a tolerância ao alumínio em sorgo. Embrapa Milho e Sorgo. - Embrapa Milho e Sorgo. Circular técnica n° 162, Sete Lagoas, 2011.

A influência de características fenológicas na avaliação da tolerância à seca em sorgo. - Embrapa Milho e Sorgo. Circular técnica n° 165. Sete Lagoas, 2011.

Desempenho agrônomico de híbridos de sorgo biomassa. Sete Embrapa Milho e Sorgo. - Embrapa Milho e Sorgo. Boletim de Pesquisa e Desenvolvimento n° 41, 19p. Lagoas, 2011.

BRS 508: variedade de sorgo sacarino para produção de etanol. - Embrapa Milho e Sorgo. Comunicado técnico n° 195, 2p. Sete Lagoa, 2011.

BRS 509: variedade de sorgo sacarino para produção de etanol. - Embrapa Milho e Sorgo. Comunicado técnico n° 194, 2p. Sete Lagoa, 2011.

**Table 9: Technical documents (cont.)**

BRS 511: variedade de sorgo sacarino para produção de etanol. - Embrapa Milho e Sorgo. Comunicado técnico n° 196, 2p. Sete Lagoas, 2011.

Metodologia de análise do sistema radicular, em solo, de genótipos de sorgo selecionados previamente para eficiência no uso de fósforo. - Embrapa Milho e Sorgo, Circular técnica n° 158, 6p. Sete Lagoas, 2010.

Desenvolvimento de híbridos de sorgo sensíveis ao fotoperíodo visando alta produtividade de biomassa. - Embrapa Milho e Sorgo, Boletim de pesquisa e desenvolvimento n° 28, 25p. Sete Lagoas, 2010.

Desenvolvimento de um ensaio de discriminação alélica para caracterização de fatores regulatórios envolvidos com a expressão do gene de tolerância ao alumínio SbMATE em sorgo. - Embrapa Milho e Sorgo, Circular técnica n° 153, 5p. Sete Lagoas, 2010.

Características morfofisiológicas e de produção de seis genótipos de sorgo submetidos ao estresse hídrico. - Embrapa Milho e Sorgo. Boletim de pesquisa e desenvolvimento n° 22, 16p. Sete Lagoas, 2010.

A importância da lignina para a produção de etanol de Segunda geração. - Embrapa Milho e Sorgo. Documentos n° 108, 35P. Sete Lagoas, 2010.

**Table 10: Film**

Complementation of sugar cane with sweet sorghum in Brazil / Production and harvest of sweet sorghum (EMBRAPA)

This video is available from the website project at: [http://www.sweetfuel-project.eu/sweetfuel\\_events/complementation\\_of\\_sugar\\_cane\\_by\\_sweet\\_sorghum\\_in\\_brazil](http://www.sweetfuel-project.eu/sweetfuel_events/complementation_of_sugar_cane_by_sweet_sorghum_in_brazil)