

## Refereed journal articles

Aitken KS, Jackson PA, McIntyre CL, QTL identified for sugar related traits in a sugarcane (*Saccharum* spp.) cultivar x *S. officinarum* population. Theoretical and Applied Genetics, submitted

Aitken K, Jackson PA, McIntyre CL (2005) A combination of AFLP and SSR markers provides extensive map coverage and identification of homologous linkage groups in a sugarcane cultivar, Theoretical and Applied Genetics, 110:789-801

Cai Q, Aitken K, Fan YH, Piperidis G, Jackson PA, McIntyre CL, A preliminary assessment of the genetic relationship between *Erianthus rockii* and the "Saccharum complex" using microsatellite and AFLP markers. Euphytica, submitted

Cai Q, Aitken K, Deng HH, Chen XW, Cheng F, Jackson PA, Fan YH, McIntyre CL (2005) Verification of intergeneric hybrids (F1) from *Saccharum officinarum* x *Erianthus arundinaceus*, and BC1 from F1 x sugarcane (*Saccharum* spp.) clones using molecular markers. Journal of Plant Breeding, in press

Casu RE, Manners JM, Bonnett GD, Jackson PA, McIntyre CL, Dunne R, Chapman SC, Rae AL, Grof CPL (2005) Genomics approaches for the identification of genes determining important traits in sugarcane. Field Crops Research, 92:137-147

Iskandar HM, Simpson RS, Casu RE, Bonnett GD, Maclean DJ, Manners JM (2004) Comparison of reference genes for quantitative real time-PCR analysis of gene expression in sugarcane. Plant Molecular Biology Reporter, 22: 1-13

Lakshmanan P, Geijskes RJ, Aitken KS, Grof CPL, Bonnett GD, Smith RG (2005) Sugarcane biotechnology: the challenges and opportunities. In Vitro Plant Cellular and Developmental Biology - Plant, 41(4) in press

Ming R, Moore PH, Wu K, D'Hont A, Tew TL, Mirkov T E, da Silva J, Schnell RJ, Brumbley SM, Lakshmanan P, Jifon J, Rai M, Comstock JC, Glaszmann JC, Paterson AH (2005) Sugarcane improvement through breeding and biotechnology. Plant Breeding Reviews, in press

Rae AL, Grof CPL, Casu RE, Bonnett GD (2005) Sucrose accumulation in the sugarcane stem; pathways and control points for transport and compartmentation. Field Crops Research, 92: 159-168

Reffay N, Jackson PA, Aitken KS, Hoarau J-Y, D'Hont A, Besse P, McIntyre CL (2005) Characterisation of genome regions incorporated from an important wild relative into Australian sugarcane. Molecular Breeding, 15:367-381

Sutherland T, Horne I, Weir K, Coppin C, Williams M, Selleck M, Russell R, Oakeshott J (2004) Enzymatic bioremediation: from enzyme discovery to applications. Clinical and Experimental Pharmacology and Physiology, 31: 817-821

Sutherland T, Horne I, Weir K, Russell R, Oakeshott J (2004) Evaluation of the toxicity and residues associated with the isomers of the insecticide endosulfan. Reviews in Environmental Contamination and Toxicology, 182: 99-113

## Provisional patent

Sugar Industry Innovation, Vacuole targeting peptide and nucleic acid 24 December 2004

## Refereed conference papers

Aitken KS, Jackson PA, Piperidis G, McIntyre CL (2004) QTL identified for yield components in a cross between a sugarcane (*Saccharum* spp.) cultivar Q165<sup>®</sup> and a *S. officinarum* clone IJ76-514. Proceedings of the 4th International Crop Science Congress, 26 September, Brisbane, Australia

Bonnett GD, Casu RE, Rae AL, Grof CPL, Glassop D, McIntyre L, Manners JM (2004) Identification of genes contributing to high sucrose accumulation in sugarcane. Proceedings of the 4th International Crop Science Congress, 26 September- 10 October, Brisbane Australia

Bonnett GD, Hewitt ML, Salter B, Glassop D, Jackson PA, Foreman JW, Vickers JE, Grof CPL (2005) Townsville tall plant facility—examples of its application for sugarcane research. Proceedings of the 27th Australian Society of Sugarcane Technologists Conference, 3-6 May, Bundaberg, Australia

Brumbley SM, Purnell MP, Petrasovits LA, McQualter R, Fong Chong B, Meyer K, Van Dyk DE, O'Shea MG, Walton NJ, Nielsen LK, Viitanen PV (2004) Development of sugarcane as a biofactory for polymers. International Society of Biological Polyesters, 22 August, Tsinghua University, Beijing, China

Edye L, Doherty W, Blinco J, Bullock G (2005) The sugarcane biorefinery: energy crops and processes for the production of liquid fuels and renewable commodity chemicals. Proceedings of the 27th Australian Society of Sugarcane Technologists Conference, 3-6 May, Bundaberg, Australia

Manners JM, McIntyre CL, Casu RE, Cordeiro G, Jackson M, Aitken KS, Jackson PA, Bonnett GD, Lee S, Henry R (2004) Can genomics revolutionise genetics and breeding in sugarcane? Proceedings of the 4th International Crop Science Congress, 26 September-1 October, Brisbane, Australia

Renouf MA, Antony G, Wegener M (2005) Comparative environmental Life Cycle Assessment (LCA) of organic and conventional sugarcane growing in Queensland. Proceedings of the 27th Australian Society of Sugarcane Technologists Conference, 3-6 May, Bundaberg, Australia

Twine PH (2005) The sugarcane biofactory: building blocks for the future. Proceedings of the 27th Australian Society of Sugarcane Technologists Conference, 3-6 May, Bundaberg, Australia

Wegener MK, Grice J, Romanach LM, Paton S, Bonaventura P, Garrad S (2005) Attitudes to genetic engineering among sugar industry stakeholders in Australia. Proceedings of XXV International Society of Sugar Cane Technologists Conference, 30 January-4 February, Guatemala

### **Conference presentations/ posters**

Amouyal OI, Elliott FG, Jackson M, Cordeiro G, Casu RE, McIntyre CL, Henry RJ (2005) Development and use of SNP markers to verify gene haplotypes in sugarcane. Plant and Animal Genome XIII Conference. Workshop: International Consortium for Sugarcane Biotechnology (ICSB), 15-19 January, San Diego, California

Bonnett GD (2005) Systems biology: a framework and tools to aid variety development? Systems Biology Emerging Science Workshop, 15 March, Coffs Harbour, Australia

Cordeiro G, Elliott F, Amouyal O, McIntyre CL, Henry RJ (2005) Development of SNP markers for mapping and allelotyping in sugarcane. Plant and Animal Genome XIII Conference, 15-19 January, San Diego, California

Edye L, Doherty W, Simpson RS (2005) Industrial biomaterials and fuels from lignocellulosic biomass, development initiatives in Australia. 27th Symposium on Biotechnology for Fuels and Chemicals, 1-4 May, Denver, USA

Glassop D, Grof CPL, Roessner-Tunali U, Bacic T, Bonnett GD (2005) Sugarcane metabolomics – adding another level to understanding sugar accumulation. Proceedings of the 27th Australian Society of Sugarcane Technologists Conference, 3-6 May, Bundaberg, Australia

# publications & presentations

Grice J, Wegener MK, Romanach LM, Paton S, Bonaventura P, Garrad S (2004) The debate over biotechnology: Queensland sugar canegrowers' perceptions of GM Applications. XI World Congress of Rural Sociology 25-30 July, Trondheim, Norway

Joachimsthal EL, Nielsen LK (2004) A study on the media requirements and fermentation characteristics of *Streptococcus bovis* for lactic acid production. Fermentation and Bioprocessing Conference, 5-6 July, Brisbane, Australia

Park Y, Halley P, Doherty W (2005) Developing new lignin-based coatings and composites. 7th International Lignin Institute Forum, 27-28 April, Barcelona, Spain

Rae AL, Grof CPL, Smith FW, Casu RE, Bonnett GD, Manners JM (2004) Sucrose transport and accumulation in sugarcane. 13th International Workshop on Plant Membrane Biology, 6-10 July, Montpellier, France

Sutherland T, Horne I, Weir K, Coppin C, Williams M, Khurana J, Pandey G, Mourant R, Scott G, Garsia K, Speir F, Cheesman M, Russell R, Oakeshott J (2004) Enzymatic bioremediation: from enzyme discovery to field applications. 4th International Crop Science Congress, 26 September-1 October, Brisbane, Australia

## Industry/public presentations

Brumbley SM (2004) Sugarcane: a high biomass biofactory for a sustainable future. Sugarcane stakeholders, 26-30 July, Mossman to Mackay, Australia

Brumbley SM (2004) Sugarcane: a high biomass biofactory for a sustainable future. Australian Cane Farmers Association Conference, 27 October, Townsville, Australia

Brumbley SM (2004) Sugarcane as a biofactory. Major National Research Facilities Road Show, 11 October, Brisbane, Australia

Bonnett GD (2005) Biotechnology to increase sucrose content and diversify the sugar industry. CSIRO Plant Industry Staff, February, Canberra, Australia (webcast live to Adelaide, Brisbane, Perth)

Bonnett GD, Rae AL, Casu R, Aitken KS (2005) CRCSIIB research at the QLD Bioscience Precinct. Australian Sugar Milling Council, March, Brisbane, Australia

Casu RE, Rae AL, Grof CPL, Bonnett GD (2004) CRCSIIB research at the QLD Bioscience Precinct. Jan Jarratt, Member of Parliament for the Whitsundays, August, Brisbane Australia

Critchley C (2005) CRC for biotechnology in sugarcane. Australian Cane Farmers Association Conference, 23 May, Mackay, Australia

Edye L, Doherty W, Blinco J (2005) Regional Research Seminars - CRC biorefinery projects. Sugar mill employees, April, various locations in Qld and NSW

Grice J (2004) Social concerns and risk perceptions of biotechnology. Biotechnology 2020 forum, 7 November, Brisbane, Australia

Hermann S (2005) Sugarcane ecotilling. Australian CEQ Users, 14 March, Sydney, Australia

Jackson PA (2005) Presentation on introgression breeding and markers. Sugar industry representatives in the Burdekin, 24 February, Brandon, Australia

Karno, Bonnett GD, Lakshmanan P, Beveridge CA (2004) Relationships between plant architecture traits and how to break them. CSIRO Plant Industry, 13 October, Brisbane, Australia

Lakshmanan P (2005) An integrated molecular approach to improve N-use efficiency in sugarcane. Workshop for a strategic overview of nitrogen R&D in sugarcane, 22 February, Brisbane, Australia

Manners JM, Bonnett GD (2005) CRCSIIB Program 1 overview and tour of the QLD Bioscience Precinct. SRDC Board, March, Brisbane, Australia

Morris SE (2005) CRC for biotechnology in sugarcane, BSES Limited Central Field Day, 19-20 May, Mackay, Australia

Schmidt S (2005) Nitrogen use efficiency: from genotype to field. Workshop for a strategic overview of nitrogen R&D in sugarcane, 22 February, Brisbane, Australia

## **Presence at industry/public workshops**

Morris SE, Goosen D, Nielsen LK (2005) International Ethanol Conference 9-10 May, Brisbane, Australia