



PUBLICATIONS

We congratulate our researchers and managers on their continuing commitment

PUBLICATIONS FOR CRC SIIB FROM 1 JULY 2008 TO 30 JUNE 2009

REFEREED JOURNAL ARTICLES AND BOOKS/CHAPTERS

Bundock PC, Elliott FG, Ablett G, Benson AD, Casu RE, Aitken KS, Henry RJ (2009) Targeted SNP discovery in sugarcane using 454 sequencing. *Plant Biotechnology Journal* 7: 347-354.

Joyce P, Brumbley J, Wang LF, Lakshmanan P (2008) Tissue culture and biolistic transformation of new smut resistant sugarcane varieties. *Sugar Cane International* 26: 10-14.

Marcellin E, Chen W, Nielsen LK (2009) Microbial hyaluronic acid biosynthesis. In *Microbial Production of Biopolymers and Polymer Precursors*. B Rehm (Ed.), Caister Academic Press, Norfolk, UK: 163-180.

Chen, W.Y.*, Marcellin, E.*, Hung, J., Nielsen, L.K. (2009) Hyaluronan molecular weight is controlled by UDP-N-acetylglucosamine concentration in *Streptococcus zooepidemicus*. *J. Biol. Chem.* 284(27): 18007-18014.

Rae AL, Jackson MA, Nguyen CH, Bonnett GD (2009) Functional specialization of vacuoles in sugarcane leaf and stem. *Tropical Plant Biology* 2: 13-22.

Renouf MA, Wegener MK, Nielsen LK (2008) An environmental life cycle assessment comparing Australian sugarcane with US corn and UK sugar beet as producers of sugars for fermentation. *Biomass and Bioenergy* 32: 1144-1155.

REFEREED BOOKS AND BOOK CHAPTERS

Bonnett GD, Henry RJ (2009) *Saccharum*. In *Wealth of Wild Species: Role in Plant Genome Elucidation and Improvement* Volume 8: Wild Relatives of Industrial Crops. C Kole (Ed.), Springer.

Brumbley SM, Snyman SJ, Gnanasambandam A, Joyce P, Hermann SR, da Silva JAG, McQualter RB, Wang ML, Egan BT, Patterson AH, Albert HH, Moore PH (2008) Sugarcane. In *Compendium of Transgenic Crop Plants: Transgenic Sugar, Tuber and Fiber Crops*. C Kole and TC Hall (Eds), Blackwell Publishing, Oxford, UK, pp. 1-58.

CONFERENCE PAPERS AND PRESENTATIONS

Aitken K, Li J, Piperidis G, Jackson P (2009) Analysis of genetic diversity among a large population of *Saccharum spontaneum* L. clone from the world collection and its contribution to the genome of sugarcane cultivars. *Proceedings of the Australian Society of Sugar Cane Technologists* 31: 588.

Anderson D J, Gnanasambandam A, Williams E, O'Shea M G, Nielsen L K and Brumbley, S M (2008) Production of polyhydroxyalkanoate copolymers in sugarcane, International Symposium on Biological Polyesters Conference Sky City Convention Centre, Auckland, New Zealand, November 23 – 26 2008.

Boseley B, Casu R (2009) Development of an ontology to aid sugarcane research. *Proceedings of the Australian Society of Sugar Cane Technologists* 31: 250-255.

Brumbley S M (2008) The BioEconomy: Opportunities to grow Australia's Economy AusBiotech, Melbourne Convention Centre, Melbourne Australia, 26-29 October 2009.

PUBLICATIONS CONTINUED

Brumbley S M, Petrasovits L A, McQualter R A, Zhou L. and Nielsen L K (2008) Sugarcane: an industrial crop for the production of polyhydroxyalkanoates. ComBio 2008 National Convention Centre, Canberra, ACT Australia, 21-25 September 2008.

Casu RE, Grof CPL, Glassop DG, Iskandar HM, Perroux JM, Jarmey JM, Rae AL, Bonnett GD, Maclean DJ, Manners JM (2008) Can RNAi-mediated gene silencing effectively influence core metabolism in sugarcane? ComBio2008, 21-25 September, Canberra, Australia.

Eggington K (2008) An investigation of teacher-scientist collaborations. The University of Queensland School of Education Postgraduate Research Conference, St Lucia, Australia.

Glassop D, Rae AL, Casu RE, Grof CPL (2008) What is the role of sucrose transporter ShSUt1 in sugarcane? ComBio2008, 21-25 September, Canberra, Australia.

Hilton A (2009) Educating students about sugarcane biomaterials. *Proceedings of the Australian Society of Sugar Cane Technologists* 31: 594.

Hilton A (2009) Effective strategies for enhancing students' representational competence in chemistry. Conference of the Science Teachers' Association of Queensland, Townsville, Australia.

Hilton A (2008) From macroscopic to molecular – Using ICTs in the chemistry classroom. Conference of the National Science Teachers' Association, 6-9 July, Gold Coast, Australia.

Hilton A, Nichols K (2008) Writing-to-learn using digital technologies in chemistry: The influence of multimodal text production on higher order thinking. European Association of Research in Learning and Instruction Practitioner-Based Research Conference, 26-28 November, Bergen, Norway.

Hilton A, Nichols K, Gitsaki C (2008) Scaffolding chemistry students' learning within the context of emerging scientific research themes through laboratory inquiry. Australian Association for Research in Education Conference, 30 November-4 December, Brisbane, Australia.

Hilton A, Nichols K, Gitsaki C (2008) Using digital resources to scaffold chemistry students' learning during laboratory investigations. Australasian Science Education Research Association Conference, 3 July, Brisbane, Australia.

Hilton A, Nichols K, Gitsaki C (2008) Writing-to-learn in high school chemistry: Multimodal text production and its effect on students' representational competence. International Conference on Educational Research and Innovation, 17-19 November, Madrid, Spain.

Hodoniczky J, Kappler U, Haritos V, Bonnett G, Manners J, Rae A (2008) Alternative sugars for food applications. ComBio2008, 21-25 September, Canberra, Australia.

Kanasa H, Nichols K (2009) Education of sugarcane biotechnology in schools: Addressing school students' knowledge of and attitudes towards GM crops. *Proceedings of the Australian Society of Sugar Cane Technologists* 31.

Kanasa H, Nichols K (2009) Changes in the scientific literacy of year 8 students, in relation to biotechnology, after completing an inquiry-based unit. National Association of Research in Science Teaching Conference, 17-21 April, Orange Grove, CA, USA.

Kanasa H, Nichols K (2008) Addressing emerging science and technology issues: Raising the scientific literacy skills of middle years students in Queensland schools. Australian Association for Research in Education Conference, 30 November-4 December, Brisbane, Australia.

Kanasa H, Nichols K (2008) Changes in the scientific literacy of middle years students, in relation to biotechnology after completing an inquiry-based unit. Australasian Science Education Research Association Conference, 5 July, Brisbane, Australia.

PUBLICATIONS CONTINUED

Kanasa H, Nichols K, Wright T, Geelan D (2008) Should Australia grow GM crops? Changes in the attitudes of middle years students, in relation to biotechnology, after completing an inquiry-based unit. Australasian Science Education Researchers Conference, 3-5 July, Brisbane, Queensland, Australia.

McQualter R B, Somleva M N, Xuemei L, Petrasovits L, Zhao L, Snell K D, Nielsen L K and Brumbley S M (2008) Immunolocalisation of PHB biosynthesis enzymes in the leaves of transgenic sugarcane plants. International Symposium on Biological Polyesters Conference 2008 Sky City Convention Centre, Auckland, New Zealand, 23 - 26 November 2008.

Olivares-Villegas JJ, Berding N, Morgan T, Powell RP, Bonnett GD (2008) Determining the hybridisation potential of sugarcane for the managed deployment of genetically-modified cultivars. 10th International Symposium on the Biosafety of Genetically Modified Organisms. Biosafety Research: Past Achievements and Future Challenges, 16-21 November, Wellington, New Zealand.

Petrasovits LA., Zhao L, McQualter R B, Snell K D, Nielsen L K and Brumbley S M (2008) Development of a pre-glasshouse selection system for PHB-producing sugarcane and establishment of a high throughput transformation system. International Symposium on Biological Polyesters Conference 2008 Sky City Convention Centre, Auckland, New Zealand, 23-26 November 2008.

Rae A, Hodoniczky J, Morris C, Manners J, Bonnett G (2009) Alternative sugars for food applications. *Proceedings of the Australian Society of Sugar Cane Technologists* 31: 590.

Rae AL, O'Shea MG, Jackson PA, Bonnett GD (2008) Sugarcane cell walls as a feedstock for biomass utilisation. ComBio2008, 21-25 September, Canberra, Australia.

Robinson N, Gamage H, Whan A, Vinall K, Fletcher A, Brackin R, Holston J, Lakshmanan P, Schmidt S (2009) Evidence of differences in nitrogen use efficiency in sugarcane genotypes. *Proceedings of the Australian Society of Sugar Cane Technologists* 31: 256-264.

Tilbrook K, Gnanasambandam A, Schenk P and Brumbley S M (2008) Peroxisomal PHB production in plants. International Symposium on Biological Polyesters Conference 2008 Sky City Convention Centre, Auckland, New Zealand, 23-26 November 2008.

WORKSHOP PRESENTATIONS

Eggington K (2009) How can scientists help you? Education Queensland Emerging Technology Workshop, 2 June, St Lucia, Australia.

Hilton A (2009) Helping students over misconceptions: Some strategies and resources. Education Queensland Emerging Technologies Workshop, 2 June, St Lucia, Australia.

Kanasa H (2009) Changes in the scientific literacy of middle years students, in relation to biotechnology, after completing an inquiry-based unit. Education Queensland Emerging Technology Workshop, 2 June, St Lucia, Australia.

Kanasa H (2009) Creating an inquiry-based science unit in 10 easy steps. Conference of the National Science Teachers' Association of Queensland, 1-5 June, Townsville, Australia.

Kanasa H (2008) Scaffolding ethical considerations in a middle years inquiry-based unit on 'Should Australia grow GM crops?' Conference of the National Science Teachers' Association, 6-9 July, Gold Coast, Australia.

Morris SE (2009) Negotiating for authorship. The University of Queensland's Graduate Student Week and Staff Development Program, April and May, St Lucia, Australia.

Morris SE (2008) Negotiating for authorship. The University of Queensland's Graduate Student Week and Staff Development Program, September and November, St Lucia, Australia.

Morris SE (2008) Negotiating for authorship. The University of Queensland's Centre for Nutrition and Food Sciences monthly research meeting, July, St Lucia, Australia.

**Joint first authors*