

Publications for Sarah Purdy

2017

Purdy, S., Maddison, A., Nunn, C., Winters, A., Timms-Taravella, E., Jones, C., Clifton-Brown, J., Donnison, I., Gallagher, J. (2017). Could Miscanthus replace maize as the preferred substrate for anaerobic digestion in the United Kingdom? Future breeding strategies. *GCB Bioenergy*, 9(6), 1122-1139. [More Information]

Maddison, A., Camargo-Rodriguez, A., Scott, I., Jones, C., Elias, D., Hawkins, S., Massey, A., Clifton-Brown, J., McNamara, N., Donnison, I., et al (2017). Predicting future biomass yield in Miscanthus using the carbohydrate metabolic profile as a biomarker. *GCB Bioenergy*, 9(7), 1264-1278. [More Information]

Davey, C., Jones, L., Squance, M., Purdy, S., Maddison, A., Cunniff, J., Donnison, I., Clifton-Brown, J. (2017). Radiation capture and conversion efficiencies of Miscanthus sacchariflorus, M. sinensis and their naturally occurring hybrid M. x giganteus. *GCB Bioenergy*, 9(2), 385-399. [More Information]

2016

Cerasuolo, M., Richter, G., Richard, B., Cunniff, J., Girbau, S., Shield, I., Purdy, S., Karp, A. (2016). Development of a sink-source interaction model for the growth of short-rotation coppice willow and in silico exploration of genotypexenvironment effects. *Journal of Experimental Botany*, 67(3), 961-977. [More Information]

2015

Ireland, G., Petropoulos, G., Carlson, T., Purdy, S. (2015). Addressing the ability of a land biosphere model to predict key biophysical vegetation characterisation parameters with Global Sensitivity Analysis. *Environmental Modelling and Software*, 65, 94-107. [More Information]

Cunniff, J., Purdy, S., Barraclough, T., Castle, M., Maddison, A., Jones, L., Shield, I., Gregory, A., Karp, A. (2015). High yielding biomass genotypes of willow (Salix spp.) show differences in below ground biomass allocation. *Biomass and Bioenergy*, 80, 114-127. [More Information]

Purdy, S., Maddison, A., Cunniff, J., Donnison, I., Clifton-Brown, J. (2015). Non-structural carbohydrate profiles and ratios between soluble sugars and starch serve as indicators of productivity for a bioenergy grass. *AoB Plants*, 7(1), 1-12. [More Information]

Purdy, S., Cunniff, J., Maddison, A., Jones, L., Barraclough, T., Castle, M., Davey, C., Jones, C., Shield, I., et al (2015). Seasonal Carbohydrate Dynamics and Climatic Regulation of Senescence in the Perennial Grass, Miscanthus. *BioEnergy Research*, 8(1), 28-41. [More Information]

2013

Cerasuolo, M., Richter, G., Cunniff, J., Purdy, S., Shield, I., Karp, A. (2013). A pseudo-3D model to optimise the target traits of light interception in short-rotation coppice willow. *Agricultural and Forest Meteorology*, 173, 127-138. [More Information]

Clifton-Brown, J., Robson, P., Davey, C., Farrar, K., Hayes, C., Huang, L., Jensen, E., Jones, L., Hinton-Jones, M., Maddison, A., et al (2013). Breeding Miscanthus for Bioenergy. *Bioenergy Feedstocks: Breeding and Genetics*, (pp. 67-81). Ames: John Wiley & Sons. [More Information]

Purdy, S., Maddison, A., Jones, L., Webster, R., Andralojc, J., Donnison, I., Clifton-Brown, J. (2013). Characterization of chilling-shock responses in four genotypes of Miscanthus reveals the superior tolerance of M. x giganteus compared with M. sinensis and M. sacchariflorus. *Annals of Botany*, 111(5), 999-1013. [More Information]

Purdy, S., Bussell, J., Nunn, C., Smith, S. (2013). Leaves of the Arabidopsis maltose exporter1 Mutant Exhibit a Metabolic Profile with Features of Cold Acclimation in the Warm. *PLoS One*, 8(11), 1-12. [More Information]

2011

Purdy, S., Bussell, J., Nelson, D., Villadsen, D., Smith, S. (2011). A nuclear-localized protein, KOLD SENSITIV-1, affects the expression of cold-responsive genes during prolonged chilling in Arabidopsis. *Journal of Plant Physiology*, 168(3), 263-269. [More Information]

2009

Wingler, A., Purdy, S., Edwards, S., Chardon, F., Masclaux-Daubresse, C. (2009). QTL analysis for sugar?regulated leaf senescence supports flowering-dependent and -independent senescence pathways. *New Phytologist*, 185(2), 420-433. [More Information]

2005

Diaz, C., Purdy, S., Christ, A., Morot-Gaudry, J., Wingler, A., Masclaux-Daubresse, C. (2005). Characterization of markers to determine the extent and variability of leaf senescence in Arabidopsis. A metabolic profiling approach. *Plant Physiology*, 138, 898-908. [More Information]