

Andrew John Harvey



Assistant Professor

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Research Interest

Synthesis, modification, and degradation of plant cell walls.

Heterologous expression of cell wall related genes.

Enzymatic characterization of cell wall modifying enzymes.

Genes involved in abiotic stress response in plants.

Biography

BSc(Hons): LaTrobe University, Australia 1993

Phd. University of Adelaide, Australia 2001

Selected Papers

1. Schwerdt JG, MacKenzie K, Wright F, Oehme D, Wagner JM, Harvey AJ, Shirley NJ, Burton RA, Schreiber M, Halpin C, Zimmer J, Marshall DF, Waugh R, and Fincher, GB. 2015 Evolutionary Dynamics of the Cellulose Synthase Gene Superfamily in Grasses. *PLANT PHYSIOLOGY* 168 (3): 968-983
2. **Harvey AJ**, Kaewthai N, Hrmova M, Brumer H, Ezcurra I, Teeri TT, and Fincher GB. 2010 Heterologous expression of diverse barley XTH genes in the yeast *Pichia pastoris*. *PLANT BIOTECHNOLOGY* 27(3): 251-258
3. Burton RA, Wilson SM, Hrmova M, **Harvey AJ**, Shirley NJ, Medhurst A, Stone BA, Newbiggin EJ, Bacic A, and Fincher GB. 2006 Cellulose Synthase-like CslF Genes Mediate the Synthesis of Cell Wall (1,3;1,4)- β -D-Glucans. *SCIENCE* 311 (5769): 1832-1943
4. **Harvey AJ**, Hrmova M, Fincher GB. 2001 Regulation of genes encoding beta-D-glucan glucohydrolases in barley (*Hordeum vulgare*). *PHYSIOLOGIA PLANTARUM* 113 (1): 108-120.
5. **Harvey AJ**, Hrmova M, De Gori R, Varghese JN, Fincher GB. 2000 Comparative modeling of the three-dimensional structures of family 3 glycoside hydrolases. *PROTEINS* 41(2):257-69.

Courses

Fall: CHEM205 Intro.to Org. Chem. And Biomacromol.

GBE341 Techniques in Genetic Engineering

Spring: CHEM205 Intro.to Org. Chem. And Biomacromol.

GBE341 Techniques in Genetic Engineering

GBE342 Techniques in Genetic Engineering II

GBE356 Plant Genetics

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