

## Waite Research Institute Publications – 2019

### Books and Book Chapters

- Bastian SE, Danner L, Niimi J, Ristic R & Johnson T (2019). Alcoholic beverages in context. In: Meiselman HL (ed.), *Context: The Effects of Environment on Product Design and Evaluation*. United Kingdom: Woodhead Publishing Limited, pp. 605-630.
- Bayer M, Morris J, Booth C, Booth A, Uzrek N, Russell J, Waugh R & Hedley P (2019). Exome capture for variant discovery and analysis in barley. In: Harwood WA (ed.) *Barley: Methods and Protocols*. Switzerland: Springer, pp. 283-310.
- Cargill M (2019). The value of writing for Publication Workshops. In: Habibie P & Hyland K (eds.) *Novice Writers and Scholarly Publication: Authors, Mentors, Gatekeepers*. Cham, Switzerland: Palgrave Macmillan, pp. 195-213.
- Gu W, Zhang D, Qi Y & Yuan Z (2019). Generating photoperiod-sensitive genic male sterile rice lines with CRISPR/Cas9. In: Qi Y (ed.) *Plant Genome Editing with CRISPR Systems: Methods and Protocols*. USA: Humana Press, pp. 97-107.
- Li Y & Cargill M (2019). Seeking supervisor collaboration in a School of Sciences at a Chinese university. In Hyland K & Wong LL (Eds.), *Specialised English New Directions in ESP and EAP Research and Practice* (1st ed). London and New York: Routledge, pp. 240-252.
- Li Y & Cargill M (2019). Observing and Reflecting in an ERPP "Master Class": Learning and Thinking About Application. In: Corcoran JN, Englander K & Muresan LM (eds.), *Pedagogies and Policies for Publishing Research in English Local Initiatives Supporting International Scholars*. New York and London: Routledge, pp. 143-160.
- Mittmann S, Arrieta M, Ramsay L, Waugh R & Colas I (2019). Preparation of barley pollen mother cells for confocal and super resolution microscopy. In: Harwood WA (ed.) *Barley - Methods and Protocols*. Switzerland: Springer, pp. 167-179.
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- Okada T & Whitford R (2019). Hybrid Wheat and Abiotic Stress. In: Rajpal V, Sehgal D, Kumar A & Raina S (eds.) *Genomics Assisted Breeding of Crops for Abiotic Stress Tolerance*, Vol. II. Cham, Switzerland: Springer, pp. 211-224.
- Santandreu Calonge D, Aman Shah M, Riggs K & Cavanagh T (2019). Using Learning Analytics to improve engagement, learning and design of Massive Open Online Courses. In: Walters K & Henry P (eds.) *Fostering Multiple Levels of Engagement in Higher Education Environments*. USA: IGI Global, pp. 76-107.
- Shahinnia F, Tricker P, Hajirezaei MR & Chen Z (2019). Genetics and Genomics of Stomatal Traits for Improvement of Abiotic Stress Tolerance in Cereals. In: Rajpal V (ed.) *Genomics Assisted Breeding of Crops for Abiotic Stress Tolerance*, Vol. II. Cham, Switzerland: Springer, pp. 1-20.

Simpson C, Fuller J, Rapazote-Flores P, Mayer C, Calixto C, Milne L, Hedley P, Booth C, Waugh R & Brown J (2019). High-resolution RT-PCR analysis of alternative barley transcripts. In: Harwood WA (ed.) *Barley - Methods and Protocols*. Switzerland: Springer, pp. 269-281.

## Conference Proceedings and Presentations

Baird RJ, Rivers C, Coqui Da Silva R, Degryse JL & McLaughlin MJ (2019). Effect of granulation additives on the hardness and surface abrasion of fertilizer granules. *9th International Granulation Workshop* – Lausanne, Switzerland. Lausanne, Switzerland.

Barua R, Boutsalis P, Malone J, Gill G & Preston C (2019). Incidence of multiple herbicide resistance in winter grass (*Poa annua*) across south-eastern Australia. *The 27th Asian-Pacific Weed Science Society Conference*, 3-6 September 2019, Sarawak, Malaysia.

Dibley K, Milne R, Belide S, Schnippenkoetter W, Bose J, Ashton A, Ryan P, Odeny D, Nikkiema Z, Zhou B, Jordan D, Mengiste T, Tyerman S & Lagudah E (2019). Applying recent developments in our understanding of Lr67 function to identify new sources of broad-spectrum disease resistance in cereals. *18th Congress of International Society for Molecular Plant Microbe Interactions (IS-MPMI)*, 14-18 July 2019, Glasgow, Scotland.

Ferrante A, Biddulph B & Able JA (2019). Evaluating wheat, barley and oats for early sowing under frost-prone field condition in Southern Australia. *Proceedings of the 19th Australian Agronomy Conference (AAC 2019)*, 25-29 August 2019, Wagga Wagga, NSW, Australia.

Ferrante A, Cossani C, Able J & Sadras V (2019). Yield and spike fertility in a historic set of wheat cultivars in response to frost. *The 1st International Wheat Congress*, 21-26 July 2019, Saskatoon, Saskatchewan, Canada.

Ferrante A, Cossani CM, Able JA & Sadras VO (2019). Assessing frost damage in a set of historic wheat varieties using a passive heating system. *19th Australian Agronomy Conference (AAC 2019)*, 25-29 August 2019, Wagga Wagga, NSW, Australia.

Gao C, Liu G, McPhee A, Miller J & Gibson R (2019). Developing a micro-sampling system for analysing breast milk fat composition from dried milk spot. *23rd Congress of the Perinatal Society of Australia and New Zealand (PSANZ)*, 17-20 March 2019, Gold Coast, Australia.

Henares B, Syme R, Debler J, Farfan-Caceres L, Grime C, Blake S, Davidson J, Oliver R, Singh K & Lee R (2019). Identification and characterization of putative effectors from *Ascochyta lentis*. *18th Congress of the International Society for Molecular Plant-Microbe Interactions (IS-MPMI)*, 14-18 July 2019, Glasgow, Scotland.

Kabiri S, Baird RJ, Andelkovic I, Coqui Da Silva R, Degryse JL, Losic D & McLaughlin MJ (2019). Using graphene or graphene oxide to improve the physical quality of granulated fertilizers. *9th International Granulation Workshop*, 26-28 June 2019, Lausanne, Switzerland.

Koskela S, Wang S, Yang X, Li K, Srivastava V, McKee L, Berglund L, Bulone V & Zhou Q (2019). Enzyme-assisted preparation of nanocellulose from wood holocellulose fibers. National Meeting of the American-Chemical-Society (ACS), 31 March – 4 April 2019, Orlando, Florida, USA.

Kostecki R, Zhang B, El Habti A, Arman A, Hutchinson M, Tricker P, Fleury D, Narayan R & Ebendorff-Heidepriem H (2019). Optical fiber based in-vivo oxidative stress biosensor. *Australia and New Zealand Conference on Optics and Photonics (ANZCOP)*, 8-12 December 2019, Melbourne, Australia.

Kostecki R, Zhang B, El Habti A, Arman A, Hutchinson M, Tricker P, Fleury D, Narayan R & Ebendorff-Heidepriem H (2019). Reversible protein carbonylation in-vivo biosensor. *Optical Sensors and Sensing Congress 2019*, 25-27 June 2019, San Jose, California, USA.

Laveau C, Mary S, Darrietort G, Audeguin L, Van Helden M & Van Leeuwen C (2019). Impact of Tomato Black Ring Virus (TBRV) on quantitative and qualitative features of *Vitis vinifera* L. Cv. Merlot and Cabernet franc. *21st GIESCO International Meeting*, 23-29 June 2019, Thessaloniki, Greece.

Li X, Nguyen L, Hill K, Ebendorff-Heidepriem H, Schartner E, Zhao Y, Zhou X, Zhang Y & Warren-Smith S (2019). Picoliter real-time quantitative polymerase chain reaction (qPCR) in an all-fiber system. *Asia Communications and Photonics Conference (ACP)*, 2-5 November 2019, Chengdu, China.

Liu H, Bruning B, Berger B & Garnett T (2019). Green plant segmentation in hyperspectral images using SVM and hyper-hue. *7<sup>th</sup> International Workshop on Image Analysis Methods for the Plant Sciences (IAMPS)*. 4-5 July 2019, Lyon, France.

Milne R, Dibley K, Bose J, Ashton A, Ryan P, Tyerman S & Lagudah E (2019). Understanding the wheat Lr67 multipathogen resistance gene: A novel gain of function underpins resistance. *18th Congress of International Society for Molecular Plant-Microbe Interactions (IS-MPMI)*, 14-18 July 2019, Glasgow, Scotland.

Pisaniello AD, King P, Di Bartolo BA, Liu G, Gibson RA, Tan JT, Bursill CA, Psaltis P & Nicholls S (2019). Impact of fish oil supplementation on acute vascular inflammation in healthy volunteers. *68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)*, 16-18 March 2019 New Orleans, USA.

Sams B, Bramley R, Pagay V, Sanchez L, Ford C & Dokoozlian N (2019). Can mapping of within-vineyard variability be facilitated using data from multiple vineyards? *European Conference on Precision Agriculture (ECPA)*, 8-11 July 2019, Montpellier, France.

Takano H, Beffa R, Preston C, Westra P & Dayan F (2019). Reactive oxygen species trigger the fast action of glufosinate. *ACS Fall National Meeting and Exposition*. 25-29 August 2019, San Diego, CA: American Chemical Society.

Tang J, Petrie P & Whitty M (2019) Low-Cost Filter Selection from Spectrometer Data for Multispectral Imaging Applications. *6th IFAC Conference on Sensing, Control and Automation Technologies for Agriculture AGRICONTROL 2019*. 4-6 December 2019, Sydney, Australia, 277-282.

Wilkinson K, McNamara I, Riggs K & Wilson D (2019). Using learning analytics to evaluate course design and student behavior in an online foundations of Wine Science Course. *8<sup>th</sup> International Conference on Learning Analytics & Knowledge*, 2018 Sydney, Australia. Society for Learning Analytics Research.

Wohlfahrt Y, Collins C & Stoll M (2019). Grapevine bud fertility under conditions of elevated carbon dioxide. *21st GIESCO International Meeting*, 23-29 June 2019, Thessaloniki, Greece.

## Journal Articles

- Abdulkareem M, Kimber R & Scott E (2019). Interactions between *Ascochyta fabae* and *Cercospora zonata*, fungal pathogens of faba bean. *Australasian Plant Pathology*, 48: 271-280.
- Abebe Z, Tariku A, Bikes GA, Wassie MM, Gonete KA, Awoke T, Gebeye E, Gete AA, Yesuf ME, Kebede Y, Alemu K, Addis A, Muhammad EA, Abebe SM, Kasahun Belew A, Hunegnaw MT, Fentie M, Kebede A & Muchie KF (2019). Poor child complementary Feeding Practices in northwest Ethiopia: Finding from the Baseline Survey of Nutrition Project, 2016. *Italian Journal of Pediatrics*, 45: 154.
- Able A (2019). Agricultural education symposium: Growing the future: June 21-22, 2018 Waite Campus. *International Journal of Innovation in Science and Mathematics Education*, 27: 1-1.
- Able A, Grbin P, Schmidtke L, Blackman J, Needs S, Kennedy U & Wilkinson K (2019). Development of technical wine assessment skills in tertiary students. *International Journal of Innovation in Science and Mathematics Education*, 27: 47-66.
- Akomeah B, Quain M, Ramesh S, Anand L & Rodríguez López C (2019). Common garden experiment reveals altered nutritional values and DNA methylation profiles in micropropagated three elite Ghanaian sweet potato genotypes. *PLoS ONE*, 14(4): e0208214.
- Alahmad S, El Hassouni K, Bassi F, Dinglasan E, Youssef C, Quarry G, Aksoy A, Mazzucotelli E, Juhász A, Able J, Christopher J, Voss-Fels K & Hickey L (2019). A major root architecture QTL responding to water limitation in durum wheat. *Frontiers in Plant Science*, 10:436.
- Aljaadi A, How R, Loh S, Hunt S, Karakochuk C, Barr S, Mcanena L, Ward M, McNulty H, Khor G, Devlin A & Green T (2019). Suboptimal Biochemical Riboflavin Status Is Associated with Lower Hemoglobin and Higher Rates of Anemia in a Sample of Canadian and Malaysian Women of Reproductive Age. *Journal of Nutrition*, 149: 1952-1959.
- Amalraj A, Taylor J, Bithell S, Li Y, Moore K, Hobson K & Sutton T (2019). Mapping resistance to Phytophthora root rot identifies independent loci from cultivated (*Cicer arietinum* L.) and wild (*Cicer echinospermum* P.H. Davis) chickpea. *Theoretical and Applied Genetics*, 132: 1017-1033.
- Amalraj A, Taylor J & Sutton T (2019). A hydroponics based high throughput screening system for Phytophthora root rot resistance in chickpea (*Cicer arietinum* L.). *Plant Methods*, 15: 82.
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- Amthor J, Bar-Even A, Hanson A, Millar A, Stitt M, Sweetlove L & Tyerman S (2019). Engineering strategies to boost crop productivity by cutting respiratory carbon loss. *Plant Cell*, 31(2): 297-314.
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- Andi S, Gholami M, Ford C & Maskani F (2019). The effect of light, phenylalanine and methyl jasmonate, alone or in combination, on growth and secondary metabolism in cell suspension cultures of *Vitis vinifera*. *Journal of Photochemistry and Photobiology B: Biology*, 199: 111625-111625.

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Avestan S, Ghasemnezhad M, Esfahani M & Byrt C (2019). Application of nano-silicon dioxide improves salt stress tolerance in strawberry plants. *Agronomy*, 9(5): 246.

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Avramova M, Grbin P, Borneman A, Albertin W, Masneuf-Pomarède I & Varela C (2019). Competition experiments between *Brettanomyces bruxellensis* strains reveal specific adaptation to sulfur dioxide and complex interactions at intraspecies level. *FEMS yeast research*, 19(3): foz010.

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## Plant Breeder's Rights

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