

Review

- Perennial wheat: a review of environmental and agronomic prospects for development in Australia
Lindsay W. Bell, Len J. Wade, Mike A. Ewing

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Crop/pasture improvement

- Coincident quantitative trait loci effects for dormancy, water sensitivity and malting quality traits in the BCD47 × Baronesse barley mapping population
Ariel Julio Castro, Andrea Benitez, Patrick M. Hayes, Luis Viega, Les Wright

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- Biplot analysis for multi-environment trials of maize (*Zea mays* L.) hybrids in Iran
Saeed Safari Dolatabad, Rajab Choukan, Eslam Majidi Hervan, Hamid Dehghani

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Crop/pasture protection

- Taxonomic and pathogenic characteristics of a new species *Aphanomyces trifolii* causing root rot of subterranean clover (*Trifolium subterraneum*) in Western Australia
Tiernan A. O'Rourke, Megan H. Ryan, Hua Li, Xuanli Ma, Krishnapillai Sivasithamparam, Jamshid Fatehi, Martin J. Barbetti

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Crop/pasture agronomy and physiology

- Photoperiod and vernalization gene effects in southern Australian wheat
H. A. Eagles, Karen Cane, Haydn Kuchel, G. J. Hollamby, Neil Vallance, R. F. Eastwood, N. N. Gororo, P. J. Martin

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- Relationship between yield, carbon isotope discrimination and stem carbohydrate concentration in spring wheat grown in Ningxia Irrigation Region (North-west China)
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- Progress and perspectives for carotenoid accumulation in selected Triticeae species
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- Pulse crops in rotation with cereals can be a profitable alternative to nitrogen fertiliser in central Queensland
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- Regional differences in tree–crop competition due to soil, climate and management
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