

Grain

Bread wheat performance, fusarium head blight incidence and weed infestation response to low-input conservation tillage systems in eastern Canada

H. Munger, A. Vanasse, S. Rioux, and A. Légère 193–201

Biological nitrogen fixation and *nifH* gene expression in dry beans (*Phaseolus vulgaris* L.)

Z. Akter, B. B. Pageni, N. Z. Lupwayi, and P. M. Balasubramanian 203–212

Forage

Timothy yield and nutritive value with a three-harvest system under the projected future climate in Canada

Q. Jing, G. Bélanger, B. Qian, and V. Baron 213–222

Molecular Biology

Fungal endophyte colonization coincides with altered DNA methylation in drought-stressed wheat seedlings

M. Hubbard, J. J. Germida, and V. Vujanovic 223–234

Analysis and integration of microarray data of *Arabidopsis* mutants

Daxiang Zhou, Renhua Liu, and Shu Xiong 235–243

QTL analysis of soybean oil content under 17 environments

Z. Qi, X. Han, M. Hou, D. Xin, Z. Wang, R. Zhu, Z. Hu, H. Jiang, C. Li, C. Liu, G. Hu, and Q. Chen 245–261

Pear *IAA1* gene encoding an auxin-responsive Aux/IAA protein is involved in fruit development and response to salicylic acid

H. Shi, Y. Wang, Z. Li, D. Zhang, Y. Zhang, D. Xiang, Y. Li, and Y. Zhang 263–271

Fruit

Effects of long-term simulated microgravity on tomato seedlings

D. Xu, S. Guo, and M. Liu 273–280

The effect of organic mulches and mycorrhizal substrate on growth, yield and quality of Gold Milenium apples on M.9 rootstock

L. Sas-Paszt, K. Pruski, E. Żurawicz, B. Sumorok, E. Derkowska, and S. Głuszek 281–291

Vegetable

Genetic and gene expression analysis of *dm1*, a dwarf mutant from *Cucurbita maxima* Duch. ex Lam, based on the AFLP method

R. Wang, H. Huang, Y. Lin, Q. Chen, Z. Liang, and T. Wu 293–302

Response of greenhouse-grown bell pepper (*Capsicum annuum* L.) to variable irrigation

O. Aladenola and C. Madramootoo 303–310

Plant Pathology

The effect of seed size, seed treatment, seeding date and depth on Rhizoctonia seedling blight of canola

S. F. Hwang, H. U. Ahmed, G. D. Turnbull, B. D. Gossen, and S. E. Strelkov 311–321

Weed Science

Chemical composition and antibacterial activities of *Juniperus horizontalis* essential oil

T. Eryiğit, N. Okut, K. Ekici, and B. Yildirim 323–327

Other

Use of NBPT and ammonium thiosulphate as urease inhibitors with varying surface placement of urea and urea ammonium nitrate in production of hard red spring wheat under reduced tillage management

C. A. Grant 329–335

***Ascophyllum* extract application can promote plant growth and root yield in carrot associated with increased root-zone soil microbial activity**

M. Z. Alam, G. Braun, J. Norrie, and D. M. Hodges 337–348

Assessment of winter wheat (*Triticum aestivum* L.) grown under alternate furrow irrigation in northern China: Grain yield and water use efficiency

D.-Y. Jia, X.-L. Dai, H.-W. Men, and M.-R. He 349–359

Determination of optimal harvest boundaries for Honeycrisp™ fruit using a new chlorophyll meter

J. DeLong, R. Prange, P. Harrison, D. Nichols, and H. Wright 361–369

Comparative yield, disease resistance and response to fungicide for forty-five historic Canadian wheat cultivars

G. Martens, L. Lamari, A. Grieger, R. H. Gulden, and B. McCallum 371–381

Time-course accumulation of flavonoids in hydroponically grown <i>Achillea millefolium</i> L. K. Pedneault, M. Dorais, S. Léonhart, P. Angers, and A. Gosselin	383–395	Cultivar Descriptions	
		Prairie Thunder flax S. D. Duguid, K. Y. Rashid, and E. O. Kenaschuk	445–449
Phenotypic traits and diversity of different leaf shape accessions of the wild soybean (<i>Glycine soja</i> Sieb. et Zucc.) in China X. Yan, H. Zhao, X. Liu, Q. Li, Y. Wang, C. Yuan, and Y. Dong	397–404	CDC Glas oilseed flax H. M. Booker, G. G. Rowland, and K. Y. Rashid	451–452
Combining resistance to common bacterial blight, anthracnose, and bean common mosaic virus into Manitoba-adapted dry bean (<i>Phaseolus vulgaris</i> L.) cultivars J. G. Boersma, R. L. Conner, P. M. Balasubramanian, A. Navabi, K. Yu, and A. Hou	405–415	HYHEAR 1 hybrid Roundup Ready™ high erucic acid, low glucosinolate summer rape P. B. E. McVetty, J. L. Cuthbert, V. Marwede, W. Paulmann, O. Sass, R. W. Duncan, W. G. D. Fernando, G. Li, and C. D. Zelmer	453–455
Antibacterial activity of northern Ontario medicinal plant extracts H. M. Hassan, Z.-H. Jiang, C. Asmussen, E. McDonald, and W. Qin	417–424	AAC Stern soybean K. Yu, L. Woodrow, and V. Poysa	457–459
Nitrogen form, time and rate of application, and nitrification inhibitor effects on crop production R. E. Karamanos, K. Hanson, and F. C. Stevenson	425–432	CTH8 flue-cured tobacco hybrid G. A. Amankwa, S. Mishra, A. D. Shearer, R. Brammall, and D. L. Van Hooren	461–463
Real differences – A lesson from an agronomist’s perspective R. E. Karamanos, D. N. Flaten, and F. C. Stevenson	433–437	AAC Mirabel barley T. M. Choo, R. A. Martin, A. Xu, D. MacDonald, P. Scott, J. Rowsell, Y. Dion, and S. Rioux	465–468
Measurement of the influence of low water availability on the productivity of <i>Agave weberi</i> cultivated under controlled irrigation S. J. Bergsten and J. R. Stewart	439–444	CDC WM-2 common bean K. E. Bett, A. Vandenberg, S. Banniza, Q. Lu, B. Barlow, and S. Ife	469–471
		2013 Outstanding Reviewers and Associate Editors	473–475
		Acknowledgement of Reviewers	477–479