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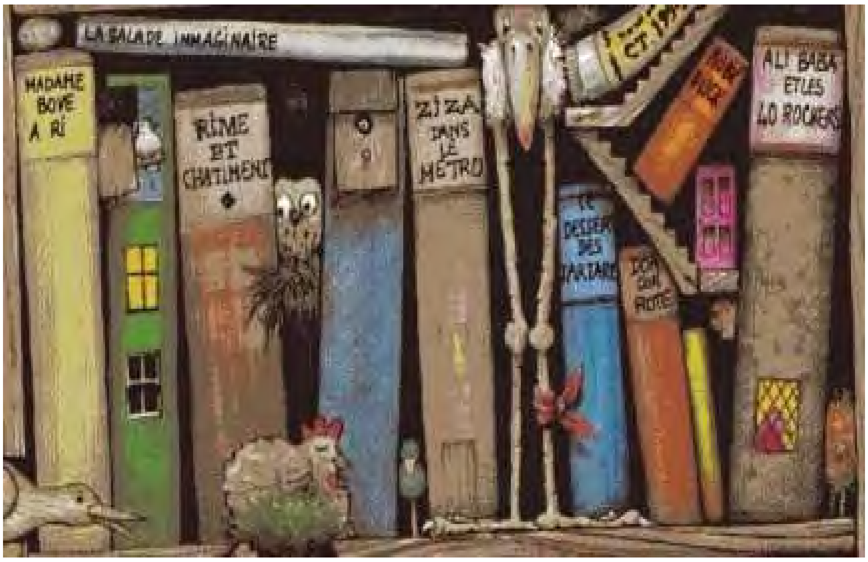
BULLETIN DES SOMMAIRES DES PERIODIQUES SCIENTIFIQUES



Novembre/Décembre 2017

Avis aux Lecteurs

Le présent bulletin des sommaires concerne le sommaire des périodiques reçus au Service de Documentation de l'INRA.

La consultation du sommaire des périodiques est rendue facile grâce à la liste alphabétique des titres des périodiques ci-jointe. Cette liste renvoie aux pages des sommaires dans ce bulletin, ainsi les articles qui vous intéressent peuvent être commandés auprès du service en respectant de mentionner les données suivantes :

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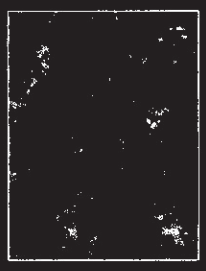

Front cover: Multi-year field experiments were conducted to evaluate herbicide programs for weed control in conventional soybean at Punjab Agricultural University, Ludhiana, India. Pendimethalin was applied pre-emergence followed by a post-emergence application of imazethapyr + imazamox/quizalofop-*p*-ethyl. For more information, see the paper by Yadav et al. on page 654 of this issue. Image by M. Bhullar.

Page couverture : Des expériences pluriannuelles sur le terrain ont été menées pour évaluer des programmes d'herbicides pour la lutte contre les mauvaises herbes dans les cultures de soja traditionnel à l'Université d'agriculture du Punjab à Ludhiana (Inde). De la pendiméthaline a été appliquée en prélevée, suivie d'une application en postlevée d'imazéthapyr + imazamox / quizalofop-*p*-éthyl. Pour en savoir plus, consulter l'article de Yadav et al. à la page 654 du présent numéro. Photo prise par M. Bhullar.

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Other Characteristics

Seedling characteristics

Coleoptile colour: green; seedling growth habit: semi-erect; leaf blade pubescence: glabrous; leaf sheath pubescence: glabrous.

Plant characteristics at booting stage

Leaf colour: medium green; leaf waxiness: slight; flag leaf attitude: intermediate; flag leaf length: from short to medium; flag leaf width: medium.

Plant characteristics after heading

Stem colour at maturity: yellowish-white.

Panicle characteristics

Panicle shape: equilateral; panicle density: intermediate; panicle length: short to medium; panicle branch position: erect to horizontal; number of panicle whorls: 7; side branch angle (angle between rachis and dominate side branch): less than 30 degrees.

Rachilla characteristics (shortly after heading)

Rachilla length (second floret): medium; rachilla pubescence: glabrous.

Spikelet characteristics (from upper region of panicle)

Spikelet separation: semi-abscission; spikelet attitude: semi-nodding; glume colour at maturity: white to yellow.

Lemma and palea characteristics

Lemma length: medium (16–18 mm); lemma tip shape: medium pointed; lemma colour at maturity: cream; lemma awn presence: infrequent; lemma awn shape (if present): from straight to twisted.

Kernel characteristics

Seed length: medium (9.5–10.5 mm); seed width: medium (2.8–3.6 mm); seed colour: cream; kernel basal hair presence: absent.

Maintenance and Distribution of Pedigreed Seed

Breeder Seed of AAC Bullet is currently maintained at the Seed Increase Unit of AAFC in Indian Head, SK S0G 2K0, Canada. Certified seed of AAC Bullet is distributed by SeCan Association through W. Houde.

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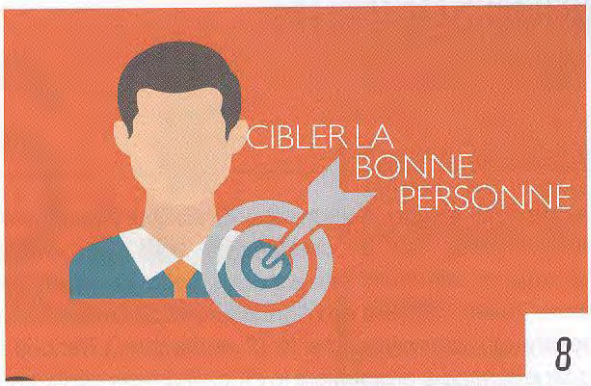

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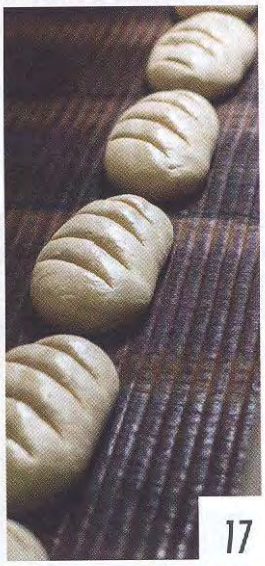

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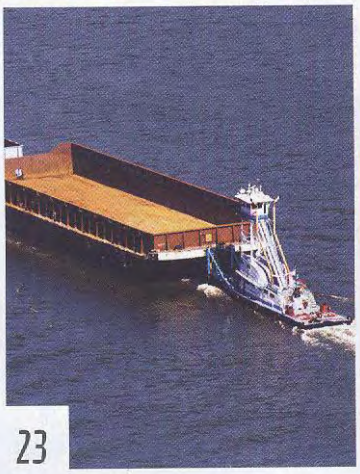

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ON THE COVER: In contrast to the largely lifeless and monochromatic terrestrial environment of Antarctica, the sea floor teams with life and color. Replete with all manner of predators and prey, Antarctic benthic ecology is highly dependent on chemical mediation of interspecific interactions (Amsler et al. *J. Phycol.* **2014**, *50*, 1-10; McClintock et al. *Integ. Comp. Biol.* **2010**, *50*, 967-980). The carnivorous nudibranch *Doris kerguelenensis* at the center of this photograph defends itself with a suite of diterpene glycerides (Diyabalanage et al. *J. Nat. Prod.* **2010**, *73*, 416-421; Maschek et al. *Tetrahedron* **2012**, *68*, 9095-9104). The coupling of variability in diterpene diversity with genetic relatedness is believed to partly reflect the historical cycle of glaciation that has led to cryptic speciation (Wilson et al. *PLoS One* **2013**, *8*, e80277). Such chemical diversification is a boon to drug discovery, informing structure-activity studies and broadening the scope of bioactivity profiles. The labdane diterpene palmadorin M (**3**), for example, is the only one of 19 palmadorins that inhibits the Jak/STAT pathway in HEL cells (Maschek et al. *Tetrahedron* **2012**, *68*, 9095-9104), demonstrating the exquisite selectivity inherent in the evolution of chemical defenses. Other members of the palmadorin family include clerodanes (**1**, **2**) and halimanes (**4**), and *D. kerguelenensis* has been reported with a variety of related skeletons and degraded diterpenes (e.g., Cutignano et al. *Eur. J. Org. Chem.* **2011**, *27*, 5383-5389). Each of these individual natural products contributes to the success of its producing genotype and has the potential for selective biomedical applications. (This motif was provided by Dr. Bill J. Baker, University of South Florida, Tampa, FL, USA.)

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2595 S DOI: 10.1021/acs.jnatprod.6b00878

Metabolites from the Plant Endophytic Fungus *Aspergillus* sp. CPCC 400735 and Their Anti-HIV Activities

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2602 S DOI: 10.1021/acs.jnatprod.6b01052

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2609 S DOI: 10.1021/acs.jnatprod.7b00054

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2615 S DOI: 10.1021/acs.jnatprod.7b00056

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Division de l'Information et de la Formation I.E.E.A.

2620 DOI: 10.1021/acs.jnatprod.7b00113
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2807 DOI: 10.1021/acs.jnatprod.7b00650
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2855 DOI: 10.1021/acs.jnatprod.7b00740
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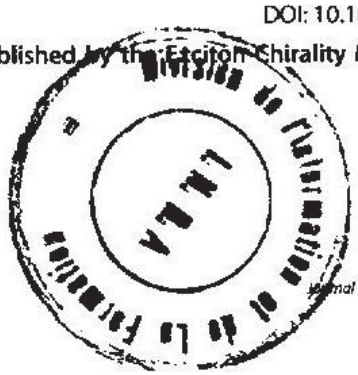

Book Reviews

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Review of Botanical Safety Handbook, 2nd Edition

John H. Cardellina II[Botanical Safety Handbook, 2nd Edition. Edited by Z. Gardner and M. McGuffin (Traditional Medicinals and American Herbal Products Association, respectively). CRC Press, Boca Raton, FL. 2013. xxix + pp. $119.95. $8^3/_4 \times 11^3/_4$ in. ISBN 978-1-4665-1694-6.

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1954 **First Report of *Fusarium falciforme* (FSSC 3 + 4) Causing Root Rot in Lima Bean (*Phaseolus lunatus* L.) in Brazil.** *E. S. Sousa, M. P. Melo, J. M. Mota, E. M. J. Sousa, J. E. A. Beserra Jr, and K. S. Matos*

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1956 **First Report of *Myrothecium roridum* Causing Leaf Spot on *Petunia hybrida* in China.** *H.-Y. Ben, H.-Y. Qu, L.-X. Chen, J.-M. Zhang, J. Ma, X.-Y. Zhang, Y.-J. Zhao, and D.-Y. Huang*

1957 **First Report of Rust Caused by *Coleosporium asterum* on *Aster spathulifolius* in Korea.** *B. S. Kim, I. Y. Choi, M. J. Park, S. E. Cho, and H. D. Shin*

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1959 **First Report of *Tomato severe rugose virus*, a Tomato-Infecting Begomovirus, in Soybean Plants in Brazil.** *M. A. Macedo, S. S. Barreto, T. M. Costa, G. A. Rocha, E. C. Dianese, R. L. Gilbertson, and A. K. Inoue-Nagata*

1959 **First Report of *Youcai mosaic virus* in *Raphanus raphanistrum* subsp. *sativus* in Korea.** *S.-K. Choi, S.-H. Park, B.-W. Jeon, S.-W. Jang, and J.-Y. Yoon*

1960 **First Report of Mild Mosaic in Ground Orchid, *Phaius tankervilleae*, in India Associated with Infection of *Calanthe mild mosaic virus*.** *R. P. Pant, R. Kapoor, S. Kumar, N. Srivastava, M. Kumar, and V. K. Baranwal*

1960 **First Report of Hippeastrum chlorotic ringspot virus Infecting *Zephyranthes candida* in China.** *B. W. Wu and Y. T. Liu*

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1980 **Molecular Characterization and Distribution of Two Strains of *Dasheen mosaic virus* on Taro in Hawaii.** *Y. Wang, B. Wu, W. B. Borth, I. Hamim, J. C. Green, M. J. Melzer, and J. S. Hu*

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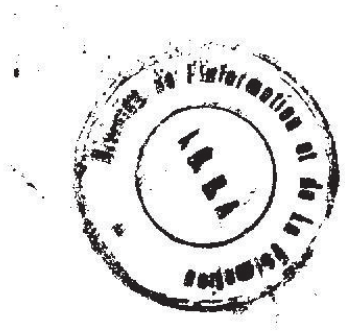

Photo courtesy of Dr. Robert Graham showing the surface of a Vertisols derived from shale in the San Gabriel Mountains of southern California. These soils support chaparral shrubs and develop deep, wide cracks when dry. Work reported in pages 216-226.

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Photo courtesy of Dr. Zakiya Leggett showing an image of lobolly pine trees intercropped with switchgrass for simultaneous wood and bioenergy production in the coastal plain of southeastern United States. Investigators studied the effect of this new land-use on soil carbon and nutrient cycling, soil microbial processes, water quality, above- and below-ground plant biomass production, and biodiversity. Work reported in pages 233-240.

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