المعهد الوطني للبحث الزراعي
Institut National de la Recherche Agronomique

Bulletin des Sommaires

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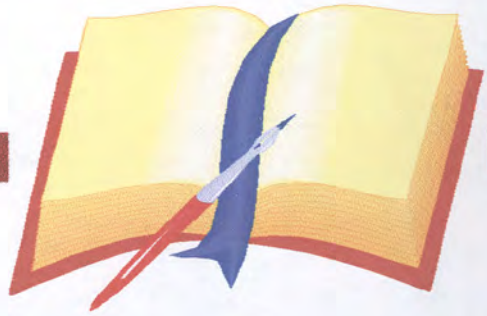

Avis aux Lecteurs

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 :

Le titre du périodique ;
Le volume et le numéro du périodique ;
La cote de rangement du périodique ;
Le titre de l'article et la page où est située l'article ;
Le numéro du bulletin des sommaires
Ex : bulletin des sommaires du mois de .....)

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In an effort to promote the highest quality of scientific and professional conduct among its members, the American Society of Agronomy endorses the following guiding principles, which represent basic scientific and professional values of our profession.

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4. Demonstrate social responsibility in scientific and professional practice, by considering whom their scientific and professional activities benefit, and whom they neglect.
5. Provide honest and impartial advice on subjects about which they are informed and qualified.
6. As mentors of the next generation of scientific and professional leaders, strive to instill these ethical standards in students at all educational levels.

Approved by the ASA Board of Directors, 1 Nov. 1992

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* Instructions to Authors are no longer published in the first issue of the year but can be found at http://zam.asm.org/site/misc/ifora.xhtml and are updated throughout the year.

Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): A chip of crystalline calcite, imaged by laser reflectance, being bored internally by a filamentous cyanobacterium, imaged by optical section in confocal autofluorescence mode. Photo by Brandon S. Guida. (*See related article on page 7.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Muskoxen graze tundra plants between raised beach crests while soil microorganisms cycle carbon and nitrogen in the thawed active layer at Truelove Lowland, Devon Island, Canada. Photo by Martin Brummell. (*See related article on page 346.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Flows and projections of a milky metalworking fluid during the manufacture of a voluminous cogwheel at a metalworking plant in eastern France. Photo by Jean-Benjamin Murat. (*See related article in January 2012, vol. 78, no. 1, p. 34.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Energy-dispersive X-ray spectroscopy (EDX) mapping of bacterial calcite minerals of *Rhodococcus globerulus*. Color allocation is as follows: red, carbon (C); green, oxygen (O); and blue, calcium(Ca). The scanning electron microscopy (SEM) images show false red, green, and blue coloration for the local occurrence of the elements carbon, oxygen, and calcium, respectively. A gray-level SEM image is underlying each false-color image. The shape of the carbonate minerals depends on the bacterial species; it is idiomorphous when formed by *Rhodococcus globerulus*. (*See related article on page 1157.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Electron micrograph of the fascinating watermelon-shaped magnetotactic bacterium MWB-1, affiliated with the phylum *Nitrospirae*. Within these cells have formed hundreds of bullet-shaped magnetite (Fe_3O_4) crystals, arranged in four to seven bundles of chains. The chain configuration of magnetic crystals renders this bacterium able to navigate to the preferred micoenvironment by swimming along Earth's magnetic field. The length of MWB-1 cells is approximately 2.8 μm. The colors of this image were added by Photoshop. (*See related article in February 2012, vol. 78, no. 3, p. 668.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Scanning electron micrograph of superimposed back-scattered and secondary electron signals of *Methanocaldococcus villosus*, the fastest-moving organism on Earth based on speed measured in relative units of bodies per second (bps). It swims at nearly 500 bps; by comparison, a cheetah hunts at ca. 20 bps. In a systematic study of the swimming behavior of various *Archaea* species, it was found that not only are two species of *Methanocaldococcus* the fastest organisms on earth, but some *Archaea* exhibit two modes of swimming: a very rapid movement in more or less a straight line, and a slower, zigzag movement when in close proximity to a surface. Photo courtesy of Gerhard Wanner, University of Munich. (*See related article on page* 1670.)

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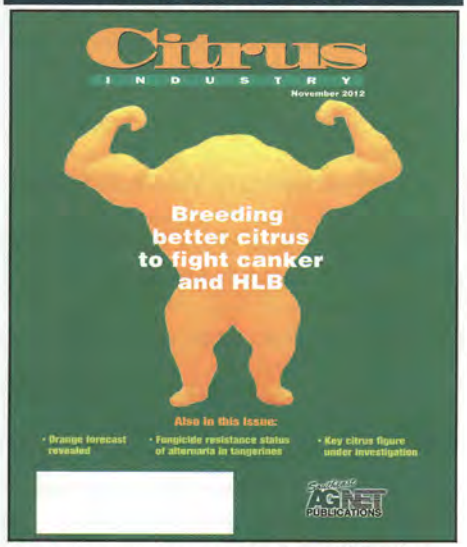

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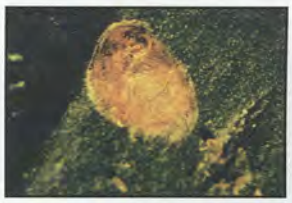

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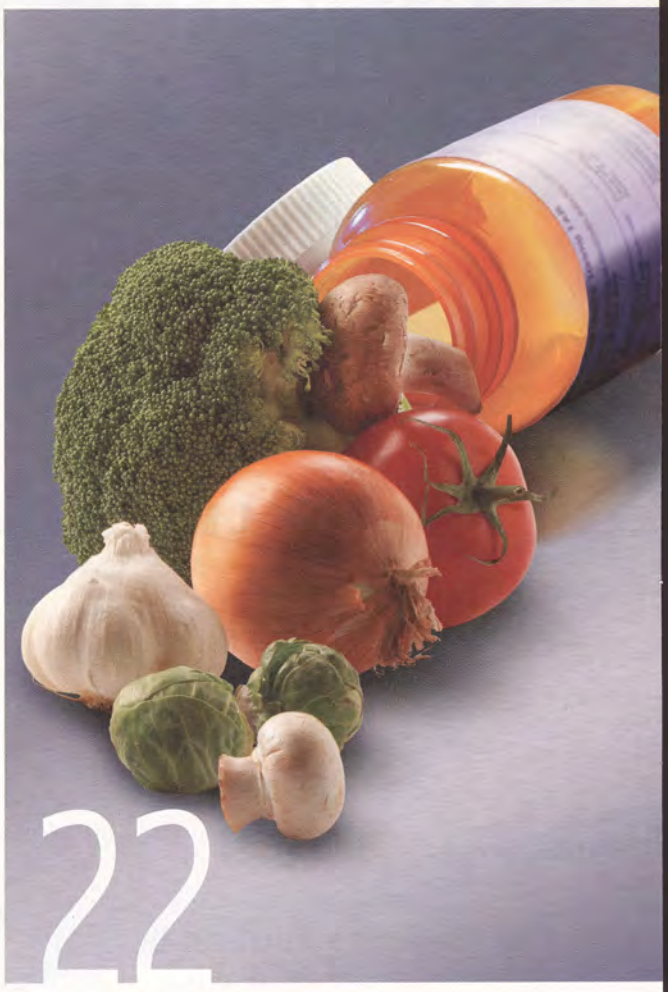

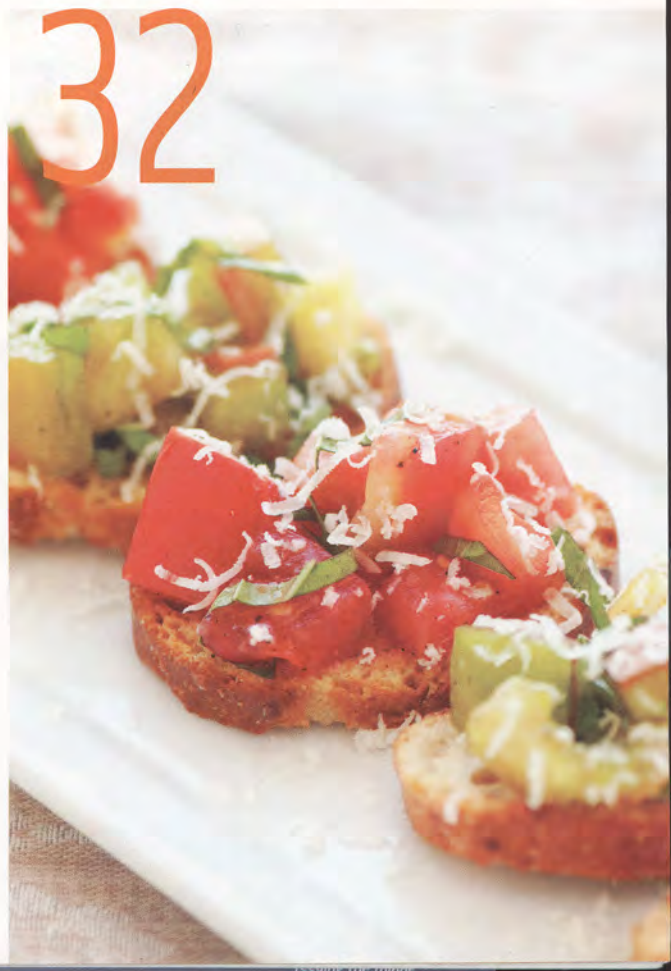

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édito

Souvenir d'Oflag

J'ai observé Faucheret un jour qu'il volait un morceau de pain. Il a hésité un bon moment. Le pain était tout près de moi, sur le lit de Pochon. Faucheret le considérait d'un regard en biais, et il sifflotait en se grattant les aisselles. Moi j'affectais de m'absorber dans le raccommodage d'un vieux chandail. Les copains, dans la chambre, ne faisaient pas attention. Faucheret sifflotait, debout, et je sentais l'acte tout préparé dans son corps, dans ses doigts. Il se gratte. Il a l'air d'un oiseau effarouché. Le pain s'étale, gris et gras, énorme sur la couverture brune. On ne voit plus que lui. Il prend une existence intense et insolente. Il annule à lui seul la chambrée et ses tumultes. Je baisse le nez, je guette, je trouve ça intéressant. Faucheret avance encore un peu, me regarde, sifflote, se gratte. Je pense : osera-t-il ? Comme d'un homme au bord d'un toit je penserais : est-ce qu'il va tomber ? Avec au fond le désir que ça se produise. Il me regarde une fois de plus. Je passe ma laine avec application. Tu te décideras, oui ou non ? Est-ce que l'acte va sortir de lui, briser cette couche de peur ? Je crois que je lui en voudrais de renoncer. Allons, vas-y, bon dieu… J'ai noté la hâte maladroite de sa main rouge quand elle s'est refermée sur le pain. Il l'a caché sous sa capote. Il est parti. Je pensais : trop vite, il n'a pas encore l'habitude. Une heure plus tard Pochon a cherché son morceau de pain et s'est mis à hurler. Il jurait qu'il casserait la gueule au type qui avait fait ça. Les autres rigolaient en douce. Ces choses-là arrivent tous les jours. On n'a pas idée de laisser traîner du pain. Faucheret avait son visage habituel, son regard d'oiseau perplexe. Il s'est aperçu que je le regardais, et il m'a fait un sourire furtif, craintif, qui signifiait : oui, je sais que tu m'as vu, tu n'ignores plus que je suis un salaud. Et après ?

Georges HYVERNAUD
La peau et les os
Éditions Ramsay, 1985 p. 37-39

La rédaction vous souhaite une lecture enrichissante.

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Sans gluten, sans lactose, ... sans fondement

Nombre de régimes d'exclusion – émanant de différentes écoles pseudo-scientifiques – sont aujourd'hui promus médiatiquement et proposés à l'ensemble des consommateurs, et dans la grande majorité des cas, sans la moindre justification médicale. Le risque allergique sert souvent de prétexte pour justifier ces régimes. Il en résulte une certaine paranoïa vis-à-vis d'aliments comme le gluten ou le lait induisant des comportements alimentaires potentiellement dangereux ainsi qu'une augmentation du coût de l'alimentation.

Le régime sans gluten s'adresse **uniquement** aux personnes souffrant de la maladie cœliaque. Cette maladie d'intolérance intestinale à certaines fractions protéiques constitutives du gluten (prolamines) se manifeste dès l'enfance ou peut apparaître à l'âge adulte. Elle s'apparente à une sorte d'allergie et se traduit par des troubles intestinaux dès que la personne génétiquement prédisposée consomme des aliments qui contiennent du blé, du seigle, de l'orge, etc.

Rappelons avec l'Association française des diététiciens nutritionnistes (AFDN) qu'il n'y a aucun intérêt à mettre en place ces régimes sans pathologie avérée. Une intolérance au gluten ou au lactose relève d'un diagnostic et d'un véritable bilan médical. Les personnes qui « s'auto-diagnostiquent » intolérantes et mettent en place elles-mêmes des régimes d'exclusion risquent de déséquilibrer leur alimentation et de créer de véritables carences.

Jacques POTUS
d'après un communiqué de l'AFDN

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édito

Le pain

La surface du pain est merveilleuse d'abord à cause de cette impression quasi panoramique qu'elle donne : comme si l'on avait à sa disposition sous la main les Alpes, le Taurus ou la Cordillère des Andes. Ainsi donc une masse amorphe en train d'éructer fut glissée pour nous dans le four stellaire, où durcissant elle s'est façonnée en vallées, crêtes, ondulations, crevasses... Et tous ces plans dès lors si nettement articulés, ces dalles minces où la lumière avec application couche ses feux, – sans un regard pour la mollesse ignoble sous-jacente. Ce lâche et froid sous-sol que l'on nomme la mie a son tissu pareil à celui des éponges : feuilles ou fleurs y sont comme des sœurs siamoises soudées par tous les coudes à la fois. Lorsque le pain rassit ces fleurs fanent et se rétrécissent : elles se détachent alors les unes des autres, et la masse en devient friable... Mais brisons-la : car le pain doit être dans notre bouche moins objet de respect que de consommation.

Francis Ponge, Le Parti pris des choses
1942, Gallimard p. 39

La rédaction vous souhaite
un bel été et une enrichissante lecture

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Aecial lesion of *Puccinia asparagi*, cause of asparagus rust, on a stem of asparagus (courtesy G. Özer, Abant İzzet Baysal University, Turkey); hosta leaf illustrating damage from the foliar nematode *Aphelenchoides fragariae* (courtesy F. Zhen et al., see page 1438); a group 16SrI-B phytoplasma associated with symptoms on common gardenia in China (courtesy X. C. Sun and W. J. Zhao, see page 1576).

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Photographie de couverture:
L'explication des mécanismes de résistance des cépages aux maladies repose souvent sur la physiologie et la morphologie de structures particulières comme les stomates, qui servent de porte d'entrée au mildiou de la vigne (ici un stomate de forme saillante vu au microscope à balayage; grossissement 650 x). Voir également à ce sujet l'éditorial et l'article de Gindro *et al.* en p. 226. (Photo Katia Gindro, ACW)

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