المعهد الوطني للبحث الزراعي
Institut National de la Recherche Agronomique

Bulletin des sommaires

Avril 2012

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 ;
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Biotehniška fakulteta Univerze v Ljubljani
Biotechnical Faculty University of Ljubljana

ISSN 1581-9175

Spletna izdaja – Online: ISSN 1854-1941

Acta agriculturae Slovenica

ISSN 1581-9175 · letnik / Volume 99 · številka / Number 2 · 2012

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January 2013
Vol. 61, No. 1
ISSN 0002-161X

Agricultural Research

Solving Problems for the Growing World

Agricultural Research is published 10 times a year by the Agricultural Research Service, U.S. Department of Agriculture (USDA). The Secretary of Agriculture has determined that this periodical is necessary in the transaction of public business required by law.

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DAVID HALL (D2713-2)

Adult Asian citrus psyllid killed by a biocontrol fungus. This beneficial fungus may prove useful in battling the psyllid, which is spreading a devastating citrus disease in the United States. Story begins on page 4.

Cover: The brown marmorated stink bug is easily recognized by many because it's invading our homes. But the pest, shown here feeding on an apple, is also a major economic threat to fruit crops, garden vegetables, and many ornamentals. ARS scientists are fighting back by developing traps, sequencing the bug's genome, and testing parasitic wasps as biocontrols. Story begins on page 18. Photo by Stephen Ausmus. (D2709-1)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): False-color transmission electron microscope image of an engineered silver-tolerant *Escherichia coli* cell grown in the presence of $AgNO_3$. The silver tolerance of these cells is due to the expression of a combinatorially selected silver-binding dodecapeptide, fused to the periplasmic maltose-binding protein, which allows growth and maintenance of viability in the presence of toxic concentrations of Ag ions for several hours in batch culture. Electron-dense particles accumulate in the cell envelope and are visible around the periphery of the cell; some of these particles are nanocrystalline Ag particles (inset). This silver-binding peptide lacks both Cys and His residues yet binds to the metal with nanomolar affinity. The ability of short peptide motifs to manipulate bacterial interactions with heavy metals has potential implications for diverse activities, including nanomaterial synthesis and remediation. Photos by Ruth Hall Sedlak, Mehmet Sarikaya, Candan Tamerler, and Beth Traxler, University of Washington. (*See related article on page 2289.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Cartoon representation of the monomeric form of the first dimeric structure of a type 1 Baeyer-Villiger monooxygenase, represented here by the camphor pathway 2-oxo-Δ^5-4,5,5-trimethylcyclopentenylacetyl-CoA monooxygenase (OTEMO) with bound FAD and NADP$^+$. Both FAD (yellow carbon) and NADP (orange carbon) are shown in ball representation; the FAD-binding domain is colored in green; the NADP-binding domain in magenta, and the flap domain in cyan. Comparison of various crystal structures of the OTEMO-FAD-NADP$^+$ complex reveals remarkable conformational plasticity of the active-site region, which may be correlated with the broad substrate scope of OTEMO. (*See related article in April 2012, vol. 78, no. 7, p. 2200.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): A germinating spore of the rust fungus *Puccinia graminis* f. sp. *tritici*. Under certain conditions, this plant pathogen develops infection structures whose cell walls contain chitin, which is deacetylated to chitosan, thereby allowing the fungus to evade the chitin-driven immunse response of the plant. The associated article describes the development of a chitosan affinity protein (CAP), which is fused to enhanced green fluorescent protein. CAP is able to specifically detect chitosan in the substomatal vesicle and infection hypha. The chitin-containing parts of the structures were stained with commercially available wheat germ agglutinin coupled to Texas Red. Note the gradient from red to green starting at the tip of the infection hypha; this is consistent with the notion that the tip contains chitin that later during growth is deacetylated, apparently generating a gradient of highly to minimally acetylated chitosan from the tip to the end of the infection hypha. (*See related article on page 3114.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Scanning electron micrograph of the chlorophyll (Chl) *d*-containing cyanobacterium *Acaryochloris marina* growing in dense biofilm aggregates inside alginate beads. This unique cyanobacterium is the only known phototroph that has exchanged its Chl *a* for Chl *d*, allowing it to perform oxygenic photosynthesis using near-infrared radiation (NIR). In nature, *Acaryochloris* thrives in biofilms colonizing microniches experiencing strong depletion of visible light, while sufficient NIR prevails. In the laboratory, it grows relatively fast in both planktonic and biofilm growth modes when kept under NIR light. Photo by Klaus Qvortrup and Lars Behrendt, University of Copenhagen. (*See related article on page 3896.*)

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Cover photograph (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Photograph of an aborted bison fetus on pastureland outside Jackson, Wyoming, November 2007. Photo courtesy of Jill Randall, Wyoming Game and Fish Department. (*See related article on page 3674.*)

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On the Cover: Nordic landraces of wheat (*Triticum* spp.) were studied in a field trial experiment conducted by the Nordic Genetic Resource Center (NordGen) at Alnarp in the south of Sweden. This image is from August 2010 and illustrates the awns on traditional Nordic landraces. Most modern cultivars of bread wheat (*Triticum aestivum* L.) are awnless. See Endresen et al., *p.* 764. Photo by Dag Terje Filip Endresen.

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On the Cover: A soil core (right) taken from a topdressed annual bluegrass (*Poa annua*) putting green turf shows the accumulation of sand at the surface compared to non-topdressed turf (left). Anthracnose severity was reduced in turf where sand from topdressing had accumulated. See Inguagiato et al., p. 1406. Photo by John Inguagiato.

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On the Cover: A surface drip irrigated cotton (*Gossypium hirsutum* L.) crop monitored by infrared canopy temperature thermometers for water stress detection. Canopy temperatures were affected by irrigation treatment and associated with crop yield, with the optimum canopy temperature observed at approximately 28°C. Knowledge of this optimum temperature can be used as the foundation for irrigation scheduling based on canopy temperatures. See Conaty et al., p. 1828. Photo by Warren Conaty.

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International Journal of Fats and Oils

Volumen 63 | N.º 4 | octubre-diciembre 2012 | 152 págs. | ISSN: 0017-3495

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International Journal of Fats and Oils

Volumen 64 | N.º 1 | enero-marzo 2013 | 120 páginas | ISSN: 0017-3495

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Heredity

Volume 108 • Number 1 • January 2012

Special issue: Molecular Cytogenetics: Karyotype evolution, Phylogenomics and Future Prospects

Guest Editors:
Professor Terence J Robinson, University of Stellenbosch, South Africa and
Dr Fengtang Yang, The Wellcome Trust Sanger Institute, Cambridge, United Kingdom

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This special issue reflects the intersection between molecular cytogenetics and comparative genomics and emphasizes their use to confirm and refine syntenies, identify breakpoints, neocentromeres and other chromosomal features that are responsible for the myriad of karyotypes that characterize biological lineages. It features papers that discuss chromosomal diversification at different phylogenetic levels and presents new and exciting insights to some of the molecular mechanisms that are thought to underpin the structural modification of karyotypes (including the evolution of sex chromosomes and dosage compensation in amniotes), and new technologies that may impact on the precision by which we identify and characterize chromosomal rearrangements in future.

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Print ISSN 0931-2048
Online ISSN 1439-0418

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1558-8424(201204)51:4;1-0

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SEB Society for Experimental Biology

aab Association of Applied Biologists

WILEY-BLACKWELL

This journal is available online at Wiley Online Library. Visit wileyonlinelibrary.com/journal/pbi to search the articles and register for table of contents e-mail alerts.

La nouvelle politique agricole vise à mieux utiliser les ressources naturelles locales et à favoriser l'autonomie fourragère des éleveurs. La production des pâturages est irrégulière dans l'ouest de la Suisse, en particulier dans le Massif du Jura. L'optimisation du potentiel de production des herbages exige par conséquent une bonne gestion des pâturages. (Photo: Agrofourrage)

Impressum
Recherche Agronomique Suisse/Agrarforschung Schweiz est une publication des stations de recherche agronomique Agroscope et de leurs partenaires. Cette publication paraît en allemand et en français. Elle s'adresse aux scientifiques, spécialistes en recherche et de l'industrie, conseillers, organisations de conseil et de vulgarisation, offices cantonaux et fédéraux, praticiens, politiciens et autres personnes intéressées.

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Andrea Lauenberger-Mange, Recherche Agronomique Suisse/Agrarforschung Schweiz, Station de recherche Agroscope Liebefeld-Posieux ALP, Case postale 64, 1725 Posieux, tél. +41 26 407 72 21, fax +41 26 407 73 00, e-mail: info@rechercheagronomiquesuisse.ch

Judith Auer, Recherche Agronomique Suisse/Agrarforschung Schweiz, Station de recherche Agroscope Changins-Wädenswil ACW, Case postale 1012, 1260 Nyon 1, e-mail: info@rechercheagronomiquesuisse.ch

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Changement d'adresse
e-mail: verlag.rol@sb.admin.ch, fax +41 31 325 50 58

Internet
www.rechercheagronomiquesuisse.ch
www.agrarforschungschweiz.ch

ISSN infos
ISSN 1663–7917 (imprimé)
ISSN 1663–7925 (en ligne)
Titre: Recherche Agronomique Suisse
Titre abrégé: Rech. Agron. Suisse

Indexée: Web of Science, CAB Abstracts, AGRIS

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Photographie de couverture:
L'AMTRA, qui publie la *Revue suisse de Viticulture, Arboriculture, Horticulture*, est aussi une maison d'édition pleine d'activité (lire à ce sujet l'éditorial de Auer et Rohrer, en p. 277). L'une de ses dernières parutions, le livre *Cépages*, rencontre beaucoup d'intérêt notamment dans les milieux de la restauration et de la sommellerie. (Photo C. Parodi, ACW)

Cette revue est référencée dans les bases de données internationales SCE, Agrolis, ACBIS, CAB, EUROVOC

Editeur
AMTRA (Association pour la mise en valeur des travaux de recherche agronomique), CP 1006, 1260 Nyon 1, Suisse, www.revueamtra.ch
ISSN 1275-1430

Rédaction
Judith Auer (directrice de rédaction en chef), Hilaire Rohrer (rédacteur)
Tél. +41 22 363 41 54, fax +41 22 362 13 25
E-mail: eliane.scherr@acw.admin.ch

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Publicité
Intérêt Publications SA, Serge Barranco
Avenue Dapples 7, CP 500, 1001 Lausanne, tél. +41 21 595 95 67

Prépresse
Intérêt Publications SA, 1001 Lausanne

Impression
Couvertier Achinger Arts graphiques SA

Tarifs des abonnements

Abonnement	simple	combiné
annuel	(imprimé ou électronique)	(imprimé et électronique)
Suisse	CHF 48.–	CHF 58.–
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THE JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY

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To view Titles, Authors, and Abstracts in all past issues of the Journal visit the website at www.jhortscib.com and click on 'Current Issue'.

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