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BULLETIN DES SOMMAIRES DES PERIODIQUES SCIENTIFIQUES

Novembre/Décembre 2018

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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Front cover: Lentil plants bathing in the July sun. For related research, see the paper entitled "Nodulation and nitrogen accumulation in pulses vary with species, cultivars, growth stages, and environments" by Hossain et al. on page 527 of this issue. Photo credit: Ti Zhang.

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* Ces travaux ont été présentés au colloque « Les polycultures-élevages : valoriser leurs atouts pour la transition agro-écologique » (Agrosup Dijon), les 10 et 11 octobre 2017. Coordination du numéro par Jean-Philippe Choisis, Sonia Ramonteu et Philippe Tresch

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Heredity

Volume 121 · Number 3 · September 2018

Evolutionary Consequences of Epigenetic Inheritance

Epigenetic inheritance is the non-genetic inheritance of a modified phenotype across generations, and while its occurrence is well documented, its influence over evolutionary processes is debated. This special issue deals with the evolutionary consequences of epigenetic inheritance and focuses broadly on the evolutionary forces selecting for epigenetic inheritance, its costs and importance for adaptation. Moreover, several contributions specifically highlight the effects of paternal trans-generational epigenetic inheritance, which until now have received comparatively little attention. The contributions to this special issue give an important snapshot of the state of the adaptive epigenetic inheritance field, highlight its evolutionary consequences and point out important directions forward.

Guest editors: Foteini Spagopoulou and Martin Lind, Department of Ecology and Genetics, Animal Ecology, Uppsala University, Sweden

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Heredity

Volume 121 · Number 5 · November 2018

Fitness landscapes, big data, and the predictability of evolution

Evolutionary biology has become increasingly powerful in inferring past evolutionary processes from patterns in present-day genomes. However, forecasting evolution's future routes remains an exciting intellectual challenge with substantial implications for global health and species conservation. The concept of the fitness landscape has been central to recent studies of the predictability of evolution and has inspired evolutionary biologists and mathematicians alike. This special issue focuses on a combination of microbial experimental evolution with next-generation sequencing, and theoretical modelling to advance our understanding of the predictability of evolution, particularly in the light of "big data".

Guest editors:

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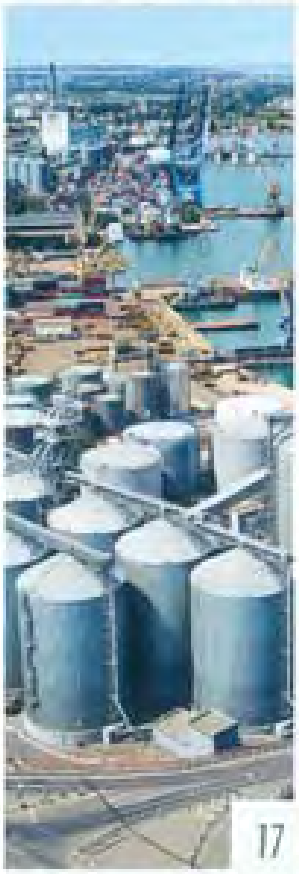

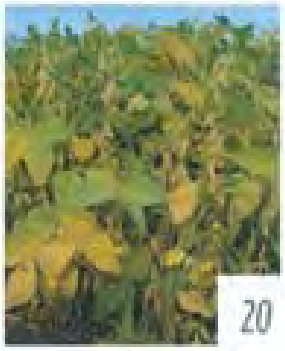

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ON THE COVER: In winter, lichens constitute an important part of the diet of caribou, emblematic animals of Northern Canada. As such and for numerous other reasons, lichens are essential components of Northern ecosystems subject to tremendous stresses. To survive under the harsh conditions of the Northern climate, they produce numerous secondary metabolites that protect them. Several lichen metabolites have been demonstrated to possess a wide variety of bioactive properties. The cover illustration represents the discovery by Carpentier et al. (*J. Nat. Prod.* **2017**, *80*, 210-214) of two new dibenzofurans from a thorough phytochemical investigation on *Stereocaulon pascale*, collected near the Inuit community of Umiujaq (Nunavik). Their work also led to the identification of 11 other metabolites, with some of these showing antimicrobial activity against known pathogens involved in periodontal diseases. The results described in the article illustrate the potential of Northern organisms as sources of unique natural products. (Photo credits: caribou picture, Joëlle Taillon; lichen image, Normand Voyer)

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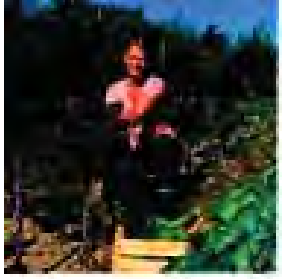

La politique agricole suisse vise une réduction massive des émissions de gaz à effet de serre d'ici à 2050. Cet objectif climatique peut être atteint par des mesures structurelles et de consommation, comme le passage à une alimentation davantage basée sur les aliments d'origine végétale. Les mesures purement techniques en matière de production, par exemple dans les domaines de l'alimentation animale ou de l'entreposage des engrais de ferme, sont souvent difficiles à mettre en œuvre dans la pratique. (Photo: Carole Parodi, Agroscope)

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