



Sommaire / Contents

volume 338, janvier–décembre 2015 / January–December 2015

Editorial / Éditorial

- Jacques Monod: fifty years after – Foreword
Jean Gayon, François Gros, Michel Morange 369
- Avant-propos
Laurence Perbal et Jean-Noël Missa 521

Debates / Débats

- La naissance de la conférence internationale « Biologie et devenir de l'homme », Paris, 18–24 septembre 1974
Charles Galperin 523
- « *Biology and the future of man* », 18–24 septembre 1974 : l'histoire d'un devenir
Pierre-Frédéric Daled 527
- Le devenir de la bioéthique
Anne Fagot-Largeault 534

Biological modelling / Biomodélisation

- Assessing the three-dimensional collagen network in soft tissues using contrast agents and high resolution micro-CT: Application to porcine iliac veins
Mathieu Nierenberger, Yves Rémond, Saïd Ahzi, Philippe Choquet 425
- Comparative transcriptomic analysis between an artificially induced SIRS in healthy individuals and spontaneous sepsis
Claudio Monteiro Sousa, Jean-Pierre Boissel, François Gueyffier, Gustavo Olivera-Botello 635
- Stochastic monotony signature and biomedical applications
Jacques Demongeot, Giuliana Galli Carminati, Federico Carminati, Mustapha Rachdi 777

Molecular biology and genetics / Biologie et génétique moléculaires

- Genetic diversity analysis among collected purslane (*Portulaca oleracea* L.) accessions using ISSR markers
M. Amirul Alam, Abdul Shukor Juraimi, Mohd Yusop Rafii, Azizah Abdul Hamid, Ibrahim Wasiu Arolu, M. Abdul Latif 1

- Overexpression of the sweet potato *IbOr* gene results in the increased accumulation of carotenoid and confers tolerance to environmental stresses in transgenic potato
Young-Min Goo, Eun-Heui Han, Jae Cheol Jeong, Sang-Soo Kwak, Jaeju Yu, Yun-Hee Kim, Mi-Jeong Ahn, Shin-Woo Lee 12
- Utility of RAPD marker for genetic diversity analysis in gamma rays and ethyl methane sulphonate (EMS)-treated *Jatropha curcas* plants
Dharman Dhakshanamoorthy, Radhakrishnan Selvaraj, Alagappan Chidambaram 75
- Recurrent parent genome recovery analysis in a marker-assisted backcrossing program of rice (*Oryza sativa* L.)
Gous Miah, Mohd Y. Rafii, Mohd R. Ismail, Adam B. Puteh, Harun A. Rahim, Mohammad A. Latif 83
- Molecular cloning, characterization and differential expression of novel phytocystatin gene during tropospheric ozone stress in maize (*Zea mays*) leaves
Rafiq Ahmad, Yasmine Zuily-Fodil, Chantal Passaquet, Sabaz Ali Khan, Anne Repellin 141
- Isolation and characterization of StERF transcription factor genes from potato (*Solanum tuberosum* L.)
Zemin Wang, Ning Zhang, Xiangyan Zhou, Qiang Fan, Huaijun Si, Di Wang 219
- RNA-Seq analysis of the wild barley (*H. spontaneum*) leaf transcriptome under salt stress
Ahmed Bahieldin, Ahmed Atef, Jamal S.M. Sabir, Nour O. Gadalla, Sherif Edris, Ahmed M. Alzohairy, Nezar A. Radhwan, Mohammed N. Baeshen, Ahmed M. Ramadan, Hala F. Eissa, Sabah M. Hassan, Nabih A. Baeshen, Osama Abuzinadah, Magdy A. Al-Kordy, Fotouh M. El-Domyati, Robert K. Jansen 285
- Impact of polyploidy on fertility variation of Mediterranean *Arundo* L. (Poaceae)
Laurent Hardion, Régine Verlaque, Marcela Rosato, Josep A. Rosselló, Bruno Vila 298

- Expression of both CuZnSOD and APX in chloroplasts enhances tolerance to sulfur dioxide in transgenic sweet potato plants
Yun-Hee Kim, Soon Lim, Sim-Hee Han, Jeung Joo Lee, Ki Jung Nam, Jae Cheol Jeong, Haeng-Soon Lee, Sang-Soo Kwak 307
 - Identification and expression of an atypical isoform of metallothionein in the African clawed frog *Xenopus laevis*
Rosaria Scudiero, Margherita Tussellino, Rosa Carotenuto 314
 - A faith in the coherence of the living world
Henri Buc 372
 - Monod and the spirit of molecular biology
Michel Morange 380
 - Doing justice to allosteric regulation
Evelyn Fox Keller 385
 - Why did Jacques Monod make the choice of mechanistic determinism?
Laurent Loison 391
 - Enzymatic cybernetics: An unpublished work by Jacques Monod
Jean Gayon 398
 - Monod's conception of chance: Its diversity and relevance today
Francesca Merlin 406
 - Science and the applications of science from Louis Pasteur to Jacques Monod
Maxime Schwartz 413
 - Monod as the founder of a new discipline: Local and international contexts
Soraya de Chadarevian 419
 - Molecular characterization of *BrMYB28* and *BrMYB29* paralogous transcription factors involved in the regulation of aliphatic glucosinolate profiles in *Brassica rapa* ssp. *pekinensis*
Venkidasamy Baskar, Se Won Park 434
 - Transgenic potato plants expressing *cry3A* gene confer resistance to Colorado potato beetle
Xiaoxiao Mi, Xiangzhao Ji, Jiangwei Yang, Lina Liang, Huaijun Si, Jiahe Wu, Ning Zhang, Di Wang 443
 - The roles of *Dmrt* (Double sex/Male-abnormal-3 Related Transcription factor) genes in sex determination and differentiation mechanisms: Ubiquity and diversity across the animal kingdom
Marion Anne-Lise Picard, Céline Cosseau, Gabriel Mouahid, David Duval, Christoph Grunau, Ève Toulza, Jean-François Allienne, Jérôme Boissier ... 451
 - La génomique et ses applications : promesses et limites
François Gros 543
 - Une carte d'identité génétique pour demain ?
Laurence Perbal 547
 - Genetic modification of the human germ line : The reasons why this project has no future
Michel Morange 554
 - De la biologie synthétique à l'homme synthétique
Pascal Nouvel 559
 - Choosing among possible persons: The ethics of prenatal selection in the postgenomic age
Alex Mauron 566
 - Problèmes éthiques posés par les nouvelles biotechnologies de la reproduction et des cellules souches
Nicole M. Le Douarin 571
 - Medical treatments of the future: Between animality and artifice
Georges Chapouthier 576
 - À propos du moral enhancement
Jean-Yves Goffi 579
 - Structural identification of putative USPs in *Catharanthus roseus*
Ahmed Bahieldin, Ahmed Atef, Ahmed M. Shokry, Saleh Al-Karim, Sanaa G. Al Attas, Nour O. Gadallah, Sherif Edris, Magdy A. Al-Kordy, Abdulkader M. Shaikh Omer, Jamal S.M. Sabir, Ahmed M. Ramadan, Abdulrahman S.M. Al-Hajar, Rania M. Makki, Sabah M. Hassan, Fotouh M. El-Domyati 643
 - Comparison of Sub1 markers and their combinations for submergence tolerance and analysis of adaptation strategies of rice in rainfed lowland ecology
Sharat Kumar Pradhan, Saumya Ranjan Barik, Jayashree Sahoo, Elssa Pandit, Deepak Kumar Nayak, Dipti Ranjan Pani, Annamalai Anandan 650
 - Multiplex SSR-PCR approaches for semi-automated genotyping and characterization of loci linked to blast disease resistance genes in rice
Sadegh Ashkani, Mohd Yusop Rafii, Mahmoodreza Shabanimofrad, Majid Foroughi, Parisa Azizia, Mohd Sayeed Akhtar, Mahbod Sahebi, Abd Rahim Harun, Abbas Nasehi 709
 - ISSR-based analysis of genetic diversity among sorghum landraces growing in some parts of Saudi Arabia and Yemen
Mohammed Basahi 723
 - Implications of spatial genetic patterns for conserving African leopards
Anne Ropiquet, Andrew T. Knight, Céline Born, Quinton Martins, Guy Balme, Lawrence Kirkendall, Luke Hunter, Charl Senekal, Conrad A. Matthee 728
- ### Neurosciences / Neurosciences
- The promises of neurodegenerative disease modeling
Jean-Antoine Lepasant 584
 - Sciences of the brain: The long road to scientific maturity and to present-day reductionism
Michel Le Moal, Joël Swendsen 593
 - Psychosurgery (1974–2014). Withdrawals and revivals. New movements and old inspirations
Manuel Correia 602
 - Que faire de l'imagerie cérébrale ? Territoires anciens et nouveaux d'une technologie
Jean-Claude Dupont 607

Download English Version:

<https://daneshyari.com/en/article/2783295>

Download Persian Version:

<https://daneshyari.com/article/2783295>

[Daneshyari.com](https://daneshyari.com)