

Institute of Experimental Botany of the ASCR, v. v. i.

RIV - actual data collecting

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2015

Database: ASEP

0427753 - UEB-Q 2015 RIV SG eng C - Proceedings Paper (International conf.)

Soudek, Petr - Nejedlý, J. - Pariči, L. - Petrová, Šárka - Vaněk, Tomáš

The Sorghum Plants Utilization For Accumulation of Heavy Metals.

International Proceedings of Chemical, Biological & Environmental Engineering. Vol. 3. Singapore : International Association of Computer Science & Information Technology Press, 2013 - (Yang, L.), s. 6-11 ISBN 978-981-07-7434-9. ISSN 2010-4618. - (Volume 54).

[International Conference on Energy and Environmental Science /3./. Shanghai (CN), 07.09.2013-08.09.2013]

R&D Projects: GA MŠK LH12162; GA MŠK(CZ) LD13029

Institutional Support: RVO:61389030

Keywords: heavy metals * toxicity * Sorghum

Subject RIV: DN - Health Impact of the Environment Quality

<http://www.ipcbee.com/vol54/002-ICEES2013-ES015.pdf>

Permanent link: <http://hdl.handle.net/11104/0233249>

- [DOI](#)
- [Inst. Repository](#)

0431514 - UEB-Q 2015 RIV NL eng J - Journal Article

Amoo, S.O. - Aremu, A.O. - Moyo, M. - Szűčová, Lucie - Doležal, Karel - van Staden, J.

Physiological effects of a novel aromatic cytokinin analogue in micropropagated Aloe arborescens and Harpagophytum procumbens.

Plant Cell, Tissue and Organ Culture. Roč. 116, č. 1 (2014), s. 17-26. ISSN 0167-6857

Not R&D Projects: GA MŠK(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: Antioxidant * Chlorophyll * Medicinal plants

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.612, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236116>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431516 - UEB-Q 2015 RIV IE eng J - Journal Article

Aremu, A.O. - Plačková, Lenka - Bairu, M. W. - Novák, Ondřej - Szűčová, Lucie - Doležal, Karel - Finnie, J. F. - van Staden, J.

Endogenous cytokinin profiles of tissue-cultured and acclimatized 'Williams' bananas subjected to different aromatic cytokinin treatments.

Plant Science. Roč. 214, JAN 2014 (2014), s. 88-98. ISSN 0168-9452

Not R&D Projects: GA MŠK(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: Micropropagation * Musa spp. * Phytohormones

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 4.114, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236118>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429327 - UEB-Q 2015 RIV US eng J - Journal Article

Barnes, B.D. - Kopecký, David - Lukaszewski, A.J. - Baird, J. H.

Evaluation of Turf-type Interspecific Hybrids of Meadow Fescue with Perennial Ryegrass for Improved Stress Tolerance. *Crop Science*. Roč. 54, č. 1 (2014), s. 355-365. ISSN 0011-183X

Institutional Support: RVO:61389030

Keywords: LOLIUM-FESTUCA COMPLEX * TALL FESCUE * INTERGENERIC HYBRIDS

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 1.478, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234451>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429932 - UEB-Q 2015 RIV GB eng J - Journal Article

Cmoch, P. - Korda, A. - Rárová, Lucie - Oklešková, Jana - Strnad, Miroslav - Luboradzki, R. - Pakulski, Z.

Synthesis and structure-activity relationship study of cytotoxic lupane-type 3 beta-O-monodesmosidic saponins with an extended C-28 side chain.

Tetrahedron. Roč. 70, č. 17 (2014), s. 2717-2730. ISSN 0040-4020

R&D Projects: GA MŠK(CZ) LO1204

Institutional Support: RVO:61389030

Keywords: BETULIN DERIVATIVES * SECONDARY ALCOHOLS * ANTITUMOR-ACTIVITY

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.817, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234895>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429985 - UEB-Q 2015 RIV US eng J - Journal Article

Deng, P. - Nie, X. - Berkman, P. - Šimková, Hana - Doležel, Jaroslav - Song, W.

Computational Identification and Comparative Analysis of miRNAs in Wheat Group 7 Chromosomes.

Plant Molecular Biology Reporter. Roč. 32, č. 2 (2014), s. 487-500. ISSN 0735-9640

Institutional Support: RVO:61389030

Keywords: Wheat * miRNA * Group 7 chromosomes

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.374, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234929>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429975 - UEB-Q 2015 RIV US eng J - Journal Article

Doležel, Jaroslav - Vrána, Jan - Čápal, Petr - Kubaláková, Marie - Burešová, Veronika - Šimková, Hana

Advances in plant chromosome genomics.

Biotechnology Advances. Roč. 32, č. 1 (2014), s. 122-136. ISSN 0734-9750

R&D Projects: GA ČR GAP501/10/1740; GA ČR GAP501/10/1778; GA ČR GBP501/12/G090

Not R&D Projects: GA MŠk(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: BAC library * Chromosome sorting * Cytogenetics

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 8.905, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234922>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429982 - UEB-Q 2015 RIV DE eng J - Journal Article

Doubnerová-Hýsková, V. - Miedzińska, L. - Dobrá, Jana - Vaňková, Radomíra - Ryšlavá, H.

Phosphoenolpyruvate carboxylase, NADP-malic enzyme, and pyruvate, phosphate dikinase are involved in the acclimation of *Nicotiana tabacum* L. to drought stress.

Journal of Plant Physiology. Roč. 171, č. 5 (2014), s. 19-25. ISSN 0176-1617

R&D Projects: GA MŠk 1M0505

Institutional Support: RVO:61389030

Keywords: Drought * NADP-malic enzyme * *Nicotiana tabacum* L.

Subject RIV: EI - Biotechnology & Bionics

Impact factor: 2.770, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234926>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429593 - UEB-Q 2015 RIV GB eng J - Journal Article

Drabešová, Jana - Cháb, David - Kolář, Jan - Haškovcová, Kateřina - Štorchová, Helena

A darklight transition triggers expression of the floral promoter CrFTL1 and downregulates CONSTANS-like genes in a short-day plant *Chenopodium rubrum*.

Journal of Experimental Botany. Roč. 65, č. 8 (2014), s. 2137-2146. ISSN 0022-0957

R&D Projects: GA ČR GA522/05/0300; GA ČR(CZ) GAP506/12/1359

Institutional Support: RVO:61389030

Keywords: *Chenopodium rubrum* * CONSTANS-like * flowering

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 5.794, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234679>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429936 - UEB-Q 2015 RIV GB eng J - Journal Article

Fíla, Jan - Čapková, Věra - Honys, David

Phosphoproteomic studies in *Arabidopsis* and tobacco male gametophytes.

Biochemical Society Transactions. Roč. 42, č. 2 (2014), s. 383-387. ISSN 0300-5127

R&D Projects: GA ČR(CZ) GAP501/11/1462; GA ČR(CZ) GAP305/12/2611; GA ČR GA13-06943S; GA MŠk(CZ) LD13049

Institutional Support: RVO:61389030

Keywords: *Arabidopsis thaliana* * male gametophyte * mature pollen

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.238, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234900>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429937 - UEB-Q 2015 RIV GB eng J - Journal Article

Hafidh, Said - Potěšil, D. - Fíla, Jan - Feciková, Jana - Čapková, Věra - Zdráhal, Z. - Honys, David

In search of ligands and receptors of the pollen tube: the missing link in pollen tube perception.

Biochemical Society Transactions. Roč. 42, č. 2 (2014), s. 388-394. ISSN 0300-5127

R&D Projects: GA ČR GPP501/11/P321; GA ČR(CZ) GAP501/11/1462; GA MŠk(CZ) LD13049; GA MŠk(CZ) ED1.1.00/02.0068

Institutional Support: RVO:61389030

Keywords: cell-cell signalling * chemotaxis * palmitoylation

Subject RIV: ED - Physiology

Impact factor: 3.238, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234901>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431074 - UEB-Q 2015 RIV GB eng J - Journal Article

Hann, D.R. - Dominguez-Ferreras, A. - Motyka, Václav - Dobrev, Petre - Schornack, S. - Jehle, A. - Felix, G. - Chinchilla, D. - Rathjen, J.P. - Boller, T.

The Pseudomonas type III effector HopQ1 activates cytokinin signaling and interferes with plant innate immunity.

New Phytologist. Roč. 201, č. 2 (2014), s. 585-598. ISSN 1469-8137

R&D Projects: GA ČR GA13-26798S

Institutional Support: RVO:61389030

Keywords: cytokinin * flagellin * FLS2

Subject RIV: GF - Plant Pathology, Vermin, Weed, Plant Protection

Impact factor: 6.373, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236115>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429597 - UEB-Q 2015 RIV US eng J - Journal Article

Hichri, I. - Muhovski, Y. - Žížková, Eva - Dobrev, Petre - Franco-Zorrilla, J.M. - Solano, R. - Lopez-Vidriero, I. - Motyka, Václav - Lutts, S.

The Solanum lycopersicum Zinc Finger2 Cysteine-2/Histidine-2 Repressor-Like Transcription Factor Regulates Development and Tolerance to Salinity in Tomato and Arabidopsis(1[W]).

Plant Physiology. Roč. 164, č. 4 (2014), s. 1967-1990. ISSN 0032-0889

R&D Projects: GA ČR(CZ) GAP506/11/0774

Institutional Support: RVO:61389030

Keywords: RICE ORYZA-SATIVA * AGROBACTERIUM-MEDIATED TRANSFORMATION * TARGET-SEQUENCE RECOGNITION

Subject RIV: EF - Botany

Impact factor: 7.394, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234682>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429983 - UEB-Q 2015 RIV US eng J - Journal Article

Holčáková, J. - Müller, P. - Tomasec, P. - Hrstka, R. - Nekulová, M. - Kryštof, Vladimír - Strnad, Miroslav - Wilkinson, G. W. G. - Vojtěšek, B.

Inhibition of Post-Transcriptional RNA Processing by CDK Inhibitors and Its Implication in Anti-Viral Therapy.

PLoS ONE. Roč. 9, č. 2 (2014). ISSN 1932-6203

R&D Projects: GA ČR GBP206/12/G151

Institutional Support: RVO:61389030

Keywords: IMMUNODEFICIENCY-VIRUS TYPE-1 * DEPENDENT KINASE INHIBITORS * LARGE T-ANTIGEN

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.534, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234927>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431515 - UEB-Q 2015 RIV GB eng J - Journal Article

Chen, Y.N. - Aung, K. - Rolčík, Jakub - Walicki, K. - Friml, J. - Brandizzi, F.

Inter-regulation of the unfolded protein response and auxin signaling.

Plant Journal. Roč. 77, č. 1 (2014), s. 97-107. ISSN 0960-7412

Institutional Support: RVO:61389030

Keywords: endoplasmic reticulum stress * unfolded protein response * auxin response

Subject RIV: ED - Physiology

Impact factor: 6.815, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236117>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431597 - FGU-C 2015 RIV US eng J - Journal Article

Jakubík, Jan - Zimčík, Pavel - Randáková, Alena - Fuksová, Květoslava - El-Fakahany, E. E. - Doležal, Vladimír

Molecular Mechanisms of Methoctramine Binding and Selectivity at Muscarinic Acetylcholine Receptors.

Molecular Pharmacology. Roč. 86, č. 2 (2014), s. 180-192. ISSN 0026-895X

R&D Projects: GA ČR(CZ) GAP304/12/0259; GA ČR(CZ) GA305/09/0681

Institutional Support: CEZ:AV0Z50110509

Institutional Support: RVO:67985823 ; RVO:61389030

Keywords: muscarinic receptors * selectivity * methoctramine * allosteric * FRET

Subject RIV: ED - Physiology

Impact factor: 4.120, year: 2013

Jakubík, Jan

Permanent link: <http://hdl.handle.net/11104/0236229>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0429974 - UEB-Q 2015 RIV US eng J - Journal Article

Jindřichová, Barbora - Burketová, Lenka - Novotná, Z.

Novel properties of antimicrobial peptide anoplin.

Biochemical and Biophysical Research Communications. Roč. 444, č. 4 (2014), s. 520-524. ISSN 0006-291X

R&D Projects: GA ČR GA522/09/1693

Institutional Support: RVO:61389030

Keywords: Anoplin * Antimicrobial peptide * Antifungal

Subject RIV: EE - Microbiology, Virology

Impact factor: 2.281, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234921>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429595 - UEB-Q 2015 RIV GB eng J - Journal Article

Kollmer, I. - Novák, Ondřej - Strnad, Miroslav - Schmülling, T. - Werner, T.

Overexpression of the cytosolic cytokinin oxidase/dehydrogenase (CKX7) from Arabidopsis causes specific changes in root growth and xylem differentiation.

Plant Journal. Roč. 78, č. 3 (2014), s. 359-371. ISSN 0960-7412

Institutional Support: RVO:61389030

Keywords: xylem differentiation * Arabidopsis thaliana * cytokinin oxidase/dehydrogenase

Subject RIV: ED - Physiology

Impact factor: 6.815, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234680>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429984 - UEB-Q 2015 RIV US eng J - Journal Article

Kopecký, David - Studer, B.

Emerging technologies advancing forage and turf grass genomics.

Biotechnology Advances. Roč. 32, č. 1 (2014), s. 190-199. ISSN 0734-9750

R&D Projects: GA ČR(CZ) GAP501/11/0504

Institutional Support: RVO:61389030

Keywords: Cytogenetics * Epigenetics * Genome-wide association studies (GWAS)

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 8.905, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234928>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429541 - UEB-Q 2015 RIV CH eng J - Journal Article

Kopel, P. - Doležal, Karel - Langer, V. - Jun, D. - Adam, V. - Kuca, K. - Kizek, R.

Trithiocyanurate Complexes of Iron, Manganese and Nickel and Their Anticholinesterase Activity.

Molecules. Roč. 19, č. 4 (2014), s. 4338-4354. ISSN 1420-3049

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0068; GA MŠk(CZ) LO1204

Institutional Support: RVO:61389030

Keywords: crystal structure * trimercaptotriazine * trithiocyanuric acid

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.095, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234632>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429973 - UEB-Q 2015 RIV US eng J - Journal Article

Kubeš, Martin - Drážná, N. - Konrádová, H. - Lipavská, H.

Robust carbohydrate dynamics based on sucrose resynthesis in developing Norway spruce somatic embryos at variable sugar supply.

In Vitro Cellular and Developmental Biology - Plant. Roč. 50, č. 1 (2014), s. 45-57. ISSN 1054-5476

Institutional Support: RVO:61389030

Keywords: Sucrose * Raffinose family oligosaccharides * Picea abies

Subject RIV: EF - Botany

Impact factor: 1.162, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234920>

- [WOS](#)
- [DOI](#)

- [Inst. Repository](#)

0429326 - UEB-Q 2015 RIV CH eng J - Journal Article

Kulich, I. - Žárský, Viktor

Autophagy-Related Direct Membrane Import from ER/Cytoplasm into the Vacuole or Apoplast: A Hidden Gateway also for Secondary Metabolites and Phytohormones?.

International Journal of Molecular Sciences. Roč. 15, č. 5 (2014), s. 7462-7474. ISSN 1422-0067

R&D Projects: GA ČR(CZ) GAP305/11/1629

Institutional Support: RVO:61389030

Keywords: autophagy * ER stress * ER body

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.339, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234450>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429537 - UEB-Q 2015 RIV GB eng J - Journal Article

Kutil, Zsófia - Temml, V. - Maghradze, D. - Příbylová, Marie - Dvořáková, Marcela - Schuster, D. - Vaněk, Tomáš - Landa, Přemysl

Impact of Wines and Wine Constituents on Cyclooxygenase-1, Cyclooxygenase-2, and 5-Lipoxygenase Catalytic Activity. *Mediators of Inflammation*. Roč. 2014, UNSP 178931 (2014). ISSN 0962-9351

R&D Projects: GA MŠk(CZ) LD11005; GA MŠk 7AMB13AT008

Institutional Support: RVO:61389030

Keywords: HEART-DISEASE * PLATELET-AGGREGATION * CARDIOVASCULAR-DISEASE

Subject RIV: GM - Food Processing

Impact factor: 2.417, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234629>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429538 - UEB-Q 2015 RIV US eng J - Journal Article

Kvasnica, Miroslav - Okleštková, Jana - Bazgier, Václav - Rárová, Lucie - Berka, K. - Strnad, Miroslav

Biological activities of new monohydroxylated brassinosteroid analogues with a carboxylic group in the side chain. *Steroids*. Roč. 85, JUL 2014 (2014), s. 58-64. ISSN 0039-128X

R&D Projects: GA MŠk LK21306; GA MŠk(CZ) LO1204

Not R&D Projects: GA MŠk ED2.1.00/03.0058

Institutional Support: RVO:61389030

Keywords: Anticancer activity * Brassinosteroids * Organic synthesis

Subject RIV: EF - Botany

Impact factor: 2.716, year: 2013

<http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=C&DestLinkType=FullRecord&UT=000337652700008>

Permanent link: <http://hdl.handle.net/11104/0234630>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431517 - UEB-Q 2015 RIV GB eng J - Journal Article

Lindner, A.C. - Lang, D. - Seifert, M. - Podlešáková, Kateřina - Novák, Ondřej - Strnad, Miroslav - Reski, R. - von Schwartzenberg, K.

Isopentenyltransferase-1 (IPT1) knockout in *Physcomitrella* together with phylogenetic analyses of IPTs provide insights into evolution of plant cytokinin biosynthesis.

Journal of Experimental Botany. Roč. 65, č. 9 (2014), s. 2533-2543. ISSN 0022-0957

R&D Projects: GA MŠk(CZ) LO1204

Institutional Support: RVO:61389030

Keywords: isopentenyltransferases * isopentenyladenosine * cytokinin

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 5.794, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236573>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429540 - UEB-Q 2015 RIV IE eng J - Journal Article

Matoušková, J. - Janda, M. - Fišer, R. - Šašek, Vladimír - Kocourková, Daniela - Burketová, Lenka - Dušková, J. - Martinec, Jan - Valentová, O.

Changes in actin dynamics are involved in salicylic acid signaling pathway.

Plant Science. Roč. 223, JUN 2014 (2014), s. 36-44. ISSN 0168-9452

R&D Projects: GA ČR(CZ) GAP501/11/1654

Institutional Support: RVO:61389030

Keywords: Actin dynamics * Salicylic acid * PR genes

Subject RIV: CE - Biochemistry

Impact factor: 4.114, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234631>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429978 - UEB-Q 2015 RIV US eng J - Journal Article

Milec, Zbyněk - Valárik, Miroslav - Bartoš, Jan - Šafář, Jan

Can a late bloomer become an early bird? Tools for flowering time adjustment.

Biotechnology Advances. Roč. 32, č. 1 (2014), s. 200-214. ISSN 0734-9750

R&D Projects: GA ČR GAP501/10/1778; GA ČR GAP501/10/1740

Not R&D Projects: GA MŠk(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: Flowering * Photoperiod * Vernalization

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 8.905, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234923>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429328 - UEB-Q 2015 RIV DE eng J - Journal Article

Molnár, I. - Kubaláková, Marie - Šimková, Hana - Farkas, A. - Cseh, A. - Megyeri, M. - Vrána, Jan - Molnár-Láng, M. - Doležel, Jaroslav

Flow cytometric chromosome sorting from diploid progenitors of bread wheat, *T. urartu*, *Ae. speltoides* and *Ae. tauschii*.

Theoretical and Applied Genetics. Roč. 127, č. 5 (2014), s. 1091-1104. ISSN 0040-5752

R&D Projects: GA ČR GBP501/12/G090

Not R&D Projects: GA MŠk(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: SYNTHETIC HEXAPLOID WHEAT * AEGILOPS-TRITICUM GROUP * GENETIC-LINKAGE MAP

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.507, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234452>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429594 - UEB-Q 2015 RIV US eng J - Journal Article

Nair, J. J. - Rárová, L. - Strnad, Miroslav - Bastida, J. - Cheesman, L. - van Staden, J.

Crinane Alkaloids of the Amaryllidaceae with Cytotoxic Effects in Human Cervical Adenocarcinoma (HeLa) Cells. *Natural Product Communications*. Roč. 9, č. 4 (2014), s. 461-466. ISSN 1934-578X

R&D Projects: GA MŠk(CZ) LO1204

Institutional Support: RVO:61389030

Keywords: Alkaloid * Amaryllidaceae * Apoptosis

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 0.924, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234683>

- [SCOPUS](#)
- [WOS](#)

0430448 - BC-A 2015 RIV US eng J - Journal Article

Novák, Petr - Hřibová, Eva - Neumann, Pavel - Koblížková, Andrea - Doležel, Jaroslav - Macas, Jiří

Genome-Wide Analysis of Repeat Diversity across the Family Musaceae.

PLoS ONE. Roč. 9, č. 6 (2014), e98918. ISSN 1932-6203

R&D Projects: GA MŠk(CZ) LH11058; GA ČR GBP501/12/G090; GA MŠk(CZ) LO1204; GA MŠk(CZ) LG12021

Institutional Support: RVO:60077344 ; RVO:61389030

Keywords: Generation sequencing reveals * transposable elements * retrotransposons

Subject RIV: EB - Genetics & Molecular Biology; EB - Genetics & Molecular Biology

Impact factor: 3.534, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235382>

- [WOS](#)
- [DOI](#)

0429992 - UEB-Q 2015 RIV US eng J - Journal Article

Pavlíková, D. - Zemanová, V. - Procházková, Dagmar - Pavlík, Milan - Száková, J. - Wilhelmová, Naděžda

The long-term effect of zinc soil contamination on selected free amino acids playing an important role in plant adaptation to stress and senescence.

Ecotoxicology and Environmental Safety. Roč. 100, FEB 2014 (2014), s. 166-170. ISSN 0147-6513

R&D Projects: GA ČR(CZ) GAP501/11/1239

Institutional Support: RVO:61389030

Keywords: Amino acid * Cytokinins * Senescence

Subject RIV: EF - Botany

Impact factor: 2.482, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234936>

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0429987 - UEB-Q 2015 RIV CH eng J - Journal Article

Pleskot, Roman - Pejchar, Přemysl - Staiger, Ch. J. - Potocký, Martin

When fat is not bad: the regulation of actin dynamics by phospholipid signaling molecules.

Frontiers in Plant Science. Roč. 5, JAN 2014 (2014). ISSN 1664-462X

R&D Projects: GA ČR GA13-19073S

Institutional Support: RVO:61389030

Keywords: actin * actin-binding proteins * capping protein

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.637, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234931>

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0429592 - UEB-Q 2015 RIV GB eng J - Journal Article

Potocký, Martin - Pleskot, Roman - Pejchar, Přemysl - Vitale, N. - Kost, B. - Žárský, Viktor

Live-cell imaging of phosphatidic acid dynamics in pollen tubes visualized by Spo20p-derived biosensor.

New Phytologist. Roč. 203, č. 2 (2014), s. 483-494. ISSN 0028-646X

R&D Projects: GA ČR GA13-19073S

Institutional Support: RVO:61389030

Keywords: live-cell microscopy * *Nicotiana tabacum* (tobacco) * phosphatidic acid (PA)

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 6.736, year: 2012

<http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=CC&DestLinkType=FullRecord&UT=000337639800015>

Permanent link: <http://hdl.handle.net/11104/0234678>

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0432116 - UEB-Q 2015 RIV GB eng J - Journal Article

Poursarebani, N. - Nussbaumer, T. - Šimková, Hana - Šafář, Jan - Witsenboer, H. - van Oeveren, J. - Doležel, Jaroslav - Mayer, K. F. X. - Stein, N. - Schnurbusch, T.

Whole-genome profiling and shotgun sequencing delivers an anchored, gene-decorated, physical map assembly of bread wheat chromosome 6A.

Plant Journal. Roč. 79, č. 2 (2014), s. 334-347. ISSN 0960-7412

Institutional Support: RVO:61389030

Keywords: bread wheat chromosome 6A * whole-genome profiling * LINEAR TOPOLOGICAL CONTIGS

Subject RIV: EB - Genetics & Molecular Biology

Permanent link: <http://hdl.handle.net/11104/0236761>

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0429939 - UEB-Q 2015 RIV CZ eng J - Journal Article

Procházková, Dagmar - Haisel, Daniel - Pavlíková, D.

Nitric oxide biosynthesis in plants - the short overview.

Plant, Soil and Environment. Roč. 60, č. 3 (2014), s. 129-134. ISSN 1214-1178

R&D Projects: GA ČR(CZ) GAP501/11/1239

Institutional Support: RVO:61389030

Keywords: nitrate reductase * NOS like enzyme

Subject RIV: EF - Botany

Impact factor: 1.113, year: 2013

<http://www.agriculturejournals.cz/publishedArticles/PSE/2014-60-3-129>

Permanent link: <http://hdl.handle.net/11104/0234903>

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0429554 - UEB-Q 2015 RIV PL eng J - Journal Article

Procházková, Dagmar - Haisel, Daniel - Pavlíková, D. - Száková, J. - Wilhelmová, Naděžda

The impact of increased soil risk elements on carotenoid contents.

Central European Journal of Biology. Roč. 9, č. 7 (2014), s. 678-685. ISSN 1895-104X

R&D Projects: GA ČR(CZ) GAP501/11/1239

Institutional Support: RVO:61389030

Keywords: Arsenic * Cadmium * Zinc

Subject RIV: EF - Botany

Impact factor: 0.633, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234645>

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0429990 - UEB-Q 2015 RIV DE eng J - Journal Article

Randhawa, M. - Bansal, U. - Valárik, Miroslav - Klocová, Barbora - Doležel, Jaroslav - Bariana, H.

Molecular mapping of stripe rust resistance gene Yr51 in chromosome 4AL of wheat.

Theoretical and Applied Genetics. Roč. 127, č. 2 (2014), s. 317-324. ISSN 0040-5752

R&D Projects: GA ČR GAP501/10/1740

Institutional Support: RVO:61389030

Keywords: TRITICUM-AESTIVUM L. * DIVERSITY ARRAYS * MAP

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.507, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234934>

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- [DOI](#)
- [Inst. Repository](#)

0429991 - UEB-Q 2015 RIV US eng J - Journal Article

Reňák, David - Gíbalová, Antónia - Šolcová, Katarzyna - Honys, David

A new link between stress response and nucleolar function during pollen development in Arabidopsis mediated by AtREN1 protein.

Plant Cell and Environment. Roč. 37, č. 3 (2014), s. 670-683. ISSN 0140-7791

R&D Projects: GA ČR(CZ) GAP501/11/1462; GA ČR(CZ) GAP305/12/2611; GA MŠk(CZ) LD11018; GA MŠk(CZ) LD13049

Institutional Support: RVO:61389030

Keywords: heat shock response * heat shock transcription factor * male gametophyte development

Subject RIV: ED - Physiology

Impact factor: 5.906, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234935>

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0429986 - UEB-Q 2015 RIV US eng J - Journal Article

Rubia, L. - Rangan, L. - Kamínek, Miroslav - Dobrev, Petre - Malbeck, Jiří - Fowler, M. - Khush, G. - Elliott, M.

Changes in the Chlorophyll Content and Cytokinin Levels in the Top Three Leaves of New Plant Type Rice During Grain Filling.

Journal of Plant Growth Regulation. Roč. 33, č. 1 (2014), s. 66-76. ISSN 0721-7595

R&D Projects: GA MŠk 1M06030

Institutional Support: RVO:61389030

Keywords: Chlorophyll * Cytokinins * Grain filling

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.058, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234930>

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0429525 - UEB-Q 2015 RIV US eng J - Journal Article

Rybak, K. - Steiner, A. - Synek, Lukáš - Klaeger, S. - Kulich, I. - Facher, E. - Wanner, G. - Kuster, B. - Žárský, Viktor - Persson, S. - Assaad, F.F.

Plant Cytokinesis Is Orchestrated by the Sequential Action of the TRAPP II and Exocyst Tethering Complexes.

Developmental Cell. Roč. 29, č. 5 (2014), s. 607-620. ISSN 1534-5807

R&D Projects: GA ČR GPP501/11/P853; GA ČR(CZ) GAP305/11/1629

Institutional Support: RVO:61389030

Keywords: CELL-PLATE FORMATION * POST-GOLGI TRAFFICKING * PLASMA-MEMBRANE

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 10.366, year: 2013

<http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=CC&DestLinkType=FullRecord&UT=000337644700012>

Permanent link: <http://hdl.handle.net/11104/0234627>

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- [Inst. Repository](#)

0429938 - UEB-Q 2015 RIV DE eng J - Journal Article

Seifertová, Daniela - Skůpa, Petr - Rychtář, J. - Laňková, Martina - Pařezová, Markéta - Dobrev, Petre - Hoyerová, Klára - Petrášek, Jan - Zažimalová, Eva

Characterization of transmembrane auxin transport in Arabidopsis suspension-cultured cells.

Journal of Plant Physiology. Roč. 171, č. 6 (2014), s. 429-437. ISSN 0176-1617

R&D Projects: GA ČR(CZ) GAP305/11/0797

Institutional Support: RVO:61389030

Keywords: Auxin influx * Auxin efflux * Auxin metabolic profiling

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 2.770, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234902>

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0431025 - UEB-Q 2015 RIV US eng J - Journal Article

Sieper, T. - Forczek, Sándor - Matucha, Miroslav - Kraemer, P. - Hartmann, A. - Schroeder, P.

N-acyl-homoserine lactone uptake and systemic transport in barley root upon active parts of the plant.

New Phytologist. Roč. 201, č. 2 (2014), s. 545-555. ISSN 1469-8137

Institutional Support: RVO:61389030

Keywords: barley (*Hordeum vulgare*) * monoclonal antibodies * N-acyl-homoserine lactones (HSLs)

Subject RIV: EF - Botany

Impact factor: 6.373, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235670>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431229 - BC-A 2015 RIV GB eng J - Journal Article

Sirová, D. - Šantrůček, Jiří - Adamec, Lubomír - Bárta, J. - Borovec, Jakub - Pech, J. - Owens, S.M. -

Šantrůčková, H. - Schaeufele, R. - Štorchová, Helena - Vrba, Jaroslav

Dinitrogen fixation associated with shoots of aquatic carnivorous plants: is it ecologically important?.

Annals of Botany. Roč. 114, č. 1 (2014), s. 125-133. ISSN 0305-7364

R&D Projects: GA ČR(CZ) GAP504/11/0783

Not R&D Projects: GA MŠk(CZ) LM2010005

Institutional Support: RVO:60077344 ; RVO:67985939 ; RVO:61389030

Keywords: *Aldrovanda vesiculosa* * aquatic carnivorous plants * *Utricularia vulgaris* * nitrogen fixation

Subject RIV: CE - Biochemistry; EF - Botany; EF - Botany

Impact factor: 3.295, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235820>

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0429931 - UEB-Q 2015 RIV GB eng J - Journal Article

Soudek, Petr - Petrová, Šárka - Vaňková, Radomíra - Song, J. - Vaněk, Tomáš

Accumulation of heavy metals using *Sorghum* sp.

Chemosphere. Roč. 104, JUN 2014 (2014), s. 15-24. ISSN 0045-6535

R&D Projects: GA MŠk LH12162; GA MŠk(CZ) LD13029

Institutional Support: RVO:61389030

Keywords: *Sorghum* * Cadmium * Zinc

Subject RIV: EF - Botany

Impact factor: 3.499, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234896>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0429934 - UEB-Q 2015 RIV CH eng J - Journal Article

Staeher, P. - Loettgert, T. - Christmann, A. - Krueger, S. - Rosar, Ch. - Rolčík, Jakub - Novák, Ondřej - Strnad, Miroslav - Bell, K. - Weber, A.P.M. - Fluegge, U-I. - Haeusler, R.E.

Reticulate leaves and stunted roots are independent phenotypes pointing at opposite roles of the phosphoenolpyruvate/phosphate translocator defective in *cue1* in the plastids of both organs.

Frontiers in Plant Science. Roč. 5, APR 2014 (2014). ISSN 1664-462X

R&D Projects: GA MŠk(CZ) LO1204

Institutional Support: RVO:61389030

Keywords: secondary metabolism * phosphate translocator * phosphoenolpyruvate

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.637, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234898>

- [WOS](#)
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0429591 - UEB-Q 2015 RIV FR eng J - Journal Article

Stirk, W. A. - Balint, P. - Tarkowská, Danuše - Novák, Ondřej - Maroti, G. - Ljung, K. - Turečková, Veronika - Strnad, Miroslav - Ordog, V. - van Staden, J.

Effect of light on growth and endogenous hormones in *Chlorella minutissima* (Trebouxioophyceae).

Plant Physiology and Biochemistry. Roč. 79, JUN 2014 (2014), s. 66-76. ISSN 0981-9428

R&D Projects: GA ČR GA206/09/1284; GA MŠk LK21306; GA MŠk(CZ) LO1204

Not R&D Projects: GA MŠk(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: Abscissic acid * Auxins * Brassinosteroids

Subject RIV: EF - Botany

Impact factor: 2.352, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234677>

- [WOS](#)
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0429988 - UEB-Q 2015 RIV US eng J - Journal Article

Stirk, W. A. - Tarkowská, Danuše - Turečková, Veronika - Strnad, Miroslav - van Staden, J.

Abscisic acid, gibberellins and brassinosteroids in Kelpak (R), a commercial seaweed extract made from *Ecklonia maxima*.

Journal of Applied Phycology. Roč. 26, č. 1 (2014), s. 561-567. ISSN 0921-8971

R&D Projects: GA MŠK LK21306; GA ČR GA206/09/1284

Not R&D Projects: GA MŠK(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: Abscisic acid * Agricultural biostimulant * Brassinosteroids

Subject RIV: EF - Botany

Impact factor: 2.492, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234932>

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- [DOI](#)
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0429989 - UEB-Q 2015 RIV CH eng J - Journal Article

Synek, Lukáš - Sekereš, Juraj - Žárský, Viktor

The exocyst at the interface between cytoskeleton and membranes in eukaryotic cells.

Frontiers in Plant Science. Roč. 4, JAN 2014 (2014). ISSN 1664-462X

R&D Projects: GA ČR GPP501/11/P853

Institutional Support: RVO:61389030

Keywords: exocyst * actin cytoskeleton * microtubule cytoskeleton

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.637, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234933>

- [WOS](#)
- [DOI](#)
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0429596 - UEB-Q 2015 RIV GB eng J - Journal Article

Tiwari, V.K. - Wang, S. C. - Sehgal, S. - Vrána, Jan - Friebe, B. - Kubaláková, Marie - Chhuneja, P. - Doležel, Jaroslav - Akhunov, E. D. - Kalia, B. - Sabir, J. - Gill, B. S.

SNP Discovery for mapping alien introgressions in wheat.

B M C Genomics. Roč. 15, APR 10 (2014). ISSN 1471-2164

R&D Projects: GA ČR GBP501/12/G090

Not R&D Projects: GA MŠK(CZ) ED0007/01/01

Institutional Support: RVO:61389030

Keywords: RUST-RESISTANCE GENES * TRITICUM-AESTIVUM L. * SINGLE-NUCLEOTIDE POLYMORPHISMS

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 4.041, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234681>

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0429933 - UEB-Q 2015 RIV NL eng J - Journal Article

Vaňková, Radomíra - Kosová, K. - Dobrev, Petre - Vítámvás, P. - Trávníčková, Alena - Cvikrová, Milena - Pešek, Bedřich - Gaudinová, Alena - Přerostová, Sylva - Musilová, J. - Galiba, G. - Prášil, I.T.

Dynamics of cold acclimation and complex phytohormone responses in Triticum monococcum lines G3116 and DV92 differing in vernalization and frost tolerance level.

Environmental and Experimental Botany. Roč. 101, MAY 2014 (2014), s. 12-25. ISSN 0098-8472

R&D Projects: GA ČR GA522/09/2058

Not R&D Projects: GA ČR GPP501/11/P637

Institutional Support: RVO:61389030

Keywords: Cold stress * Dehydrin * Einkorn wheat

Subject RIV: ED - Physiology

Impact factor: 3.003, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234897>

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