

## Wykaz publikacji Katedry Biologii Komórki (2013-2017)

### 2017

Betekhtin A., Rojek M., Jaskowiak J., Milewska-Hendel A., Kwasniewska J., Kostyukova Y., Kurczynska E., Rumyantseva N., Hasterok R. 2017. Nuclear genome stability in long-term cultivated callus lines of *Fagopyrum tataricum*. PLOS one 12(3). DOI: 10.1371/journal.pone.0173537

Dobrowolska I., Businge E., Abreu I.N., Moritz T., Egertsdotter U. 2017. Metabolome and transcriptome profiling reveal new insights into somatic embryo germination in Norway spruce (*Picea abies*). Tree Physiology 00, 1-15. DOI:10.1093/treephys/tpx078

Kwiatkowska D., Nakielski J., Kurczynska E.U. 2017. In Memoriam: Zygmunt Hejnowicz (1929-2016). Plant Signaling & Behavior 12(4): e1303593.

Mazur E., Friml J. 2017. Vascular tissue development and regeneration in the model plant Arabidopsis. In: Snježana Jurić (ed.) „Plant Engineering”, InTech, Rijeka, ISBN 978-953-51-5282-8.

Milewska-Hendel A., Baczewska A.H., Sala K., Dmuchowski W., Brągoszewska P., Gozdowski D., Jozwiak A., Chojnacki T., Swiezewska E., Kurczynska E. 2017. Quantitative and qualitative characteristics of cell wall components and prenyl lipids in the leaves of *Tilia x euchlora* trees growing under salt stress. PLOS one 12(2), DOI: 10.1371/journal.pone.0172682.

Milewska-Hendel A., Polak M., Sala K., Zieleznik-Rusinowska P., Gawecki R., Kurczyńska E. 2017. Morpho-histological analysis of tomato plants (*Solanum lycopersicum* L.) after treatment with juglone. Acta Agrobotanica 70(2), DOI: 10.5586/aa.1701.

Milewska-Hendel A., Zubko M., Karcz J., Stróż D., Kurczyńska E. 2017. Fate of neutral-charged gold nanoparticles in the roots of the *Hordeum vulgare* L. cultivar Karat. Scientific Reports (Nature Publishing Group) 7(3014), DOI: 10.1038/s41598-017-02965-w.

Sala K., Malarz K., Barlow P.W., Kurczyńska E.U. 2017. Distribution of some pectic and arabinogalactan protein epitopes during *Solanum lycopersicum* (L.) adventitious root development. BMC Plant Biology 17:25. DOI: 10.1186/s12870-016-0949-3.

### 2016

Betekhtin A., Rojek M., Milewska-Hendel A., Gawecki R., Karcz J., Kurczynska E., Hasterok R. 2016. Spatial Distribution of Selected Chemical Cell Wall Components in the Embryogenic Callus of *Brachypodium distachyon*. PLOS ONE. DOI:10.1371/journal.pone.0167426

Dobrowolska I., Andrade G.M., Clapham D., Egertsdotter U. 2016. Histological analysis reveals the formation of shoots rather than embryos in regenerating cultures of *Eucalyptus globulus*. Plant Cell, Tissue and Organ Culture. DOI: 10.1007/s11240-016-1111-5

Gawecki R., Sala K., Kurczyńska E., Świątek P., Płachno P.J. 2016. Immunodetection of some pectic, arabinogalactan proteins and hemicellulose epitopes in the micropylar

transmitting tissue of apomictic dandelions (*Taraxacum*, Asteraceae, Lactuceae). *Protoplasma*. DOI 10.1007/s00709-016-0980-0

Kościarz-Grzesiok A., Sieroń-Stołtny K., Polak M., Sieroń A., Karcz W. 2016. Effect of low frequency pulsed magnetic field on gravitropic response and cell elongation in coleoptiles of maize seedlings. *Gen. Physiol. Biophys* 35: 417–424

Mazur E., Benková E., Friml J. 2016. Vascular cambium regeneration and vessel formation in wounded inflorescence stems of *Arabidopsis*. *Scientific Reports*, 6:33754. DOI: 10.1038/srep33754

Rocha D.I., Kurczyńska E., Potocka I., Steinmacher D.A., Otoni W.C. 2016. Histology and Histochemistry of Somatic Embryogenesis. In: *Somatic Embryogenesis: Fundamental Aspects and Applications*. Loyola-Vargas W.M., Ochoa-Alejo N. (Editors): 471-495

Wróbel-Marek J., Kurczyńska E., Płachno B.J., Kozieradzka-Kiszkurno M. 2016. Identification of symplasmic domains in the embryo and seed of *Sedum acre* L. (Crassulaceae). *Planta*. DOI 10.1007/s00425-016-2619-y

## 2015

Dobrowolska I., Kwasniewska J., Barlow P.W., Kurczynska EU. 2015. The fate of surface cell layers of *Daucus carota* (L.) embryos raised in suspension culture, *Plant Biosystems*. DOI: 10.1080/11263504.2014.989288

Płachno B.J., Kurczyńska E., Świątek P. 2015. Integument cell differentiation in dandelions (*Taraxacum*, Asteraceae, Lactuceae) with special attention paid to plasmodesmata. *Protoplasma*. DOI 10.1007/s00709-015-0894-2

Wróbel-Marek J., Kulińska-Łukaszek K., Kurczyńska E.U. 2015. Komunikacja symplastowa i jej rola w rozwoju roślin. *Postępy Biologii Komórki* 42(3): 573-594.

## 2014

Białek J., Potocka I., Szymanowska-Pułka J. 2014. Various scenarios of the cell pattern formation in *Arabidopsis* lateral root. *Acta Societatis Botanicorum Poloniae* 83(1): 85-89.

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Mazur E., Kurczyńska E.U., Friml J. 2014. Cellular events during interfascicular cambium ontogenesis in inflorescence stems of *Arabidopsis*. *Protoplasma* 251(5): 1125-1139.

Muszynska A., Jarocka K., Kurczynska E.U. 2014. Plasma membrane and cell wall properties of an aspen hybrid (*Populus tremula x tremuloides*) parenchyma cells under the influence of salt stress. *Acta Physiol Plant* 36: 1155–1165.

**2013**

Rudnicka M., Polak M., Karcz W. 2013. Cellular responses to naphthoquinones: juglone as a case study. *Plant Growth Regulation*. DOI 10.1007/s10725-013-9855-y

Sala K., Potocka I., Kurczyńska E. 2013. Spatio-temporal distribution and methylesterification of pectic epitopes provide evidence of developmental regulation of pectins during somatic embryogenesis in *Arabidopsis thaliana*. *Biologia Plantarum* 57(3): 410-416.