Ceny ředitele 2015

Kategorie „vědecká publikace“ (SCIENTIFIC PAPERS)

1) **David Kopečný**

Končitíková R, Vigouroux A, Kopečná M, Andree T, Bartoš J, Šebela M, Moréra S, **Kopečný D** (2015) Role and structural characterization of plant aldehyde dehydrogenases from family 2 and family 7. *Biochem. J*. 468 (1), 109-123.

Kopečný D, Končitíková R, Popelka H, Briozzo P, Vigouroux A, Kopečná M, Zalabák D, Šebela M, Skopalová J, Frébort I, Moréra S (2015) Kinetic and structural investigation of the cytokinin oxidase/dehydrogenase active site. *FEBS J*., in press.

2) **Marek Rác**

Rác M, Křupka M, Binder S, Sedlářová M, Matušková Z, Raška M, Pospíšil P (2015) Oxidative damage of U937 human leukemic cells caused by hydroxyl radical results in singlet oxygen formation. *Plos One* 10 (3), e0116958.

Rác M, Sedlářová M, Pospíšil P (2015) The formation of electronically excited species in the human multiple myeloma cell suspension. *Sci. Rep*. 5, 8882.

3) **Jitka Prachařová**

Pracharova J, Saltarella T, Radosova Muchova T, Scintilla S, Novohradsky V, Novakova O, Intini FP, Pacifico C, Natile G, Ilik P, Brabec V, Kasparkova J (2015) Novel antitumor cisplatin and transplatin derivatives containing 1-methyl-7-azaindole: Synthesis, characterization, and cellular responses. *J. Med. Chem. 58* (2), 847-859.

4) **Ondřej Novák**

Antoniadi I, Plačková L, Simonovik B, Doležal K, Turnbull C, Ljung K, **Novák O** (2015) Cell-type-specific cytokinin distribution within the Arabidopsis primary root apex. *Plant Cell* 27 (7), 1955-1967.

5) **Josef Vrabka**

Hinsch J, **Vrabka J**, Oeser B, Novák O, Galuszka P, Tudzynski P (2015) *De novo* biosynthesis of cytokinins in the biotrophic fungus *Claviceps purpurea*. *Environ. Microbiol*. 17 (8), 2935-2951.

- shared first autorship

6) **Miroslav Ovečka**

Ovečka M, Vaškebová L, Komis G, Luptovčiak I, Smertenko A, Šamaj J (2015) Preparation of plants for developmental and cellular imaging by light-sheet microscopy. *Nat. Protoc*. 10 (8), 1234-1247.

7) **George Komis**

Komis G, Šamajová O, Ovečka M, Šamaj J (2015) Super-resolution microscopy in plant cell imaging. *Trends Plant Sci*., in press. DOI:10.1016/j.tplants.2015.08.013

Komis G, Mistrík M, Šamajová O, Ovečka M, Bartek J, Šamaj J (2015) Superresolution live imaging of plant cells using structured illumination microscopy. *Nat. Protoc*. 10 (8), 1248-1263.

Komis G, Luptovčiak I, Doskočilová A, Šamaj J (2015) Biotechnological aspects of cytoskeletal regulation in plants. *Biotechnol Adv*. 33 (6/2), 1043-1062.

8) **Helena Staňková**

Staňková H, Valárik M, Lapitan NLV, Berkman PJ, Batley J, Edwards D, Luo MC, Tulpová Z, Kubaláková M, Stein N, Doležel J, Šimková H (2015) Chromosomal genomics facilitates fine mapping of a Russian wheat aphid resistance gene. *Theor. Appl. Genet*. 128 (7), 1373-1383.

9) **Kateřina Holušová (born Cviková)**

Cviková K, Cattonaro F, Alaux M, Stein N, Mayer KF, Doležel J, Bartoš J (2015) High-throughput physical map anchoring via BAC-pool sequencing. *BMC Plant Biol*. 15, 99.

10) **Petr Cápal**

Cápal P, Blavet N, Vrána J, Kubaláková M, Doležel J (2015) Multiple displacement amplification of the DNA from single flow–sorted plant chromosome. *Plant J*. 84, 838–844.

Kategorie „Výsledky v grantových soutěžích" (GRANTS)

1) **Petr Tarkowski**

GA ČR, GA15-16888S, Aromatic and isoprenoid cytokinins in poplar: biosynthesis and perception (2015-2017)

MŠMT ČR, 6. FP, 7AMB15AT004, Effects of strigolactone analogues on subcellular distribution of dynamic PIN proteins in Arabidopsis (2015-2016)

2) **Radek Jorda**

GA ČR, GJ15-17282Y, Chemical genetic analysis of role of cyclin-dependent kinases in cancer cell lines (2015-2017)

Kategorie „Patenty, užitné vzory a smluvní výzkum" (PATENTS, UTILITY MODELS, CONTRACTUAL RESEARCH)

1) **Marek Zatloukal**

Zatloukal M, Doležal K, Voller J, Spíchal L, Strnad M (2015) Substitution derivatives of N6 - benzyladenosine-5'-monophosphate, methods of preparation thereof, use thereof as medicaments, and therapeutic preparations containing these compounds, Univerzita Palackého v Olomouci a BioApex, s.r.o., US patent č. 9,073,961.

2) **Radek Koprna** – for a set of utility models

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for cereal grasses, Palacký University Olomouc and Fosfa a.s., utility model No. 27979.

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for tomato-type and leafy vegetables, Palacký University Olomouc and Fosfa a.s., utility model No. 27980.

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for oilseed rape feeding, Palacký University Olomouc and Fosfa a.s., utility model No. 27981.

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for maize feeding, Palacký University Olomouc and Fosfa a.s., utility model No. 27982.

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for barley feeding, Palacký University Olomouc and Fosfa a.s., utility model No. 27983.

Koprna R, Valenta R, Spíchal L, Plíhalová L, Strnad M, Doležal K (2015) Multicomponent liquid fertilizer, suitable particularly for cereal grasses, Palacký University Olomouc and Fosfa a.s., utility model No. 27984.