PUBLIKACJE 2018

Kaczmarek B., Sionkowska A., Osyczka A.M. (2018) Physicochemical properties of scaffolds based on mixtures of chitosan, collagen and glycosaminoglycans with nano-hydroxyapatite addition. International Journal of Biological Macromolecules 118: 1880

Kaczmarek B., Sionkowska A., Gołyńska M., Polkowska I., Szponder T., Nehrbass D., Osyczka A.M. (2018) *In vivo* study on scaffolds based on chitosan, collagen, and hyaluronic acid with hydroxyapatite. International Journal of Biological Macromolecules 118: 938

Kaczmarek B., Sionkowska A., Osyczka A.M. (2018) Scaffolds based on chitosan and collagen with glycosaminoglycans cross-linked by tannic acid. Polymer Testing 65: 163

Kaczmarek B., Sionkowska A., Osyczka A.M. (2018) The application of chitosan/collagen/hyaluronic acid sponge cross-linked by dialdehyde starch addition as a matrix for calcium phosphate *in situ* precipitation. International Journal of Biological Macromolecules 107 (Part A): 470

Kaczmarek B., Sionkowska A., Kozlowska J., Osyczka A.M. (2018) New composite materials prepared by calcium phosphate precipitation in chitosan/collagen/hyaluronic acid sponge cross-linked by EDC/NHS. International Journal of Biological Macromolecules 107 (Part A): 247

Boczkal S., Karaś M., Osyczka A.M., Lech-Grega M. (2018) Biodegradable Mg–Y and Mg–Li alloys with the addition of Ca and Zn for medical applications. Minerals, Metals and Materials Series Part F7: 399

Kaczmarek B., Sionkowska A., Monteiro F.J., Carvalho A., Łukowicz K., Osyczka A.M. (2018) Characterization of gelatin and chitosan scaffolds cross-linked by addition of dialdehyde starch. Biomedical Materials (Bristol) 13(1): 015016-1-11

Kleszczynski K., Bilska B., Stegemann A., Flis D.J., Ziolkowski W., Pyza E., Luger T.A., Reiter R.J., Bohm M., and Slominski A.T. (2018) Melatonin and its metabolites ameliorate UVR-induced mitochondrial oxidative stress in human MNT-1 melanoma cells. Int. J. Mol. Sci. 19: 3786. doi:10.3390/ijms19123786.

Kryściak K., Majerczak J., Kryściak J., Łochyński D., Kaczmarek D., Drzymała-Celichowska H., Krutki P., Gawedzka A., Guzik M., Korostynski M., Szkutnik Z., Pyza E., Jarmuszkiewicz W., Zoladz J.A., Celichowski J. (2018) Adaptation of motor unit contractile properties in rat medial gastrocnemius to treadmill endurance training: Relationship to muscle mitochondrial biogenesis. PLoS ONE 13(4): e0195704; doi.org/10.1371/journal.pone.0195704.

Krzeptowski W., Hess G. Pyza E. (2018) Circadian plasticity in the brain of insects and rodents. Front. Neural Circuits 12: 32. DOI:10.3389/fncir.2018.00032.

Piprek R., Damulewicz M., Kloc M., Kubiak JZ. (2018) Transcriptome analysis identifies genes involved in sex determination and development of *Xenopus laevis* gonads. Differentiation 100:46-56.

Mazzotta G., Massimo Bellanda M., Minervini G., Damulewicz M., Cusumano P., Aufiero S., Stefani M., Zambelli B., Mammi S., Costa R., Tosatto S. (2018) Calmodulin Enhances Cryptochrome Binding to INAD in *Drosophila* Photoreceptors. Frontiers in Molecular Neuroscience 11: 280.

Damulewicz M., Pyza E. (2018) Determination of DNA damage in the retina photoreceptors of *Drosophila*. Bio-protocols 8(3): e2708

Doktór B., Damulewicz M., Krzeptowski W., Bednarczyk B., Pyza E.M. (2018) Effect of PINK1 mutation on synapses and behavior in the brain of *Drosophila melanogaster*. Acta Neurobiol Exp (Wars). 78:231-241.

Damulewicz M., Świątek M., Łoboda A., Dulak J., Bilska B., Przewłocki R., Pyza E. (2018) Daily regulation of phototransduction,circadian clock DNA repair and immune gene expression by heme oxygenase in the retina of *Drosophila melanogaster*. Genes (Basel). 10(1). pii: E6. doi: 10.3390/genes10010006.

van der Ent A., Przybyłowicz W.J., de Jong M.D., Harris H.H., Ryan C.G., Tylko G., Paterson D.J., Barnabas A.D., Kopittke P.M., Mesjasz-Przybyłowicz J. (2018) X-ray elemental mapping techniques for elucidating the ecophysiology of hyperaccumulator plants. New Phytologist 218(2): 432-452

Stępień E.L., Durak-Kozica M., Kamińska A., Targosz-Korecka M., Libera M., Tylko G., Opalińska A., Kapusta M., Solnica B., Georgescu A., Costa M.C., Czyżewska-Buczyńska A., Witkiewicz W., Małecki M.T., Enguita F.J. (2018) Circulating ectosomes: determination of angiogenic microRNA in type 2 diabetes. Theranostics 8(14): 3874-3890

Bilska B., Doktór B., Pyza E. (2018). Rytmy biologiczne i mechanizm zegara okołodobowego w mózgu – nagroda Nobla 2017; Wszechświat (2018) tom 119, str. 43-51