

SPIS PUBLIKACJI

INSTYTUTU BIOLOGII DOŚWIADCZALNEJ
IM. M. NENCKIEGO PAN
ZA ROK 2016¹

1. **Augustynek B., Wrzosek A., Koprowski P., Kielbasa A., Bednarczyk P., Łukasiak A., Dołowy K., Szewczyk A. (2016)**
Czego nie wiemy o mitochondrialnych kanałach potasowych?
Postępy Biochem. **62**, 189-198
2. **Bajor M., Zareba-Kozioł M., Zhukova L., Goryca K., Poznański J., Wysłouch-Cieszyńska A. (2016)**
An interplay of S-nitrosylation and metal ion binding for astrocytic S100B protein.
PLoS One, **11**, e0154822. doi: 10.1371/journal.pone.0154822
3. **Bandorowicz-Pikuła J., Woś M., Sekrecka-Belniak A., Pikuła S. (2016)**
Aneksyny mitochondriów.
Postępy Biochem. **62**, 216-223
4. **Basu S., Plewczyński D., Saha S., Roszkowska M., Magnowska M., Baczyńska E., Włodarczyk J. (2016)**
2dSpAn: semiautomated 2-d segmentation, classification and analysis of hippocampal dendritic spine plasticity.
Bioinformatics, **32**, 2490-2498
5. **Beck M.L., Błaszczak J.W. (2016)**
New directional indices of postural sway - influence of gender effects in young healthy subjects.
W: Current research in motor control. V: Bridging motor control and biomechanics. Eds. Słomka K.J., Juras G., Katowice : Wydawnictwo Akademii Wychowania Fizycznego im. Jerzego Kukuczki, s. 11-17
6. **Bednarczyk J., Dębski K.J., Bot A.M., Łukasiuk K. (2016)**
MBD3 expression and DNA binding patterns are altered in a rat model of temporal lobe epilepsy.
Sci. Rep., **6**, 33736 ; doi: 10.1038/srep33736

¹ Pogrubioną czcionką wyróżniono nazwiska autorów podających afiliację IBD. Podkreślono nazwiska, w których autor podaje też drugą afiliację.

7. *Bednarski M., Otto M., Dudek M., Kołaczkowski M., Bucki A., Siwek A., Groszek G., Maziarz E., Wilk P., Sapa J. (2016)*
Synthesis and pharmacological activity of a new series of 1-(1H-indol-4-yloxy)-3-(2-(2-methoxyphenoxy)ethylamino)propan-2-ol analogs.
Arch. Pharm. (Weinheim), **349**, 211-223
8. *Bednarski T., Olichwier A., Opasińska A., Pyrkowska A., Gan A.M., Ntambi J.M., Dobrzyń P. (2016)*
Stearoyl-CoA desaturase 1 deficiency reduces lipid accumulation in the heart by activating lipolysis independently of peroxisome proliferator-activated receptor α .
Biochim. Biophys. Acta - Mol. Cell Biol. Lipids, **1861**, 2029-2037
9. *Bednarski T., Pyrkowska A., Opasińska A., Dobrzyń P. (2016)*
Białkowe czynniki lipogenne - rola w regulacji metabolizmu i funkcji mięśnia sercowego.
Post. Hig. Med. Dośw., **70**, 644-653
10. *Bekisz M., Bogdan W., Ghazaryan A., Waleszczyk W.J., Kublik E., Wróbel A. (2016)*
The primary visual cortex is differentially modulated by stimulus-driven and top-down attention.
PLoS One, **11**, e0145379. doi: 10.1371/journal.pone.0145379
11. *Bernatowicz P.P., Kotwica-Rolińska J., Joachimiak E., Sikora A., Polańska M.A., Pijanowska J., Bębas P. (2016)*
Temporal expression of the clock genes in the water flea *Daphnia pulex* (Crustacea: Cladocera).
J. Exp. Zool. A, **325**, 233-254
12. *Białkowska M., Boguszewski P., Pokorski M. (2016)*
Breathing in Parkinsonism in the rat.
Adv. Exp. Med. Biol., **884**, 1-11
13. *Biały M., Bogacki-Rychlik W., Kasarełło K., Nikolaev E., Sajdel-Sulkowska E.M. (2016)*
Modulation of 22-khz postejaculatory vocalizations by conditioning to new place: Evidence for expression of a positive emotional state.
Behav. Neurosci., **130**, 415-421
14. *Bielski K., Falkiewicz M., Kolada E., Szatkowska I. (2016)*
Metody przyżyciowego (in vivo) określania organizacji ciała migdałowatego u ludzi – aktualny stan wiedzy.
Aktual. Neurol., **16**, s. 187-193, doi: 10.15557/AN.2016.0024
15. *Bierzyńska M., Bielecki M., Marchewka A., Dębowska W., Duszyk A., Zajkowski W., Falkiewicz M., Nowicka A., Strelau J., Kossut M. (2016)*
Effect of frustration on brain activation pattern in subjects with different temperament.
Front. Psychol., **6**, art. no 1989 ; doi: 10.3389/fpsyg.2015.01989

16. **Błaszczyk J.W. (2016)**
Parkinson's disease and neurodegeneration: GABA-collapse hypothesis.
Front. Neurosci., **10**, art. no 269 ; doi: 10.3389/fnins.2016.00269
17. **Błaszczyk J.W. (2016)**
The use of force-plate posturography in the assessment of postural instability.
Gait Posture, **44**, 1-6
18. **Błaszczyk J.W., Beck M., Szczepańska J., Sadowska D., Bacik B., Juras G., Słomka K. (2016)**
Directional measures of postural sway as predictors of balance instability and accidental falls.
J. Hum. Kinet., **52**, 75-83
19. **Błaszczyk J.W., Opala-Berdzik A., Plewa M. (2016)**
Adaptive changes in spatiotemporal gait characteristics in women during pregnancy.
Gait Posture, **43**, 160-164
20. **Bobak Y., Kurlishchuk Y., Vynnytska-Myronovska B., Grydzuk O., Shuvayeva G., Rędownicz M.J., Kunz-Schughart L.A., Stasyk O. (2016)**
Arginine deprivation induces endoplasmic reticulum stress in human solid cancer cells.
Int. J. Biochem. Cell Biol., **70**, 29-38
21. **Bokota G., Magnowska M., Kuśmierczyk T., Łukasik M., Roszkowska M., Plewczyński D. (2016)**
Computational approach to dendritic spine taxonomy and shape transition analysis.
Front. Comput. Neurosci., **10**, art. no 140 ; doi: 10.3389/fncom.2016.00140
22. **Bola Ł., Siuda-Krzywicka K., Paplińska M., Sumera E., Hańczur P., Szwed M. (2016)**
Braille in the sighted: teaching tactile reading to sighted adults.
PLoS One, **11**, e0155394 ; doi: 10.1371/journal.pone.0155394
23. **Bola M., Borchardt V. (2016)**
Cognitive processing involves dynamic reorganization of the whole-brain network's functional community structure.
J. Neurosci., **36**, 3633-3635
24. **Bonora M., Morganti C., Morciano G., Giorgi C., Więckowski M.R., Pinton P. (2016)**
Comprehensive analysis of mitochondrial permeability transition pore activity in living cells using fluorescence-imaging-based techniques.
Nat. Protoc., **11**, 1067-1080
25. **Butoi E., Gan A.M., Tucureanu M.M., Stan D., Macarie R.D., Constantinescu C., Calin M., Simionescu M., Manduteanu I. (2016)**
Cross-talk between macrophages and smooth muscle cells impairs collagen and metalloprotease synthesis and promotes angiogenesis.
Biochim. Biophys. Acta Mol. Cell Res., **1863**, 1568-1578

26. *Campos Y., Qiu X., Gomero E., Wakefield R., Horner L., Brutkowski W., Han Y.G., Solecki D., Frase S., Bongiovanni A., d'Azzo A. (2016)*
 Alix-mediated assembly of the actomyosin-tight junction polarity complex preserves epithelial polarity and epithelial barrier.
 Nat. Commun., **7**, art. no 11876 ; doi: 10.1038/ncomms11876
27. *Cangkrama M., Darido C., Georgy S.R., Partridge D., Auden A., Srivastava S., Wilanowski T., Jane S.M. (2016)*
 Two ancient gene families are critical for maintenance of the mammalian skin barrier in postnatal life.
 J. Invest. Dermatol., **136**, 1438-1448
28. *Charzyńska A., Gambin A. (2016)*
 Improvement of the k -NN entropy estimator with applications in systems biology.
 Entropy, **18**, art. no 13, doi: 10.3390/e18010013
29. *Ciccarone F., Malavolta M., Calabrese R., Guastafierro T., Bacalini M.G., Reale A., Franceschi C., Capri M., Hervonen A., Hurme M., Grubeck-Loebenstien B., Koller B., Bernhardt J., Schön C., Slagboom P.E., Toussaint O., **Sikora E.**, Gonos E.S., Breusing N., Grune T., Jansen E., Dollé M., Moreno-Villanueva M., Sindlinger T., Bürkle A., Zampieri M., Caiafa P. (2016)*
 Age-dependent expression of *DNMT1* and *DNMT3B* in PBMCs from a large European population enrolled in the MARK-AGE study.
 Aging Cell, **15**, 755-765
30. *Ciechomska I.A., Przanowski P., Jackl J., Wojtaś B., Kamińska B. (2016)*
 BIX01294, an inhibitor of histone methyltransferase, induces autophagy-dependent differentiation of glioma stem-like cells.
 Sci. Rep., **6**, art. no 38723 ; doi: 10.1038/srep38723
31. *Cieślińska-Świder J., Błaszczuk J.W. (2016)*
 Effects of body weight reduction on postural stability.
 W: Current research in motor control. V: Bridging motor control and biomechanics. Eds. Słomka K., Juras G., Katowice : Wydawnictwo Akademii Wychowania Fizycznego im. Jerzego Kukuczki, s. 56-61
32. *Cybulska-Kłosowicz A. (2016)*
 Behavioral verification of associative learning in whiskers-related fear conditioning in mice.
 Acta Neurobiol. Exp., **76**, 87-97
33. *Czupryn A. (2016)*
 Terapie komórkowe a prekursorzy neuronalne w mózgu dorosłych ssaków.
 Kosmos, **65**, 163-175

34. *Czyżewska U., Siemieniuk M., Pyrkowska A., Nowakiewicz A., Biegańska M., Dąbrowska I., Bartoszewicz M., Dobrzyń P., Tylicki A. (2016)*
Comparison of lipid profiles of *Malassezia pachydermatis* strains isolated from dogs with *otitis externa* and without clinical symptoms of disease.
Mycoses, **59**, 20-27
35. *Dąbrowska M., Skoneczny M., Zieliński Z., Rode W. (2016)*
Wnt signaling in regulation of biological functions of the nurse cell harboring *Trichinella* spp.
Parasit. Vectors, **9**, art. no 483 ; doi: 10.1186/s13071-016-1770-4.
36. *Dacewicz A., Nowak K., Szeląg E. (2016)*
Temporal Information Processing and language skills in children with Specific Language Impairment.
W: *Recent Advances in Nonlinear Speech Processing*. Eds. Esposito A., Faundez-Zanuy M., Esposito A.M., Cordasco G., Drugman T., Solé-Casals J., Morabito F.C., Springer, s. 45-52
(*Smart Innovation, Systems and Technologies*, vol. 48)
37. *Daszczuk P.E., Prószyński T. J. (2016)*
Hippo signaling pathway transcription co-activator YAP is localized to podosomes/invadopodia in Src-transformed NIH-3T3 fibroblasts.
Sci. Matters, doi: 10.19185/matters.201602000035
38. *Dębowska W., Wolak T., Nowicka A., Kozak A., Szwed M., Kossut M. (2016)*
Functional and structural neuroplasticity induced by short-term tactile training based on braille reading.
Front. Neurosci., **10**, art. no 460 ; doi: 10.3389/fnins.2016.00460
39. *Dębska A., Luniewska M., Chyl K., Banaszkiwicz A., Żelechowska A., Wypych M., Marchewka A., Pugh K.R., Jednoróg K. (2016)*
Neural basis of phonological awareness in beginning readers with familial risk of dyslexia - Results from shallow orthography.
NeuroImage, **132**, 406-416
40. *Dębski K.J., Pitkanen A., Puhakka N., Bot A.M., Khurana I., Harikrishnan K.N., Ziemann M., Kaspi A., El-Osta A., Łukasiuk K., Kobow K. (2016)*
Etiology matters - genomic DNA methylation patterns in three rat models of acquired epilepsy.
Sci. Rep., **6**, art. no 25668 ; doi: 10.1038/srep25668
41. *Domin H., Przykaza Ł., Jantas D., Koźniewska E., Boguszewski P.M., Śmiałowska M. (2016)*
Neuroprotective potential of the group III mGlu receptor agonist ACPT-I in animal models of ischemic stroke: *In vitro* and *in vivo* studies.
Neuropsychopharmacology, **102**, 276-294
42. *Drabik K., Malińska D., Duszyński J., Szczepanowska J. (2016)*
Mechanizmy transportu i dystrybucji mitochondriów w komórce.
Postępy Biochem. **62**, 182-188

43. **Duda W., Węsierska M., Ostaszewski P., Vales K., Nekovarova T., Stuchlik A. (2016)**
MK-801 and memantine act differently on short-term memory tested with different time-intervals in the Morris water maze test.
Behav. Brain Res., **311**, 15-23
44. **Dymkowska D. (2016)**
Oksydacyjne uszkodzenia śródbłonna naczyniowego w cukrzycy typu 2 – udział mitochondriów i oksydazy NAD(P)H.
Postępy Biochem. **62**, 116-126
45. **Eden E.R., Sanchez-Heras E., Tsapara A., Sobota A., Levine T.P., Futter C.E. (2016)**
Annexin A1 tethers membrane contact sites that mediate ER to endosome cholesterol transport.
Dev. Cell, **37**, 473-483
46. **Ehrlich H., Motylenko M., Sundareshwar P.V., Ereskovsky A., Zglobicka I., Noga T., Płociński T., Tsurkan M.V., Wyroba E., Suski S., Bilski H., Wysokowski M., Stöcker H., Makarova A., Vyalikh D., Walter J., Molodtsov S.L., Bazhenov V.V., Petrenko I., Langer E., Richter A., Niederschlag E., Pisarek M., Springer A., Gelinsky M., Rafaja D., Witkowski A., Meyer D.C., Jesionowski T., Kurzydłowski K.J. (2016)**
Multiphase biomineralization: Enigmatic invasive siliceous diatoms produce crystalline calcite.
Adv. Funct. Mater., **26**, 2503-2510
47. **Ejsmont-Karabin J., Górniak A., Jekatierynczuk-Rudczyk E., Karpowicz M., Więcko A. (2016)**
Long-term changes in the trophic state of Suwalski lakes – an analysis by means of indices based on abundance and composition of their rotifer fauna.
Limnol. Rev., **16**, 199-205
48. **Ejsmont-Karabin J., Górniak A., Karpowicz M. (2016)**
Diversity of rotifer communities in lakes of the Suwalski Landscape Park.
Limnol. Rev., **16**, 207-211
49. **Ellert-Miklaszewska A., Dallavalle S., Musso L., Martinet N., Wojnicki K., Kamińska B. (2016)**
Identification of new scaffolds with anti-tumor action toward human glioblastoma cells.
Med. Chem. Commun., **7**, 2428-2434
50. **Ellert-Miklaszewska A., Wiśniewski P., Kijewska M., Gajdanowicz P., Pszczółkowska D., Przanowski P., Dąbrowski M., Maleszewska M., Kamińska B. (2016)**
Tumour-processed osteopontin and lactadherin drive the protumorigenic reprogramming of microglia and glioma progression.
Oncogene, **35**, 6366-6377

51. *Fendler W., Madzio J., Koziński K., Patel K., Janikiewicz J., Szopa M., Tracz A., Borowiec M., Jarosz-Chobot P., Myśliwiec M., Szadkowska A., Hattersley A.T., Ellard S., Malecki M.T., Dobrzyń A., Młynarski W. (2016)*
Differential regulation of serum microRNA expression by HNF1 β and HNF1 α transcription factors.
Diabetologia, **59**, 1463-1473
52. *Feniova I.Yu., Rzepecki M., Zilitinkevich N.S., Kostrzevska-Szlakowska I., Krylov A.V., Majsak N.N., Petrosyan V.G., Razlutskiy V.I., Dzialowski A.R. (2016)*
Experimental impacts of fish on small and large cladocerans under eutrophic conditions.
Inland Water Biol., **9**, 375-381
53. *Francois-Moutal L., Ouberai M.M., Maniti O., Welland M.E., Strzelecka-Kiliszek A., Woś M., Piłkuła S., Bandorowicz-Piłkuła J., Marcillat O., Granjon T. (2016)*
Two-step membrane binding of NDPK-B induces membrane fluidity decrease and changes in lipid lateral organization and protein cluster formation.
Langmuir, **32**, 12923-12933
54. *Gajewska-Woźniak O., Grycz K., Czarkowska-Bauch J., Skup M. (2016)*
Electrical stimulation of low-threshold proprioceptive fibers in the adult rat increases density of glutamatergic and cholinergic terminals on ankle extensor α -motoneurons.
PLoS One, **11**, e0161614 ; doi: 10.1371/journal.pone.0161614
55. *Gierzyng A., Kamińska B. (2016)*
Myeloid-derived suppressor cells in gliomas.
Contemp. Oncol., **20**, 345-351
56. *Giese K.P., Radwańska K. (2016) (red.)*
Novel mechanisms of memory.
Eds. Giese K.P., Radwańska K. Cham-Heidelberg: Springer, s. VII, 181
ISBN 978-3-319-24362-7
57. *Gingras J., Gawor M., Bernadzki K.M., Grady R.M., Hallock P., Glass D.J., Sanes J.R., Prószyński T.J. (2016)*
 α -Dystrobrevin-1 recruits Grb2 and α -catulin to organize neurotransmitter receptors at the neuromuscular junction.
J. Cell Sci., **129**, 898-911
58. *Giorgi C., Bonora M., Missiroli S., Morganti C., Morciano G., Więckowski M.R., Pinton P. (2016)*
Alterations in mitochondrial and endoplasmic reticulum signaling by p53 mutants.
Front. Oncol., **6**: 42 ; doi: 10.3389/fonc.2016.00042
59. *Głąbska H., Chintaluri C.H., Wójcik D.K. (2016)*
Thalamocortical-network.
RepOD ; doi: 10.18150/repod.6394793

60. **Głabska H.T., Norheim E., Devor A., Dale A.M., Einevoll G.T., Wójcik D.K. (2016)**
Generalized Laminar Population Analysis (gLPA) for interpretation of multielectrode data from cortex.
Front. Neuroinform., **10**, art. no 1 ; doi: 10.3389/fninf.2016.00001
61. **Godzińska E.J. (2016) - commentary**
Human and ant social behavior should be compared in a very careful way to draw valid parallels.
Behav. Brain Sci., **39**, 21-22
62. **Gola M., Wordecha M., Marchewka A., Sescousse G. (2016)**
Visual Sexual Stimuli - cue or reward? A perspective for interpreting brain imaging findings on human sexual behaviors.
Front. Hum. Neurosci., **10**, art. no 402 ; doi: 10.3389/fnhum.2016.00402
63. **Góral A., Bieganowski P., Prus W., Krzemień-Ojak Ł., Kądziołka B., Fabczak H., Filipek A. (2016)**
Calcyclin binding protein/Siah-1 interacting protein is a Hsp90 binding chaperone.
PLoS One, **11**, e0156507 ; doi: 10.1371/journal.pone.0156507
64. **Grabowska A. (2016)**
Plastyczny mózg - "używaj albo trać".
Wszechświat, **117**, 20-28
65. **Grabowska A. (2016)**
Płeć mózgu: mity czy fakty. Spojrzenie z perspektywy obrazowania mózgu.
W: Nauka w służbie człowiekowi. Pod red. Dobierzewskiej-Mozrzymskiej E., Jezierskiego A. Wrocław: Oficyna Wydawnicza ATUT - Wrocławskie Wydawnictwo Oświatowe, s. 243-261
(Studium Generale Universitatis Wratislaviensis im. Profesora Jana Mozrzymskiego, vol. XX)
66. **Grabowska W., Suszek M., Wnuk M., Lewińska A., Wasiak E., Sikora E., Bielak-Żmijewska A. (2016)**
Curcumin elevates sirtuin level but does not postpone in vitro senescence of human cells building the vasculature.
Oncotarget, **7**, 19201-19213
67. **Gregorczyk K.P., Wyżewski Z., Struzik J., Szczepanowska J., Szulc-Dąbrowska L. (2016)**
Changes in the mitochondrial network morphology and functional parameters of mitochondria in murine L929 cells during ectromelia virus infection.
W: DIAGMOL 2016. XVII Conference on "Molecular biology in diagnostics of infectious diseases and biotechnology". Warsaw University of Life Sciences - SGGW, Crystal Hall - Warsaw, Poland, 5 November 2016. Warsaw : SGGW, s. 54-57

68. **Hall M.H., Magalska A., Malinowska M., Ruszczycki B., Czaban I., Patel S., Ambrożek-Latecka M., Zołocińska E., Broszkiewicz H., Parobczak K., Nair R.R., Rylski M., Pawlak R., Bramham C.R., Wilczyński G.M. (2016)**
Localization and regulation of PML bodies in the adult mouse brain.
Brain Struct. Funct., **221**, 2511 - 2525
69. **Hamed A., Daszczuk P., Kursa M.B., Turzyńska D., Sobolewska A., Lehner M., Boguszewski P.M., Szyndler J. (2016)**
Non-parametric analysis of neurochemical effects and Arc expression in amphetamine-induced 50-kHz ultrasonic vocalization.
Behav. Brain Res., **312**, 174-185
70. **Havekes R., Park A.J., Tudor J.C., Luczak V.G., Hansen R.T., Ferri S.L., Bruinenberg V.M., Poplawski S.G., Day J.P., Aton S.J., Radwańska K., Meerlo P., Houslay M.D., Baillie G.S., Abel T. (2016)**
Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1.
eLife, **5**, e13424 ; doi: 10.7554/eLife.13424
71. **Jarosiński J., Kasprowicz G., Juszczyk B., Krawczyk R., Puścian A., Sowiński M., Kulik P., Knapska E., Przywózki T., Rasiński P., Mankiewicz L. (2016)**
Miniature subcutaneous optogenetic device.
In: Photonics applications in astronomy, communications, industry, and high-energy physics experiments 2016. Ed. Romaniuk R. Bellingham, WA : Society of Photo-Optical Instrumentation Engineers, s. 1003139-1-1003139-6, art no. 1003139 ; doi: 10.1117/12.2249288
(Proceedings of SPIE, vol. 10031)
72. **Jasińska M., Milek J., Cymerman I.A., Łęski S., Kaczmarek L., Dziembowska M. (2016)**
miR-132 regulates dendritic spine structure by direct targeting of matrix metalloproteinase 9 mRNA.
Mol. Neurobiol., **53**, 4701-4712
73. **Jasińska M., Siucińska E., Jasek E., Litwin J.A., Pyza E., Kossut M. (2016)**
Effect of associative learning on memory spine formation in mouse barrel cortex.
Neural Plast., **2016**, art. ID 9828517 ; doi: 10.1155/2016/9828517
74. **Jaworska-Wilczyńska M., Trzaskoma P., Szczepankiewicz A.A., Hryniewiecki T. (2016)**
Pericardium: structure and function in health and disease.
Folia Histochem. Cytobiol. **54**, s. 121-125, doi: 10.5603/FHC.a2016.0014
75. **Juraszek B., Nałęcz K.A. (2016)**
Protein phosphatase PP2A - a novel interacting partner of carnitine transporter OCTN2 (SLC22A5) in rat astrocytes.
J. Neurochem., **139**, 537-551

76. **Jurewicz K., Cordi M.J., Staudigl T., Rasch B. (2016)**
No evidence for memory decontextualization across one night of sleep.
Front. Hum. Neurosci., **10**, art. no 7 ; doi: 10.3389/fnhum.2016.00007
77. **Kamińska B., Mota M., Pizzi M. (2016)**
Signal transduction and epigenetic mechanisms in the control of microglia activation during neuroinflammation.
Biochim. Biophys. Acta -Mol. Basis Dis., **1862**, 339-351
78. **Kasacka I., Piotrowska Ż., Filipek A., Majewski M. (2016)**
Influence of doxazosin on biosynthesis of S100A6 and atrial natriuretic factor peptides in the heart of spontaneously hypertensive rats.
Exp. Biol. Med. (Maywood), **241**, 375-381
79. **Kawalec M., Beręsewicz M., Zabłocki K., Zabłocka B. (2016)**
Mitofuzyna 2 i dynamika mitochondriów w normie i patologii.
Postępy Biochem. **62**, 149-157
80. **Khan M.I., Dębski K.J., Dąbrowski M., Czarnecka A.M., Szczylik C. (2016)**
Gene set enrichment analysis and ingenuity pathway analysis of metastatic clear cell renal cell carcinoma cell line.
Am. J. Physiol. Renal. Physiol., **311**, F424-F436
81. **Kicińska A., Augustynek B., Kulawiak B., Jarmuszkiewicz W., Szewczyk A., Bednarczyk P. (2016)**
A large-conductance calcium-regulated K⁺ channel in human dermal fibroblast mitochondria.
Biochem. J., **473**, 4457-4471
82. **Klionsky D.J., Abdelmohsen K., Abe A., Abedin M.J., Abeliovich H., Acevedo Arozena A., Adachi H., Adams C.M., Adams P.D., Adeli K., Adhihetty P.J., Adler S.G., Agam G., Agarwal R., Aghi M.K., Agnello M., Agostinis P., Ciechomska I.A., et al. (2016)**
Guidelines for the use and interpretation of assays for monitoring autophagy (3rd ed.).
Autophagy, **12**, 1-222
83. **Knapska E., Kaczmarek L. (2016)**
Matrix Metalloproteinase 9 (MMP-9) in learning and memory.
W: Novel mechanisms of memory. Eds. Giese K.P., Radwańska K. Cham-Heidelberg: Springer, s. 161-181
84. **Konopka A., Zeug A., Skupień A., Kaza B., Mueller F., Chwedorowicz A., Ponimaskin E., Wilczyński G.M., Dzwonek J. (2016)**
Cleavage of hyaluronan and CD44 adhesion molecule regulate astrocyte morphology via Rac1 signalling..
PLoS One, **11**, e0155053 ; doi: 10.1371/journal.pone.0155053

85. *Konopka A., Winter D., Konopka W., Estela Del Castillo Busto M., Nunez S., Goenaga-Infante H., Fisticaro P., Lehmann W.D. (2016)*
[Sec-to-Cys]selenoprotein – a novel type of recombinant, full-length selenoprotein standard for quantitative proteomics.
J. Anal. At. Spectrom., **31**, 1929-1938 ; doi: 10.1039/C6JA00123H
86. *Kossut M. (2016)*
Engram.
Wszechświat, **117**, 28-32
87. *Kotłowska I., Nowicka A. (2016)*
Present-self, past-self and the close-other: neural correlates of assigning trait adjectives to oneself and others.
Eur. J. Neurosci., **44**, 2064-2071
88. *Kowalewska Ł., Mazur R., Suski S., Garstka M., Mostowska A. (2016)*
Three-dimensional visualization of the tubular-lamellar transformation of the internal plastid membrane network during runner bean chloroplast biogenesis.
Plant Cell, **28**, 875-891
89. *Koziński K., Jazurek M., Dobrzyń P., Janikiewicz J., Kolczyńska K., Gajda A., Dobrzyń A. (2016)*
Adipose- and muscle-derived Wnts trigger pancreatic β -cell adaptation to systemic insulin resistance.
Sci. Rep., **6**, art. ID 31553 ; doi: 10.1038/srep31553
90. *Krawczyk R., Puścian A., Kasprowicz G., Sowiński M., Jarosiński J., Kulik P., Czajkowski R., Knapska E., Kowalski J., Rusakov K., Przywózki T., Rasiński P., Juszczyk B., Mankiewicz L. (2016)*
Implementation of control system for optogenetic devices and home-cage environments.
In: Photonics applications in astronomy, communications, industry, and high-energy physics experiments 2016. Ed. Romaniuk R. Bellingham, WA : Society of Photo-Optical Instrumentation Engineers, s. 100312P-1-100312P-9, art. no 100312P ; doi: 10.1117/12.2248792
(Proceedings of SPIE, vol. 10031)
91. *Kuipers K., Diavatopoulos D.A., van Opzeeland F., Simonetti E., van den Kieboom C.H., Kerstholt M., Borczyk M., van IngenSchenau D., Brandsma E.T., Netea M.G., de Jonge M.I. (2016)*
Antigen-independent restriction of pneumococcal density by mucosal adjuvant cholera toxin subunit B.
J. Infect. Dis., **214**, 1588-1596
92. *Kuźnicki L. (2016)*
Aleksander Gieysztor – prezes Akademii czasów przełomów.
Nauka, nr **3**, 191-193

93. **Kuźnicki L. (2016)**
W nawiązaniu do książki Macieja Władysława Grabskiego "O nauce w Polsce - Zamyślenie".
Nauka, nr 2, 203-207
94. **Kuźniewska B., Nader K., Dąbrowski M., Kaczmarek L., Kalita K. (2016)**
Adult deletion of SRF increases epileptogenesis and decreases activity-induced gene expression.
Mol. Neurobiol., 53, 1478-1493
95. **Laskowski M., Kulawiak B. (2016)**
Topologia mitochondrialnych kanałów potasowych.
Postępy Biochem., 62, 199-205
96. **Laskowski M., Augustynek B., Kulawiak B., Koprowski P., Bednarczyk P., Jarmuszkiewicz W., Szewczyk A. (2016)**
What do we not know about mitochondrial potassium channels?
Biochim. Biophys. Acta - Bioenergetics, 1857, 1247-1257
97. **Liguz-Lęcznar M., Urban-Ciećko J., Kossut M. (2016)**
Somatostatin and somatostatin-containing neurons in shaping neuronal activity and plasticity.
Front. Neural Circuits, 10, art. no 48 ; doi: 10.3389/fncir.2016.00048
98. **Litwiniuk A., Pijet B., Pijet-Kucicka M., Gajewska M., Pajak B., Orzechowski A. (2016)**
FOXO1 and GSK-3 β are main targets of insulin-mediated myogenesis in C2C12 muscle cells.
PLoS One, 11, e0146726 ; doi: 10.1371/journal.pone.0146726
99. **Ludwiczak J., Maj P., Wilk P., Frączyk T., Ruman T., Kierdaszuk B., Jarmuła A., Rode W. (2016)**
Phosphorylation of thymidylate synthase affects slow-binding inhibition by 5-fluoro-dUMP and N⁴-hydroxy-dCMP.
Mol. BioSyst., 12, s. 1333-1341
100. **Łabuz J., Samardakiewicz S., Hermanowicz P., Wyroba E., Pilarska M., Gabryś H. (2016)**
Blue light-dependent changes in loosely bound calcium in Arabidopsis mesophyll cells: an X-ray microanalysis study.
J. Exp. Bot., 67, 3953-3964
101. **Łepeta K., Lourenco M.V., Schweitzer B.C., Martino Adami P.V., Banerjee P., Catuara-Solarz S., de La Fuente Revenga M., Guillem A.M., Haidar M., Ijomone O.M., Nadorp B., Qi L., Perera N.D., Refsgaard L.K., Reid K.M., Sabbar M., Sahoo A., Schaefer N., Sheean R.K., Suska A., Verma R., Vicidomini C., Wright D., Zhang X.D., Seidenbecher C. (2016)**
Synaptopathies: synaptic dysfunction in neurological disorders - A review from students to students.
J. Neurochem., 138, 785-805

- 102.** *Lukasiak A., Skup A., Chlopicki S., Lomnicka M., Kaczara P., Proniewski B., Szewczyk A., Wrzosek A. (2016)*
SERCA, complex I of the respiratory chain and ATP-synthase inhibition are involved in pleiotropic effects of NS1619 on endothelial cells.
Eur. J. Pharmacol., **786**, 137-147
- 103.** *Lukasiewicz K., Robacha M., Bożycki Ł., Radwańska K., Czajkowski R. (2016)*
Simultaneous two-photon in vivo imaging of synaptic inputs and postsynaptic targets in the mouse retrosplenial cortex.
J. Vis. Exp., **109**, e53528 ; doi: 10.3791/53528.
- 104.** *Mabelis A.A., Korczyńska J. (2016)*
Long-term impact of agriculture on the survival of wood ants of the *Formica rufa* group (*Formicidae*).
J. Insect. Conserv., **20**, 621-628
- 105.** *Magnowska M., Górkiwicz T., Suska A., Wawrzyniak M., Rutkowska-Włodarczyk I., Kaczmarek L., Włodarczyk J. (2016)*
Transient ECM protease activity promotes synaptic plasticity.
Sci. Rep., **6**, art. no 27757 ; doi: 10.1038/srep27757.
- 106.** *Majka P., Chaplin T.A., Yu H.H., Tolpygo A., Mitra P.P., Wójcik D.K., Rosa M.G.P. (2016)*
Towards a comprehensive atlas of cortical connections in a primate brain: Mapping tracer injection studies of the common marmoset into a reference digital template.
J. Comp. Neurol., **524**, 2161-2181
- 107.** *Majka P., Wójcik D.K. (2016)*
Possum - A framework for three-dimensional reconstruction of brain images from serial sections.
Neuroinformatics, **14**, 265-278
- 108.** *Malinowska M., Niewiadomska M., Węsierska M. (2016)*
Spatial memory formation differentially affects c-Fos expression in retrosplenial areas during place avoidance training in rats.
Acta Neurobiol. Exp., **76**, 244-256
- 109.** *Mamińska A., Bartosik A., Banach-Orłowska M., Pilecka I., Jastrzębski K., Zdżalik-Bielecka D., Castanon I., Poulain M., Neyen C., Wolińska-Nizioł L., Toruń A., Szymańska E., Kowalczyk A., Piwocka K., Simonsen A., Stenmark H., Fürthauer M., González-Gaitán M., Mięczyńska M. (2016)*
ESCRT proteins restrict constitutive NF-κB signaling by trafficking cytokine receptors.
Sci. Signal., **9**, art. no ra8 ; doi: 10.1126/scisignal.aad0848

110. **Marchewka A., Wypych M., Michałowski J.M., Sińczuk M., Wordecha M., Jednoróg K., Nowicka A. (2016)**
 What is the effect of basic emotions on directed forgetting? Investigating the role of basic emotions in memory.
 Front. Hum. Neurosci., **10**, art. no 378 ; doi: 10.3389/fnhum.2016.00378
111. **Marchewka A., Wypych M., Moslehi A., Riegel M., Michałowski J.M., Jednoróg K. (2016)**
 Arousal rather than basic emotions influence long-term recognition memory in humans.
 Front. Behav. Neurosci., **10**, art. no 198 ; doi: 10.3389/fnbeh.2016.00198
112. **Mazurkiewicz P.J., Wagner-Ziemka A., Mirecka A., Godzińska E.J. (2016)**
 Behaviour of intranidal and extranidal major workers of the African carpenter ant *Camponotus maculatus* Fabricius (Hymenoptera: Formicidae) during dyadic nestmate reunion tests.
 African Entomol., **24**, 307-320
113. **Mączewski M., Duda M., Marciszek M., Kołodziejczyk J., Dobrzyń P., Dobrzyń A., Mackiewicz U. (2016)**
 Omega-3 fatty acids do not protect against arrhythmias in acute nonreperused myocardial infarction despite some antiarrhythmic effects.
 J. Cell. Biochem., **117**, 2570-2582
114. **Meyza K. (2016)**
 Fizjologia życzliwości.
 Academia, nr 2, 28-30
115. **Michalska B., Duszyński J., Szymański J. (2016)**
 Mechanizm fragmentacji mitochondriów – struktura i funkcja białka Drp1.
 Postępy Biochem., **62**, 127-137
116. **Mietelska-Porowska A., Wojsiat J., Laskowska-Kaszub K., Białopiotrowicz E., Wojda U. (2016)**
 Perspektywy terapii choroby Alzheimera w świetle badań nad cyklem komórkowym i apoptozą.
 W: Choroba Alzheimera - wybrane zagadnienia biologiczne i kliniczne. Pod red. Leszek J., Wrocław: Wydawnictwo Continuo, s. 59-94
117. **Mikula-Pietrasik J., Uruski P., Sosińska P., Maksin K., Piotrowska-Kempisty H., Kucińska M., Murias M., Szubert S., Woźniak A., Szpurek D., Sajdak S., Piwocka K., Tykarski A., Książek K. (2016)**
 Senescent peritoneal mesothelium creates a niche for ovarian cancer metastases.
 Cell Death Dis., **7**, e2565 ; doi: 10.1038/cddis.2016.417
118. **Miszczuk D., Dębski K.J., Tanila H., Łukasiuk K., Pitkänen A. (2016)**
 Traumatic brain injury increases the expression of Nos1, A β clearance, and epileptogenesis in APP/PS1 mouse model of Alzheimer's disease.
 Mol. Neurobiol., **53**, 7010-7027

119. **Mosieniak G., Śliwińska M.A., Przybylska D., Grabowska W., Sunderland P., Bielak-Żmijewska A., Sikora E. (2016)**
Curcumin-treated cancer cells show mitotic disturbances leading to growth arrest and induction of senescence phenotype.
Int. J. Biochem. Cell Biol., **74**, 33-43
120. **Mozrzyimas J.W., Kaczmarek L. (2016)**
Editorial: Neuroplasticity and Extracellular Proteolysis.
Front. Cell. Neurosci., **10**, art. no 59 ; doi: 10.3389/fncel.2016.00059
121. **Myronovkij S., Negrych N., Nehrych T., Rędownicz M.J., Souchelnytskyi S., Stoika R., Kit Y. (2016)**
Identification of a 48 kDa form of unconventional myosin 1c in blood serum of patients with autoimmune diseases.
Biochem. Biophys. Rep., **5**, 175-179
122. **Nagalski A., Puelles L., Dąbrowski M., Węgierski T., Kuźnicki J., Wiśniewska M.B. (2016)**
Molecular anatomy of the thalamic complex and the underlying transcription factors.
Brain Struct. Funct., **221**, 2493-2510
123. **Nalęcz K.A., Nalęcz M. (2016)**
Karnityna - mitochondria i nie tylko.
Postępy Biochem., **62**, 85-93
124. **Niewiadomski P., Prószyński T.J. (2016)**
LL5 β interacts with uncharacterized protein 2410002F23Rik (LL5BIP).
Sci. Matters, doi: 10.19185/matters.201610000003
125. **Niewiadomski W., Pałasz E., Skupińska M., Żylinski M., Steczkowska M., Gąsiorowska A., Niewiadomska G., Riedel G. (2016)**
TracMouse: A computer aided movement analysis script for the mouse inverted horizontal grid test.
Sci. Rep., **6**, art. no 39331 ; doi: 10.1038/srep39331
126. **Nitzsche B., Dudek E., Hajdo L., Kasprzak A.A., Vilfan A., Diez S. (2016)**
Working stroke of the kinesin-14, ncd, comprises two substeps of different direction.
Proc. Natl. Acad. Sci. USA, **113**, E6582-E6589
127. **Nowak K., Dacewicz A., Broczek K., Kupisz-Urbańska M., Gałkowski T., Szelaż E. (2016)**
Temporal information processing and its relation to executive functions in elderly individuals.
Front. Psychol., **7**, art. no 1599 ; 10.3389/fpsyg.2016.01599

128. **Nowak K., Oroń A., Szymaszek A., Leminen M., Näätänen R., Szeląg E.** (2016)
Electrophysiological indicators of the age-related deterioration in the sensitivity to auditory duration deviance.
Front. Aging Neurosci., **8**, art. no 2 ; doi: 10.3389/fnagi.2016.00002
129. **Nowak K., Markiewicz D., Gawraczyński J., Mazurkiewicz P.** (2016)
Cross-country comparisons of environmental concern.
Problemy Zarządzania, **14**, 83-101
130. **Nowicka A., Cygan H.B., Tacikowski P., Ostaszewski P., Kuś R.** (2016)
Name recognition in autism: EEG evidence of altered patterns of brain activity and connectivity.
Mol. Autism, **7** : 38 ; doi: 10.1186/s13229-016-0102-z
131. **Okruszek Ł., Wichniak A., Jarkiewicz M., Schudy A., Gola M., Jednoróg K., Marchewka A., Łojek E.** (2016)
Social and nonsocial affective processing in schizophrenia - An ERP study.
Int. J. Psychophysiol., **107**, 54-62 ; doi: 10.1016/j.ijpsycho.2016.06.007
132. **Oparka M., Walczak J., Malińska D., van Oppen L.M.P.E., Szczepanowska J., Koopman W.J.H., Więckowski M.R.** (2016)
Quantifying ROS levels using CM-H₂DCFDA and HyPer.
Methods, **109**, 3-11
133. **Oroń A., Wolak T., Zeffiro T., Szeląg E.** (2016)
Cross-modal comparisons of stimulus specificity and commonality in phonological processing.
Brain Lang., **155/156**, 12-23
134. **Pałasz A., Bandyszewska M., Rojczyk E., Wiaderkiewicz R.** (2016)
Effect of extended olanzapine administration on POMC and neuropeptide Y mRNA levels in the male rat amygdala and hippocampus.
Pharmacol. Rep., **68**, 292-296
135. **Pałasz E., Bąk A., Niewiadomska G.** (2016)
Wzmożona aktywność fizyczna jako terapia wspomagająca w chorobie Parkinsona - badania u ludzi i zwierząt.
Kosmos, **65**, 351-360
136. **Pałasz E., Wysocka A.** (2016)
Prozapalna rola gleju w zwierzęcym modelu choroby Parkinsona wywołanym podaniem 1-metylo-4-fenylo-1,2,3,6-tetrahydropirydiny(MPTP).
W: Wybrane zagadnienia z zakresu medycyny i nauk pokrewnych. Red. Szala M. Lublin: Wydawnictwo Naukowe TYGIEL, s. 231-242
137. **Partyka M., Duszyński J., Szczepanowska J.** (2016)
Zmiany dynamiki mitochondriów w odpowiedzi na stres mitochondrialny w modelach sporadycznej formy choroby Parkinsona.
Postępy Biochem. **62**, 173-181

138. **Piechota M., Sikora E. (2016)**
Uszkodzenia DNA w neurodegeneracji.
W: Choroba Alzheimer - wybrane zagadnienia biologiczne i kliniczne. Pod red. Leszek J., Wrocław: Wydawnictwo Continuo, s. 95-117
139. **Piechota M., Sunderland P., Wysocka A., Nalberczak M., Śliwińska M.A., Radwańska K., Sikora E. (2016)**
Is senescence-associated β -galactosidase a marker of neuronal senescence?
Oncotarget, **7**, 81099-81109
140. **Pitkänen A., Löscher W., Vezzani A., Becker A.J., Simonato M., Łukasiuk K., Gröhn O., Bankstahl J.P., Friedman A., Aronica E., Gorter J.A., Ravizza T., Sisodiya S.M., Kokaia M., Beck H. (2016)**
Advances in the development of biomarkers for epilepsy.
Lancet Neurol., **15**, 843-856
141. **Pitkänen A., Roivainen R., Łukasiuk K. (2016)**
Development of epilepsy after ischaemic stroke.
Lancet Neurol., **15**, 185-197
142. **Piwocka K. (2016)**
When polychromatic flow cytometry meets mitochondrial reactive oxygen species.
Cytometry A, **89**, 1052-1053
143. **Piwońska M., Szewczyk A., Schröder U.H., Reymann K.G., Bednarczyk P. (2016)**
Effectors of large-conductance calcium-activated potassium channel modulate glutamate excitotoxicity in organotypic hippocampal slice cultures.
Acta Neurobiol. Exp., **76**, 20-31
144. **Plóciennikowska A., Hromada-Judycka A., Dembińska J., Roszczenko P., Ciesielska A., Kwiatkowska K. (2016)**
Contribution of CD14 and TLR4 to changes of the PI(4,5)P₂ level in LPS-stimulated cells.
J. Leukoc. Biol., **100**, 1363-1373
145. **Podszywałow-Bartnicka P., Ćmoch A., Wolczyk M., Bugajski Ł., Tkaczyk M., Dadlez M., Nieborowska-Skorska M., Koromilas A.E., Skorski T., Piwocka K. (2016)**
Increased phosphorylation of eIF2 α in chronic myeloid leukemia cells stimulates secretion of matrix modifying enzymes.
Oncotarget, **7**, 79706-79721
146. **Polechoński J., Juras G., Słomka K., Błaszczuk J., Malecki A., Nawrocka A. (2016)**
Assessment of startle response and its prepulse inhibition using posturography: pilot study.
BioMed Res. Int., **2016**, art. ID 8597185 ; doi: 10.1155/2016/8597185

147. **Przybylska D., Janiszewska D., Goździk A., Bielak-Żmijewska A., Sunderland P., Sikora E., Mosieniak G. (2016)**
NOX4 downregulation leads to senescence of human vascular smooth muscle cells.
Oncotarget, **7**, 66429-66443
148. **Puścian A., Łęski S., Kasprowicz G., Winiarski M., Borowska J., Nikolaev T., Boguszewski P.M., Lipp H.P., Knapska E. (2016)**
Eco-HAB as a fully automated and ecologically relevant assessment of social impairments in mouse models of autism.
eLife, **5**, e19532 ; doi: 10.7554/eLife.19532
149. **Radwańska K., Giese K.P. (2016)**
An alternative mechanism for long-term memory formation.
W: *Novel mechanisms of memory*. Eds. Giese K.P., Radwańska K. Cham-Heidelberg: Springer, s. 89-98
150. **Ray S., Chintaluri C., Bhalla U.S., Wójcik D.K. (2016)**
NSDF: Neuroscience Simulation Data Format.
Neuroinformatics, **14**, 147-167
151. **Rea I.M., Dellet M., Mills K.I., The ACUME2 Project (m.in. Sikora E.) (2016)**
Living long and ageing well: is epigenomics the missing link between nature and nurture?
Biogerontology, **17**, 33-54
152. **Riegel M., Wierzba M., Grabowska A., Jednoróg K., Marchewka A. (2016)**
Effect of emotion on memory for words and their context.
J. Comp. Neurol., **524**, 1636-1645
153. **Riegel M., Żurawski Ł., Wierzba M., Moslehi A., Klocek Ł., Horvat M., Grabowska A., Michałowski J., Jednoróg K., Marchewka A. (2016)**
Characterization of the Nencki Affective Picture System by discrete emotional categories (NAPS BE).
Behav. Res. Meth., **48**, 600-612
154. **Rimessi A., Previati M., Nigro F., Więckowski M.R., Pinton P. (2016)**
Mitochondrial reactive oxygen species and inflammation: Molecular mechanisms, diseases and promising therapies.
Int. J. Biochem. Cell Biol., **81**, 281-293
155. **Rogala J., Jurewicz K., Paluch K., Kublik E., Cetnarski R., Wróbel A. (2016)**
The do's and don'ts of neurofeedback training: A review of the controlled studies using healthy adults.
Front. Hum. Neurosci., **10**, art. no 301 ; doi: 10.3389/fnhum.2016.00301
156. **Rosińska S., Leśniak W., Filipek A. (2016)**
Distinct effect of CacyBP/SIP on the ERK1/2-CREB-BDNF pathway in undifferentiated and differentiated neuroblastoma NB2a cells.
Neurochem. Int., **97**, 65-72

157. **Roszkowska M., Strzelecka-Kiliszek A., Magne D., Piłkuła S., Bessueille L. (2016)**
Membranes and pathophysiological mineralization.
Postepy Biochem., **62**, 511-517
158. **Roszkowska M., Skupień A., Wójtowicz T., Konopka A., Gorlewicz A., Kisiel M., Bekisz M., Ruszczycki B., Doleżyczek H., Rejmak E., Knapska E., Mozrzyk J.W., Włodarczyk J., Wilczyński G.M., Dzwonek J. (2016)**
CD44: a novel synaptic cell adhesion molecule regulating structural and functional plasticity of dendritic spines.
Mol. Biol. Cell, **27**, 4055-4066
159. **Rybak P., Hoang A., Bujnowicz L., Bernaś T., Berniak K., Zarębski M., Darzynkiewicz Z., Dobrucki J. (2016)**
Low level phosphorylation of histone H2AX on serine 139 (γ H2AX) is not associated with DNA double-strand breaks.
Oncotarget, **7**, 49574-49587
160. **Rymarczyk K. (2016)**
Co się dzieje w głowie małego dziecka - o wpływie doświadczeń na rozwój mózgu. Aktywność ruchowa a mózg.
W: Małe dziecko - dużo pomysłów. Wybrane obszary wspomaganie rozwoju. Red. Piotrowicz R., Walkiewicz-Krutak M. Warszawa: Wydawnictwo APS, ISBN 978-83-64953-42-2, s. 52-71
161. **Rymarczyk K., Żurawski Ł., Jankowiak-Siuda K., Szatkowska I. (2016)**
Do dynamic compared to static facial expressions of happiness and anger reveal enhanced facial mimicry?
PLoS One, **11**, e0158534 ; doi: 10.1371/journal.pone.0158534
162. **Rymarczyk K., Żurawski Ł., Jankowiak-Siuda K., Szatkowska I. (2016)**
Emotional empathy and facial mimicry for static and dynamic facial expressions of fear and disgust.
Front. Psychol., **7**, art. no 1853 ; 10.3389/fpsyg.2016.01853
163. **Sampaio S.F., Branco A.F., Wojtala A., Vega-Naredo I., Więckowski M.R., Oliveira P.J. (2016)**
p66Shc signaling is involved in stress responses elicited by anthracycline treatment of rat cardiomyoblasts.
Arch. Toxicol., **90**, 1669-1684
164. **Sas-Nowosielska H., Bernaś T. (2016)**
Spatial relationship between chromosomal domains in diploid and autotetraploid *Arabidopsis thaliana* nuclei.
Nucleus, **7**, 216-231
165. **Schönfeld P., Wojtczak L. (2016)**
Short- and medium-chain fatty acids in energy metabolism: the cellular perspective.
J. Lipid. Res., **57**, 943-954

- 166.** *Scott-McKean J.J., Surewicz K., Choi J.K., Ruffin V.A., Salameh A.I., Nieznański K., Costa A.C.S., Surewicz W.K. (2016)*
Soluble prion protein and its N-terminal fragment prevent impairment of synaptic plasticity by A β oligomers: Implications for novel therapeutic strategy in Alzheimer's disease.
Neurobiol. Dis., **91**, 124-131
- 167.** *Sikora E., Mosieniak G., Śliwińska M.A. (2016)*
Morphological and functional characteristic of senescent cancer cells.
Curr. Drug Targets, **17**, 377-387
- 168.** *Siuda W., Chróst R.J., Kalinowska K., Ejsmont-Karabin J., Kiersztyn B. (2016)*
The role of planktonic organisms in urea metabolism in lakes of temperate zone – case study.
Pol. J. Ecol., **64**, 468-484
- 169.** *Siuda-Krzywicka K., Bola Ł., Paplińska M., Sumera E., Jednoróg K., Marchewka A., Śliwińska M.W., Amedi A., Szwed M. (2016)*
Massive cortical reorganization in sighted Braille readers.
eLIFE, **5**, e10762 ; doi: 10.7554/eLife.10762
- 170.** *Skrzypczak-Zielińska M., Borun P., Bartkowiak-Kaczmarek A., Zakerska-Banaszak O., Walczak M., Dobrowolska A., Kurzawski M., Waszak M., Lipiński D., Pławski A., Słomski R. (2016)*
A Simple method for *TPMT* and *ITPA* genotyping using multiplex HRMA for patients treated with thiopurine drugs.
Mol. Diagn. Ther., **20**, 493-499
- 171.** *Sobczak M., Chumak V., Pomorski P., Wojtera E., Majewski Ł., Nowak J., Yamauchi J., Rędownicz M.J. (2016)*
Interaction of myosin VI and its binding partner DOCK7 plays an important role in NGF-stimulated protrusion formation in PC12 cells.
Biochim. Biophys. Acta - Mol. Cell Res., **1863**, 1589-1600
- 172.** *Sobiak B., Graczyk-Jarzynka A., Leśniak W. (2016)*
Comparison of DNA methylation and expression pattern of S100 and other epidermal differentiation complex genes in differentiating keratinocytes.
J. Cell. Biochem., **117**, 1092-1098
- 173.** *Sobierajska K., Wieczorek K., Ciszewski W.M., Sacewicz-Hofman I., Wawro M.E., Wiktorska M., Boncela J., Papiewska-Pajak I., Kwaśniak P., Wyroba E., Cierniewski C.S., Niewiarowska J. (2016)*
 β -III tubulin modulates the behavior of Snail overexpressed during the epithelial-to-mesenchymal transition in colon cancer cells.
Biochim. Biophys. Acta - Mol. Cell Res., **1863**, 2221-2233

174. *Sowiński M., Kulik P., Kasprowicz G., Mankiewicz L., Krawczyk R., Jarosiński J., Czajkowski R.D., Knapska E., Puścian A., Kowalski J., Rusakov K., Przywózki T., Rasiński P., Juszczyk B. (2016)*
 Modular control system for optogenetic experiments.
 In: Photonics applications in astronomy, communications, industry, and high-energy physics experiments 2016. Ed. Romaniuk R. Bellingham, WA : Society of Photo-Optical Instrumentation Engineers, s. 100313F-1-100313F-8, art. no 100313F ; doi: 10.1117/12.2249378
 (Proceedings of SPIE, vol. 10031)
175. *Stefaniuk M., Gualda E.J., Pawłowska M., Legutko D., Matryba P., Koza P., Konopka W., Owczarek D., Wawrzyniak M., Loza-Alvarez P., Kaczmarek L. (2016)*
 Light-sheet microscopy imaging of a whole cleared rat brain with Thy1-GFP transgene.
 Sci. Rep., **6** : 28209 ; doi: 10.1038/srep28209
176. *Stokowy T., Gawel D., Wojtaś B. (2016)*
 Differences in miRNA and mRNA profile of papillary thyroid cancer variants.
 Int. J. Endocrinol., **2016**, art. ID 1427042 ; doi: 10.1155/2016/1427042
177. *Stokowy T., Wojtaś B., Jarząb B., Krohn K., Fredman D., Dralle H., Musholt T., Hauptmann S., Lange D., Hegedüs L., Paschke R., Eszlinger M. (2016)*
 Two-miRNA classifiers differentiate mutation-negative follicular thyroid carcinomas and follicular thyroid adenomas in fine needle aspirations with high specificity.
 Endocrine, **54**, 440-447
178. *Studnicki M., Woźniak G., Stępkowski D. (2016)*
 The calculator of anti-Alzheimer's diet. Macronutrients.
 PLoS One, **11**, e0168385 ; doi: 10.1371/journal.pone.0168385
179. *Stuetz W., Weber D., Dollé M.E.T., Jansen E., Grubeck-Loebenstein B., Fiegl S., Toussaint O., Bernhardt J., Gonos E.S., Franceschi C., Sikora E., Moreno-Villanueva M., Breusing N., Grune T., Bürkle A. (2016)*
 Plasma carotenoids, tocopherols, and retinol in the age-stratified (35-74 years) general population: a cross-sectional study in six european countries.
 Nutrients, **8** : 614 ; doi: 10.3390/nu8100614
180. *Szczęsna E., Kasprzak A.A. (2016)*
 Insights into the process of EB1-dependent tip-tracking of kinesin-14 Ncd. The role of the microtubule.
 Eur. J. Cell Biol., **95**, 521-530
181. *Szeląg E. (2016)*
 Wspomaganie mocy umysłu - fakty, mity i perspektywy.
 Wszechświat, **117**, 12-19

- 182.** *Szeląg E., Dacewicz A. (2016)*
 Nonlinear timing and language processing in norm and pathology.
 W: Recent advances in nonlinear speech processing. Eds. Esposito A., Faundez-Zanuy M., Esposito A., Cordasco G., Drugman T., Solé-Casals J., Morabito F. [Basel] : Springer, s. 35-44, doi: 10.1007/978-3-319-28109-4_4 (Smart Innovation, Systems and Technologies, vol. 48)
- 182a.** *Szeląg E., Dacewicz A., Szymaszek A., Wolak T., Senderski A., Domitrz I., Oroń A. (2016)*
 The application of timing in therapy of children and adults with language disorders.
 W: Sub- and Supra-second Timing: Brain, Learning and Development. Ed. by Chen L., Bao Y., Wittmann M. Lausanne : Frontiers Media, s. 91-108 (Frontiers Research Topics)
 przedruk z:
 Front. Psychol., **6** (2015), art. no 1714 ; doi: 10.3389/fpsyg.2015.01714
- 183.** *Szeląg E., Szymaszek A. (2016)*
 Dr Neuronowski. Pomysł na bystry umysł i płynną mowę. Usprawnianie zegara neuronalnego wspomaga moc naszego umysłu. Poznań : Harpo, s. 157
- 184.** *Szulc-Dąbrowska L., Gregorczyk K.P., Struzik J., Boratyńska-Jasińska A., Szczepanowska J., Wyżewski Z., Toka F.N., Gieryńska M., Ostrowska A., Niemiętowski M.G. (2016)*
 Remodeling of the fibroblast cytoskeletal architecture during the replication cycle of Ectromelia virus: A morphological in vitro study in a murine cell line. Cytoskeleton, **73**, 396-417
- 185.** *Szypulska M., Dwużnik M., Wiącek P., Skoczeń A., Fiutowski T., Jędraczka M., Dusik J., Ahmed M. I., Dąbrowski W., Hottowy P., Kublik E. (2016)*
 Modular ASIC-based system for large-scale electrical stimulation and recording of brain activity in behaving animals.
 W: Proceedings of the 23rd International Conference on Mixed Design of Integrated Circuits and Systems (MIXDES 2016), June 23-25, 2016 Łódź, Poland. Ed. Napieralski A., IEEE. Łódź : Lodz University of Technology, s. 217-222 ; doi: 10.1109/MIXDES.2016.7529735.
- 186.** *Świerniak M., Pfeifer A., Stokowy T., Rusinek D., Chekan M., Lange D., Krajewska J., Oczko-Wojciechowska M., Czarniecka A., Jarząb M., Jarząb B., Wojtaś B. (2016)*
 Somatic mutation profiling of follicular thyroid cancer by next generation sequencing.
 Mol. Cell. Endocrinol., **433**, 130-137
- 187.** *Tamborski S., Lyu H.C., Bukowska D., Doleżyczek H., Wilczyński G., Szlag D., Lasser T., Wojtkowski M., Szkulmowski M. (2016)*
 Imaging of the stroke-related changes in the vascular system of the mouse brain with the use of extended focus Optical Coherence Microscopy.
 W: Optical Coherence Tomography and Coherence Domain Optical Methods in Biomedicine XX, San Francisco, California, February 13, 2016. Izaat J.A.,

Fujimoto J.G., Tuchin V.V. Bellingham, WA : Society of Photo-Optical Instrumentation Engineers, s. 969718-1 - 969718-7 ; doi: 10.1117/12.2214779 (Proceedings of SPIE, vol. 9697)

- 188.** *Tamborski S., Lyu H.C., Doleżyczek H., Malinowska M., Wilczyński G., Szlag D., Lasser T., Wojtkowski M., Szkulmowski M. (2016)*
Extended-focus optical coherence microscopy for high-resolution imaging of the murine brain.
Biomed. Opt. Express, **7**, s. 4400-4414
- 189.** *Topolska-Woś A.M., Chazin W.J., Filipek A. (2016)*
CacyBP/SIP - Structure and variety of functions.
Biochim. Biophys. Acta - General Subjects, **1860**, 79-85
- 190.** *Torabi Moghadam B., Dąbrowski M., Kamińska B., Grabherr M.G., Komorowski J. (2016)*
Combinatorial identification of DNA methylation patterns over age in the human brain.
BMC Bioinformatics, **17**: 393 ; doi: 10.1186/s12859-016-1259-3
- 191.** *Tucureanu M.M., Butoi E., Gan A.M., Stan D., Constantinescu C.A., Calin M., Simionescu M., Manduteanu I. (2016)*
Amendment of the cytokine profile in macrophages subsequent to their interaction with smooth muscle cells: Differential modulation by fractalkine and resistin.
Cytokine, **83**, 250-261
- 192.** *Vafadari B., Salamian A., Kaczmarek L. (2016)*
MMP-9 in translation: from molecule to brain physiology, pathology, and therapy.
J. Neurochem., **139 Suppl. 2**, 91-114
- 193.** *Valentini E., Zampieri M., Malavolta M., Bacalini M.G., Calabrese R., Guastafierro T., Reale A., Franceschi C., Hervonen A., Koller B., Bernhardt J., Slagboom P.E., Toussaint O., Sikora E., Gonos E.S., Breusing N., Grune T., Jansen E., Dollé M.E.T., Moreno-Villanueva M., Sindlinger T., Bürkle A., Ciccarone F., Caiafa P. (2016)*
Analysis of the machinery and intermediates of the 5hmC-mediated DNA demethylation pathway in aging on samples from the MARK-AGE Study.
Aging, **8**, 1896-1922
- 194.** *Wacławek E., Włoga D. (2016)*
Białka tnące mikrotubule - struktura i regulacja aktywności.
Postępy Biochem. **62**, 46-51
- 195.** *Wacławek E., Włoga D. (2016)*
Rola białek tnących mikrotubule w reorganizacji szkieletu.
Postępy Biochem. **62**, 52-59

- 196.** *Wallner S., Grandl M., Liebisch G., Peer M., Orsó E., Sigrüner A., Sobota A., Schmitz G. (2016)*
oxLDL and eLDL induced membrane microdomains in human macrophages.
PLoS One, **11**, e0166798 ; doi: 10.1371/journal.pone.0166798
- 197.** *Wasik U., Kądziółka B., Kilańczyk E., Filipek A. (2016)*
Influence of S100A6 on CacyBP/SIP phosphorylation and Elk-1 transcriptional activity in neuroblastoma NB2a cells.
J. Cell. Biochem., **117**, 126-131
- 198.** *Wilczyński G.M., Magalska A., Trzaskoma P., Włodarczyk J., Ruszczycki B. (2016)*
Novel insights into the architecture of the human cell nucleus.
W: Annual Report 2016 Polish Academy of Sciences. Ed. by Jamroz E., Jurkiewicz A. Warsaw: Polish Academy of Sciences, s. 34-35
- 199.** *Witek M., Ślipiński P., Naumiec K., Krupski A., Babik H., Walter B., Symonowicz B., Dubiec A. (2016)*
Performance of *Myrmica* ant colonies is correlated with the presence of social parasites.
Ecol. Entomol., **41**, 284-291
- 200.** *Witte O.W., Kossut M. (2016)*
Impairment of brain plasticity by brain inflammation.
Z. Psychol., **224**, 133-138
- 201.** *Wnuk A., Dębski K.J. (2016)*
Should we trust graphs' default settings in the R packages?
Commun. Biometry Crop Sci., **11**, 114-126
- 202.** *Wojda U. (2016)*
Alzheimer's disease lymphocytes: potential for biomarkers?
Biomark. Med., **10**, 1-4
- 203.** *Wojtczak L., Więckowski M.R. (2016)*
From mitochondrial large amplitude swelling to the permeability transition - a short historic overview.
Postępy Biochem. **62**, 298-302
- 204.** *Woś M., Szczepanowska J., Pikula S., Tylki-Szymańska A., Zabłocki K., Bendorowicz-Pikula J. (2016)*
Mitochondrial dysfunction in fibroblasts derived from patients with Niemann-Pick type C disease.
Arch. Biochem. Biophys., **593**, 50-59
- 205.** *Wójcik-Gryciuk A., Skup M., Waleszczyk W.J. (2016)*
Glaucoma -state of the art and perspectives on treatment.
Restor. Neurol. Neurosci., **34**, 107-123

206. *Wójcik-Pędziwiatr M., Plinta K., Krzak-Kubica A., Zajdel K., Falkiewicz M., Dylak J., Ober J., Szczudlik A., Rudzińska M. (2016)*
 Eye movement abnormalities in essential tremor.
J. Hum. Kinet., **52**, 53-64
207. *Wyroba E., Kwaśniak P., Miller K., Kobylecki K., Osińska M. (2016)*
 Site-directed mutagenesis, in vivo electroporation and mass spectrometry in search for determinants of the subcellular targeting of Rab7b paralogue in the model eukaryote *Paramecium octaurelia*.
Eur. J. Histochem., **60**: 2612. doi: 10.4081/ejh.2016.2612
208. *Wyżewski Z., Gregorczyk K.P., Szczepanowska J., Struzik J., Szulc-Dąbrowska L. (2016)*
 Influence of ECTV_MOS infection on the intracellular level of Hsp10 and selected subunits of electron transport chain complexes in L929 fibroblasts: in vitro research.
 W: DIAGMOL 2016. XVII Conference on "Molecular biology in diagnostics of infectious diseases and biotechnology". Warsaw University of Life Sciences - SGGW, Crystal Hall - Warsaw, Poland, 5 November 2016, s. 110-112
209. *Zubek J., Denkiwicz M., Dębska A., Radkowska A., Komorowska-Mach J., Litwin P., Stępień M., Kucińska A., Sitarska E., Komorowska K., Fusaroli R., Tylén K., Rączaszek-Leonardi J. (2016)*
 Performance of language-coordinated collective systems: a study of wine recognition and description
Front. Psychol., **7**, 1321. eCollection 2016 ; doi: 10.3389/fpsyg.2016.01321
210. *Żybura-Broda K., Amborska R., Ambrożek-Latecka M., Wilemska J., Bogusz A., Bucko J., **Konopka A.**, Grajkowska W., Roszkowski M., Marchel A., Rysz A., Koperski L., **Wilczyński G.M.**, **Kaczmarek L.**, Rylski M. (2016)*
 Epigenetics of epileptogenesis-evoked upregulation of Matrix Metalloproteinase-9 in hippocampus.
PLoS One, **11**, e0159745 ; doi: 10.1371/journal.pone.0159745
211. *Żyliński M., Niewiadomski W., Strasz A., Karbowniczek A., Gasiorowska A., Cybulski G., **Pałasz E.**, **Niewiadomska G.** (2016)*
 Reliability of estimated vibration dose value (eVDV) in evaluation of vibration training load.
 W: Current research in motor control. V: Bridging motor control and biomechanics. Eds. Słomka K., Juras G., Katowice : Wydawnictwo Akademii Wychowania Fizycznego im. Jerzego Kukuczki, s. 341-347