

## SPIS PUBLIKACJI

INSTYTUTU BIOLOGII DOŚWIADCZALNEJ  
IM. M. NENCKIEGO PAN  
ZA ROK 2009

- 1. Adach A., Ellert-Miklaszewska A., Kamińska B. (2009)**  
Molecular characterization of STAT signaling in inflammation and tumorigenesis.  
W : Inflammation and cancer. Methods and protocols. Vol. 2 : Molecular analysis  
and pathways. Ed. by Kozlov S.V. New York : Humana Press, s. 265-278  
(Methods in Molecular Biology, v. 512)
- 2. Anisimov V.N., Sikora E., Pawelec G. (2009)**  
Carcinogenesis and aging.  
Open Longevity Science, **3**, 1-10
- 3. Anisimov V.N., Sikora E., Pawelec G. (2009)**  
Relationships between cancer and aging : a multilevel approach.  
Biogerontology, **10**, 323-338
- 4. Bajer S., Kasprzak A.A. (2009)**  
Białka śledzące koniec plus mikrotubul oraz ich udział w organizacji wrzeciona  
mitotycznego.  
Post. Biochem., **55**, 223-231
- 5. Bednarczyk P. (2009)**  
Potassium channels in brain mitochondria.  
Acta Biochim. Pol., **56**, 385-392
- 6. Błaszczyk J. (2009)**  
Modele cybernetyczne wybranych struktur i funkcji układu nerwowego.  
W : Neurocybernetyka teoretyczna. Red. nauk. Ryszard Tadeusiewicz.  
Warszawa : Wydawnictwa Uniwersytetu Warszawskiego, 2009, s. 49-72
- 7. Błaszczyk J.W., Cieślińska-Świder J., Plewa M., Zahorska-Markiewicz B., Markiewicz A. (2009)**  
Effects of excessive body weight on postural control.  
J. Biomech., **42**, 1295-1300
- 8. Błażejczyk M., Sobczak A., Dębowska K., Wiśniewska M.B., Kirilenko A., Pikula S., Jaworski J., Kuźnicki J., Wojda U. (2009)**  
Biochemical characterization and expression analysis of a novel EF-hand Ca<sup>2+</sup>  
binding protein calmyrin2 (Cib2) in brain indicates its function in NMDA receptor  
mediated Ca<sup>2+</sup> signaling.  
Arch. Biochem. Biophys., **487**, 66-78

9. *Bojarski L., Pomorski P., Szybińska A., Drab M., Skibińska-Kijek A., Gruszczyńska-Biegała J., Kuźnicki J. (2009)*  
 Presenilin-dependent expression of STIM proteins and dysregulation of capacitative Ca<sup>2+</sup> entry in familial Alzheimer's disease.  
*Biochim. Biophys. Acta*, **1793**, 1050-1057
10. *Brzyska M., Trzeźniewska K., Więckowska A., Szczepankiewicz A., Elbaum D. (2009)*  
 Electrochemical and conformational consequences of copper (Cu<sup>I</sup> and Cu<sup>II</sup>) binding to  $\beta$ -amyloid (1-40).  
*Chembiochem*, **10**, 1045-1055
11. *Buzhynskyy N., Golczak M., Lai-Kee-Him J., Lambert O., Tessier B., Gounou C., Bérat R., Simon A., Granier T., Chevalier J.M., Mazères S., Bandorowicz-Pikuła J., Pikuła S., Brisson A.R. (2009)*  
 Annexin-A6 presents two modes of association with phospholipid membranes. A combined QCM-D, AFM and cryo-TEM study.  
*J. Struct. Biol.*, **168**, 107-116
12. *Chang C.H., Knapska E., Orsini C.A., Rabinak C.A., Zimmerman J.M., Maren S. (2009)*  
 Fear extinction in rodents.  
 W: *Current Protocols in Neurosciences*, suppl. **47**, 8.23.1-8.23.17
13. *Chirasani S.R., Markovic D.S., Synowitz M., Eichler S.A., Wiśniewski P., Kamińska B., Otto A., Wanker E., Schäfer M., Chiarugi P., Meier J.C., Kettenmann H., Glass R. (2009)*  
 Transferrin-receptor-mediated iron accumulation controls proliferation and glutamate release in glioma cells.  
*J. Mol. Med.*, **87**, 153-167
14. *Choma K., Bednarczyk P., Koszela-Piotrowska I., Kulawiak B., Kudin A., Kunz W.S., Dołowy K., Szewczyk A. (2009)*  
 Single channel studies of the ATP-regulated potassium channel in brain mitochondria.  
*J. Bioenerg. Biomembr.*, **41**, 323-334
15. *Ciechomska I.A., Goemans C.G., Tolkovsky A.M. (2009)*  
 Why doesn't Beclin 1, a BH3-only protein, suppress the anti-apoptotic function of Bcl-2 ?  
*Autophagy*, **5**, 880-881
16. *Ciechomska I.A., Goemans C.G., Skepper J.N., Tolkovsky A.M. (2009)*  
 Bcl-2 complexed with Beclin 1 maintains full anti-apoptotic function.  
*Oncogene*, **28**, 2128-2141
17. *Cybulska-Kłosowicz A., Zakrzewska R., Kossut M. (2009)*  
 Brain activation patterns during classical conditioning with appetitive and aversive UCS.  
*Behav. Brain Res.*, **204**, 102-111

18. *Czechowski W., Markó B., Godzińska E.J. (2009)*  
Corpse carrying in ants (Hymenoptera: Formicidae): behavioural side effect of aggressive arousal or competitive signalling?  
*Pol. J. Ecol.*, **57**, 341-352
19. *Czyż A., Brutkowski W., Fronk J., Duszyński J., Zabłocki K. (2009)*  
Tunicamycin desensitizes store-operated  $Ca^{2+}$  entry to ATP and mitochondrial potential.  
*Biochem. Biophys. Res. Commun.*, **381**, 176-180
20. *Dąbrowska M., Skoneczny M., Mosieniak G., Sikora E., Rode W. (2009)*  
Expression of cell cycle checkpoints regulatory genes during methotrexate-induced senescence in human adenocarcinoma cells.  
*Pteridines*, **20**, spec. iss., 143-147
21. *Dąbrowska M., Mosieniak G., Skierski J., Sikora E., Rode W. (2009)*  
Methotrexate-induced senescence in human adenocarcinoma cells is accompanied by induction of p21<sup>waf1/cip1</sup> expression and lack of polyploidy.  
*Cancer Lett.*, **284**, 95-101
22. *Dąbrowski M., Kamińska B. (2009)*  
Od wzorów ekspresji genów i motywów regulatorowych do predykcji i modelowania ekspresji genów – wyzwania i nadzieje.  
*Kosmos*, **58**, 67-77
23. *Dębska-Vielhaber G., Godlewski M.M., Kicińska A., Skalska J., Kulawiak B., Piwońska M., Zabłocki K., Kunz W.S., Szewczyk A., Motyl T. (2009)*  
Large-conductance  $K^+$  channel openers induce death of human glioma cells.  
*J. Physiol. Pharmacol.*, **60**, 27-36
24. *Dewachter I., Filipkowski R.K., Priller C., Ris L., Neyton J., Croes S., Terwel D., Gysemans M., Devijver H., Borghgraef P., Godaux E., Kaczmarek L., Herms J., Van Leuven F. (2009)*  
Deregulation of NMDA-receptor function and down-stream signaling in APP[V717I] transgenic mice.  
*Neurobiol. Aging*, **30**, 241-256
25. *Dobrzyń A. (2009)*  
Toksyczne tłuszcze : rola lipidów w patogenezie zaburzeń metabolicznych.  
*Academia*, nr **1 (17)**, 8-11
26. *Dobrzyń P., Tatur A., Keck A. (2009)*  
Photosynthetic pigments as indicators of phytoplankton development during spring and summer in Adventfjorden (Spitsbergen).  
*Oceanology*, **49**, 368-376
27. *Dowierciał A., Jarmuła A., Sypniewski W., Sokołowska M., Frączyk T., Cieśla J., Rode W. (2009)*  
Crystal structures of substrate- and sulfate-bound mouse thymidylate synthase.  
*Pteridines*, **20** spec. issue, 163-167

28. **Dudkiewicz M., Malanowski P., Czerwiński J., Pawłowski K. (2009)**  
An approach to predicting hematopoietic stem cell transplantation outcome using HLA-mismatch information mapped on protein structure data.  
*Biol. Blood Marrow Transplant*, **15**, 1014-1025
29. **Dudkowska M., Bajer S., Jaworski T., Zielińska J., Manteuffel-Cymborowska M., Grzelakowska-Sztabert B. (2009)**  
Antifolate/folate-activated HGF/c-Met signalling pathways in mouse kidneys-the putative role of their downstream effectors in cross-talk with androgen receptor.  
*Arch. Biochem. Biophys.*, **483**, 111-119
30. **Dymkowska D., Wojtczak L. (2009)**  
Arachidonic acid-induced apoptosis in rat hepatoma AS-30D cells is mediated by reactive oxygen species.  
*Acta Biochim. Pol.*, **56**, 711-715
31. **Fink G., Hajdo Ł., Skowronek K.J., Reuther C., Kasprzak A.A., Diez S. (2009)**  
The mitotic kinesin-14 Ncd drives directional microtubule-microtubule sliding.  
*Nat. Cell Biol.*, **11**, 717-723
32. **Frączyk T., Ruman T., Rut D., Dąbrowska-Maś E., Cieśla J., Zieliński Z., Siczka K., Dębski J., Gołos B., Wińska P., Wałajtys-Rode E., Shugar D., Rode W. (2009)**  
Histidine phosphorylation, or tyrosine nitration, affect thymidylate synthase properties.  
*Pteridines*, **20**, spec. iss., 137-142
33. **Galińska-Rakoczy A., Wawro B., Strzelecka-Gołaszewska H. (2009)**  
New aspects of the spontaneous polymerization of actin in the presence of salts.  
*J. Mol. Biol.*, **387**, 869-882
34. **Gawlak M., Górkiwicz T., Gorlewicz A., Konopacki F.A., Kaczmarek L., Wilczyński G. M. (2009)**  
High resolution *in situ* zymography reveals matrix metalloproteinase activity at glutamatergic synapses.  
*Neuroscience*, **158**, 167-176
35. **Gorlewicz A., Włodarczyk J., Wilczek E., Gawlak M., Cabaj A., Majczyński H., Nestorowicz K., Herbiak M.A., Grieb P., Sławińska U., Kaczmarek L., Wilczyński G.M. (2009)**  
CD44 is expressed in non-myelinating Schwann cells of the adult rat, and may play a role in neurodegeneration-induced glial plasticity at the neuromuscular junction.  
*Neurobiol. Dis.*, **34**, 245-258
36. **Górska T., Chojnicka-Gittins B., Majczyński H., Zmysłowski W. (2009)**  
Recovery of overground locomotion following partial spinal lesions of different extent in the rat.  
*Behav. Brain Res.*, **196**, 286-296
37. **Grabiec M. (2009)**  
Neurogeneza. Do czego służą nowe neurony w mózgu dorosłych zwierząt ?  
*Forum Akademickie*, nr 3, 30-31

38. **Grabiec M., Turlejski K., Djavadian R. (2009)**  
Reduction of the number of new cells reaching olfactory bulbs impairs olfactory perception in the adult opossum.  
*Acta Neurobiol. Exp.*, **69**, 168-176
39. **Grabiec M., Turlejski K., Djavadian R.L. (2009)**  
The partial 5-HT<sub>1A</sub> receptor agonist buspirone enhances neurogenesis in the opossum (*Monodelphis domestica*).  
*Eur. Neuropsychopharmacol.*, **19**, 431-439
40. **Grabowska A., Jednoróg K. (2009)**  
Neurobiologiczne podstawy dysleksji.  
W : *Diagnoza dysleksji : najważniejsze problemy.* Red. Krasowicz-Kupis G.  
Gdańsk : Wydawnictwo Harmonia, ss. 40-61
41. **Grzelakowska-Sztabert B., Dudkowska M. (2009)**  
Signalling pathways in polyamine biosynthesis and interconversion.  
W : *Biological aspects of biogenic amines, polyamines and conjugates.* Ed. Dandrifosse G.  
Kerala, India : Transworld Research Network, 2009, ss. 51-79
42. **Gut M. (2009)**  
Leworęczność a dysleksja w świetle współczesnych badań.  
W : *Diagnoza dysleksji : najważniejsze problemy.* Red. Krasowicz-Kupis G.  
Gdańsk : Wydawnictwo Harmonia, ss. 288-311
43. **Havrylov S., Rzhpetskyy Y., Malinowska A., Drobot L., Rędowicz M.J. (2009)**  
Proteins recruited by SH3 domains of Ruk/CIN85 adaptor identified by LC-MS/MS.  
*Proteome Sci.*, **7**, 21
44. **Heim S., Willmes K., Grabowska A., Amunts K., Wilms M., Vossel S., Bay E., Tschierse J., Grande M., Huber W. (2009)**  
Cognitive subtypes of dyslexia.  
W : *Brain talk : discourse with and in the brain.* Eds. Alter K. i in.  
Lund : Lund University, 2009, ss. 289-304
45. **Humeniuk R., Menon L.G., Mishra P.J., Gorlick R., Sowers R., Rode W., Pizzorno G., Cheng Y-C., Kemeny N., Bertino J.R., Banerjee D. (2009)**  
Decreased levels of UMP kinase as a mechanism of fluoropyrimidine resistance.  
*Mol. Cancer Ther.*, **8**, 1037-1044
46. **Hunt M.J., Matulewicz P., Gottesmann C., Kasicki S. (2009)**  
State-dependent changes in high-frequency oscillations recorded in the rat nucleus accumbens.  
*Neuroscience*, **164**, 380-386

47. **Jaholkowski P., Kiryk A., Jedynak P., Ben Abdallah N.M., Knapska E., Kowalczyk A., Piechal A., Blecharz-Klin K., Figiel I., Lioudyno V., Widy-Tyszkiewicz E., Wilczyński G.M., Lipp H.P., Kaczmarek L., Filipkowski R.K. (2009)**  
New hippocampal neurons are not obligatory for memory formation; cyclin D2 knockout mice with no adult brain neurogenesis show learning.  
*Learn. Mem.*, **16**, 439-451
48. **Jankowiak-Siuda K., Siemieniuk K., Grabowska A. (2009)**  
Neurobiologiczne podstawy empatii.  
*Neuropsychiatria i Neuropsychologia*, **4**, 51-58
49. **Januszewicz E., Pajak B., Gajkowska B., Samluk Ł., Djavadian R.L., Hinton B.T., Nałęcz K.A. (2009)**  
Organic cation/carnitine transporter OCTN3 is present in astrocytes and is up-regulated by peroxisome proliferators-activator receptor agonist.  
*Int. J. Biochem. Cell Biol.*, **41**, 2599-2609
50. **Jaworski T., Dewachter I., Lechat B., Croes S., Termont A., Demedts D., Borghgraef P., Devijver H., Filipkowski R.K., Kaczmarek L., Kügler S., van Leuven F. (2009)**  
AAV-Tau mediates pyramidal neurodegeneration by cell-cycle re-entry without neurofibrillary tangle formation in wild-type mice.  
*PLoS ONE*, **4**, e7280
51. **Józefowski S., Sobota A., Kwiatkowska K. (2009)**  
Toll-like receptor 4 (TLR4) surface expression and responsiveness to lipopolysaccharide (LPS) are regulated differentially by dynamin-dependent and dynamin-independent endocytic pathways.  
W : X Jubilee Conference „Molecular Biology In Diagnostics of Infectious Diseases and Biotechnology”. Warszawa : SGGW, 2009, s. 92-95
52. **Kamińska B. (2009)**  
Molecular characterization of inflammation-induced JNK/c-Jun signaling pathway in connection with tumorigenesis.  
W : Inflammation and cancer. Methods and protocols. Vol. 2 : Molecular analysis and pathways. Ed. by Kozlov S.V. New York : Humana Press, s. 249-264  
(Methods in Molecular Biology, v. 512)
53. **Kamińska B., Gózdź A., Zawadzka M., Ellert-Miklaszewska A., Lipko M. (2009)**  
MAPK signal transduction underlying brain inflammation and gliosis as therapeutic target.  
*Anat. Rec.*, **292**, 1902-1913
54. **Kamińska B., Ellert-Miklaszewska A., Oberbek A., Wiśniewski P., Kaza B., Makowska M., Bretner M., Kazimierczuk Z. (2009)**  
Efficacy and mechanisms of anti-tumor action of new potential CK2 inhibitors toward glioblastoma cells.  
*Int. J. Oncol.*, **35**, 1091-1100
55. **Karczmarewicz E., Więckowski M.R., Bielecka L., Karkucińska-Więckowska A., Lebedzińska M., Kryskiewicz E., Sykut-Cegielska J., Pronicki M., Duszyński J., Pronicka E. (2009)**

Functional studies of the respiratory chain abnormalities in fibroblasts of patients with various oxidative phosphorylation disorders.  
Ann. Diagn. Paediatr. Pathol., **13**, 11-17

- 56. Karetko M., Skangiel-Kramska J. (2009)**  
Diverse functions of perineuronal nets.  
Acta Neurobiol. Exp., **69**, 564-577
- 57. Kasicki S., Jeleń P., Olszewski M., Sławińska U. (2009)**  
Electrical hippocampal activity during danger and safety signals in classical conditioning in the rat.  
Acta Neurobiol. Exp., **69**, 119-128
- 58. Kilańczyk E., Filipek S., Jastrzębska B., Filipek A. (2009)**  
CacyBP/SIP binds ERK1/2 and affects transcriptional activity of Elk-1.  
Biochem. Biophys. Res. Commun., **380**, 54-59
- 59. Klejman M.E., Gruszczyńska-Biegała J., Skibińska-Kijek A., Wiśniewska M.B., Misztal K., Błażejczyk M., Bojarski Ł., Kuźnicki J. (2009)**  
Expression of STIM1 in brain and puncta-like co-localization of STIM1 and ORAI1 upon depletion of Ca<sup>2+</sup> store in neurons.  
Neurochem. Int., **54**, 49-55
- 60. Kleveta G., Czerkies M., Sobota A., Kwiatkowska K. (2009)**  
Activation of macrophages with LPS induces transient association of TLR4 and CD14.  
W : X Jubilee Conference „Molecular Biology In Diagnostics of Infectious Diseases and Biotechnology”. Warszawa : SGGW, 2009, s. 99-102
- 61. Kłopocka W., Rędowicz M.J., Wasik A. (2009)**  
Regulacja dynamiki cytoszkieletu kortykalnego podczas migracji swobodnie żyjących ameb.  
Post. Biochem., **55**, 129-137
- 62. Knapska E., Maren S. (2009)**  
Reciprocal patterns of c-Fos expression in the medial prefrontal cortex and amygdala after extinction and renewal of conditioned fear.  
Learn. Mem., **16**, 486-493
- 63. Kocik E., Skowronek K.J., Kasprzak A.A. (2009)**  
Interactions between subunits in heterodimeric Ncd molecules.  
J. Biol. Chem., **284**, 35735-35745
- 64. Konopacka A., Konopacki F.A., Albrecht J. (2009)**  
Protein kinase G is involved in ammonia-induced swelling of astrocytes.  
J. Neurochem., **109**, suppl. 1, 246-251
- 65. Konopka W., Duniec K., Klejman A., Wawrzyniak M., Owczarek D., Gawryś L., Maleszewski M., Mallet J., Kaczmarek L. (2009)**  
Tet system in the brain: transgenic rats and lentiviral vectors approach.  
Genesis, **47**, 274-280

66. **Koszela-Piotrowska I., Matkovic K., Szewczyk A., Jarmuszkiewicz W. (2009)**  
A large-conductance calcium-activated potassium channel in potato (*Solanum tuberosum*) tuber mitochondria.  
*Biochemical J.*, **424**, 307-316
67. **Kowalczyńska H.M., Kołos R., Nowak-Wyrzykowska M., Dobkowski J., Elbaum D., Szczepankiewicz A., Kamiński J. (2009)**  
Atomic force microscopy evidence for conformational changes of fibronectin adsorbed on unmodified and sulfonated polystyrene surfaces.  
*J. Biomed. Mater. Res. A*, **91**, 1239-1251
68. **Kozieł K., Lebedzińska M., Szabadkai G., Onopiuk M., Brutkowski W., Wierzbicka K., Wilczyński G., Pinton P., Duszyński J., Zabłocki K., Więckowski M.R. (2009)**  
Plasma membrane associated membranes (PAM) from Jurkat cells contain STIM1 protein. Is PAM involved in the capacitative calcium entry?  
*Int. J. Biochem. Cell Biol.*, **41**, 2440-2449
69. **Kulikova N., Avrova S.V., Borovikov Y.S. (2009)**  
Caldesmon inhibits the rotation of smooth actin subdomain-1 and alters its mobility during the ATP hydrolysis cycle.  
*Biochem. Biophys. Res. Commun.*, **390**, 125-129
70. **Kuźnicka B., Kuźnicki L. (2009)**  
Instytut Biologii Doświadczalnej im. M. Nenckiego – dawniej i dziś.  
W: Towarzystwo Naukowe Warszawskie. Sto lat działalności. Pod red. Wolnicz-Pawłowskiej E. i Zycha W. Warszawa : Towarzystwo Naukowe Warszawskie, 2009, s. 83-96
71. **Kuźnicki L. (2009)**  
Ewolucjonizm w Polsce 1883-1959.  
*Kosmos*, **58**, 297-313
72. **Kuźnicki L. (2009)**  
Percepcja darwinizmu na ziemiach polskich w latach 1860-1881.  
*Kosmos*, **58**, 279-285
73. **Kuźnicki L. (2009)**  
Sprawy polskie w świetle 40-letniej działalności Komitetu Prognoz Polskiej Akademii Nauk.  
W: Rola nauki w myśleniu o przyszłości. Red. nauk. Kleer J., Galwas B., Wierzbicki A. Warszawa : PAN Komitet Prognoz „Polska 2000 Plus”, 2009, s. 173-222
74. **Kvachnina E., Dumuis A., Włodarczyk J., Renner U., Cochet M., Richter D.W., Ponimaskin E. (2009)**  
Constitutive G<sub>s</sub>-mediated, but not G<sub>12</sub>-mediated, activity of the 5-hydroxytryptamine 5-HT<sub>7(a)</sub> receptor is modulated by the palmitoylation of its C-terminal domain.  
*Biochim. Biophys. Acta*, **1793**, 1646-1655



75. *Labieniec M., Przygodzki T., Cársky J., Malińska D., Rysz J., Watala C. (2009)*  
Effects of resorcyridene aminoguanidine (RAG) on selected parameters of isolated rat liver mitochondria.  
*Chem. Biol. Interact.*, **179**, 280-287
76. *Lebiedzińska M., Duszyński J., Rizzuto R., Pinton P., Więckowski M.R. (2009)*  
Age-related changes in levels of p66Shc and serine 36-phosphorylated p66Shc in organs and mouse tissues.  
*Arch. Biochem. Biophys.*, **486**, 73-80
77. *Lebiedzińska M., Szabadkai G., Jones A.W.E., Duszyński J., Więckowski M.R. (2009)*  
Interactions between the endoplasmic reticulum, mitochondria, plasma membrane and other subcellular organelles .  
*Int. J. Biochem. Cell Biol.*, **41**, 1805-1816
78. *Lehotský J., Urban P., Pavlíková M., Tatarková Z., Kamińska B., Kaplán P. (2009)*  
Molecular mechanisms leading to neuroprotection/ischemic tolerance: effect of preconditioning on the stress reaction of endoplasmic reticulum.  
*Cell. Mol. Neurobiol.*, **29**, 917-925
79. *Leśniak W., Słomnicki Ł.P., Filipek A. (2009)*  
S100A6 – new facts and features.  
*Biochem. Biophys. Res. Commun.*, **390**, 1087-1092
80. *Liguz-Lęcznar M., Waleszczyk W.J., Zakrzewska R., Skangiel-Kramska J., Kossut M. (2009)*  
Associative pairing involving monocular stimulation selectively mobilizes a subclass of GABAergic interneurons in the mouse visual cortex.  
*J. Comp. Neurol.*, **516**, 482-492
81. *Łukasik A., Kwiatkowska K., Sobota A. (2009)*  
Impaired FcγRIIA signaling in U937 cells with down-regulated activity of acid sphingomyelinase or sphingomyelin synthase 2.  
W : X Jubilee Conference „Molecular Biology In Diagnostics of Infectious Diseases and Biotechnology”. Warszawa : SGGW, 2009, s. 111-113
82. *Łukasiuk K., Pitkänen A. (2009)*  
Seizure-induced gene expression.  
W : Encyclopedia of Basic Epilepsy Research. Ed. Schwartzkroin P.A. Vol. 3.  
Oxford : Academic Press, 2009, s.1302-1309
83. *Macias M., Nowicka D., Czupryn A., Sulejczak D., Skup M., Skangiel-Kramska J., Czarkowska-Bauch J. (2009)*  
Exercise-induced motor improvement after complete spinal cord transection and its relation to expression of brain-derived neurotrophic factor and presynaptic markers.  
*BMC Neurosci.*, **10**, 144
84. *Mackiewicz P., Wyroba E. (2009)*  
Phylogeny and evolution of Rab7 and Rab9 proteins.  
*BMC Evol. Biol.*, **9**, 101

- 85. Magalska A., Piwocka K., Wolanin K., Śliwińska M.A., Sikora E. (2009)**  
Śmierć komórkowa – mechanizmy i znaczenie w procesie starzenia.  
W : Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J. Warszawa :  
Wydawn. Nauk. PWN, 2009, ss. 176-187
- 86. Majak K., Dąbrowski M., Pitkänen A. (2009)**  
Epileptogenesis alters gene expression pattern in rats subjected to amygdala-  
dependent emotional learning.  
Neuroscience, **159**, 468-482
- 87. Malińska D., Kudin A.P., Dębska-Vielhaber G., Vielhaber S., Kunz W.S. (2009)**  
Quantification of superoxide production by mouse brain and skeletal muscle  
mitochondria.  
W : Mitochondrial function. Part A : Mitochondrial electron transport complexes and  
reactive oxygen species. Ed. Allison W.S., Scheffler I.E. Amsterdam : Elsevier, 2009,  
s. 419-437 (Methods in Enzymology, v. 456)
- 88. Marchewka A., Jednoróg K., Nowicka A., Brechmann A., Grabowska A. (2009)**  
Grey-matter differences related to true and false recognition of emotionally charged  
stimuli - A voxel based morphometry study.  
Neurobiol. Learn. Mem., **92**, 99-105
- 89. Markovic D.S., Vinnakota K., Chirasani S., Synowitz M., Raguet H., Stock K., Śliwa M.,  
Lehmann S., Kälin R., van Rooijen N., Holmbeck K., Heppner F.L., Kiwit J., Matyash V.,  
Lehnardt S., Kamińska B., Glass R., Kettenmann H. (2009)**  
Gliomas induce and exploit microglial MT1-MMP expression for tumor expansion.  
Proc. Natl. Acad. Sci. U.S.A., **106**, 12530-12535
- 90. Márkus Z., Berényi A., Paróczy Z., Wypych M., Waleszczyk W.J., Benedek G., Nagy A.  
(2009)**  
Spatial and temporal visual properties of the neurons in the intermediate layers of the  
superior colliculus.  
Neurosci. Lett., **454**, 76-80
- 91. Meyza K.Z., Boguszewski P.M., Nikolaev E., Zagrodzka J. (2009)**  
Diverse sensitivity of RHA/Verh and RLA/Verh rats to emotional and spatial aspects  
of a novel environment as a result of a distinct pattern of neuronal activation in the  
fear/anxiety circuit.  
Behav. Genet., **39**, 48-61
- 92. Michaluk P., Mikasova L., Groc L., Frischknecht R., Choquet D., Kaczmarek L. (2009)**  
Matrix metalloproteinase-9 controls NMDA receptor surface diffusion through  
integrin  $\beta$ 1 signaling.  
J. Neurosci., **29**, 6007-6012
- 93. Miyazaki M., Sampath H., Liu X., Flowers M.T., Chu K., Dobrzyń A., Ntambi J.M.  
(2009)**  
Stearoyl-CoA desaturase-1 deficiency attenuates obesity and insulin resistance in  
leptin-resistant obese mice.  
Biochem. Biophys. Res. Commun., **380**, 818-822

- 94. Mosieniak G. (2009)**  
Starzenie komórkowe w onkogenezie i terapii przeciwnowotworowej.  
W : Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J. Warszawa :  
Wydawn. Nauk. PWN, 2009, s. 165-175
- 95. Nałęcz K.A. (2009)**  
Palmitoylcarnitine – a new regulator of signaling pathways leading to differentiation  
of neural cells.  
W : Signal Transduction in Nervous Cells. Ed. Fedorovich S.V.  
Kerala (India) : Research Signpost, 2009, s. 117-135
- 96. Niewiadomska G., Baksalerska-Pazera M., Riedel G. (2009)**  
The septo-hippocampal system, learning and recovery of function.  
Prog. Neuropsychopharmacol. Biol. Psychiatry, **33**, 791-805
- 97. Niewiadomska G. (2009)**  
Starzenie się układu nerwowego.  
W : Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J. Warszawa :  
Wydawn. Nauk. PWN, 2009, ss. 93-115
- 98. Nowicka A., Jednoróg K., Marchewka A., Brechmann A. (2009)**  
Successfully overcoming the inhibitory impact of the "forget" instruction: a voxel-  
based morphometric study of directed forgetting.  
Psychophysiology, **46**, 1108-1112
- 99. Nowicka A., Jednoróg K., Wypych M., Marchewka A. (2009)**  
Reversed old/new effect for intentionally forgotten words: an ERP study of directed  
forgetting.  
Int. J. Psychophysiol., **71**, 97-102
- 100. Nowicka D., Soulsby S., Skangiel-Kramaska J., Glazewski S. (2009)**  
Parvalbumin-containing neurons, perineuronal nets and experience-dependent  
plasticity in murine barrel cortex.  
Eur. J. Neurosci., **30**, 2053-2063
- 101. Onopiuk M., Brutkowski W., Wierzbicka K., Wojciechowska S., Szczepanowska J.,  
Fronk J., Lochmüller H., Górecki D.C., Zabłocki K. (2009)**  
Mutation in dystrophin-encoding gene affects energy metabolism in mouse  
myoblasts.  
Biochem. Biophys. Res. Commun., **386**, 463-466
- 102. Osiecka K.M., Nieznańska H., Skowronek K.J., Karolczak J., Schneider G., Nieznański K.  
(2009)**  
Prion protein region 23-32 interacts with tubulin and inhibits microtubule assembly.  
Proteins, **77**, 279-296
- 103. Osikowicz M., Skup M., Mika J., Makuch W., Czarkowska-Bauch J., Przewłocka B. (2009)**  
Glial inhibitors influence the mRNA and protein levels of mGlu2/3, 5 and 7  
receptors and potentiate the analgesic effects of their ligands in a mouse model of  
neuropathic pain.  
Pain, **147**, 175-186

- 104. Osińska M., Kobylecki K., Wiejak J., Wyroba E. (2009)**  
Izoformy i izotypy białek Rab w komórkach roślinnych i zwierzęcych.  
Post. Biol. Kom., **36**, suppl. 25, 117-133
- 105. O'Sullivan-Coyne G., O'Sullivan G.C., O'Donovan T.R., Piwocka K., McKenna S.L. (2009)**  
Curcumin induces apoptosis-independent death in oesophageal cancer cells.  
Br. J. Cancer, **101**, 1585-1595
- 106. Pawłowski K. (2009)**  
Bioinformatyka w poszukiwaniu nowych leków.  
Kosmos, **58**, 127-134
- 107. Pawłowski K., Grynberg M. (2009)**  
Bioinformatyka - wprowadzenie.  
Kosmos, **58**, 1-2
- 108. Pitkänen A., Łukasiuk K. (2009)**  
Epilepsy : neuronal death.  
W : Encyclopedia of neuroscience. Vol. 3. Ed. Squire L.R. Oxford : Academic Press,  
2009, s. 1159-1166
- 109. Pitkänen A., Łukasiuk K. (2009)**  
Molecular and cellular basis of epileptogenesis in symptomatic epilepsy.  
Epilepsy Behav., **14**, 16-25
- 110. Pliszka B., Rędownicz M.J. (2009)**  
Wspomnienie o Profesor Renacie Dąbrowskiej.  
Post. Biochem., **55**, 106-107
- 111. Podszywałow-Bartnicka P., Kosiorek M., Zabłocki K., Piłka S. (2009)**  
Mechanizm wydzielania katecholamin przez komórki chromochłonne rdzenia  
nadnerczy ssaków – udział aneksyny A6.  
W: Na pograniczu chemii i biologii. T. XXII. Red. Koroniak H., Barciszewski J.  
Poznań : Wydawn. Nauk. Uniwersytetu im. A. Mickiewicza w Poznaniu, 2009, s.  
277-300
- 112. Polczyk K., Kulma M., Sobota A. (2009)**  
Expression of recombinant lysenin in fibroblasts inhibits FcγIIA-receptor-mediated  
phagocytosis.  
W : X Jubilee Conference „Molecular Biology In Diagnostics of Infectious Diseases  
and Biotechnology”. Warszawa : SGGW, 2009, s. 136-139
- 113. Pomorski P. (2009)**  
Regulacja migracji komórek przez jony wapnia.  
Post. Biochem., **55**, 163-170
- 114. Puzianowska-Kuźnicka M., Kuźnicki J. (2009)**  
The ER and ageing II : calcium homeostasis.  
Ageing Res. Rev., **8**, 160-172

115. *Rędownicz M.J. (2009)*  
Jubileusz 50-lecia Polskiego Towarzystwa Biochemicznego.  
Post. Bioch., **55**, 105-106
116. *Rędownicz M.J. (red.) (2009)*  
Postępy Biochemii t. 55 nr 2 ; numer specjalny sieci Mobilias.pl pod redakcją Marii Jolanty Rędownicz. Warszawa : Polskie Towarzystwo Biochemiczne, 2009
117. *Ruman T., Długopolska K., Jurkiewicz A., Kramarz D., Frączyk T., Leś A., Rode W. (2009)*  
The synthesis, reactivity and NMR investigation on <sup>15</sup>N-thiophosphoramidates.  
Lett. Org. Chem., **6**, 642-647
118. *Ruman T., Długopolska K., Kuśnierz A., Jurkiewicz A., Leś A., Rode W. (2009)*  
Synthesis and NMR properties of novel 5,6-dihydroborauracil derivatives.  
Bioorg. Chem., **37**, 65-69
119. *Ruman T., Długopolska K., Kuśnierz A., Rode W. (2009)*  
Synthesis and NMR properties of derivatives of 5,6-dihydroborauracil and 5,6-dihydroborathymine.  
Bioorg. Chem., **37**, 180-184
120. *Rybakowski J.K., Borkowska M., Skibińska M., Kaczmarek L., Hauser J. (2009)*  
The-1562 C/T polymorphism of the matrix metalloproteinase-9 gene is not associated with cognitive performance in healthy participants.  
Psychiatr. Genet., **19**, 277-278
121. *Rybakowski J.K., Skibińska M., Kapelski P., Kaczmarek L., Hauser J. (2009)*  
Functional polymorphism of the matrix metalloproteinase-9 (MMP-9) gene in schizophrenia.  
Schizophr. Res., **109**, 90-93
122. *Rybakowski J.K., Skibińska M., Leszczyńska-Rodziewicz A., Kaczmarek L., Hauser J. (2009)*  
Matrix metalloproteinase-9 gene and bipolar mood disorder.  
Neuromol. Med., **11**, 128-132
123. *Rybakowski J.K., Skibińska M., Leszczyńska-Rodziewicz A., Kaczmarek L., Hauser J. (2009)*  
Matrix metalloproteinase-9 gene modulates prefrontal cognition in bipolar men.  
Psychiatr. Genet., **19**, 108-109
124. *Rylski M., Amborska R., Zybura K., Michaluk P., Bielińska B., Konopacki F.A., Wilczyński G.M., Kaczmarek L. (2009)*  
JunB is a repressor of MMP-9 transcription in depolarized rat brain neurons.  
Mol. Cell. Neurosci., **40**, 98-110
125. *Rymarczyk K., Biele C., Majczyński H. (2009)*  
Rola dynamiki w percepcji ekspresji emocjonalnych.  
Stud. Psychol., **47** z. 3, 53-64

- 126. Samonek A., Sobota A. (2009)**  
Activation of immunoreceptor FcγRIIA triggers translocation of acid sphingomyelinase onto the surface of U937 cells.  
W : X Jubilee Conference „Molecular Biology In Diagnostics of Infectious Diseases and Biotechnology”. Warszawa : SGGW, 2009, s. 151-154
- 127. Sarnowska A., Jurga M., Bużańska L., Filipkowski R.K., Duniec K., Domańska-Janik K. (2009)**  
Bilateral interaction between cord blood-derived human neural stem cells and organotypic rat hippocampal culture.  
Stem Cells Dev., **18**, 1191-1199
- 128. Schönfeld P., Dymkowska D., Wojtczak L. (2009)**  
Acyl-CoA-induced generation of reactive oxygen species in mitochondrial preparations is due to the presence of peroxisomes.  
Free Rad. Biol. Med., **47**, 503-509
- 129. Sikora E. (2009)**  
Genetyka starzenia i długowieczności człowieka.  
W : Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J. Warszawa : Wydawn. Nauk. PWN, 2009, s. 70-81
- 130. Sikora E. (2009)**  
Związek ścieżki insulina/IGF-1 ze starzeniem i długowiecznością.  
W : Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J. Warszawa : Wydawn. Nauk. PWN, 2009, s. 82-92
- 131. Sikora E., Bartosz G., Witkowski J. (red. nauk.) (2009)**  
Biogerontologia. Red. nauk. Sikora E., Bartosz G., Witkowski J.  
Warszawa : Wydawn. Nauk. PWN, 2009, ss. 196
- 132. Sikora E., Brzezińska A. (2009)**  
Activation-induced cell death of T-cells in elderly.  
W: Handbook on immunosenescence. Basic understanding and clinical applications.  
Eds. Fulop T. i in.  
[New York] : Springer, 2009, s. 277-290
- 133. Skalska J., Bednarczyk P., Piwońska M., Kulawiak B., Wilczyński G., Dołowy K., Kudin A.P., Kunz W.S., Szewczyk A. (2009)**  
Calcium ions regulate K<sup>+</sup> uptake into brain mitochondria: the evidence for a novel potassium channel.  
Int. J. Mol. Sci., **10**, 1104-1120
- 134. Słomnicki Ł.P., Nawrot B., Leśniak W. (2009)**  
S100A6 binds p53 and affects its activity.  
Int. J. Biochem. Cell Biol., **41**, 784-790

135. *Śliwińska M.A., Mosieniak G., Wolanin K., Babik A., Piwocka K., Magalska A., Szczepanowska J., Fronk J., Sikora E. (2009)*  
Induction of senescence with doxorubicin leads to increased genomic instability of HCT116 cells.  
Mech. Ageing Dev., **130**, 24-32
136. *Sobczak M., Majewski Ł., Rędownicz M.J. (2009)*  
Miozyny w jądrze komórkowym.  
Post. Bioch., **55**, 239-246
137. *Szczepanowska J. (2009)*  
Involvement of Rac/Cdc42/PAK pathway in cytoskeletal rearrangements.  
Acta Biochim. Pol., **56**, 225-234
138. *Szczepińska T. (2009)*  
Geny w trzech wymiarach. [Metody matematyczne w biologii systemowej].  
Academia, nr 2 (18), 32-33
139. *Szeląg E. (2009)*  
Ethics in research with human subjects.  
W: Ethics & Medicine. Dokumentation der Tschechisch-slowakisch-polnischen Tagung der Societas Humboldtiana Polonorum in Katowice, den 24-27 April 2008. Hrsg. Krzemiński T.F., Żorniak M.; Societas Humboldtiana Polonorum vol. 13. Katowice: Krzemiński T.F., Żorniak M., 2009, s. 75-80
140. *Szeląg E., Dreszer J., Lewandowska M., Szymaszek A. (2009)*  
Neural representation of time and timing processes.  
W: Neural correlates of thinking. Eds. Kraft E., Gulyás B., Pöppel E. Berlin: Springer-Verlag, 2009, s. 187-199
141. *Szeląg E., Węsierska M., Dreszer J., Lewandowska M., Mędygrał J., Szymaszek A., Pöppel E. (2009)*  
Neuropsychological rehabilitation from a brain-behavior perspective.  
W: New Ideas in Studying and Supporting Development of Exceptional People. Ed. by Pisula E., Tomaszewski P. Warszawa: Warsaw Univ. Press, 2009, s. 49-63
142. *Szewczyk A., Jarmuszkiewicz W., Kunz W.S. (2009)*  
Mitochondrial potassium channels.  
IUBMB Life, **61**, 134-143
143. *Szokalska A., Makowski M., Nowis D., Wilczyński G.M., Kujawa M., Wójcik C., Młynarczuk-Biały I., Salwa P., Bil J., Janowska S., Agostinis P., Verfaillie T., Bugajski M., Gietka J., Issat T., Głodkowska E., Mrówka P., Stokłosa T., Hamblin M.R., Mróz P., Jakóbisiak M., Gołąb J. (2009)*  
Proteasome inhibition potentiates antitumor effects of photodynamic therapy in mice through induction of endoplasmic reticulum stress and unfolded protein response.  
Cancer Res., **69**, 4235-4243

144. **Sztolsztener M.E., Bandorowicz-Pikuła J. (2009)**  
Wewnątrzkomórkowy transport i magazynowanie cholesterolu w chorobie Niemann-Picka typu C.  
W: Na pograniczu chemii i biologii. T. XXII. Red. Koroniak H., Barciszewski J. Poznań : Wydawn. Nauk. Uniwersytetu im. A. Mickiewicza w Poznaniu, 2009, s. 217-250
145. **Szwacka M., Tykarska T., Wiśniewska A., Kuras M., Bilski H., Malepszy S. (2009)**  
Leaf morphology and anatomy of transgenic cucumber lines tolerant to downy mildew.  
Biol. Plant., **53**, 697-701
146. **Szymańska E., Korzeniowski M., Raynal P., Sobota A., Kwiatkowska K. (2009)**  
Contribution of PIP-5 kinase  $\alpha$  to raft-based Fc $\gamma$ RIIA signaling.  
Exp. Cell Res., **315**, 981-995
147. **Szymańska E., Kwiatkowska K. (2009)**  
PI(4,5)P<sub>2</sub>, unikatowy lipid błony komórkowej: różnorodność funkcji i mnogość białek efektorowych.  
Post. Biol. Kom., **36**, 343-359
148. **Szymaszek A., Sereda M., Pöppel E., Szelaq E. (2009)**  
Individual differences in the perception of temporal order: the effect of age and cognition.  
Cogn. Neuropsychol., **26**, 135-147
149. **Talukdar T., Górecka K.M., de Carvalho-Niebel F., Downie J.A., Cullimore J., Pikuła S. (2009)**  
Annexins - calcium- and membrane-binding proteins in the plant kingdom: potential role in nodulation and mycorrhization in *Medicago truncatula*.  
Acta Biochim. Pol., **56**, 199-210
150. **Thouverey C., Bechkoff G., Pikuła S., Buchet R. (2009)**  
Inorganic pyrophosphate as a regulator of hydroxyapatite or calcium pyrophosphate dihydrate mineral deposition by matrix vesicles.  
Osteoarthr. Cartil., **17**, 64-72
151. **Thouverey C., Strzelecka-Kiliszek A., Balcerzak M., Buchet R., Pikuła S. (2009)**  
Matrix vesicles originate from apical membrane microvilli of mineralizing osteoblast-like Saos-2 cells.  
J. Cell. Biochem., **106**, 127-138
152. **Urban P., Pavlíková M., Sivonová M., Kaplán P., Tatarková Z., Kamińska B., Lehotský J. (2009)**  
Molecular analysis of endoplasmic reticulum stress response after global forebrain ischemia/reperfusion in rats : effect of neuroprotectant simvastatin.  
Cell. Mol. Neurobiol., **29**, 181-192



- 153.** *Volgin D.V., Malinowska M., Kubin L. (2009)*  
Dorsomedial pontine neurons with descending projections to the medullary reticular formation express orexin-1 and adrenergic  $\alpha_{2A}$  receptor mRNA.  
*Neurosci. Lett.*, **459**, 115-118
- 154.** *Walerych D., Olszewski M.B., Gutkowska M., Helwak A., Żylicz M., Żylicz A. (2009)*  
Hsp70 molecular chaperones are required to support p53 tumor suppressor activity under stress conditions.  
*Oncogene*, **28**, 4284-4294
- 155.** *Werka T., Zagrodzka J. (2009)*  
Strach i lęk w świetle badań neurobiologicznych.  
W: Lęk. Geneza, mechanizmy, funkcje. Red. Fajkowska M., Szymura B. Warszawa : Wydawn. Nauk. Scholar, 2009, s. 17-49
- 156.** *Węsierska M., Adamska I., Malinowska M. (2009)*  
Retrosplenial cortex lesion affected segregation of spatial information in place avoidance task in the rat.  
*Neurobiol. Learn. Mem.*, **91**, 41-49
- 157.** *Więckowski M.R., Giorgi C., Lebedzińska M., Duszyński J., Pinton P. (2009)*  
Isolation of mitochondria-associated membranes and mitochondria from animal tissues and cells.  
*Nat. Protoc.*, **4**, 1582-1590
- 158.** *Wilczyński G.M., Kaczmarek L. (2009)*  
The important role of matrix metalloproteinase 9 (MMP-9) in epileptogenesis.  
Annual Report (Polish Academy of Sciences), 2009, 42-43
- 159.** *Włoga D., Webster D.M., Rogowski K., Bre M.H., Levilliers N., Jerka-Dziadosz M., Janke C., Dougan S.T., Gaertig J. (2009)*  
TTLL3 is a tubulin glycine ligase that regulates the assembly of cilia.  
*Dev. Cell*, **16**, 867-876
- 160.** *Woehler A., Włodarczyk J., Ponimaskin E.G. (2009)*  
Specific oligomerization of the 5-HT1A receptor in the plasma membrane.  
*Glycoconj. J.*, **26**, 749-756
- 161.** *Wójcik D.K. (2009)*  
Proste modele mechanizmów ewolucji.  
W : Problemy środowiska i jego ochrony. Cz. 17. Red. Nakonieczny M., Migula P. Katowice : Wydawn. Uniwersytetu Śląskiego, 2009, s. 19-32
- 162.** *Wójcik D.K., Mochol G., Jakuczun W., Wypych M., Waleszczyk W.J. (2009)*  
Direct estimation of inhomogenous Markov interval models of spike-trains.  
*Neural. Comput.*, **21**, 2105-2113
- 163.** *Wrzosek A. (2009)*  
Endothelium as target for large-conductance calcium-activated potassium channel openers.  
*Acta Biochim. Pol.*, **56**, 393-404

- 164. Wrzosek A., Łukasiak A., Gwóźdź P., Malińska D., Kozłowski V.I., Szewczyk A., Chłopicki S., Dołowy K. (2009)**  
Large-conductance K<sup>+</sup> channel opener CGS7184 as a regulator of endothelial cell function.  
Eur. J. Pharmacol., **602**, 105-111
- 165. Wrzosek A., Zabłocki K., Szewczyk A. (2009)**  
Regulacja wewnątrzkomórkowego stężenia jonów wapnia (metody detekcji).  
W: Na pograniczu chemii i biologii. T. XXII. Red. Koroniak H., Barciszewski J.  
Poznań : Wydawn. Nauk. Uniwersytetu im. A. Mickiewicza w Poznaniu, 2009, s.  
251-276
- 166. Zawadzka M., Łukasiuk K., Machaj E.K., Pojda Z., Kamińska B. (2009)**  
Lack of migration and neurological benefits after infusion of umbilical cord blood cells in ischemic brain injury.  
Acta Neurobiol. Exp., **69**, 46-51