

Dr. Pirger Zsolt publikációs listája

Összesített IF: 82,91

CIKKEK:

Maasz G, Petrovics D, Rivnyak A, Zrinyi Z, Tamas A, Mark L, Kiss T, Reglodi D, Pirger Z. Evolutionary conserved neuroprotective function of pituitary adenylate cyclase-activating polypeptide (PACAP) in dopamine-based neurodegeneration. *Under review*

Krajcs N, Pirger Z, Hernádi L, Reglodi D, Kiss T
PACAP modulates acetylcholine elicited contractions at nicotinic neuromuscular contacts of the land snail. *Under review*

1. Kiss T, Krajcs N, Pirger Z, Hernádi L.
Nicotinic acetylcholine receptors containing the $\alpha 7$ -like subunit mediate contractions of muscles responsible for space positioning of the snail, *Helix pomatia L.* tentacle.
PLOS ONE 9:(10) e109538. (2014)
IF: 3.534

2. Pirger Z, Naskar S, László Z, Kemenes G, Reglodi D, Kemenes I.
Reversal of age-related learning deficiency by the vertebrate PACAP and IGF-1 in a novel invertebrate model of aging: the pond snail (*Lymnaea stagnalis*).
THE JOURNAL OF GERONTOLOGY – A, BIOLOGICAL SCIENCES 69:(11) pp. 1331-8. (2014)
IF: 4.984

3. Maasz G, Pirger Z, Petrovics D, Schmidt J, Reglodi D, Hashimoto H, Kiss P, Szalontai B, Rivnyak A, Avar P, Mark L.
Comparative analysis of peptide-protein composition in brains of PACAP-deficient mice using mass spectrometry-based proteomic analysis
JOURNAL OF MOLECULAR NEUROSCIENCE 54:(3) pp. 310-9. (2014)
IF: 2.757

4. Pirger Z, Crosley M, Laszlo Z, Naskar S, Kemenes G, O'Shea M, Benjamin P, Kemenes I.
Interneuronal mechanism for Tinbergen's hierarchical model of behavioral choice.
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IF: 10.227

5. Kiss T, Battonyai I, Pirger Z.
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PHYSIOLOGY AND BEHAVIOR 131: pp. 93-8. (2014)
IF: 3.150

6. Pirger Z, Battonyai I, Krajcs N, Elekes K, Kiss T
Voltage-gated membrane currents in neurons involved in odor information processing in snail procerebrum
BRAIN STRUCTURE AND FUNCTION Online first: pp. 1-10. *In press* (2013)
IF: 4.567

7. Shrestha B, Javonillo R, Burns R, Pirger Z, Vertes A.
Comparative local analysis of metabolites, lipids and proteins in intact fish tissues by LAESI mass spectrometry
ANALYST 138:(12) pp. 3444-3449. (2013)
IF: 4.230
8. Kiss T, Pirger Z
Multifunctional Role of PACAP-Like Peptides in Molluscs.
PROTEIN AND PEPTIDE LETTERS 20:(6) pp. 628-635. (2013)
IF: 1.942
9. Mark L, Maasz G, Pirger Z
High resolution spatial distribution of neuropeptides by MALDI imaging mass spectrometry in the terrestrial snail, *Helix pomatia*
ACTA BIOLOGICA HUNGARICA 63:(Suppl. 2) pp. 113-122. (2012)
IF: 0.593
10. Kiss T, László Z, Pirger Z
Cellular localization and kinetic properties of NaV1.9-, NaV1.8-, and NaV1.7-like channel subtypes in *Helix pomatia*
NEUROSCIENCE 203: pp. 78-90. (2012)
IF: 3.380
11. Pirger Z, Kiss T, László Z, G-Tóth L, Váczy A, Márk L
Modern tömegspektrometriai módszerek (MALDI TOF és LC-ESI MS) alkalmazása a vizek hormontartalmának kimutatására
HIDROLÓGIAI KÖZLÖNY 90:(6) pp. 117-119. (2010)
12. Pirger Z, Laszlo Z, Hiripi L, Hernadi L, Toth G, Reglodi D, Kemenes G, Mark L
Pituitary adenylate cyclase activating polypeptide (PACAP) and its receptors are present and biochemically active in the central nervous system of the pond snail *Lymnaea stagnalis*
JOURNAL OF MOLECULAR NEUROSCIENCE 42:(3) pp. 464-471. (2010)
IF: 2.922
13. Pirger Z, Lubics A, Reglodi D, Laszlo Z, Mark L, Kiss T
Mass spectrometric analysis of activity-dependent changes of neuropeptide profile in the snail, *Helix pomatia*
NEUROPEPTIDES 44:(6) pp. 475-483. (2010)
IF: 1.917
14. Pirger Z, Laszlo Z, Kemenes I, Toth G, Reglodi D, Kemenes G
A homolog of the vertebrate pituitary adenylate cyclase-activating polypeptide is both necessary and instructive for the rapid formation of associative memory in an invertebrate
JOURNAL OF NEUROSCIENCE 30:(41) pp. 13766-13773. (2010)
IF: 7.271
15. Pirger Z, Rác B, Kiss T
Dopamine-induced programmed cell death is associated with cytochrome c release and caspase-3 activation in snail salivary gland cells
BIOLOGY OF THE CELL 101:(2) pp. 105-116. (2009)

IF: 3.974

16. Kiss T, Pirger Z, Kemenes G

Food-aversive classical conditioning increases a persistent sodium current in molluscan withdrawal interneurons in a transcription dependent manner

NEUROBIOLOGY OF LEARNING AND MEMORY 92:(1) pp. 114-119. (2009)

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17. Pirger Z, Nemeth J, Hiripi L, Toth G, Kiss P, Lubics A, Tamas A, Hernadi L, Kiss T, Reglodi D

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JOURNAL OF MOLECULAR NEUROSCIENCE 36: pp. 105-114. (2008)

IF: 2.061

18. Nikitin ES, Vavoulis DV, Kemenes I, Marra V, Pirger Z, Michel M, Feng J, O'Shea M, Benjamin PR, Kemenes G

Persistent sodium current is a nonsynaptic substrate for long-term associative memory.

CURRENT BIOLOGY 18:(16) pp. 1221-1226. (2008)

IF: 10.777

19. Hernádi L, Pirger Z, Kiss T, Németh J, Márk L, Kiss P, Tamás A, Lubics A, Tóth G, Shioda S, Reglódi D

The presence and distribution of pituitary adenylate cyclase activating polypeptide and its receptor in the snail *Helix pomatia*

NEUROSCIENCE 155:(2) pp. 387-402. (2008)

IF: 3.556

20. Pirger Z, László Z, Kiss T

G-protein coupled receptor kinase-like immunoreactivity in the snail, *Helix pomatia*, neurons

BRAIN RESEARCH 1122:(1) pp. 10-17. (2006)

IF: 2.341

21. Pirger Z, Elekes K, Kiss T

Electrical properties and cell-to cell communication of the salivary gland cells of the snail, *Helix pomatia*

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY 145:(1) pp. 7-19. (2006)

IF: 1.553

22. Pirger Z, Elekes K, Kiss T

Functional morphology of the salivary gland of the snail, *Helix pomatia*: a histochemical and immunocytochemical study

ACTA BIOLOGICA HUNGARICA 55:(1-4) pp. 221-232. (2004)

IF: 0.425

KÖNYVFEJEZET:

Kiss T, Pirger Z

Neuropeptides as modulators and hormones in terrestrial snails: Their occurrence, distribution and physiological significance

In: Satake H. (szerk.) Invertebrate neuropeptides and hormones: basic knowledge and recent advances.- Kerala: Transworld Research Network, 2006. pp. 75-110. (ISBN:81-7895-224-6)

Link(ek): Teljes dokumentum /

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2. Rivnyak, A., Maasz, G., Reglodi, D., Schmidt, J., Pirger, Z., Mihalik, A., Kiss, P., Gaszner, B., Tamas, A., Hashimoto, H., Mark, L. (2014): Imaging mass spectrometry of the brain of PACAP-deficient and wild-type mice. IBRO Workshop, (abstract number: 195)
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5. Maasz, G., Pirger, Z., Petrovics, D., Schmidt, J., Reglodi, D., Hashimoto, H., Kiss, P., Szalontai, B., Rivnyak, A., Tamas, A., Mark, L. (2013): Peptide and protein composition of the brains of PACAP-deficient mice. 11th Internat. Symp. on VIP, PACAP and Related Pept., (abstract number: P52) page - 133
6. Kiss, T., Pirger, Z., Reglodi, D., Krajcs, N. (2013): PACAP signalling modulates acetylcholine release at neuromuscular nicotinic contacts of the snail model. 11th Internat. Symp. on VIP, PACAP and Related Pept., (abstract number: P41) page - 121
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9. Csanaky, K., Banki, E., Szabadfi, K., Tarcai, I., Helyes, Zs., Mark, L., Zapf, P., Czeglédi, L., Szanto, Z., Pirger, Z., Naskar, S., Reglodi, D., Tamas, A. (2012): Examination of PACAP immunoreactivity in different milk and infant formula samples and presence of PAC1 receptor in the mammary gland during lactation. FENS, 6:18.35 (abstract number: 1208).
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IF= 4.776

TANKÖNYV, JEGYZET:

Godó Z., Pirger Z., Varga V. (2001): Élettan gyakorlatok biológusoknak I. – A keringés és légzés élettana. (p. 58. A/4 ív). Debreceni Egyetem.

Godó Z., Pirger Z., Varga V. (2002): Élettan gyakorlatok biológusoknak II. – A táplálkozás, hormonális rendszer és az idegrendszer élettana. (p. 64. A/4 ív). Debreceni Egyetem.

SZABADALOM:

1. Pirger Z., Michel M, Kemenes G

Lymnaea stagnalis voltage-gated sodium channel alpha-subunit mRNA, partial cds

GenBank: JQ996388.1

Lajstromszám: GI:392508224

Benyújtás éve: 2012.

Benyújtás száma: JQ996388.1.

Közzététel éve: 2012

Benyújtás helye: Nagy-Britannia

Link(ek): Teljes dokumentum /

Oltalmi formák/**Nemzetközi szabadalom**/Tudományos

2. Pirger Z., Kiss T, Mark L

Activity-dependent peptide

Lajstromszám: B3EWK7

Ügyszám: GI:395406806

Benyújtás éve: 2012.

Közzététel éve: 2012

Benyújtás helye: Magyarország
Link(ek): Teljes dokumentum /
Oltalmi formák/**Mintaoltalom**/Tudományos

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20. Pirger, Z., Elekes, K., Kiss, T. (2003): Morphological changes accompanying the saliva production in the salivary gland of the snail, *Helix pomatia*; *poster presentation*. **10th Int. Symp. on Invertebr. Neurobiol. (ISIN)**, Tihany.
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27. Pirger, Z., Kiss, T. (2006): Nyálfel szabadulás apoptózissal az éti csiga nyálmirigysejtjeiből; *poster presentation*. **V. Magyar Sejtanalitikai Konferencia**, Budapest, *abstract no. A-0020*.
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40. Reglodi, D., Pirger, Z., Mark, L., Nemeth, J., Hiripi, L., Kiss, P., Lubics, A., Tamas, A., Kiss, T. (2008): Activity-dependent changes in the protein composition of *Helix pomatia* with special reference to pituitary adenylyl cyclase activating polypeptide; *poster presentation*. **24th Conf. of Eur. Comp. Endocr. (CECE), Genoa, Italy**
41. Pirger, Z., László, Z., Hiripi, L., Reglődi, D. and Kemenes, G. (2009): Bi-directional role for pituitary adenylyl cyclase activating polypeptide (PACAP) in associative memory formation in *Lymnaea*; *poster presentation*. **Molluscan Neuroscience Meeting**, San Juan, Puerto Rico
42. Lubics, A., Mark, L., Vaczy, A., Reglodi, D., Nemeth, J., Kiss, P., Kiss, T., Pirger, Z. (2009): Activity-dependent changes in the protein composition of the snail, *Helix pomatia* with special reference to pituitary adenylyl cyclase activating polypeptide; *poster and oral presentation*. Satellite Symposium of the **9th Internat. Symp. on VIP, PACAP and Related Pept.**, Yakushima, Japán.
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- tömegspektrometriai módszerek (MALDI TOF és LC-ESI) alkalmazása a vizek hormontartalmának kimutatására – **51. Hidrobiológus Napok**, Tihany.
46. Pirger, Z., Kiss, T., Laszlo, Z., Battonyai, I., Elekes, K. (2010): Sodium-channel types and membrane current characteristics of the procerbral neurons of *Helix pomatia*; *poster presentation*. **7th FENS**, Amsterdam, Hollandia, *abstract n° 082.19*
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 48. Pirger, Z. (2010): Mass spectrometric analysis of seasonal-dependent changes of neuropeptide profile in the snail, *Helix pomatia*; *oral presentation*. **25th CECE**, Pécs, Magyarország
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 51. Márk L., Boros-Major A., Reglodi D., Laszlo Z., Pirger Z., Kiss T., Ohmacht R. (2011): Évszakfüggő változások a *Helix pomatia* peptidprofiljában; *oral presentation*. **LXXV. MÉT Vándorgyűlés**, Pécs, Hungary
 52. Pirger, Z., Naskar, S., Pringle, A., Laszlo, Z., Vaczy, A., Pechl, V., Kemenes, G., Mark, L., Kiss, T., Reglodi, D. (2011): PACAP - a phylogenetically conserved neuropeptide; *poster presentation*. **12th ISIN**, Tihany, Hungary
 53. Pirger, Z., Laszlo, Z., Kemenes, G., O’Shea, M., Benjamin, P.R., Kemenes, I. (2011): Analysis of feeding and withdrawal circuits reveals neural mechanisms of decision making; *oral presentation*. **12th ISIN**, Tihany, Hungary
 54. Kemenes, I., Pirger, Z., Laszlo, Z., Kemenes, G., Benjamin, P.R., O’Shea, M. (2011): A systems level analysis of decision making: the interaction of feeding and withdrawal behaviors in *Lymnaea*; *oral presentation*. **12th ISIN**, Tihany, Hungary
 55. Márk, L., Laszlo, Z., Kemenes, G., Pirger, Z. (2011): High resolution spatial distribution of neuropeptides by MALDI imaging MS of the pond snail, *Lymnaea stagnalis*; *oral presentation*. **12th ISIN**, Tihany, Hungary
 56. Pirger, Z., Laszlo, Z., Kemenes, G., O’Shea, M., Benjamin, P.R., Kemenes, I. (2011): Analysis of feeding and withdrawal circuits reveals neural mechanisms of decision making; *poster presentation*. **SfN**, Washington, DC, USA
 57. Kemenes, I., Pirger, Z., Laszlo, Z., Kemenes, G., Benjamin, P.R., O’Shea, M. (2011): A systems level analysis of decision making: the interaction of feeding and withdrawal behaviors in *Lymnaea*; *poster presentation*. **SfN**, Washington, DC, USA
 58. Pirger, Z., Pringle, A., Naskar, S., Laszlo, Z., Pechl, V., Kemenes, G., Kiss, T., Reglodi, D. (2011): The physiological effects of the vertebrate pituitary adenylate cyclase activating polypeptide (PACAP) on molluscan hearts; *poster presentation*. **10th Internat. Symp. on VIP, PACAP and Related Pept.**, Eilat, Izrael
 59. Pirger, Z., Bona, A., Maasz, G., Jambor, E., Laszlo, Z., Mark, L. (2012): Three-dimension, high resolution MALDI MS Imaging investigation of neuropeptides in the pond snail, *Lymnaea stagnalis*; *oral presentation*. **PITTCON Conference and Expo**, Orlando, FL, USA
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adenylate cyclase activating polypeptide (PACAP) in *Lymnaea*. **BPS - Focused Meeting on Neuropeptides**, London, UK

61. Csanaky, K., Banki, E., Szabadfi, K., Tarcai, I., Helyes, Zs., Mark, L., Zapf, P., Czeglédi, L., Szanto, Z., Pirger, Z., Naskar, S., Reglodi, D., Tamas, A. (2012): Examination of PACAP immunoreactivity in different milk and infant formula samples and presence of PAC1 receptor in the mammary gland during lactation. **BPS - Focused Meeting on Neuropeptides**, London, UK
62. Pirger, Z., Pringle, A., Naskar, S., Laszlo, Z., Pechl, V., Kemenes, G., Kiss, T., Reglodi, D. (2012): The physiological effects of the vertebrate pituitary adenylate cyclase activating polypeptide (PACAP) on molluscan hearts. **8th FENS**, Barcelona, Spain
63. Csanaky, K., Banki, E., Szabadfi, K., Tarcai, I., Helyes, Zs., Mark, L., Zapf, P., Czeglédi, L., Szanto, Z., Pirger, Z., Naskar, S., Reglodi, D., Tamas, A. (2012): Examination of PACAP immunoreactivity in different milk and infant formula samples and presence of PAC1 receptor in the mammary gland during lactation. **8th FENS**, Barcelona, Spain
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