

LIST OF PUBLICATIONS – DR. CSABA ADORI

PAPERS IN PEER-REVIEWED SCIENTIFIC JOURNALS

- 1./ Kovacs GG, Kurucz I, Budka H, **Adori C**, Müller F, Ács P, Klöppel S, Schatzl HM, Mayer RJ, László L. Prominent Stress Response of Purkinje Cells in Creutzfeldt-Jakob Disease. *Neurobiology of Disease* 8, 881-889 (2001) IF: 4.87
- 2./ Muller F, **Adori C**, Sass M. Autophagic and apoptotic features during programmed cell death in the fat body of the tobacco hornworm (*Manduca sexta*). *European Journal of Cell Biology* 83(2) 67-78 (2004) IF : 2.31
- 3./ Vannay A, Fekete A, **Adori C**, Toth T, Losonczy G, Laszlo L, Vasarhelyi B, Tulassay T, Szabo A. Divergence of renal vascular endothelial growth factor mRNA expression and protein level in post-ischaemic rat kidneys. *Experimental Physiology* 89(4) 435-44 (2004) IF : 1.83
- 4./ **Adori C**, Kovacs GG, Low P, Molnar K, Gorbea C, Fellingner E, Budka H, Mayer RJ, Laszlo L. The ubiquitin-proteasome system in Creutzfeldt-Jakob and Alzheimer disease: intracellular redistribution of components correlates with neuronal vulnerability. *Neurobiology of Disease* 19(3) 427-35 (2005) IF: 4.04
- 5./ **Adori C**, Ando RD, Kovacs GG, Bagdy G. Damage of serotonergic axons and immunolocalization of Hsp27, Hsp72, and Hsp90 molecular chaperones after a single dose of MDMA administration in Dark Agouti rat: temporal, spatial, and cellular patterns. *Journal of Comparative Neurology* 497(2) 251-69 (2006) IF : 3.85
- 6./ **Adori C**, Péter Lőw, P., Moszkovkin, G., Bagdy, G., László, L., Kovács, G.G. Subcellular distribution of components of the ubiquitin-proteasome-system in non-diseased human and rat brain. *Journal of Histochemistry & Cytochemistry* 54(2) 263-7 (2006) IF: 2.20
- 7./ Kovacs GG., Ando RD., **Adori C**., Kirilly E., Benedek A., Palkovics M., Bagdy G. Single dose of MDMA causes extensive decrement of serotonergic fibre density without blockage of the fast axonal transport in Dark Agouti rat brain and spinal cord. *Neuropathology Applied Neurobiology* 33 193-203 (2007) IF : 2.86
- 8./ Vannay A., Fekete A., Langer A., Tóth T., Sziksz E., Vásárhelyi B., Szabó AJ., Losonczy G., **Adori C**., Gál A., Tulassay T., Szabó A. Dehydroepiandrosterone pretreatment alters the ischaemia/reperfusion-induced VEGF, IL-1 and IL-6 gene expression in acute renal failure. *Kidney & Blood Pressure Research* (2009) 32(3):175-84. IF: 1.09
- 9./ Sziksz E., Kozma GT., Pállinger E., Komlósi ZI., **Adori C**., Kovács L., Szebeni B., Rusai K., Losonczy G., Szabó A., Vannay A. Galectin-9 in allergic airway inflammation and hyper-responsiveness in mice. *International Archives of Allergy and Immunology* 2010;151(4):308-17. IF: 2.542
- 10./ Kitka T., Katai Z., Pap D., Molnar E., **Adori C**., Bagdy G. Small platform sleep deprivation selectively increases the average duration of rapid eye movement sleep episodes during sleep rebound. *Behavioural Brain Research* 2009 Dec 28;205(2):482-7. IF: 3.22
- 11./ **Adori C**., Zelena D., Tímár J., Gyarmati Z., Domokos A., Sobor M., Fürst Z., Makara G., Bagdy G. Intermittent prenatal MDMA exposure alters physiological but not mood related parameters in adult rat offspring.

Behavioural Brain Research (2010) Jan 20;206(2):299-309. IF: 3.39

12./ Andó RD., **Adori C.**, Kirilly E., Molnár E., Kovács GG., Ferrington L., Kelly PAT., Bagdy G. Acute SSRI-induced anxiogenic and brain metabolic effects are attenuated six months after initial MDMA-induced depletion.

Behavioural Brain Research (2010) Mar 5;207(2):280-9. IF: 3.39

13./ **Adori C.**, Andó RD., Ferrington LO, Szekeres M, Vas S, Kelly PT., Hunyady L, Bagdy G. Elevated BDNF protein level in cortex but not in hippocampus of MDMA-treated Dark Agouti rats: a potential link to the long-term recovery of serotonergic axons.

Neuroscience letters (2010) Jul 5;478(2):56-60. IF: 2.055

14./ **Adori C**, Lőw P, Andó RD, Gutknecht L, Pap D, Truszka F, Takács J, Kovács GG, Lesch KP, Bagdy G. Ultrastructural characterization of tryptophan hydroxylase 2-specific cortical serotonergic fibers and dorsal raphe neuronal cell bodies after MDMA treatment in rat.

Psychopharmacology (Berl) (2011) Feb;213(2-3):377-391. IF: 4.103

15./ **Adori C**, Ando RD, Szekeres M, Gutknecht L, Kovacs GG, Hunyady L, Lesch KP, Bagdy G. Recovery and aging of serotonergic fibers after single and intermittent MDMA treatments in Dark Agouti rat.

Journal of Comparative Neurology (2011) Aug 15;519(12):2353-78. IF: 3.718

16./ **Adori C**, Andó RD, Balázs T, Sőti C, Vas S, Palkovits M, Kovács GG, Bagdy G. Low ambient temperature reveals distinct mechanisms for MDMA-induced serotonergic toxicity and astroglial Hsp27 heat shock response in rat brain.

Neurochemistry International 2011 Oct;59(5):695-705. IF: 2.85

17./ Kitka T, **Adori C**, Katai Z, Vas S, Molnar E, Papp RS, Toth Z, Bagdy G. Association between the activation of MCH and orexin immunoreactive neurons and REM sleep architecture during REM rebound.

Neurochemistry International (2011) 2011 Oct;59(5):686-94. IF: 2.85

18./ Holm L, Hilke S, **Adori C**, Theodorsson E, Hökfelt T, Theodorsson A. Changes in galanin and GalR1 gene expression in discrete brain regions after transient occlusion of the middle cerebral artery in female rats.

Neuropeptides 2012 Feb;46(1):19-27. IF: 2.07

19./ Kátai Z, **Adori C**, Kitka T, Vas S, Kalmár L, Kostyalik D, Tóthfalusi L, Palkovits M, Bagdy G. Acute escitalopram treatment inhibits REM sleep rebound and activation of MCH-expressing neurons in the lateral hypothalamus after long term selective REM sleep deprivation.

Psychopharmacology (Berl) (2013) Aug;228(3):439-49. IF: 3.99

20./ Vas S, **Adori C**, Könczöl K, Kátai Z, Pap D, Papp RS, Bagdy G, Palkovits M, Tóth ZE. Nesfatin-1/NUCB2 as a Potential New Element of Sleep Regulation in Rats.

PLoS One. 2013;8(4):e59809. IF: 3.50

21./ Bergman P, **Adori C***, Vas S, Kai-Larsen Y, Sarkanen T, Cederlund A, Agerberth B, Julkunen I, Horvath B, Kostyalik D, Kalmár L, Bagdy G, Huutoniemi A, Partinen M, Hökfelt T Narcolepsy patients have antibodies that stain distinct cell populations in rat brain and influence sleep patterns.

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Proc Natl Acad Sci U S A. 2014 Sep 2;111(35):E3735-44. IF: 9.67

22./ Tamási V, Petschner P, **Adori C**, Kirilly E, Ando RD, Tothfalusi L, Juhasz G, Bagdy G. Transcriptional Evidence for the Role of Chronic Venlafaxine Treatment in Neurotrophic Signaling and Neuroplasticity Including also Glutamatergic- and Insulin-Mediated Neuronal Processes.

PLoS One. 2014 Nov 25;9(11):e113662. IF: 3.23

- 23./ **Adori C**, Glück L, Barde S, Yoshitake T, Kovacs GG, Mulder J, Magloczky Z, Havas L, Bölcskei K, Mitsios N, Uhlen M, Szolcsanyi J, Kehr J, Rönnback A, Schwartz T, Rehfeldt JF, Harkany T, Palkopvits M, Schulz S, Hökfelt T. Critical role of somatostatin receptor 2 in the vulnerability of the central noradrenergic system: new aspects on Alzheimer's disease
Acta Neuropathologica, 2015 Apr;129(4):541-63. IF: 10.76
- 24./ Feltelius N, Persson I, Ahlqvist-Rastad J, Andersson M, Arnheim-Dahlström L, Bergman P, Granath F, **Adori C**, Hökfelt T, Kühlmann-Berenzon S, Liljeström P, Maeurer M, Olsson T, Örtqvist Å, Salmonson T and Zethelius B. A coordinated cross-disciplinary research initiative to address an increase in incidence of narcolepsy following the 2009-2010 Pandemrix vaccination in Sweden.
Journal of Internal Medicine, 2015 Oct;278(4):335-53. IF: 6.06
- 25./ **Adori C**, Barde S, Bogdanovic N, Uhlen M, Resinscheid RR, Kovacs GG, Hökfelt T. Neuropeptide S- and Neuropeptide S receptor-expressing neuron populations in the human pons
Frontiers in Neuroanatomy, 2015; Sep 25;9:126. IF: 3.54
- 26./ Scheich B, Gaszner B, Kormos V, László K, **Adori C**, Borbély E, Hajna Z, Bölcskei K, Ábrahám I, Pintér E, Szolcsányi J, Helyes Z. Somatostatin receptor subtype 4 activation is involved in anxiety and depression-like behavior in mouse models
Neuropharmacology, 2016 Feb;101:204-15. IF: 5.11
- 27./ **Adori C**, Barde S, Vas S, Ebner K, Su J, Svensson, Mathé AA, Singewald N, Reinscheid RR, Uhlén M, Kultima K, Bagdy G, Hökfelt T. Exploring the role of Neuropeptide S in the regulation of arousal - a functional anatomical study
Brain Structure and Function, 2016 Sep;221(7):3521-46, IF: 5.62
- 28./ Petschner P, Juhasz G, Tamasi V, **Adori C**, Tothfalusi L, Hökfelt T, Bagdy G. Chronic venlafaxine treatment fails to alter the levels of galanin system transcripts in normal rats. *Neuropeptides*. 2016 Jun;57:65-70. IF: 2.64
- 29./ Ádori M, Pedersen GK, **Adori C**, Erikson E, Khoenkhoen S, Stark JM, Choi JH, Dosenovic P, Karlsson MCI, Beutler B, Karlsson Hedestam GB. Altered Marginal Zone B Cell Selection in the Absence of IκBNS
J Immunol. 2017 Dec 8 IF.: 4.86
- 30./ Zhang MD, Su J, **Adori C**, Cinquina V, Malenczyk K, Girach F, Peng C, Ernfors P, Löw P, Borgius L, Kiehn O, Watanabe M, Uhlén M, Mitsios N, Mulder J, Harkany T, Hökfelt T. Ca²⁺-binding protein NECAB2 facilitates inflammatory pain hypersensitivity.
J Clin Invest. 2018 Jun 12. IF: 13.25
- 32./ Petschner P, Balogh N, **Adori C**, Tamasi V, Kumar S, Juhasz G, Bagdy G. Downregulation of the vitamin D receptor regulated gene set in the hippocampus after MDMA treatment.
Front Pharmacol. 2018 Dec 3;9:1373. IF: 3.85
- 33./ Petschner P, Tamasi V, **Adori C**, Kirilly E, Ando RD, Tothfalusi L, Bagdy G. Gene expression analysis indicates reduced memory and cognitive functions in the hippocampus and increase in synaptic reorganization in the frontal cortex 3 weeks after MDMA administration in Dark Agouti rat
BMC Genomics 2018 Aug 2;19(1):580. IF: 3.5
- 34./ Zahola P, Hanics J, Pintér A, Máté Z, Gáspárdy A, Hevesi Z, Echevarria D, **Adori C**, Barde S, Töröcsik B, Erdélyi F, Szabó G, Wagner L, Kovacs GG, Hökfelt T, Harkany T, Alpár A. Secretagogin expression in the vertebrate brainstem with focus on the noradrenergic system and implications for Alzheimer's disease.
Brain Struct Funct. 2019 Jul;224(6):2061-2078. IF: 3.62

35./ Sjöstedt E, Zhong W, Fagerberg L, Karlsson M, Mitsios N, **Adori C**, Oksvold P, Edfors F, Limiszewska A, Hikmet F, Huang J, Du Y, Lin L, Dong Z, Yang L, Liu X, Jiang H, Xu X, Wang J, Yang H, Bolund L, Mardinoglu A, Zhang C, von Feilitzen K, Lindskog C, Pontén F, Luo Y, Hökfelt T, Uhlén M, Mulder J. An atlas of the protein-coding genes in the human, pig and mouse brain. *Science*. 2020 March 6;367(6482):eaay5947. IF: 47.7

36./ **Adori C***, Daraio T, Kuiper R, Barde S, Horvathova L, Yoshitake T, Ihnatko R, Valladolid-Acebes I, Vercruyse P, Wellendorf A M, Gramignoli R, Bozoky B, Kehr J, Theodorsson E, Cancelas J A, Mravec B, Jorns C, Ellis E, Mulder J, Uhlen M, Bark C, Hökfelt T. Disorganization and degeneration of liver sympathetic innervations in nonalcoholic fatty liver disease revealed by 3D imaging. *Science Advances*. 2021 Jul 21;7(30):eabg5733. IF: 14.96

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37./ Zhong W, Barde S, Mitsios N, **Adori C**, Oksvold P, Feilitzen KV, O'Leary L, Csiba L, Hortobágyi T, Szocsics P, Mechawar N, Maglóczy Z, Renner É, Palkovits M, Uhlén M, Mulder J, Hökfelt T. The neuropeptide landscape of human prefrontal cortex *Proc Natl Acad Sci U S A*. 2022 Aug 16;119(33):e2123146119. IF: 12.8

38./ Gilvesy A, Husen E, Magloczky Z, Mihaly O, Hortobagyi T, Kanatani S, Heinsen H, Renier N, Hökfelt T, Mulder J, Uhlen M, Kovacs GG, **Adori C***. Spatiotemporal characterization of cellular tau pathology in the human locus coeruleus - pericoerulear complex by three-dimensional imaging *Acta Neuropathologica* 2022 Oct;144(4):651-676. IF: 15.9

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39./ Vas S, Papp RS, Könczöl K, Bogathy E, Papp N, **Adori C**, Ocskay K, Durst M, Farkas I, Ferenczi S, Zelena D, Kovács K, Kató Z, Köles L, Bagdy G, Palkovits M, Tóth ZE. Prolactin-Releasing Peptide Inhibits Melanin-Concentrating Hormone Producing Neurons and Impacts Sleep-wake Pattern and Depression *J. Neuroscience*; in press. IF: 6.7

40./ Hankeova S, Van Hul N, Laznovsky J, Verboven E, Mangold K, Hensens N, **Adori C**, Verhoef E, Zikmund T, Dawit F, Kavkova M, Salplachta J, Sjöqvist M, Johansson BR., Hassan M, Fredriksson L, Baumgärtel K, Bryja V, Lendahl U, Jheon A, Alten F, Teär Fahnehjelm K, Fischler B, Kaiser, J Andersson ER. Sex differences and risk factors for bleeding in Alagille syndrome

EMBO Molecular Medicine; 2022 Dec 7;14(12):e15809. IF: 14.3

Number of all peer-reviewed papers: **40**; Cumulative impact factor of peer-reviewed papers: **254**;
Number of citations (Web of Science): **1016**; Hirsch index: **17** (2022 12).

FIRST AUTHOR POSTERS IN INTERNATIONAL CONFERENCES

Adori C, Kovács GG, Lőw P, László L: Studies on the components of ubiquitin-proteasome system in neurodegeneration caused by Alzheimer's and prion disease. *5th International Congress on Proteasome, Clermont-Ferrand, France, 2003*.

Adori C, Kovács GG, Lőw P, László L: Intracellular redistribution of components of ubiquitin-proteasome-system correlates with neuronal vulnerability - a study on immunolocalization of ubiquitin and proteasome; *59th Harden/EMBO Conference - The Ubiquitin Proteasome System in Health and Disease, Royal Agricultural College, Cirencester, UK; 6 - 10 September 2004*.

Adori C, Löw P, Andó RD, Gutknecht L, Papp D, Frank Z, Takács J, Lesch P, Kovács GG, Bagdy G: Ultrastructural alteration of cortical serotonergic fibers after MDMA (ecstasy) treatment in Dark Agouti rat; *IBRO-MITT Conference, Budapest, Hungary, 2009.*

Adori C, Löw P, Andó RD, Gutknecht L, Papp D, Frank Z, Takács J, Lesch P, Kovács GG, Bagdy G: Ultrastructural alteration of cortical serotonergic fibers after MDMA (ecstasy) examined with a new aTPH2 antibody; *ECNP Conference, Istanbul, Turkey, 2009.*

Adori C, R.D. Ando, Szekeres M, Hunyadi L, Kovacs GG, Bagdy G: Regeneration and aging of serotonergic fibers after single or repeated MDMA treatment; *Annual Meeting of Society for Neuroscience, Chicago IL, U.S., 2009.*

Adori C, Barde S, Vas S, Tóth Z, Köncöl K, Pap D, Bagdy G, Reinscheid RK, Hökfelt T: Increased mRNA expression and release of neuropeptide S after REM sleep deprivation in rat; *ECNP Conference for Young Scientists, Nice, France, 2012.*

Adori C, Barde S, Vas S, Tóth Z, Köncöl K, Pap D, Bagdy G, Reinscheid RK, Hökfelt T: Morphological studies on the distribution and expression of neuropeptide S and its receptor after REM sleep deprivation in rat; *CINP Annual Congress, Stockholm, Sweden, 2012.*

Adori C, Barde S, Kovacs GG, Bogdanovic N, Palkovits M, Hökfelt T: Detailed anatomical mapping of 'neuropeptide S' expressing cell populations in the human brainstem; *Annual Congress of the European College of Neuropsychopharmacology (ECNP), Barcelona, October, 2013.*

Adori C: Global, early, selective and progressive noradrenergic axonal degeneration in somatostatin-2 receptor but not in somatostatin 1 receptor knockout mice. *Annual Meeting of Society for Neuroscience (SfN). San Diego California, November, 2013.*

Adori C, Barde S, Kovacs GG, Bogdanovic N, Palkovits M, Hökfelt T: Detailed anatomical mapping of 'neuropeptide S' and 'neuropeptide S receptor' expressing cell populations in the human brainstem; *Annual Congress of Scandinavian Society of Physiology (SPS), Stockholm, August, 2014.*

Adori C, Renier N, Kovacs G, Magloczky Z, Kleiwer A, Kanatani S, Schulz S, Tessier-Lavigne M, Bark C, Uhlen M, Hökfelt T: Three-dimensional immune-imaging of rodent and human brains in normal and pathological conditions with the newly developed visualization technique iDISCO+; *Monitoring Molecules in Neuroscience, Gothenburg, Sweden, June, 2016.*

Adori C, Kovacs GG, Kyrö L, Uhlen M, Hökfelt T: High-resolution 3D immuno-imaging of tau and amyloid inclusions in the human brainstem and neocortex by light-sheet microscopy; *Alzheimer's disease and other proteinopathies – early detection and drug targets, international symposium, Karolinska Institutet, Dec 4, 2017, Stockholm*

Adori C, Kovacs GG, Uhlen M, Hökfelt T: High resolution 3D immuno-imaging of hyperphosphorylated tau in the human locus coeruleus region and beta-amyloid in the neocortex applying light sheet microscopy; *International Conference on Molecular Neurodegeneration, June, 2018, Stockholm*

Adori C: 3D imaging reveals gradual degeneration of liver sympathetic nerves in human and experimental non-alcoholic fatty liver disease *Annual Meeting of Society for Neuroscience (SfN). Chicago, November, 2021.*

LECTURES IN INTERNATIONAL CONFERENCES

Adori C, Löw P, László L: Studies on proteasomal ATPases in neurodegeneration caused by prion and Alzheimer's disease; *International Meeting on Protein Inclusions in Neurodegenerative Diseases, Hortobágy-Máta, Hungary, 22-25th of May, 2003.*

Adori C, Löw P, László L: Localisation of components of the ubiquitin-proteasome-system in Creutzfeldt-Jakob and Alzheimer's disease; *5th Conference of the Hungarian Society of Neuropathology and 4th Joint Meeting of Hungarian-German Neuropathologists, Budapest, Hungary; 2004.*

Adori C: Immunolocalization of the components of ubiquitin-proteasome-system (UPS) in Alzheimer and Creutzfeldt-Jakob disease; *BrainNet Europe International Conference, San Servolo Island, Venice, Italy; June, 2006*

Adori C, Kirilly E, Bagdy Gy: Axonal damage and recovery in the CNS: lessons from the effects of MDMA (Ecstasy); *International Conference of the Hungaria Pharmacology Society, Budapest, Hungary; 24 September, 2009.*

Adori C, Barde S, Vas S, Tóth Z, Köncöl K, Pap D, Bagdy G, Reinscheid RK, Hökfelt T: Increased mRNA expression and putative release of neuropeptide S after REM sleep deprivation in rat; *Annual Congress of the European College of Neuropsychopharmacology (ECNP), Vienna, 12 October, 2012.*

Adori C, Bergman P, Hökfelt T: Immunohistochemical detection of autoantibodies using rodent brains as an array; *First Nordic Conference on Narcolepsy, Helsinki, Finland, 11 February 2013.*

Adori C: Analysis of sera from narcoleptic patients: autoantibodies stain cell population in rat brain and influence sleep patterns; *5th European Narcolepsy Day, Copenhagen, Denmark, 15th March, 2014.*

Adori C, Barde S, Vas S, Pap D, Bagdy G, Reinscheid RK, Hökfelt T: Increased mRNA expression and putative release of neuropeptide S after REM sleep deprivation in rat; *Annual Congress of Scandinavian Society of Physiology (SPS), Stockholm, 24 August, 2014.*

Adori C: Screening for peptide-reactive IgGs in sleep disorders with special attention to narcolepsy; *Regulatory Peptides, Rouen, France, 14th July, 2016.*

Adori C: Large-scale immuno-visualization of biological samples; *Congress of the Hungarian Societies of Pharmacology, Anatomy, Physiology and Microcirculation, Pecs, Hungary, 4ht June, 2016.*

Adori C: Technically challenging applications of the iDISCO+ method in rodent and human tissue; Tissue clearing and light sheet microscopy – *international workshop, 5-7 September 2017, Stockholm*

Adori C: iDISCO volume immunostaining on human brain tissue: technical considerations from fixation to image analysis; *Second User Group Meeting on Light Sheet Microscopy, 20-22 March, 2018, Essen, Germany.*

BOOK CHAPTERS

Bagdy Gy. (Editor).: Amit az ecstasyról tudni kell (What we should know about Ecstasy). Akadémiai Kiadó, Budapest, 2006. (Hungarian)

Tomas Hökfelt, Zhi-Qing David Xu, Tiejun Shi, **Csaba Adori**, Kang Zheng, Swapnali Barde, and Mingdong Zhang: Neuropeptides - Basic Concepts; in: *Neuropeptides in Neuroprotection and Neuroregeneration* edited by Fred Nyberg; published by Taylor and Francis Group, Oxford, UK, 2012.