

Book chapters

Kehr J, Yoshitake T (2017). Derivatization Chemistries for Improved Detection of Monoamine Neurotransmitters and their Metabolites in Microdialysis Samples by Liquid Chromatography with Fluorescence Detection and Mass Spectrometry. In: Compendium of In-Vivo Monitoring in Real-time Molecular Neuroscience, Vol. 2, Microdialysis and Sensing of Neural Tissues Eds. GS Wilson, AC Michael. World Scientific Publishing, Singapore, pp. 193-216.

Kehr J, Yoshitake T (2013). Determination of Histamine in Microdialysis Samples from the Rodent Brain by Column Liquid Chromatography. In: Microdialysis Techniques in Neuroscience, Neuromethods, vol 75. Eds. G Di Giovanni, V Di Matteo. Springer Protocols, Humana Press, New York, USA, pp. 299-320.

Yoshitake T, Yoshitake S, Ijiri S, Koch E, Nöldner M, Kehr J (2011). Ginkgo biloba leaf extract (EGb 761[®]) and its specific acylated flavonol constituents increase dopamine and acetylcholine levels in the rat medial prefrontal cortex: Possible implications for cognitive enhancing properties of the ginkgo extract. In: Handbook on Flavonoids: Dietary Sources, Properties and Health Benefits. Eds. K Yamane, Y Kato, Nova Science Publishers, Inc., NY, 2012, USA.

Kehr J (2007). New methodological aspects of microdialysis. In: Handbook of microdialysis: Methods, Applications and Perspectives. Eds. BHC Westerink, T Cremers. Elsevier, The Netherlands. pp. 111-129.

Kehr J, Yoshitake T (2006). Monitoring brain chemical signals by microdialysis. In: Encyclopedia of Sensors, Vol. 6. Eds. CA Grimes, EC Dickey, MV Pishko. American Scientific Publishers, Valencia, California, USA. pp. 287-312.

Kehr J, Ögren SO, Yoshitake T (2004). Modulation of neurotransmitter release and metabolism. In: St. John's Wort and its Active Principles in Depression and Anxiety. Ed. WE Müller. Birhauser Verlag, Basel, Switzerland. pp. 47-58.

Kehr J (1999). Monitoring chemistry of brain microenvironment: biosensors, microdialysis and related techniques. Chapter 41. In: Modern techniques in neuroscience research. Eds. U Windhorst, H Johansson. Springer-Verlag, Heidelberg, Germany. pp. 1149-1198.

Kehr J (1998). Microdialysis: An in vivo method for the analysis of body fluids. In: HPLC in enzymatic analysis, 2nd Edition. Ed. EF Rossomando. J. Wiley & Sons, NY, USA, p. 115-136.

Selected top publications

Kehr J, Wang F-H, Ichinose F, Yoshitake S, Farkas B, Kiss B, Adham N (2022). Preferential effects of cariprazine on counteracting the disruption of social interaction and decrease in extracellular dopamine levels induced by the dopamine D3 receptor agonist, PD-128907 in rats: Implications for the treatment of negative and depressive symptoms of psychiatric disorders. **Front Psychiatry**, 12: 801641.

Lumsden EW, Troppoli TA, Myers SJ, Zanos P, Aracava Y, Kehr J, Lovett J, Kim S, Wang FH, Schmidt S, Jenne CE, Yuan P, Morris PJ, Thomas CJ, Zarate CA Jr, Moaddel R, Traynelis SF, Pereira EFR, Thompson SM, Albuquerque EX, Gould TD (2019). Antidepressant-relevant concentrations of the ketamine metabolite (2R,6R)-hydroxynorketamine do not block NMDA receptor function. **Proc Natl Acad Sci U S A**, 116:5160-5169.

Laguna A, Schintu N, Nobre A, Alvarsson A, Volakakis N, Jacobsen JK, Gómez-Galán M, Sopova E, Joodmardi E, Yoshitake T, Deng Q, Kehr J, Ericson J, Svenningsson P, Shupliakov O, Perlmann T (2015). Dopaminergic control of autophagic-lysosomal function implicates Lmx1b in Parkinson's disease. **Nature Neurosci**, 18:826-835.

Kadkhodaei B, Alvarsson A, Schintu N, Ramsköld D, Volakakis N, Joodmardi E, Yoshitake T, Kehr J, Decressac M, Björklund A, Sandberg R, Svenningsson P, Perlmann T (2013). Transcription factor Nurr1 maintains fiber integrity and nuclear-encoded mitochondrial gene expression in dopamine neurons. **Proc Natl Acad Sci USA**, 110:2360-2365.

Hascup KN, Hascup ER, Stephens ML, Glaser PEA, Yoshitake T, Mathé AA, Gerhardt GA, Kehr J (2011). Resting Glutamate Levels and Rapid Glutamate Transients in the Prefrontal Cortex of the Flinders Sensitive Line Rat - A Genetic Rodent Model of Depression. **Neuropsychopharmacology**, 36:1769-1777.

Kehr J, Yoshitake T, Wang FH, Razani H, Gimenez-Llort L, Jansson A, Yamaguchi M, Ögren SO (2002). Galanin is a potent in vivo modulator of mesencephalic serotonergic neurotransmission. **Neuropsychopharmacology**, 27:341-356.

Bonito-Oliva A, Pignatelli M, Spigolon G, Yoshitake T, Seiler S, Longo F, Piccinin S, Kehr J, Mercuri NB, Nisticò R, Fisone G (2014). Cognitive Impairment and Dentate Gyrus Synaptic Dysfunction in Experimental Parkinsonism. **Biol Psychiatry**, 75:701-710.

Yoshitake T, Wang FH, Kuteeva E, Holmberg K, Yamaguchi M, Crawley JN, Steiner R, Bartfai T, Ögren SO, Hökfelt T, Kehr J (2004). Enhanced hippocampal noradrenaline and serotonin release in galanin-overexpressing mice following repeated forced swimming test. **Proc Natl Acad Sci USA**, 101:354-359.

Kehr J, Yoshitake T (2013). Monitoring molecules in neuroscience: historical overview and current advancements. **Frontiers in Bioscience (Elite Ed): Neurobiology of sub-second dopamine signaling**, E5:947-954.

Hascup ER, Hascup KN, Pomerleau F, Huettl P, Hajos-Korcsok E, Kehr J, Gerhardt GA (2012). An allosteric modulator of metabotropic glutamate receptors (mGlu₂), (+)-TFMPIP, inhibits restraint stress-induced phasic glutamate release in rat prefrontal cortex. *J Neurochem*, 122:619-27.

Kehr J, Ichinose F, Yoshitake S, Gojny M, T Sievertsson T, Nyberg F, Yoshitake T (2011). Mephedrone, compared with MDMA (ecstasy) and amphetamine, rapidly increases both dopamine and serotonin levels in nucleus accumbens of awake rats. *Br J Pharmacol*, 164:1949-1958.

List of publications (chronological)

Pain S, Nadal-Gratacós N, De Macedo M, Lardeux V, Mata S, Puigseslloses P, Wang FH, Källsten L, Pubill D, Berzosa X, Kehr J, Camarasa J, Escubedo E, López-Arnau R, Thiriet N, Solinas M (2026). Neurochemical and Behavioral Evidence of High Abuse Liability of 3F-NEB, a Novel Synthetic Cathinone. *Eur J Pharmacol*, **178570**, doi: 10.1016/j.ejphar.2026.178570.

Nadal-Gratacós N, Puigseslloses P, Guzmán L, Weiss N, Pottier E, Riera-Colomer C, Lardeux V, Thiriet N, Wang FH, Källsten L, Pérez-Esteban I, Ketsela G, Margall J, Berzosa X, Pubill D, Rodríguez-Arias M, Ettcheto M, Kehr J, Stove C, Solinas M, Sitte HH, Escubedo E, López-Arnau R (2025). The psychedelic phenethylamine 25C-NBF, a selective 5-HT_{2A} agonist, shows psychoplastogenic properties and rapid antidepressant effects in male rodents. *Mol Psychiatry*, doi: 10.1038/s41380-025-03341-1.

Nadal-Gratacós N, Mata S, Puigseslloses P, De Macedo M, Lardeux V, Pain S, Wang FH, Källsten L, Pubill D, Berzosa X, Kehr J, Solinas M, Camarasa J, Escubedo E, López-Arnau R (2025). Unveiling the potential abuse liability of α -D2PV: A novel α -carbon phenyl-substituted synthetic cathinone. *Neuropharmacology*, **272**, 110425.

Carbonell-Roig J, Aaltonen A, Wilson K, Molinari M, Cartocci V, McGuirt A, Mosharov E, Kehr J, Lieberman OJ, Sulzer D, Borgkvist A, Santini E (2024). Dysregulated acetylcholine-mediated dopamine neurotransmission in the eIF4E Tg mouse model of autism spectrum disorders. *Cell Rep*, **43**, 114997.

He Y, Kaya I, Shariatgorji R, Lundkvist J, Wahlberg LU, Nilsson A, Mamula D, Kehr J, Zareba-Paslawska J, Biverstål H, Chergui K, Zhang X, Andren PE, Svenningsson P (2023). Prosaposin maintains lipid homeostasis in dopamine neurons and counteracts experimental parkinsonism in rodents. *Nat Commun*, **14**, 5804.

Tarnawski L, Shavva VS, Kort EJ, Zhuge Z, Nilsson I, Gallina AL, Martínez-Enguita D, Heller Sahlgren B, Weiland M, Caravaca AS, Schmidt S, Chen P, Abbas K, Wang FH, Ahmed O, Eberhardson M, Färnert A, Weitzberg E, Gustafsson M, Kehr J, Malin SG, Hult H, Carlström M, Jovinge S, Olofsson PS (2023). Cholinergic regulation of vascular endothelial function by human ChAT+ T cells. *Proc Natl Acad Sci U S A*, **120**, e2212476120.

Flunkert S, Hutter-Paier B, Sun Y, Kehr J (2022). Editorial: Neuronopathic lysosomal storage diseases - specific neuronal characteristics and therapeutic approaches. *Front Mol Neurosci*, **15**, 1078804.

Alekseenko Z, Dias JM, Adler AF, Kozhevnikova M, van Lunteren JA, Nolbrant S, Jeggari A, Vasylovska S, Yoshitake T, Kehr J, Carlén M, Alexeyenko A, Parmar M, Ericson J (2022). Robust derivation of transplantable dopamine neurons from human pluripotent stem cells by timed retinoic acid delivery. *Nat Commun*, **13**, 3046.

Kehr J, Wang F-H, Ichinose F, Yoshitake S, Farkas B, Kiss B, Adham N (2022). Preferential effects of cariprazine on counteracting the disruption of social interaction and decrease in extracellular dopamine levels induced by the dopamine D₃ receptor agonist, PD-128907 in rats: Implications for the treatment of negative and depressive symptoms of psychiatric disorders. *Front Psychiatry*, **12**, 801641.

Adori C, Daraio T, Kuiper R, Barde S, Horvathova L, Yoshitake T, Ihnatko R, Valladolid-Acebes I, Vercruysee P, Wellendorf AM, Gramignoli R, Bozoky B, Kehr J, Theodorsson E, Cancelas JA, Mravec B, Jorns C, Ellis E, Mulder J, Uhlén M, Bark C, Hökfelt T, (2021). Disorganization and degeneration of liver sympathetic innervations in nonalcoholic fatty liver disease revealed by 3D imaging. *Sci Adv*, **7**, eabg5733.

Dallérac G, Li X, Lecouflet P, Morisot N, Sacchi S, Asselot R, Pham TH, Potier B, Watson DJG, Schmidt S, Levasseur G, Fossat P, Besedin A, Rivet JM, Coyle JT, Collo G, Pollegioni L, Kehr J, Galante M, Fone KC, Gardier AM, Freret T, Contarino A, Millan MJ, Mothet JP (2021). Dopaminergic neuromodulation of prefrontal cortex activity requires the NMDA receptor coagonist d-serine. *Proc Natl Acad Sci U S A*, **118**, e2023750118.

Kambe Y, Yamauchi Y, Thanh Nguyen T, Thi Nguyen T, Ago Y, Shintani N, Hashimoto H, Yoshitake S, Yoshitake T, Kehr J, Kawamura N, Katsuura G, Kurihara T, Miyata A (2021). The pivotal role of pituitary adenylate cyclase-activating polypeptide for lactate production and secretion in astrocytes during fear memory. *Pharmacol Rep*, **73**, 1109-1121.

Watanabe H, Nosova O, Sarkisyan D, Andersen MS, Zhang M, Rorick-Kehn L, Clausen F, Gawel K, Kehr J, Hallberg M, Schouenborg J, Marklund N, Bakalkin G (2020). Ipsilesional versus contralesional postural deficits induced by unilateral brain trauma: a side reversal by opioid mechanism. *Brain Commun*, **2**, fcaa208.

Mkrtchian S, Kählin J, Gómez-Galán M, Ebberly A, Yoshitake T, Schmidt S, Kehr J, Hildenborg M, Jonsson Fagerlund M, Erlandsson Harris H, Eriksson LI (2020). The impact of damage-associated molecular patterns on the neurotransmitter release and gene expression in the ex vivo rat carotid body. *Exp Physiol*, **105**, 1634-1647.

Lietzau G, Magni G, Kehr J, Yoshitake T, Candeias E, Duarte AI, Pettersson H, Skogsberg J, Abbracchio MP, Klein T, Nyström T, Ceruti S, Darsalia V, Patrone C (2020). Dipeptidyl peptidase-4 inhibitors and sulfonylureas prevent the progressive impairment of the nigrostriatal dopaminergic system induced by diabetes during aging. *Neurobiol Aging*, **89**, 12-23.

- Schiffer V, Santiago-Mujika E, Flunkert S, Schmidt S, Farcher M, Loeffler T, Schilcher I, Posch M, Neddens J, Sun Y, Kehr J, Hutter-Paier B (2020). Characterization of the visceral and neuronal phenotype of 4L/PS-NA mice modeling Gaucher disease. *PLoS One*, **15**, e0227077.
- Lumsden EW, Troppoli TA, Myers SJ, Zanos P, Aracava Y, Kehr J, Lovett J, Kim S, Wang FH, Schmidt S, Jenne CE, Yuan P, Morris PJ, Thomas CJ, Zarate CA Jr, Moaddel R, Traynelis SF, Pereira EFR, Thompson SM, Albuquerque EX, Gould TD (2019). Antidepressant-relevant concentrations of the ketamine metabolite (2R,6R)-hydroxynorketamine do not block NMDA receptor function. *Proc Natl Acad Sci U S A*, **116**, 5160-5169.
- Donello JE, Banerjee P, Li YX, Guo YX, Yoshitake T, Zhang XL, Miry O, Kehr J, Stanton PK, Gross AL, Burgdorf JS, Kroes RA, Moskal JR (2019). Positive N-Methyl-D-Aspartate Receptor Modulation by Rapastinel Promotes Rapid and Sustained Antidepressant-Like Effects. *Int J Neuropsychopharmacol*, **22**, 247-259.
- Hökfelt T, Barde S, Xu ZD, Kuteeva E, Rüegg J, Le Maitre E, Risling M, Kehr J, Ihnatko R, Theodorsson E, Palkovits M, Deakin W, Bagdy G, Juhász G, Prud'homme HJ, Mechawar N, Diaz-Heijt R, Ögren SO (2018). Neuropeptide and Small Transmitter Coexistence: Fundamental Studies and Relevance to Mental Illness. *Front Neural Circuits*, **12**, 106. Review.
- Kehr J, Yoshitake T, Ichinose F, Yoshitake S, Kiss B, Gyertyán I, Adham N (2018). Effects of cariprazine on extracellular levels of glutamate, GABA, dopamine, noradrenaline and serotonin in the medial prefrontal cortex in the rat phencyclidine model of schizophrenia studied by microdialysis and simultaneous recordings of locomotor activity. *Psychopharmacology (Berl)*, **235**, 1593-1607.
- Zhang X, Mantas I, Alvarsson A, Yoshitake T, Shariatgorji M, Pereira M, Nilsson A, Kehr J, Andrén PE, Millan MJ, Chergui K, Svenningsson P (2018). Striatal Tyrosine Hydroxylase Is Stimulated via TAAR1 by 3-Iodothyronamine, But Not by Tyramine or β -Phenylethylamine. *Front Pharmacol*, **9**, 166.
- Rivera A, Gago B, Suárez-Boomgaard D, Yoshitake T, Roales-Buján R, Valderrama-Carvajal A, Bilbao A, Medina-Luque J, Díaz-Cabiale Z, Craenenbroeck KV, Borroto-Escuela DO, Kehr J, Rodríguez de Fonseca F, Santín L, de la Calle A, Fuxe K (2017). Dopamine D4 receptor stimulation prevents nigrostriatal dopamine pathway activation by morphine: relevance for drug addiction. *Addict Biol*, **22**, 1232-1245.
- Sors A, Krazem A, Kehr J, Yoshitake T, Dominguez G, Henkous N, Letondor C, Mocaer E, Béracochéa DJ (2016). The Synergistic Enhancing-Memory Effect of Donepezil and S 38093 (a Histamine H3 Antagonist) Is Mediated by Increased Neural Activity in the Septo-hippocampal Circuitry in Middle-Aged Mice. *Front Pharmacol*, **7**, 492.
- Tajeddinn W, Persson T, Calvo-Garrido J, Seed Ahmed M, Maioli S, Vijayaraghavan S, Kazokoglu MS, Parrado-Fernández C, Yoshitake T, Kehr J, Francis P, Winblad B, Höglund K, Cedazo-Minguez A, Aarsland D (2016). Pharmacological Modulations of the Serotonergic System in a Cell-Model of Familial Alzheimer's Disease. *J Alzheimers Dis*, **53**, 349-361.
- Tajeddinn W, Fereshtehnejad SM, Seed Ahmed M, Yoshitake T, Kehr J, Shahnaz T, Milovanovic M, Behbahani H, Höglund K, Winblad B, Cedazo-Minguez A, Jelic V, Järemo P, Aarsland D (2016). Association of Platelet Serotonin Levels in Alzheimer's Disease with Clinical and Cerebrospinal Fluid Markers. *J Alzheimers Dis*, **53**, 621-630.
- Laguna A, Schintu N, Nobre A, Alvarsson A, Volakakis N, Jacobsen JK, Gómez-Galán M, Sopova E, Joodmardi E, Yoshitake T, Deng Q, Kehr J, Ericson J, Svenningsson P, Shupliakov O, Perlmann T (2015). Dopaminergic control of autophagic-lysosomal function implicates Lmx1b in Parkinson's disease. *Nat Neurosci*, **18**, 826-835.
- Tajeddinn W, Persson T, Maioli S, Calvo-Garrido J, Parrado-Fernandez C, Yoshitake T, Kehr J, Francis P, Winblad B, Höglund K, Cedazo-Minguez A, Aarsland D (2015). 5-HT1B and other related serotonergic proteins are altered in APPswe mutation. *Neurosci Lett*, **594**, 137-143.
- Ádori C, Glück L, Barde S, Yoshitake T, Kovacs GG, Mulder J, Maglóczy Z, Havas L, Bölskei K, Mitsios N, Uhlén M, Szolcsányi J, Kehr J, Rönnbäck A, Schwartz T, Rehfeld JF, Harkany T, Palkovits M, Schulz S, Hökfelt T (2015). Critical role of somatostatin receptor 2 in the vulnerability of the central noradrenergic system: new aspects on Alzheimer's disease. *Acta Neuropathol*, **129**, 541-563.
- Kawa L, Arborelius U, Yoshitake T, Kehr J, Hökfelt T, Risling M, Agoston DV (2015). Neurotransmitter systems in a mild blast traumatic brain injury model: catecholamines and serotonin. *J Neurotrauma*, **32**, 1190-1199.
- Panman L, Papathanou M, Laguna A, Oosterveen T, Volakakis N, Acampora D, Kurtsdotter I, Yoshitake T, Kehr J, Joodmardi E, Muhr J, Simeone A, Ericson J, Perlmann T (2014). Sox6 and Otx2 control the specification of substantia nigra and ventral tegmental area dopamine neurons. *Cell Rep*, **8**, 1018-1025.
- Kählin J, Mkrtchian S, Ebberlyd A, Hammarstedt-Nordenvall L, Nordlander B, Yoshitake T, Kehr J, Prabhakar N, Poellinger L, Fagerlund MJ, Eriksson LI (2014). The human carotid body releases acetylcholine, ATP and cytokines during hypoxia. *Exp Physiol*, **99**, 1089-1098.
- Yoshitake S, Kuteeva E, Hökfelt T, Mennicken F, Theodorsson E, Yamaguchi M, Kehr J, Yoshitake T (2014). Correlation between the effects of local and intracerebroventricular infusions of galanin on 5-HT release studied by microdialysis, and distribution of galanin and galanin receptors in prefrontal cortex, ventral hippocampus, amygdala, hypothalamus, and striatum of awake rats. *Synapse*, **68**, 179-193.
- Watanabe H, Fitting S, Hussain MZ, Kononenko O, Iatsyshyna A, Yoshitake T, Kehr J, Alkass K, Druid H, Wadensten H, Andren PE, Nylander I, Wedell DH, Krishtal O, Hauser KF, Nyberg F, Karpyak VM, Yakovleva T, Bakalkin G (2015). Asymmetry of the endogenous opioid system in the human anterior cingulate: a putative molecular basis for lateralization of emotions and pain. *Cereb Cortex*, **25**, 97-108.
- Kehr J, Yoshitake T (2013). Monitoring molecules in neuroscience: historical overview and current advancements. *Frontiers in Bioscience (Elite Ed): Neurobiology of sub-second dopamine signaling*, **E5**, 947-954.

- Terkelsen AJ, Gierthmühlen J, Petersen LJ, Knudsen L, Christensen NJ, Kehr J, Yoshitake T, Madsen CS, Wasner G, Baron R, Jensen TS (2013). Cutaneous noradrenaline measured by microdialysis in complex regional pain syndrome during whole-body cooling and heating. *Exp Neurol*, **247**, 456-465.
- Bonito-Oliva A, Pignatelli M, Spigolon G, Yoshitake T, Seiler S, Longo F, Piccinin S, Kehr J, Mercuri NB, Nisticò R, Fisone G (2014). Cognitive Impairment and Dentate Gyrus Synaptic Dysfunction in Experimental Parkinsonism. *Biol Psychiatry*, **75**, 701-710.
- Kadkhodaei B, Alvarsson A, Schintu N, Ramsköld D, Volakakis N, Joodmardi E, Yoshitake T, Kehr J, Decressac M, Björklund A, Sandberg R, Svenningsson P, Perlmann T (2013). Transcription factor Nurr1 maintains fiber integrity and nuclear-encoded mitochondrial gene expression in dopamine neurons. *Proc Natl Acad Sci USA*, **110**, 2360-2365.
- Yoshitake S, Ijiri S, Kehr J, Yoshitake T (2013). Inhibition of histamine release by local and intracerebroventricular infusion of galanin in hypothalamus, hippocampus and prefrontal cortex of awake rat: A microdialysis study. *Neurosci Lett*, **534**, 58-63.
- Yoshitake S, Ijiri S, Kehr J, Yoshitake T (2013). Concurrent modulation of extracellular levels of noradrenaline and cAMP during stress and by anxiogenic- or anxiolytic-like neuropeptides in the prefrontal cortex of awake rats. *Neurochem Int*, **62**, 314-323.
- Eriksson TM, Alvarsson A, Stan TL, Zhang X, Hascup KN, Hascup ER, Kehr J, Gerhardt GA, Warner-Schmidt J, Arango-Lievano M, Kapliitt MG, Ogren SO, Greengard P, Svenningsson P (2013). Bidirectional regulation of emotional memory by 5-HT(1B) receptors involves hippocampal p11. *Mol Psychiatry*, **18**, 1096-1105.
- Kehr J, Yoshitake S, Ijiri S, Koch E, Nöldner M, Yoshitake T (2012). Ginkgo biloba leaf extract (EGb 761®) and its specific acylated flavonol constituents increase dopamine and acetylcholine levels in the rat medial prefrontal cortex: possible implications for the cognitive enhancing properties of EGb 761®. *Int Psychogeriatr*, **24**, Suppl 1, S25-34.
- Hascup ER, Hascup KN, Pomerleau F, Huettl P, Hajos-Korcsok E, Kehr J, Gerhardt GA. (2012). An allosteric modulator of metabotropic glutamate receptors (mGluR₂), (+)-TFMPIP, inhibits restraint stress-induced phasic glutamate release in rat prefrontal cortex. *J Neurochem*, **122**, 619-27.
- Marcellino D, Kehr J, Agnati LF, Fuxe K (2012). Increased affinity of dopamine for D(2) -like versus D(1) -like receptors. Relevance for volume transmission in interpreting PET findings. *Synapse*, **66**, 196-203.
- Yoshitake T, Ijiri S, Yoshitake S, Todoroki K, Yoshida H, Kehr J, Nohta H, Yamaguchi M (2011). Determination of Histamine in Microdialysis Samples from Guinea Pig Skin by High-Performance Liquid Chromatography with Fluorescence Detection. *Skin Pharmacol Physiol*, **25**, 65-72.
- Yoshitake T, Yoshitake S, Savage S, Elvander-Tottie E, Ogren SO, Kehr J (2011). Galanin differentially regulates acetylcholine release in ventral and dorsal hippocampus: a microdialysis study in awake rat. *Neuroscience*, **197**, 172-180.
- Savage S, Kehr J, Olson L, Mattsson A (2011). Impaired social interaction and enhanced sensitivity to phencyclidine-induced deficits in novel object recognition in rats with cortical cholinergic denervation. *Neuroscience*, **195**, 60-69.
- Machaczka M, Arce MP, Rucinska M, Yoshitake T, Kehr J, Jurczak W, Skotnicki AB, Månsson JE, Tyłki-Szymanska A, Svenningsson P (2012). A twelve-year follow-up study on a case of early-onset parkinsonism preceding clinical manifestation of Gaucher disease. *JIMD Rep*, **3**, 53-57.
- Kehr J, Ichinose F, Yoshitake S, Goiny M, Sievertsson T, Nyberg F, Yoshitake T (2011). Mephedrone, compared with MDMA (ecstasy) and amphetamine, rapidly increases both dopamine and serotonin levels in nucleus accumbens of awake rats. *Br J Pharmacol*, **164**, 1949-1958.
- Hascup KN, Hascup ER, Stephens ML, Glaser PEA, Yoshitake T, Mathé AA, Gerhardt GA, Kehr J (2011). Resting Glutamate Levels and Rapid Glutamate Transients in the Prefrontal Cortex of the Flinders Sensitive Line Rat—A Genetic Rodent Model of Depression. *Neuropsychopharmacology*, **36**, 1769-1777.
- Wang FH, Kim DK, Yoshitake T, Johansson SM, Bjelke B, Muhammed M, Kehr J (2011). Diffusion and clearance of superparamagnetic iron oxide nanoparticles infused into the rat striatum studied by MRI and histochemical techniques. *Nanotechnology*, **22**, 015103 (9 pp).
- Nikisch G, Baumann P, Oneda B, Kiessling B, Weisser H, Mathé AA, Yoshitake T, Kehr J, Wiedemann G, Eap CB (2011). Cytochrome P450 and ABCB1 genetics: association with quetiapine and norquetiapine plasma and cerebrospinal fluid concentrations and with clinical response in patients suffering from schizophrenia. A pilot study. *J Psychopharmacol*, **25**, 896-907.
- Marcellino D, Suárez-Boomgaard D, Sánchez-Reina MD, Aguirre JA, Yoshitake T, Yoshitake S, Hagman B, Kehr J, Agnati LF, Fuxe K, Rivera A (2010). On the role of P2X(7) receptors in dopamine nerve cell degeneration in a rat model of Parkinson's disease: studies with the P2X(7) receptor antagonist A-438079. *J Neural Transm*, **117**, 681-687.
- Kehr J, Hu XJ, Yoshitake T, Wang FH, Osborne P, Stenfors C, Ögren SO (2010). The selective 5-HT1A receptor antagonist NAD-299 increases acetylcholine release but not extracellular glutamate levels in the frontal cortex and hippocampus of awake rat. *Eur Neuropsychopharmacology*, **20**, 487-500.
- Ross JM, Öberg J, Brené S, Coppotelli G, Terzioglu M, Pernold K, Goiny M, Sitnikov R, Kehr J, Trifunovic A, Larsson NG, Hoffer BJ, Olson L (2010). High brain lactate is a hallmark of aging and caused by a shift in the lactate dehydrogenase A/B ratio. *Proc Natl Acad Sci U S A*, **107**, 20087-20092.

- Sun S, Yang Y, Liu F, Fan J, Kehr J, Sun L, Peng X (2010). ECL performance of ruthenium tris-bipyridyl complexes covalently linked with phenothiazine through different bridge. *Dalton Trans*, **39**, 8626-8630.
- Nikisch G, Baumann P, Wiedemann G, Kiessling B, Weisser H, Hertel A, Yoshitake T, Kehr J, Mathé AA (2010). Quetiapine and norquetiapine in plasma and cerebrospinal fluid of schizophrenic patients treated with quetiapine: correlations to clinical outcome and HVA, 5-HIAA, and MHPG in CSF. *J Clin Psychopharmacol*, **30**, 496-503.
- Nikisch G, Baumann P, Kießling B, Reinert M, Wiedemann G, Kehr J, Mathé AA, Piel M, Roesch F, Weisser H, Schneider P, Hertel A (2010). Relationship between dopamine D(2) receptor occupancy, clinical response, and drug and monoamine metabolites levels in plasma and cerebrospinal fluid. A pilot study in patients suffering from first-episode schizophrenia treated with quetiapine. *J Psychiatr Res*, **44**, 754-759.
- Yoshitake T, Yoshitake S, Kehr J (2010). Ginkgo biloba extract EGb 761 and its main constituents flavonoids and ginkgolides increase extracellular dopamine levels in the rat prefrontal cortex. *Br J Pharmacol*, **159**, 659-668.
- Galter D, Pernold K, Yoshitake T, Lindqvist E, Kehr J, Olson L (2010). MitoPark mice mirror the slow progression of key Parkinson disease symptoms and the L-DOPA response. *Genes, brain and behavior*, **9**, 173-181.
- Sun S, Yang Y, Liu F, Fan J, Peng X, Kehr J, Sun L (2009). Intra- and intermolecular interaction ECL study of novel ruthenium tris-bipyridyl complexes with different amine reductants. *Dalton Trans*, **38**, 7969-7974.
- Ogren SO, Eriksson TM, Elvander-Tottie E, D'Addario C, Ekström JC, Svenningsson P, Meister B, Kehr J, Stiedl O (2008). The role of 5-HT(1A) receptors in learning and memory. *Behav Brain Res*, **195**, 54-77.
- Weikop P, Kehr J, Scheel-Kruger J (2007). Reciprocal effects of combined administration of serotonin, noradrenaline and dopamine reuptake inhibitors on serotonin and dopamine levels in the rat prefrontal cortex: the role of 5-HT1A receptors. *J Psychopharmacol*, **21**, 795-804.
- Ögren SO, Razani H, Elvander-Tottie E, Kehr J (2007). The neuropeptide galanin as an in vivo modulator of brain 5-HT(1A) receptors: Possible relevance for affective disorders. *Physiol Behav*, **92**, 172-179.
- Fuxe K, Dahlstrom A, Hoistad M, Marcellino D, Jansson A, Rivera A, Diaz-Cabiale Z, Jacobsen K, Tinner-Staines B, Hagman B, Leo G, Staines W, Guidolin D, Kehr J, Genedani S, Belluardo N, Agnati LF (2007). From the Golgi-Cajal mapping to the transmitter-based characterization of the neuronal networks leading to two modes of brain communication: Wiring and volume transmission. *Brain Res Rev*, **55**, 17-54.
- Kehr J, Hu XJ, Goiny M, Scheller DK (2007). Continuous delivery of rotigotine decreases extracellular dopamine suggesting continuous receptor stimulation. *J Neural Transm*, **114**, 1027-1031.
- Weikop P, Yoshitake T, Kehr J (2007). Differential effects of adjunctive methylphenidate and citalopram on extracellular levels of serotonin, noradrenaline and dopamine in the rat brain. *Eur Neuropsychopharmacol*, **17**, 658-671.
- Hu XJ, Wang FH, Stenfors C, Ogren SO, Kehr J (2007). Effects of the 5-HT(1B) receptor antagonist NAS-181 on extracellular levels of acetylcholine, glutamate and GABA in the frontal cortex and ventral hippocampus of awake rats: A microdialysis study. *Eur Neuropsychopharmacol*, **17**, 580-586.
- Kehr J, Hu XJ, Yoshitake T, Scheller D (2007). Determination of the dopamine agonist rotigotine in microdialysates from the rat brain by microbore column liquid chromatography with electrochemical detection. *J Chromatogr B Analyt Technol Biomed Life Sci*, **845**, 109-113.
- Ogren SO, Kuteeva E, Hökfelt T, Kehr J (2006). Galanin receptor antagonists. A potential novel pharmacological treatment for mood disorders. *CNS Drugs*, **20**, 633-654.
- Wang FH, Lee IH, Holmström N, Yoshitake T, Kim DK, Muhammed M, Frisen J, Olson L, Spenger C, Kehr J (2006). Magnetic resonance tracking of nanoparticle labelled neural stem cells in a rat's spinal cord. *Nanotechnology*, **17**, 1911-1915.
- Yoshitake T, Kehr J, Todoroki K, Nohta H, Yamaguchi M (2006). Derivatization chemistries for determination of serotonin, norepinephrine and dopamine in brain microdialysis samples by liquid chromatography with fluorescence detection. *Biomed Chromatogr*, **20**, 267-281.
- Aguirre JA, Kehr J, Yoshitake T, Liu FL, Rivera A, Fernandez-Espinola S, Andbjør B, Leo G, Medhurst AD, Agnati LF, Fuxe K (2005). Protection but maintained dysfunction of nigral dopaminergic nerve cell bodies and striatal dopaminergic terminals in MPTP-lesioned mice after acute treatment with the mGluR5 antagonist MPEP. *Brain Res*, **1033**, 216-20.
- Weikop P, Egestad B, Kehr J (2004). Application of triple-probe microdialysis for fast pharmacokinetic/pharmacodynamic evaluation of dopaminergic activity of drug candidates in the rat brain. *J Neurosci Methods*, **140**, 59-65.
- Yoshitake T, Yoshitake S, Fujino K, Nohta H, Yamaguchi M, Kehr J (2004). High-sensitive liquid chromatographic method for determination of neuronal release of serotonin, noradrenaline and dopamine monitored by microdialysis in the rat prefrontal cortex. *J Neurosci Methods*, **140**, 177-183.
- Jansson A, Olin K, Yoshitake T, Andbjør B, Kehr J, Permert J (2004). Effects of isoflurane on prefrontal acetylcholine release and hypothalamic Fos response in young adult and aged rats. *Exp Neurol*, **190**, 535-543.
- Yoshitake T, Kehr J, Yoshitake S, Fujino K, Nohta H, Yamaguchi M (2004). Determination of serotonin, noradrenaline, dopamine and their metabolites in rat brain extracts and microdialysis samples by column liquid chromatography with fluorescence detection following derivatization with benzylamine and 1,2-diphenylethylenediamine. *J Chromatogr B*, **807**, 177-183.

- Tanganelli S, Sandager Nielsen K, Ferraro L, Antonelli T, Kehr J, Franco R, Ferre S, Agnati LF, Fuxe K, Scheel-Kruger J (2004). Striatal plasticity at the network level. Focus on adenosine A(2A) and D(2) interactions in models of Parkinson's Disease. *Parkinsonism Relat Disord*, **10**, 273-80.
- Yoshitake T, Iizuka R, Yoshitake S, Weikop P, Muller WE, Ögren SO, Kehr J (2004). Hypericum perforatum L (St. John's wort) preferentially increases extracellular dopamine levels in the rat prefrontal cortex. *Br J Pharmacol*, **142**, 414-418.
- Elvander E, Schött PA, Sandin J, Bjelke B, Kehr J, Yoshitake T, Ögren SO (2004). Intraseptal muscarinic ligands and galanin: Influence on hippocampal acetylcholine and cognition. *Neuroscience*, **126**, 541-557.
- Weikop P, Kehr J, Scheel-Krüger J (2004). The role of α 1- and α 2-adrenoreceptors on venlafaxine-induced elevation of extracellular serotonin, noradrenaline and dopamine levels in the rat prefrontal cortex and hippocampus. *J Psychopharmacol*, **18**, 357-365.
- Yoshitake T, Kehr J (2004). Differential effects of (R)-, (R, S)- and (S)-8-OH-DPAT on hippocampal serotonin release and induction of hypothermia in awake rats. *Life Sci*, **74**, 2865-2875.
- Yoshitake T, Wang FH, Kuteeva E, Holmberg K, Yamaguchi M, Crawley JN, Steiner R, Bartfai T, Ögren SO, Hökfelt T, Kehr J (2004). Enhanced hippocampal noradrenaline and serotonin release in galanin-overexpressing mice following repeated forced swimming test. *Proc Natl Acad Sci USA*, **101**, 354-359.
- Kim DK, Zhang Y, Mikhaylova M, Kehr J, Bjelke B, Muhammed M (2003). Brain cell endocytosis imaging study of starch coated superparamagnetic nanoparticles. *Chem Mater*, **15**, 4343-4351.
- Fujino K, Yoshitake T, Kehr J, Nohta H, Yamaguchi M (2003). Simultaneous determination of 5-hydroxyindoles and catechols by high-performance liquid chromatography with fluorescence detection following derivatization with benzylamine and 1,2-diphenylethylenediamine. *J Chromatogr A*, **1012**, 169-177.
- Wang FH, Yoshitake T, Kim DK, Muhammed M, Bjelke B, Kehr J (2003). Determination of conjugation efficiency of antibodies and proteins to the superparamagnetic iron oxide nanoparticles by capillary electrophoresis with laser-induced fluorescence detection. *J Nanoparticle Res*, **5**, 137-146.
- Yoshitake T, Yamaguchi M, Nohta H, Ichinose F, Yoshida H, Yoshitake S, Fuxe K, Kehr J (2003). Determination of histamine in microdialysis samples from rat brain by microbore column liquid chromatography following intramolecular excimer-forming derivatization with pyrene-labeling reagent. *J Neurosci Methods*, **127**, 11-17.
- Yoshitake T, Ichinose F, Yoshida H, Todoroki K, Kehr J, Inoue O, Nohta H, Yamaguchi M (2003). A sensitive and selective determination method of histamine by HPLC with intramolecular excimer-forming derivatization and fluorescence detection. *Biomed Chromatogr*, **17**, 509-516.
- Yoshitake T, Fujino K, Kehr J, Ishida J, Nohta H, Yamaguchi M (2003). Simultaneous determination of norepinephrine, serotonin, and 5-hydroxyindole-3-acetic acid in microdialysis samples from rat brain by microbore column liquid chromatography with fluorescence detection following derivatization with benzylamine. *Anal Biochem*, **312**, 125-133.
- Yoshitake T, Reenila I, Ögren SO, Hökfelt T, Kehr J (2003). Galanin attenuates basal and antidepressant drug-induced increase of extracellular serotonin and noradrenaline levels in the rat hippocampus. *Neurosci Lett*, **339**, 239-42.
- Yoshitake T, Yoshitake S, Yamaguchi M, Ögren SO, Kehr J (2003). Activation of 5-HT_{1A} autoreceptors enhances the inhibitory effect of galanin on hippocampal 5-HT release in vivo. *Neuropharmacology*, **44**, 206-213.
- Kim DK, Mikhaylova M, Torpak M, Zhang Y, Bjelke B, Kehr J, Muhammed M (2002). In-situ gold coating of superparamagnetic nanoparticles by microemulsion method. *Mater Res Soc*, **704**, W6.28.1-6.28.6.
- Fujino K, Yoshitake T, Inoue O, Ibii N, Ishida J, Nohta H, Kehr J, Yamaguchi M (2002). Increased serotonin release in mice frontal cortex and hippocampus induced by acute physiological stressors. *Neurosci Lett*, **320**, 91-95.
- Kehr J, Yoshitake T, Wang FH, Razani H, Gimenez-Llort L, Jansson A, Yamaguchi M, Ögren SO (2002). Galanin is a potent in vivo modulator of mesencephalic serotonergic neurotransmission. *Neuropsychopharmacology*, **27**, 341-356.
- Chen KC, Höistad M, Kehr J, Fuxe K, Nicholson C (2002). Quantitative dual probe microdialysis: mathematical model and analysis. *J Neurochem*, **81**, 94-107.
- Chen KC, Höistad M, Kehr J, Fuxe K, Nicholson C (2002). Theory relating in vitro and in vivo microdialysis with one or two probes. *J Neurochem*, **81**, 108-121.
- Höistad M, Chen KC, Nicholson C, Fuxe K, Kehr J (2002). Quantitative dual probe microdialysis: Evaluation of 3H-mannitol diffusion in agar and rat striatum. *J Neurochem*, **81**, 80-93.
- Yoshitake T, Iizuka R, Kehr J, Nohta H, Ishida J, Yamaguchi M (2001). Determination of serotonin in microdialysis samples from rat brain by microbore column liquid chromatography with post-column derivatization and fluorescence detection. *J Neurosci Methods*, **109**, 91-96.
- Kehr J, Yoshitake T, Wang FH, Wynick D, Holmberg K, Kahl U, Lendahl U, Bartfai T, Yamaguchi M, Hökfelt T, Ögren SO (2001). Microdialysis in freely moving mice: Determination of acetylcholine, serotonin and noradrenaline release in galanin transgenic mice. *J Neurosci Methods*, **109**, 71-80.
- Kim DK, Zhang Y, Voit W, Rao KV, Kehr J, Bjelke B, Muhammed M (2001). Superparamagnetic iron oxide nanoparticles for biomedical applications. *Scripta Materialia*, **44**, 1713-1717.

- Kim DK, Zhang Y, Kehr J, Klason T, Bjelke B, Muhammed M (2001). Characterization and MRI study of surfactant-coated superparamagnetic nanoparticles administered into the rat brain. *J Magn Magn Mater*, **225**, 256-261.
- Ögren SO, Schött PA, Kehr J, Misane I, Razani H (1999). Galanin and learning. *Brain Res*, **848**, 174-182.
- Höistad M, Kehr J, Andbjør B, Jansson A, Fuxe K (1999). Intracerebral infusion of 3H-dopamine and 3H-mannitol in the striatum of halothane anaesthetized rats. A dual probe microdialysis study of long distance diffusion. *Eur J Neuroscience*, **12**, 2505-2514.
- Kehr J, Höistad M, Fuxe K (2000). Diffusion of radiolabeled dopamine, its metabolites and mannitol in the rat striatum studied by dual-probe microdialysis. In: Volume transmission revisited. (Eds. K. Fuxe, L.F. Agnati, C. Nicholson and E. Syková) Elsevier Sci. Publishers, Amsterdam, The Netherlands. *Prog Brain Res*, **125**, 179-190.
- Strömberg I, Kehr J, Fuxe K (2000). Restoration of transmission in graft reinnervated striatum. Evidence for regulation of dopamine D2 receptor function in regions lacking dopamine. In: Volume transmission revisited. (Eds. K. Fuxe, L.F. Agnati, C. Nicholson and E. Syková) Elsevier Sci. Publishers, Amsterdam, The Netherlands. *Prog Brain Res*, **125**, pp. 309-315.
- Strömberg I, Kehr J, Andbjør B, Fuxe K (1999). Fetal ventral mesencephalic grafts functionally reduce the dopamine D2 receptor supersensitivity in partially dopamine reinnervated host striatum. *Exp Neurology*, **164**, 154-165.
- O'Meara G, Coumis U, Ma SY, Kehr J, Mahoney S, Bacon A, Allen SJ, Holmes F, Kahl U, Wang FH, Kearns IR, Ögren SO, Dawbarn D, Mufson EJ, Davies C, Dawson G, Wynick D (2000). Galanin regulates the postnatal survival of a subset of basal forebrain cholinergic neurons. *Proc Natl Acad Sci USA*, **97**, 11569-11574.
- Yamaguchi M, Yoshitake T, Fujino K, Kawano K, Kehr J, Ishida J (1999). Norepinephrine monitoring in microdialysates from rat brain by microbore-high-performance liquid chromatography with fluorescence detection. *Anal Biochem*, **270**, 296-302.
- Ferré S, Popoli P, Rimondini R, Reggioro R, Kehr J, Fuxe K (1999). Adenosine A2A and group I metabotropic glutamate receptors synergistically modulate the binding characteristics of dopamine D2 receptors in the rat striatum. *Neuropharmacology*, **38**, 129-140.
- Ögren SO, Schött PA, Kehr J, Yoshitake T, Misane I, Mannström P, Sandin J (1998). Modulation of acetylcholine and serotonin transmission by galanin: Relationship to spatial and aversive learning. *Ann NY Acad Sci*, **863**, 342-363.
- Kehr J, Dechent P, Ögren SO (1998). Simultaneous determination of acetylcholine, choline and physostigmine in microdialysis samples from rat hippocampus by microbore liquid chromatography/electrochemistry on peroxidase redox polymer coated electrodes. *J Neurosci Methods*, **83**, 143-50.
- Kehr J (1998). Determination of glutamate and aspartate in microdialysis samples by reversed-phase column liquid chromatography with fluorescence and electrochemical detection. *J Chromatogr*, **708**, 27-38.
- Kehr J (1998). Determination of γ -aminobutyric acid in microdialysis samples by microbore column liquid chromatography and fluorescence detection. *J Chromatogr*, **708**, 49-54.
- Ishida J, Yoshitake T, Fujino K, Kawano K, Kehr J, Yamaguchi M (1998). Serotonin monitoring in microdialysate from rat brain by microbore-HPLC with fluorescence detection. *Anal Chim Acta*, **365**, 227-232.
- Carter AJ, Kehr J (1997). Microbore high-performance liquid chromatographic method for measuring acetylcholine in microdialysis samples: optimizing performance of platinum electrodes. *J Chromatogr*, **692**, 207 - 212.
- Antoniou K, Kehr J, Snitt K, Ögren SO (1997). Differential effects of the neuropeptide galanin on striatal acetylcholine release in anaesthetized and awake rats. *Br J Pharmacol*, **121**, 1180-1186.
- Ögren SO, Kehr J, Schött PA (1996). Effects of ventral hippocampal galanin on spatial learning and on in vivo acetylcholine release in the rat. *Neuroscience*, **75**, 1127-1140.
- You ZB, Herreramarschitz M, Pettersson E, Nylander I, Gojny M, Shou HZ, Kehr J, Godukhin O, Hökfelt T, Terenius L, Ungerstedt U (1996). Modulation of neurotransmitter release by cholecystokinin in the neostriatum and substantia nigra of the rat - regional and receptor specificity. *Neuroscience*, **74**, 793-804.
- You ZB, Herreramarschitz M, Nylander I, Gojny M, Kehr J, Ungerstedt U, Terenius L (1996). Effect of morphine on dynorphin B and GABA release in the basal ganglia of rats. *Brain Res*, **710**, 241-248.
- Kehr J (1994). Determination of catecholamines by automated precolumn derivatization and reversed-phase column liquid chromatography with fluorescence detection. *J Chromatogr A*, **661**, 137-142.
- Kehr J (1993). A survey on quantitative microdialysis: theoretical models and practical implications. *J Neurosci Methods*, **48**, 251-261.
- Osborne PG, O'Connor WT, Kehr J, Ungerstedt U (1990). In vivo characterisation of extracellular dopamine, GABA, and acetylcholine from the dorsolateral striatum of conscious freely-moving rats by chronic microdialysis. *J Neurosci Methods*, **37**, 93-102.
- Reid M, Herrera-Marschitz M, Kehr J, Ungerstedt U (1990). Striatal dopamine and glutamate release: effects of intranigral injections of Substance P. *Acta Physiol Scand*, **140**, 527-537.
- Drew KL, O'Connor WT, Kehr J, Ungerstedt U (1990). Regional specific effects of clozapine and haloperidol on GABA and dopamine release in the rat basal ganglia. *Eur J Pharmacol*, **187**, 385-397.

- Drew KL, O'Connor WT, Kehr J, Ungerstedt U (1989). Characterization of extracellular gamma-aminobutyric acid and dopamine overflow following acute implantation of a microdialysis probe. *Life Sci*, **45**, 1307-1317.
- Westerberg E, Kehr J, Ungerstedt U, Wieloch T (1988). The NMDA-antagonist MK-801 reduces extracellular amino acid levels during hypoglycemia and prevents striatal damage. *Neurosci Res Commun*, **3**, 151-158.
- Hurd YL, Kehr J, Ungerstedt U (1988). In vivo microdialysis as a technique to monitor drug transport: correlation of extracellular cocaine levels and dopamine overflow in the rat brain. *J Neurochem*, **51**, 1314-1316.
- Kehr J, Ungerstedt U (1988). Fast HPLC estimation of gamma-aminobutyric acid in microdialysis perfusates: effect of nipecotic and 3-mercaptopropionic acids. *J Neurochem*, **51**, 1308-1310.
- Chavko M, Kehr J, Vaskova M, Eiben E (1989). Levels of homovanillic acid and 5-hydroxyindoleacetic acid in the cerebrospinal fluid in patients with focal cerebral ischemia (Slovak). *Ceskosl Neurologie a Neurochirurgie*, **52**, 403-408.
- Danielisova V, Chavko M, Kehr J (1987). Adenine nucleotide levels and regional distribution of ATP in rabbit spinal cord after ischemia and recirculation. *Neurochem Res*, **12**, 241-245.
- Kehr J, Chavko M (1986). Protection, efficiency, and some practical aspects of use compact glass cartridge columns in high-performance liquid chromatography. *Collection Czech Chem Commun*, **51**, 2091-2097.
- Kehr J, Chavko M (1986). Separation of nucleotides by reversed-phase high-performance liquid chromatography: advantages and limitations. *Fresenius Z Anal Chem*, **325**, 466-469.
- Kehr J, Chavko M (1985). Rapid determination of adenine nucleotides in brain tissue by ion-paired reversed-phase column liquid chromatography under isocratic conditions. *J Chromatogr*, **345**, 267-273.
- Kehr J (1986). Stationary and continuous flow radiochemical detectors in high-performance liquid chromatography: application in biochemistry. *Radioaktivita a ziv. prostredie*, **9**, 319-329. (in Slovak)
- Kehr J, Chavko M (1984). The estimation of catecholamines in brain and plasma by the HPLC method with electrochemical detection on the Czechoslovak column Separon Six C18. (in Slovak). *Biologia*, **39**, 1107-1114.
- Kehr J, Králik P (1985). Gas chromatographic analysis of mercaptans using the ion-selective electrode detector. *Collect Czech Chem Commun*, **50**, 2679-2684.

Conference Proceedings

- Kehr J (Guest Editor). Monitoring Molecules in Neuroscience. The 10th International Conference on In Vivo Methods.. J. Neurosci. Methods, Special Issue, 2004, pp 1-192.
- Kehr J, Fuxe K, Ungerstedt U, Svensson TH (Eds). Monitoring Molecules in Neuroscience. Proceedings of the 10th International Conference on In Vivo Methods. Karolinska University Press, Stockholm, Sweden, 2003, pp 1-507.
- Kehr J (Guest Editor). Sensors for brain mapping. J Neurosci Methods, Special Issue, 2001; 109, pp. 1-80.
- Kehr J, Höistad M, Fuxe K. Diffusion of radiolabeled dopamine, its metabolites and mannitol in the rat striatum studied by dual-probe microdialysis. In: Volume transmission revisited. (Eds. K Fuxe, LF Agnati, C Nicholson, E Syková) Elsevier Sci. Publishers, Amsterdam, The Netherlands. Prog Brain Res, 2000, 125, 179-190.
- Strömberg I, Kehr J, Fuxe K. Restoration of transmission in graft reinnervated striatum. Evidence for regulation of dopamine D2 receptor function in regions lacking dopamine. In: Volume transmission revisited. (Eds. K Fuxe, LF Agnati, C Nicholson, E Syková) Elsevier Sci. Publishers, Amsterdam, The Netherlands, Prog Brain Res, 2000, 309-315.
- Kehr J, Yamamoto K, Niwa O, Kato T, Ögren SO (1996). Disposable "chip" electrodes for LCEC determinations of acetylcholine and GABA in microdialysis samples. In: Monitoring molecules in neuroscience (Eds. JL González-Mora, R Borges R, M Mas) Santa Cruz, Tenerife, Spain, pp 27-28.
- Kehr J, Chavko M (1989). Contribution of postischemic stress to dopamine release and metabolism in the rat striatum: an in vivo microdialysis study. In: Stress: Neurochemical and humoral mechanisms (Eds. GR Van Loon, R Kvetnansky, R McCarty R, J. Axelrod) Gordon and Breach Sci. Publ., N.Y. pp. 99-110.