
Neurologian yksikkö

Department of Neurology

Julkaisut 1992-1992

Publications 1992-1992

Lisätietoja julkaisusta saa klikkaamalla sen numeroa.
For full details, please click the number in front of the publication.

- [1](#) Jolkkonen J, Mazurkiewicz M, Lahtinen H, Riekkinen P. Acute effects of gamma-vinyl GABA on the GABAergic system in rats as studied by microdialysis. *Eur J Pharmacol* 1992;**229**:269-272.
- [2](#) Hartikainen P, Soininen H, Partanen J, Helkala EL, Riekkinen P. Aging and spectral analysis of EEG in normal subjects; a link to memory and CSF AChE. *Acta Neurol Scand* 1992;**86**:148-155.
- [3](#) Alhainen K, Reinikainen K, Riekkinen P. Alzheimerin taudin kolinerginen lääkehoito. *Sandoz Report* 1992;**23**:11-14.
- [4](#) Halonen T, Pitkänen A, Partanen J, Hyttinen JM, Riekkinen PJ. Amino acid levels in cerebrospinal fluid of rats after administration of pentylenetetrazol. *Comp Biochem Physiol* 1992;101C:21-25
- [5](#) Nieminen S, Sirviö J, Teittinen K, Pitkänen A, Airaksinen M, Riekkinen P. Amygdala kindling increased fear-response but did not impair spatial memory in rats. *Physiol Behav* 1992;**51**:845-849.
- [6](#) Soininen H, Syrjänen S, Heinonen O, Neittaanmäki H, Miettinen R, Paljärvi L, Syrjänen K, Beyreuther K, Riekkinen P. Amyloid beta-protein deposition in skin of patients with dementia. *Lancet* 1992;**339**:245.
- [7](#) Amaral DG, Price JL, Pitkänen A, Carmichael ST. Anatomical organization of the primate amygdaloid complex. Kirjassa: Aggleton J, ed. *The Amygdala: Neurobiological Aspects of Emotion, Memory and Mental Dysfunction*, s. 1-66. New York: Wiley, 1992
- [8](#) Alhainen K. *Anticholinesterase drug, Tacrine (THA), in Alzheimer's disease. Discrimination of responders and nonresponders*. University of Kuopio. Series of Reports. Department of Neurology 27. 1992. 78 s., liitt.
- [9](#) Riekkinen P Jr, Sirviö J, Riekkinen M, Lammintausta R, Riekkinen P. Atipamezole an alpha-2-antagonist, stabilizes age-related high-voltage spindle and passive avoidance defects. *Pharmacol Biochem Behav* 1992;**41**:611-614.
- [10](#) Mazurkiewicz M, Sirviö J, Riekkinen P Sr. Attenuation by the benzodiazepine receptor antagonist, ZK 93 426, of the deficit in spatial navigation induced by nuclear basalis lesions. *Behav Neural Biol* 1992;**58**:159-163.
- [11](#) Sirviö J, Riekkinen PJ. Brain and cerebrospinal fluid cholinesterases in Alzheimer's disease, Parkinson's disease and aging. A critical review of clinical and experimental studies. *J Neural Transm* 1992;4:337-358

- 12 Gulyás AI, Miettinen R, Jacobowitz DM, Freund TF. Calretinin is present in non-pyramidal cells of the rat hippocampus-I. A new type of neuron specifically associated with the mossy fibre system. *Neuroscience* 1992;**48**:1-27.
- 13 Miettinen R, Gulyás AI, Baimbridge KG, Jacobowitz DM, Freund TF. Calretinin is present in non-pyramidal cells of the rat hippocampus-II. Co-existence with other calcium binding proteins and GABA. *Neuroscience* 1992;**48**:29-43.
- 14 Rissanen A. *Cerebrovascular disease in the Jyväskylä region, Central Finland*. University of Kuopio. Series of Reports. Department of Neurology 23. 1992. 104 s., liitt.
- 15 Äikiä M, Kälviäinen R, Sivenius J, Halonen T, Riekkinen PJ. Cognitive effects of oxcarbamazepine and phenytoin monotherapy in newly diagnosed epilepsy: one year follow-up. *Epilepsy Res* 1992;**11**:199-203.
- 16 Sirviö J, Harju M, Riekkinen P Jr, Haapalinna A, Riekkinen PJ. Comparative effects of alpha-2 receptor agents and THA on the performance of adult and aged rats in the delayed non-matching to position task. *Psychopharmacology* 1992;**109**:127-133.
- 17 Jäkälä P, Viitamaa T, Sirviö J, Riekkinen P Jr, Salonen J, Haapalinna A, Virtanen R, Riekkinen P. Continuous alpha-2-adrenoceptor blockade by atipamezole decreases neocortical high-voltage spindle activity in rats. *Eur J Pharmacol* 1992;**221**:351-357.
- 18 Miettinen R, Freund TF. Convergence and segregation of septal and median raphe inputs onto different subsets of hippocampal inhibitory interneurons. *Brain Res* 1992;**594**:263-272.
- 19 Sirviö J, Ekonsalo T, Riekkinen P Jr, Lahtinen H, Riekkinen P Sr. D-cycloserine, a modulator of the N-methyl-D-aspartate receptor, improves spatial learning in rats treated with muscarinic antagonist. *Neurosci Lett* 1992;**146**:215-218.
- 20 Soinen H, Puranen M, Helkala EL, Laakso M, Riekkinen PJ. Diabetes mellitus and brain atrophy: A computed tomography study in an elderly population. *Neurobiol Aging* 1992;**13**:717-721.
- 21 Riekkinen P Jr, Riekkinen M, Valjakka A, Riekkinen P, Sirviö J. DSP-4, a noradrenergic neurotoxin, produces more severe biochemical and functional deficits in aged than young rats. *Brain Res* 1992;**570**:293-299.
- 22 Soinen H, Riekkinen PJ. EEG in diagnostics and follow-up of Alzheimer's disease. *Acta Neurol Scand* 1992;**Suppl 139**:36-39.
- 23 Mazurkiewicz M. *The effect of the enhanced GABAergic transmission on cognitive functions: An experimental study*. University of Kuopio. Series of Reports. Department of Neurology 25. 1992. 76 s., liitt.
- 24 Halonen T, Pitkänen A, Koivisto E, Partanen J, Riekkinen PJ. Effect of vigabatrin on the electroencephalogram in rats. *Epilepsia (NY)* 1992;**33**:122-127.
- 25 Jäkälä P, Sirviö J, Riekkinen P Jr, Valjakka A, Riekkinen P. The effects of alaproclate and p-chlorophenylalanine on cued navigation performance in rats. *J Neural Transm* 1992;**4**:43-52
- 26 Sirviö J, Riekkinen P Jr, MacDonald E, Airaksinen M, Lammintausta R, Riekkinen PJ. The effects of alpha-2 adrenoceptor antagonist, atipamezole, on spatial learning in scopolamine-treated rats. *J Neural Transm* 1992;**4**:99-106
- 27 Mazurkiewicz M, Sirviö J, Riekkinen PJ. Effects of an inhibitor of GABA-aminotransferase (gamma-vinyl-GABA) on the spatial navigation deficit induced by muscarinic blockade. *Pharmacol Biochem Behav* 1992;**43**:91-96.

- [28](#) Jäkälä P, Sirviö J, Riekkinen P Jr, Haapalinna A, Riekkinen P. The effects of atipamezole, an alpha-2-adrenoreceptor antagonist, on the performance of rats in a five-choice serial reaction time task. *Pharmacol Biochem Behav* 1992;**42**:903-908.
- [29](#) Riekkinen M, Sirviö J, Riekkinen P, Riekkinen P Jr. Effects of combined methysergide and mecamylamine/scopolamine treatment on spatial navigation. *Brain Res* 1992;**585**:322-326.
- [30](#) Riekkinen P Jr, Riekkinen M, Sirviö J, Riekkinen P. Effects of concurrent nicotinic antagonist and PCPA treatments on spatial and passive avoidance learning. *Brain Res* 1992;**575**:247-250.
- [31](#) Sirviö J, Riekkinen P Jr, Ekonsalo T, Lammintausta R, Riekkinen PJ. The effects of dexmedetomidine, an alpha-2 agonist, on learning and memory, assessed using passive avoidance and water maze task in rats. *Neuropharmacology* 1992;**31**:163-168.
- [32](#) Riekkinen P Jr, Sirviö J, Ekonsalo T, Riekkinen P. Effects of noradrenergic DSP4 lesion on the effectiveness of pilocarpine in reversing scopolamine-induced amnesia. *Brain Res Bull* 1992;**28**:919-922.
- [33](#) Jäkälä P, Sirviö J, Jolkkonen J, Riekkinen P Jr, Acsady L, Riekkinen P. The effects of p-chlorophenylalanine-induced serotonin synthesis inhibition and muscarinic blockade on the performance of rats in a 5-choice serial reaction time task. *Behav Brain Res* 1992;**51**:29-40.
- [34](#) Mazurkiewicz M, Sirviö J, Riekkinen P Sr. Effects of single and repeated administration of vigabatrin on the performance of rats in a 5-choice serial reaction time task. *Epilepsy Res* 1992;**13**:231-237.
- [35](#) Riekkinen P Jr, Riekkinen M, Sirviö J. Effects of tetrahydroaminoacridine on spatial navigation of nucleus-basalis- and frontal-cortex-lesioned rats. *Pharmacol Biochem Behav* 1992;**41**:637-641.
- [36](#) Ylinen A. Effects of vigabatrin in experimental models of epilepsy. *Therapia Suppl* 1992:9
- [37](#) Halonen T. Eksitotoksinen solukuolema ja sen ehkäisy. *Lääkeuutiset* 1992;**41**:28-33.
- [38](#) Sivenius J, Laakso M, Riekkinen P Sr, Smets P, Lowenthal A. European Stroke Prevention Study: Effectiveness of antiplatelet therapy in diabetic patients in secondary prevention of stroke. *Stroke* 1992;**23**:851-854.
- [39](#) Soininen H, Laulumaa V, Helkala EL, Hartikainen P, Riekkinen PJ. Extrapyrmidal signs in Alzheimer's disease: 3-year follow-up study. *J Neural Transm* 1992;**4**:107-119
- [40](#) Yavich LB, Airaksinen MM, Riekkinen PJ. Fast cyclic voltammetry of oxidizable species; depth profile in the rat striatum with and without potassium stimulation of the median forebrain bundle. *Brain Res* 1992;**578**:149-154.
- [41](#) Martinez-Guijarro FJ, Freund TF. GABAergic basal forebrain afferents innervate GABAergic interneurons in the cerebral cortex of the lizard, *Podarcis hispanica*. *Neuroscience* 1992;**51**:425-437.
- [42](#) Halasy K, Miettinen R, Szabat E, Freund TF. GABAergic interneurons are the major postsynaptic targets of median raphe afferents in the rat dentate gyrus. *Eur J Neurosci* 1992;**4**:144-153.
- [43](#) Freund T, Meskenaite V. Gamma-Aminobutyric acid-containing basal forebrain neurons innervate inhibitory interneurons in the neocortex. *Proc Natl Acad Sci U S A* 1992;**89**:738-742.
- [44](#) Ylinen A, Sivenius J, Pitkänen A, Halonen T, Partanen J, Mervaala E, Mumford J, Riekkinen PJ. Gamma-vinyl GABA (Vigabatrin) in epilepsy: clinical, neurochemical and neurophysiological monitoring in epileptic patients. *Epilepsia (NY)* 1992;**33**:917-922.

- 45 Riekkinen P. The ideal drug for epilepsy. *Therapia Suppl* 1992:4-5
- 46 Heinonen O, Syrjänen S, Mäntyjärvi R, Syrjänen K, Riekkinen P. JC virus infection and Alzheimer's disease: Reappraisal of an in situ hybridization approach. *Ann Neurol* 1992;**31**:439-441.
- 47 Riekkinen P. Kognitives profil von vigabatin. *Aktuel Neurol* 1992;**19**:S56.
- 48 Riekkinen P Jr, Riekkinen M, Sirviö J, Miettinen R, Riekkinen P. Loss of cholinergic neurons in the nucleus basalis induces neocortical electroencephalographic and passive avoidance deficits. *Neuroscience* 1992;**47**:823-831.
- 49 Jäkälä P. *Modulation of attention and working memory by noradrenergic, serotonergic and cholinergic systems. An experimental neuropsychopharmacological study.* University of Kuopio. Series of Reports. Department of Neurology 26. 1992. 100 s., liitt.
- 50 Kälviäinen R. Monotherapy with vigabatin in newly diagnosed epileptic patients. *Therapia Suppl* 1992:14-15
- 51 Hartikainen P, Reinikainen KJ, Soininen H, Sirviö J, Soikkeli R, Riekkinen PJ. Neurochemical markers in the cerebrospinal fluid of patients with Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis and normal controls. *J Neural Transm* 1992;4:53-68
- 52 Miettinen R, Freund TF. Neuropeptide Y-containing interneurons in the hippocampus receive synaptic input from median raphe and GABAergic septal afferents. *Neuropeptides* 1992;**22**:185-193.
- 53 Riekkinen P Jr, Riekkinen M, Sirviö J, Riekkinen P. Neurophysiological consequences of combined cholinergic and noradrenergic lesions. *Exp Neurol* 1992;**116**:64-68.
- 54 MacDonald E, Sirviö J. Neurotoxins as tools in lesioning experiments. Kirjassa: Harvey A, ed. Natural and synthetic neurotoxins, s. 2-46. London: Academic Press, 1992
- 55 Kälviäinen R. *Newly diagnosed epileptic seizure disorder in adults. A prospective follow-up study on 100 patients.* University of Kuopio. Series of Reports. Department of Neurology 24. 1992. 118 s.
- 56 Koivisto K, Helkala EL, Reinikainen KJ, Hänninen T, Mykkänen L, Laakso M, Pyörälä K, Riekkinen PJ. Population-Based Dementia Screening Program in Kuopio: The effect of education, age and sex on brief neuropsychological tests. *J Geriatr Psychiatry Neurol* 1992;**5**:162-171.
- 57 Mervaala E, Nousiainen U, Kinnunen J, Vapalahti M, Riekkinen P. Pre- and postoperative auditory event-related potentials in temporal lobe epilepsy. *Epilepsia (NY)* 1992;**33**:1029-1035.
- 58 Viinamäki H, Niskanen L, Koivisto K, Halinen M, Lehtonen J. Prevalence of psychiatric morbidity in accident & emergency department in relation to diagnostic categories. *Eur J Psychiatry* 1992;**6**:175-179.
- 59 Sivenius J. Principles for the use of vigabatin therapy in adult epilepsy. *Therapia Suppl* 1992:12-13
- 60 Stenafacci L, Farb C, Pitkänen A, Go G, LeDoux JE, Amaral DG. Projections from the lateral nucleus to the basal nucleus of the amygdala: A light and electron microscopic PHA-L study in the rat. *J Comp Neurol* 1992;**323**:586-601.
- 61 Riekkinen PJ, Sirviö J, Riekkinen P Jr, Valjakka A, Jäkälä P, Koivisto E, Lammintausta R. The role of the noradrenergic system in higher cerebral functions: Experimental studies about the effects of noradrenergic modulation on electrophysiology and behavior. Kirjassa: Levin ED et

al., eds. Neurotransmitter interactions and cognitive function, s. 91-102. Boston: Birkhäuser, 1992

- [62](#) Soinen H, Reinikainen KJ, Partanen J, Helkala EL, Paljärvi L, Riekkinen PJ. Slowing of electroencephalogram and choline acetyltransferase activity in post mortem frontal cortex in definite Alzheimer's disease. *Neuroscience* 1992;**49**:529-535.
- [63](#) Soinen H, Reinikainen K, Partanen J, Mervaala E, Paljärvi L, Helkala EL, Riekkinen P Sr. Slowing of the dominant occipital rhythm in electroencephalogram is associated with low concentration of noradrenaline in the thalamus in patients with Alzheimer's disease. *Neurosci Lett* 1992;**137**:5-9.
- [64](#) Lahtinen H, Brankack J, Koivisto E, Riekkinen P. Somatostatin release in rat neocortex during gamma-hydroxybutyrate-provoked seizures: microdialysis combined with EEG recording. *Brain Res Bull* 1992;**29**:837-841.
- [65](#) Jolkkonen J, Pitkänen A, Riekkinen PJ, Korpi ER, Kaufmann CA, Weinberg DR. Somatostatin-like immunoreactivity in CSF of schizophrenic patients during haloperidol treatment. *Biol Psychiatry* 1992;**31**:962-964.
- [66](#) Mervaala E, Nousiainen U, Tuunainen A, Partanen J, Riekkinen P. Vireystilan lisääntymiseen liittyvä sinuspysähdys uniapneapotilaalla. *Duodecim* 1992;**108**:1063-1066.

[Neurologian yksikkö](#)

[Julkaisutietokanta](#) 24.1.2013

[Department of Neurology](#)

[Publications Data Base](#) 24.1.2013