

Neurologian klinikka *

Department of Neurology

Julkaisut 2009-2009

Publications 2009-2009

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

- [1](#) Alafuzoff I, Aho L, Helisalmi S, Mannermaa A, Soininen H. Beta-amyloid deposition in brains of subjects with diabetes. *Neuropathol Appl Neurobiol* 2009;**1**:60-68.
- [2](#) Arjamaa O, Nikinmaa M, Salminen A, Kaarniranta K. Regulatory role of HIF-1alfa in the pathogenesis of age-related macular degeneration (AMD). *Ageing Res Rev* 2009;**8**:349-358.
- [3](#) Bousser MG, Amarenco P, Chamorro A, Fisher M, Ford I, Fox K, Hennerici MG, Mattle HP, Rothwell PM, Perform Study Investigators. Rationale and design of a randomized, double-blind, parallel-group of terutroban 30 mg/day versus aspirin 100 mg/day in stroke patients: the prevention of cerebrovascular and cardiovascular events of ischemic origin with terutroban in patients . *Cerebrovasc Dis* 2009;**27**:509-518.
- [4](#) Chaturvedi S, Zivin J, Breazna A, Amarenco P, Callahan A, Goldstein LB, Hennerici M, Sillesen H, Rudolph A, Welch MA, Sparcl Investigators. Effect of atorvastatin in elderly patients with a recent stroke or transient ischemic attack. *Neurology* 2009;**72**:688-694.
- [5](#) Danner N, Julkunen P, Khyuppenen J, Hukkanen T, Könönen M, Säisänen L, Koskenkorva P, Vanninen R, Lehesjoki AE, Kälviäinen R, Mervaala E. Altered cortical inhibition in Unverricht-Lundborg type progressive myoclonus epilepsy (EPM1). *Epilepsy Res* 2009;**85**:81-88.
- [6](#) Ederle J, Featherstone RL, Brown MM, on behalf of the Cavatas Collaborators, Manninen H. Long-term outcome of endovascular treatment versus medical care for carotid artery stenosis in patients not suitable for surgery and randomised in the Carotid and Vertebral Artery Transluminal Angioplasty study (CAVATAS). *Cerebrovasc Dis* 2009;**28**:1-7.
- [7](#) Eriksson K, Keränen T, Kälviäinen R. Fosphenytoin. *Expert Opin Drug Metab Toxicol* 2009;**5**(6):695-701.
- [8](#) Eskelinen MH, Ngandu T, Tuomilehto J, Soininen H, Kivipelto M. Midlife coffee and tea drinking and the risk of late-life dementia: a population-based CAIDE study. *J Alzheimer Dis* 2009;**16**:85-91.
- [9](#) Feldman HH, Pirttilä T, Dartigues JF, Everitt B, van Baelen B, Schwalen S, Kavanagh S. Treatment with galantamine and time to nursing home placement in Alzheimer's disease patients with and without cerebrovascular disease. *Int J Geriatr Psychiatry* 2009;**24**:479-488.
- [10](#) Ferris S, Nordberg A, Soininen H, Darreh-Shori T, Lane R. Progression from mild cognitive impairment to Alzheimer's disease: effects of sex, butyrylcholinesterase genotype, and rivastigmine treatment. *Pharmacogenet Genomics* 2009(19):635-646.
- [11](#) Gureviciene I, Gurevicius K, Tanila H. Aging and alpha-synuclein affect synaptic plasticity in the dentate gyrus. *J Neural Transm* 2009;**116**:13-22.

- [12](#) Gurevicius K, Kuang F, Stoenica L, Irintchev A, Gureviciene I, Dityatev A, Schachner M, Tanila H. Genetic ablation of tenascin-C expression leads to abnormal hippocampal CA1 structure and electrical activity in vivo. *Hippocampus* 2009;**19**:1232-1246.
- [13](#) Halász P, Kälviäinen R, Mazurkiewicz-Beldrinska M, Rosenow F, Doty P, Hebert D, Sullivan T, on behalf of the SP755 STUDY Group. Adjunctive lacosamide for partial-onset seizures: Efficacy and safety from a randomized controlled trial. *Epilepsia (NY)* 2009;**50**:443-453.
- [14](#) Helisalmi S, Väkevä A, Hiltunen M, Soininen H. Flanking markers of cyntation C (CST3) gene do not show association with Alzheimer's disease. *Dement Geriatr Cogn Disord* 2009;**27**:318-321.
- [15](#) Hicks AU, Lappalainen RS, Narkilahti S, Suuronen R, Corbett D, Sivenius J, Hovatta O, Jolkkonen J. Transplantation of human embryonic stem cell-derived neural precursor cells and enriched environment after cortical stroke in rats: cell survival and functional recovery. *Eur J Neurosci* 2009;**29**:562-574.
- [16](#) Hiltunen M, Mäkinen P, Peräniemi S, Sivenius J, van Groen T, Soininen H, Jolkkonen J. Focal cerebral ischemia in rats alters APP processing and expression of Abeta peptide degrading enzymes in the thalamus. *Neurobiol Dis* 2009;**35**:103-113.
- [17](#) Håkansson K, Rovio S, Helkala E-L, Vilska A-R, Windlad B, Soininen H, Nissinen A, Mohammed AH, Kivipelto M. Association between mid-life marital status and cognitive function in later life: population based cohort study. *BMJ (Clin Res)* 2009;**339**(b2462).
- [18](#) Immonen RJ, Kharatishvili I, Gröhn H, Pitkänen A, Gröhn OHJ. Quantitative MRI predicts long-term structural and functional outcome after experimental traumatic brain injury. *Neuroimage* 2009;**45**:1-9.
- [19](#) Immonen RJ, Kharatishvili I, Niskanen J-P, Gröhn H, Pitkänen A, Gröhn OHJ. Distinct MRI pattern in lesional and perilesional area after traumatic brain injury in rat - 11 months follow-up. *Exp Neurol* 2009;**215**:29-40.
- [20](#) Jauhiainen AM, Pihlajamäki M, Tervo S, Niskanen E, Tanila H, Hänninen T, Vanninen RL, Soininen H. Discriminating accuracy of medial temporal lobe volumetry and fMRI in mild cognitive impairment. *Hippocampus* 2009;**19**(2):166-175.
- [21](#) Julkunen V, Niskanen E, Muehlboeck S, Pihlajamäki M, Könönen M, Hallikainen M, Kivipelto M, Tervo S, Vanninen R, Evans A, Soininen H. Cortical thickness analysis to detect progressive mild cognitive impairment: a reference to Alzheimer's disease. *Dement Geriatr Cogn Disord* 2009;**28**:404-412.
- [22](#) Kaarniranta K, Salminen A. Age-related macular degeneration: activation of innate immunity system via pattern recognition receptors. *J Mol Med* 2009;**87**:117-123.
- [23](#) Kaarniranta K, Salminen A. NF-kappaB signaling as a putative target for omega-3 metabolites in the prevention of age-related macular degeneration (AMD). *Exp Gerontol* 2009;**44**:685-688.
- [24](#) Kaarniranta K, Salminen A, Eskelinen E-L, Kopitz J. Heat shock proteins as gatekeepers of proteolytic pathways - Implications for age-related macular generation (AMD). *Ageing Res Rev* 2009;**8**:128-139.
- [25](#) Kanninen K, Heikkinen R, Malm T, Rolova T, Kuhmonen S, Leinonen H, Ylä-Herttua S, Tanila H, Levonen AL, Koistinaho M, Koistinaho J. Intrahippocampal injection of a lentiviral vector expressing Nrf2 improves spatial learning in a mouse model of Alzheimer's disease. *Proc Natl Acad Sci U S A* 2009;**106**(38):16505-16510.

- [26](#) Kappos L, Freedman MS, Polman CH, Edan G, Hartung H-P, Miller DH, Montalban X, Barkhof F, Radu E-W, Metz C, Bauer L, Lanius V, Sandbrink R, Pohl C, for the BENEFIT Study Group. Long-term effect of early treatment with interferon beta-1b after a first clinical event suggestive of multiple sclerosis: 5-year active treatment extension of the phase 3 BENEFIT trial. *Lancet Neurol* 2009;**8**:987-997.
- [27](#) Kharatishvili I, Pitkänen A. Posttraumatic models. In: Schwartzkroin PA, ed. *Encyclopedia of Basic Epilepsy Research*. Vol. 3, p. 1229-1238. Oxford: Academic Press, 2009.
- [28](#) Kharatishvili I, Sierra A, Immonen RJ, Gröhn OHJ, Pitkänen A. Quantitative T2 mapping as a potential marker for the initial assessment of the severity of damage after traumatic brain injury in rat. *Exp Neurol* 2009;**217**:154-164.
- [29](#) Kiviranta PH, Suuronen T, Wallén EAA, Leppänen J, Tervonen J, Kyrölenko S, Salminen A, Poso A, Jarho EM. N(epsilon)-Thioacetyl-lysine-containing tri-, tetra-, and pentapeptides as SIRT1 and SIRT2 inhibitors. *J Med Chem* 2009;**52**:2153-2156.
- [30](#) Korolainen MA, Pirttilä T. Cerebrospinal fluid, serum and plasma protein oxidation in Alzheimer's disease. *Acta Neurol Scand* 2009;**119**:32-38.
- [31](#) Koskenkorva P, Khyuppenen J, Niskanen E, Könönen M, Bendel P, Mervaala E, Lehesjoki AE, Kälviäinen R, Vanninen R. Motor cortex and thalamic atrophy in Unverricht-Lundborg disease: Voxel-based morphometric study. *Neurology* 2009;**73**:606-611.
- [32](#) Kriegstein AR, Pitkänen A. Commentary: the prospect of cell-based therapy for epilepsy. *Neurotherapeutics* 2009;**6**:295-299.
- [33](#) Kuoppamäki M, Korpela K, Marttila R, Kaasinen V, Hartikainen P, Lyytinen J, Kaakkola S, Hänninen J, Löyttyniemi E, Kailajärvi M, Ruokoniemi P, Ellmén J. Comparison of pharmacokinetic profile of levodopa throughout the day between devodopa/carbidopa /entacapone and levodopa/carbidopa when administered four or five times daily. *Eur J Pharmacol* 2009;**65**(5):443-455.
- [34](#) Kurl S, Ala-Kopsala M, Ruskoaho H, Mäkikallio T, Nyssönen K, Vuolteenaho O, Sivenius J, Salonen JT, Laukkanen JA. Plasma N-terminal fragments of natriuretic peptides predict the risk of stroke and atrial fibrillation in men. *Heart* 2009;**95**:1067-1071.
- [35](#) Kurl S, Sivenius J, Mäkikallio TH, Rauramaa R, Laukkanen JA. Exercise workload, cardiovascular risk factor evaluation and the risk of stroke in middle-aged men. *J Intern Med* 2009;**265**:229-237.
- [36](#) Kälviäinen R. Clinical trials in status epilepticus-The clinical perspective. *Epilepsia Suppl* 2009;**50**:75-76.
- [37](#) Laakso MP, Tervo S, Hänninen T, Vanhanen M, Hallikainen M, Soininen H. Olfactory identification in non-demented elderly population and mild cognitive impairment: a comparison of performance in clinical odor identification versus Boston Naming Test. *J Neural Transm* 2009;**116**:891-895.
- [38](#) Lahtinen L, Huusko N, Myöhänen H, Lehtivarjo AK, Pellinen R, Turunen MP, Ylä-Herttuala S, Pirinen E, Pitkänen A. Expression of urokinase-type plasminogen activator receptor is increased during epileptogenesis in the rat hippocampus. *Neuroscience* 2009;**163**:316-328.
- [39](#) Lambert JC, Heath S, Even G..., Hiltunen M, Combarros O..., Helisalmi S, Porcellini E..., Licastro F, Soininen H, Ritchie K..., Amouyel P. Genome-wide association study identifies variants at CLU and CR1 associated with Alzheimer's disease. *Nat Genet* 2009;**41**(10):1047-1048.

- [40](#) Liapis CD, Bell PR, Mikhailidis D, Sivenius J, Nicolaidis A, Fernandes E Fernandes J, Biasi G, Norgren L, ESVS Guidelines Collaborators. ESVS guidelines. Invasive treatment for carotid stenosis: indications, techniques. *Eur J Vasc Endovasc Surg Suppl* 2009;**37**:1-19.
- [41](#) Lovestone S, Francis P, Kloszewska I, Mecocci P, Simmons A, Soininen H, Spenger C, Tsolaki M, Vellas B, Wahlund L-O, Ward M, on behalf of the AddNeuroMed Consortium. AddNeuroMed - The European collaboration for the discovery of novel biomarkers for Alzheimer's disease. *Ann N Y Acad Sci* 2009;**1180**:36-46.
- [42](#) Lu A, Hiltunen M, Romano DM, Soininen H, Hyman BT, Bertram L, Tanzi RE. Effects of ubiquitin 1 on the unfolded protein response. *J Mol Neurosci* 2009;**38**:19-30.
- [43](#) Luukkainen-Markkula R, Tarkka IM, Pitkänen K, Sivenius J, Hämäläinen H. Rehabilitation of hemispatial neglect: A randomized study using either arm activation or visual scanning training. *Restor Neurol Neurosci* 2009;**27**:663-672.
- [44](#) Maja K, Pitkänen A. Genes relevant to epileptogenic mechanisms. In: Avanzini G, Noebels J, eds. *Genetics of Epilepsy and Genetic Epilepsies*, p. 31-38. Montrouge: John Libbey Eurotext, 2009.
- [45](#) Majak K, Dabrowski M, Pitkänen A. Epileptogenesis alters gene expression pattern in rats subjected to amygdala-dependent emotional learning. *Neuroscience* 2009;**159**:468-482.
- [46](#) Marklund N, Morales D, Clausen F, Hånell A, Kiwanuka O, Pitkänen A, Gimbel DA, Philipson O, Lannfelt L, Hillered L, Strittmatter SM, McIntosh TK. Functional outcome is impaired following traumatic brain injury in aging Nogo-A/B-deficient mice. *Neuroscience* 2009;**163**:540-551.
- [47](#) Mattsson N, Hansson O, Andreasen N, Parnetti L, Johnsson M, Herukka SK, van der Flier WM..., Marcusson J, de LEON M, Hampel H, Scheltens P, Pirttilä T, Wallin A, Eriksdotter Jönhagen M, Minthon L, Winblad B, Blennow K. CSF biomarkers and incipient Alzheimer disease in patients with mild cognitive impairment. *JAMA* 2009;**302**(4):385-393.
- [48](#) Meretoja A, Kantanen A-M. Auditointien tuloksena entistä parempaa erikoiskoulutusta. *Suomen Lääkärilehti* 2009;**64**:388-393.
- [49](#) Minkeviciene R, Rheims S, Dobszay MB, Zilberter M, Hartikainen J, Fülöp L, Penke B, Zilberter Y, Harkany T, Pitkänen A, Tanila H. Amyloid beta-induced neuronal hyperexcitability triggers progressive epilepsy. *J Neurosci* 2009;**29**(11):3453-3462.
- [50](#) Myllymaa S, Myllymaa K, Korhonen H, Töyräs J, Jääskeläinen JE, Djupsund K, Tanila H, Lappalainen R. Fabrication and testing of polyimide-based microelectrode arrays for cortical mapping of evoked potentials. *Biosens Bioelectron* 2009;**24**:3067-3072.
- [51](#) Nordberg A, Darreh-Shori T, Peskind E, Soininen H, Mousavi M, Eagle G, Lane R. Different cholinesterase inhibitor effects on CSF choline Alzheimer patients. *Curr Alzheimer Res* 2009;**6**:4-14.
- [52](#) Noé F, Frasca A, Balducci C, Carli M, Sperk G, Ferraguti F, Pitkänen A, Bland R, Fitzsimons H, Doring M, Vezzani A. Neuropeptide Y overexpression using recombinant adeno-associated viral vectors. *Neurotherapeutics* 2009;**6**:300-306.
- [53](#) Nuutinen J, Liu Y, Laakso MP, Karonen JO, Vanninen EJ, Kuikka JT, Aronen HJ, Vanninen RL. Perfusion differences on SPECT and PWI in patients with acute ischemic stroke. *Neuroradiology* 2009;**51**:687-695.
- [54](#) Nuutinen T, Suuronen T, Kauppinen A, Salminen A. Clusterin: A forgotten player in Alzheimer's disease. *Brain Res* 2009;**61**:89-104.

- [55](#) Ojala J, Alafuzoff I, Herukka SK, van Groen T, Tanila H, Pirttilä T. Expression of interleukin-18 is increased in the brains of Alzheimer's disease patients. *Neurobiol Aging* 2009;**30**:198-209.
- [56](#) Oksman M, Tanila H, Yavich L. Behavioural and neurochemical response of alpha-synuclein A30P transgenic mice to the effects of L-DOPA. *Neuropharmacology* 2009;**56**:647-652.
- [57](#) Palmio J, Suhonen J, Keränen T, Hulkkonen J, Peltola J, Pirttilä T. Cerebrospinal fluid tau as a marker of neuronal damage after epileptic seizure. *Seizure* 2009;**18**(7):474-477.
- [58](#) Peskind E, Nordberg A, Darreh-Shori T, Soininen H. Safety of lumbar puncture procedures in patients with Alzheimer's disease. *Curr Alzheimer Res* 2009;**6**(3):290-292.
- [59](#) Pihlajamäki M, Jauhiainen AM, Soininen H. Structural and functional MRI in mild cognitive impairment. *Curr Alzheimer Res* 2009;**6**:179-185.
- [60](#) Pitkänen A, Immonen RJ, Gröhn OH, Kharatishvili I. From traumatic brain injury to posttraumatic epilepsy: what animal models tell us about the process and treatment options. *Epilepsia Suppl* 2009;**50**(2):21-29.
- [61](#) Pitkänen A, Lukasiuk K. Molecular and cellular basis of epileptogenesis in symptomatic epilepsy. *Epilepsy Behav* 2009;**14**:16-25.
- [62](#) Pitkänen A, Lukasiuk K. Seizure-induced gene expression. In: Schwartzkroin PA, ed. *Encyclopedia of Basic Epilepsy Research*, p. 1302-1309. Oxford: Academic Press, 2009. Vol. 3.
- [63](#) Pitkänen A, Lukasiuk K. Epilepsy: Neuronal Death. In: Squire LR, ed. *Encyclopedia of Neuroscience*. Vol. 3, p. 1159-1166. Oxford: Academic Press, 2009.
- [64](#) Putkonen P, Kälviäinen R. Ohimolohkoon kohdistuva epilepsiakirurgia on kustannusvaikuttavaa hoitoa. *Duodecim* 2009;**125**:2500-2502.
- [65](#) Quinn TJ, Paolucci S, Sivenius J, Walker MF, Toni D, Lees KR, European STROKE Organisatio Executive Committee, European Stroke Organisatio Writing Committee. Evidence-based stroke r-e habilitation: an expanded guidance document from the european stroke organisation (ESO) guidelines for management of ischaemic stroke and transient ischaemic attack 2008. *J Rehabil Med* 2009;**41**:99-111.
- [66](#) Remes A, Leikola M, Majamaa K, Nikkanen M, Ruokonen L-I, Rusanen M, Tapiola T, Ylikotila P, Vallittu A-M, Pirttilä T. Alzheimerin taudin merkkitekijöiden käyttö muistisairauksien diagnostiikassa. *Duodecim* 2009;**125**:2215-2222.
- [67](#) Salminen A, Kaarniranta K. SIRT1 regulates the ribosomal DNA locus: Epigenetic candles twinkle longevity in the Christmas tree. *Biochem Biophys Res Commun* 2009;**378**:6-9.
- [68](#) Salminen A, Kaarniranta K. Regulation of the aging process by autophagy. *Trends Mol Med* 2009;**15**(5):217-224.
- [69](#) Salminen A, Kaarniranta K. SIRT1: Regulation of longevity via autophagy. *Cell Signal* 2009;**21**:1356-1360.
- [70](#) Salminen A, Kaarniranta K. Siglec receptors and hiding plaques in Alzheimer's disease. *J Mol Med* 2009;**87**:697-701.
- [71](#) Salminen A, Kaarniranta K. NF-kappaB signaling in the aging process. *J Clin Immunol* 2009;**29**:397-405.
- [72](#) Salminen A, Kauppinen A, Suuronen T, Kaarniranta K, Ojala J. ER stress in Alzheimer's disease: a novel neuronal trigger for inflammation and Alzheimer's pathology. *J*

Neuroinflammation [<http://www.jneuroinflammation.com/>] 2009;6(41):[13 p.].

- [73](#) Salminen A, Ojala J, Kauppinen A, Kaarniranta K, Suuronen T. Inflammation in Alzheimer's disease: Amyloid-beta oligomers trigger innate immunity defence via pattern recognition receptors. *Prog Neurobiol* 2009;**87**:181-194.
- [74](#) Sarajärvi T, Haapasalo A, Viswanathan J, Mäkinen P, Laitinen M, Soininen H, Hiltunen M. Down-regulation of seladin-1 increases BACE1 levels and activity through enhanced GGA3 depletion during apoptosis. *J Biol Chem* 2009;**284**(49):34433-34443.
- [75](#) Seppänen A, Pikkarainen M, Hartikainen P, Hofmann SC, Majamaa K, Alafuzoff I. Expression of collagen XVII and ubiquitin-binding protein p62 in motor neuron disease. *Brain Res* 2009;**1247**:171-177.
- [76](#) Simmons A, Westman E, Muehlboeck S, Meccoci P, Vellas B, Tsolaki M, Kloszewska I, Wahlund L-O, Soininen H, Lovestone S, Evans A, Spenger C, for the AddNeuroMed Consortium. MRI measures of Alzheimer's disease and the AddNeuroMed study. *Ann N Y Acad Sci* 2009;**1180**:47-55.
- [77](#) Sivenius J, Torppa J, Tuomilehto J, Immonen-Räihä P, Kaarisalo M, Sarti C, Kuulasmaa K, Mähönen M, Lehtonen A, Salomaa V. Modelling the burden of stroke in Finland until 2030. *Int J Stroke* 2009;**4**:340-345.
- [78](#) Soininen H. Muistihäiriöpotilaan neurologisten löydösten diagnostiset vihjeet. *Suomen Lääkärilehti* 2009;**64**(47):4049-4053.
- [79](#) Solomon A, Kåreholt I, Ngandu T, Wolozin B, Macdonald SW, Winbland B, Nissinen A, Tuomilehto J, Soininen H, Kivipelto M. Serum total cholesterol, statins and cognition in non-demented elderly. *Neurobiol Aging* 2009;**30**(6):1006-1009.
- [80](#) Solomon A, Leoni V, Kivipelto M, Besga A, Öksengård AR, Julin P, Svensson L, Wahlund L-O, Andreasen N, Winbland B, Soininen H, Björkhem I. Plasma levels of 24S-hydroxycholesterol reflect brain volumes in patients without objective cognitive impairment but not in those with Alzheimer's disease. *Neurosci Lett* 2009(462):89-93.
- [81](#) Tapiola T, Alafuzoff I, Herukka S-K, Parkkinen L, Hartikainen P, Soininen H, Pirttilä T. Cerebrospinal fluid {beta}-amyloid 42 and Tau proteins as biomarkers of Alzheimer-type pathologic changes in the brain. *Arch Neurol* 2009;**66**(3):382-389.
- [82](#) Teal P, Davis S, Hacke W, Kaste M, Lyden PD, Modified Randomized Exposure Controlled Trial Study Investigators, Bayer HealthCare Ag. A randomized, double-blind, placebo-controlled trial to evaluate the efficacy, safety, tolerability and pharmacokinetic/pharmacodynamic effects of a targeted exposure of intravenous rapinotan in patients with acute ischemic stroke. *Stroke* 2009;**40**:3518-3525.
- [83](#) van de Pol LA, Verhey F, Frisoni GB, Tsolaki M, Papapostolou P, Nobili F, Wahlund L-O, Minthon L, Frölich L, Hampel H, Soininen H, Knol DL, Barkhof F, Scheltens P, Visser PJ. White matter hyperintensities and medial temporal lobe atrophy in clinical subtypes of mild cognitive impairment: the DESCRIPA study. *J Neurol Neurosurg Psychiatry* 2009;**80**:1069-1074.
- [84](#) Vepsäläinen S, Helisalmi S, Mannermaa A, Pirttilä T, Soininen H, Hiltunen M. Combined risk effects of IDE and NEP gene variants on Alzheimer disease. *J Neurol Neurosurg Psychiatry* 2009;**80**:1268-1270.
- [85](#) Verwey NA, van der Flier WM, Blennow K..., de Deyn PP, Glasko D, Hampel H, Hartmann T, Kapaki E, Lannfelt L, Mehta PD, Parnetti L, Petzold A, Pirttilä T, Saleh L, Skinningsrud A, V Swieten JC, Verbeek MM. A worldwide multicentre comparison of assays for cerebrospinal

fluid biomarkers in Alzheimer's disease. *Ann Clin Biochem* 2009;**46**:235-240.

- [86](#) Visser PJ, Verhey F, Knol DL, Scheltens P, Wahlund L-O, Freud-Levi Y, Tsolaki M, Minthon L, Wallin ÅK, Hampel H, Burger K, Pirttilä T, Soininen H, Rikkert MO, Verbeek MM, Spira L, Blennow K. Prevalence and prognostic value of CSF markers of Alzheimer's disease pathology in patients with subjective cognitive impairment or mild cognitive impairment in the DESCRIPA study: a prospective cohort study. *Lancet Neurol* 2009;**8**(7):619-627.
- [87](#) Viswanathan J, Mäkinen P, Helisalmi S, Haapasalo A, Soininen H, Hiltunen M. An association study between granulin gene polymorphisms and Alzheimer's disease in Finnish population. *Am J Med Genet B Neuropsychiatr Genet* 2009;**150B**(5):747-750.
- [88](#) Välimäki TH, Vehviläinen-Julkunen KM, Pietilä A-MK, Pirttilä T. Caregiver depression is associated with a low sense of coherence and health-related quality of life. *Aging Ment Health* 2009;**13**(6):850-858.
- [89](#) Wallin A, Pirttilä T. Biomarkers in vascular dementia. In: Wahlund L-O, Erkinjuntti T, Gauthier S, eds. *Vascular Cognitive Impairment in Clinical Practice*, p. 77-91. Cambridge: Cambridge University Press, 2009.

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