



Carme Junqué. Curriculum Vitae

Born: May 23, 1955, Torroella de Montgrí, Catalonia, Spain

Present address

Carme Junque, Ph.D.
Professor of Neuropsychology
Departament de Psiquiatria i Psicobiologia Clínica
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Education

- 2003** Ministerio de Educacion, Clinical Psychology (*new professional certificate*)
1983 Universitat Autònoma de Barcelona, Ph.D., Neuropsychology
1977 Universitat Autònoma de Barcelona, MA, Psychology
1975 Universitat de Girona, BA, Psychology

Academic Appointments

- 2000-2007** Head of Department, Psychiatry and Clinical Psychobiology, Universitat de Barcelona
1997 Full Professor, Psychobiology & Neuropsychology, Universitat de Barcelona
Current
1995 - 1997 Full Professor, Psychobiology & Neuropsychology, Universidad Complutense de Madrid
1987 - 1995 Professor of Psychobiology, Universitat de Barcelona

Research Appointments

- 1995** Head, Neuropsychology Team, Research Area 4: Clinical and Experimental
Current Neurosciences, Institut d'Investigacions Biomediques *August Pi i Sunyer* (IDIBAPS), www.idibaps.ub.edu/eng/home.htm

Professional Appointments

- 1982** - Staff Neuropsychologist, Neurology Service, Hospital de la Sta. Creu i St. Pau,
1987 Barcelona

Awards and Fellowships

- 2004** Honourable Mention of the Catalanian Government as a distinguished researcher.
1983 *Marti-Julia* Award of Psychiatry and Psychology, Institut d'Estudis Catalans.
1980 - 1982 Research fellow, Ministerio de Educación y Ciencia, Department of Medical Psychology, Universitat Autònoma de Barcelona.

Other merits

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Memberships

Federación de Asociaciones de Neuropsicología Españolas (FANPSE)
Societat Catalana de Neuropsicologia (SCNPS)
Col·legi Oficial de Psicòlegs de Catalunya (COPC)
International Neuropsychological Society (INS)
National Academy of Neuropsychology (NAN)
Organization for the Human Brain Mapping (HBM)
Sociedad Española de Psicofisiología (SEP)

Editorial Board

Anuario de Psicología
Cognitiva
Neuropsychology Review
Revista de Neurología
Frontiers in Neuroscience

Lines of Research

- Frontostriatal functions
Substrates of incidental and procedural learning
Circuitry involved in the attentional processes (CPT and Stroop performance)
 - Brain plasticity
Long-term consequences of cerebral lesions in children
Perinatal events (asphyxia, prematurity)
Traumatic brain injury
 - Age-Associated Memory Impairment
Genetics factors and neuroimaging correlates
- Neuropsychology and Neuroimaging in degenerative illnesses

Research Grants

Public Grants

2011-2013. Structural and functional alteration of brain connectivity related to mild cognitive impairment in Parkinson's disease .

MCNN - Ministerio de Ciencia e Innovación. PSI2010-16174

2010-2015. Prediction of cognitive properties of new drug candidates for neurodegenerative diseases in early clinical development.

7COJTI - COOPERATION. JTI. 7è Programa Marc. Joint Technology Initiatives European Cominity

2011-2012. Estilos de vida y variantes genéticas como predictores de diferencias individuales del estado y funcionalidad cerebrales en el envejecimiento sano. Estudio mediante Resonancia Magnética funcional y estructural. Programa Nacional de tecnologías para la salud y bienestar. Ministerio de Sanidad, Política Social e Igualdad

2006-2012. Fisiopatología de los circuitos neurales y formas clínicas en la enfermedad de Parkinson: Implicaciones diagnósticas y terapéutica ACIB - Accions CIBER

CCEN - Consorcio CIBER del área de Enfermedades Neurodegenerativas B06/05/0018

2007-2010. Combined use of neuropsychological, biochemical, and neuroimaging biomarkers for assessment of dementia in Parkinson's disease. MATV - Marató TV3

2008-2010. Applications of structural and functional magnetic resonance imaging to the study of vegetative state and state of minimal response in patients with traumatic brain injury. Programa Nacional de Biomedicina, Ministerio de Ciencia y Tecnología, SAF2007-66077.

2005-2008. Structural and functional bases of neuropsychological deficits associated to prematurity. Programa Nacional de Biomedicina, Ministerio de Ciencia y Tecnología, SAF2005-07340.

2005-2009. Research projects to promote consolidate research groups. Departament d'Universitats, Recerca i Societat de la Informació. Generalitat de Catalunya, 2005SGR00855

2003-2005. Study of brain activity by means of functional magnetic resonance imaging. Thematic network. Direcció General de Recerca. Generalitat de Catalunya, 2003XT.

2003-2005. Basal ganglia diseases and neurodegeneration. Instituto de Salud Carlos III. Centro de Investigación de Enfermedades Neurológicas. Red CIEN IDIBAPS – ISCII RTIC C03/C06

2002-2005. Neuroanatomical and neurofunctional bases of memory impairment in subjects that were prematurely born with antecedents of perinatal asphyxia or intraventricular hemorrhage. Programa Nacional de Biomedicina, Ministerio de Ciencia y Tecnología, SAF2002-00836.

2001-2005. Research projects to promote consolidate research groups. Departament d'Universitats, Recerca i Societat de la Informació. Generalitat de Catalunya, 2001SGR00139.

2001-2002. Study of brain activity by means of functional magnetic resonance imaging. Thematic network.. Direcció General de Recerca. Generalitat de Catalunya, 2000XT 00094.

2000-2002. Research projects to promote consolidate research groups.. Comissionat per a Universitats i Recerca, 1999SGR00081.

2000-2001. Risperidone effects on the regional cerebral metabolism measured by means of magnetic resonance spectroscopy in schizophrenic patients. Grants for research projects in the area of health sciences. Instituto de Salud Carlos III, Fondo de Investigaciones Sanitarias 00/0233.

1999-2002. Long term Neuropsychological sequelae perinatal asphyxia. Relationship between magnetic resonance lesions and cognitive impairment. Programa Nacional de Promocion General del Conocimiento, Comision Interministerial de Ciencia y Tecnologia (CICYT), PM98-0192.

1999-2000. Choline levels of basal ganglia measured by means of magnetic resonance spectroscopy in patients with major depressive disorder treated by reboxetine: Relationship among choline, cognitive changes and mood state. Ministerio de Sanidad y Consumo, FIS 99/0191.

1997-1999. Research projects to promote consolidate research groups. Comissionat per a Universitats i Recerca, 1997SGR00302.

1996-1998. Long term repercussions of fronto-basal lesions in infancy. Programa Nacional de Promoción General del Conocimiento, Comisión Interministerial de Ciencia y Tecnología (CICYT), PM95-0104.

1995-1997. Research projects to promote consolidate research groups. Comissionat per a Universitats i Recerca, 1995SGR-00621.

1995. Spectrometric, electrophysiologic and clinical study of the magnetic resonance imaging pallidus hypersignal in patients with chronic hepatopathy. Ayudas para proyectos de investigación del área de Ciencias de la Salud (FIS), Ministerio de Sanidad y Consumo, 95/1032.

1994. Study of the repercussion of chronic basal ganglia disorders in the infancy. Ayudas para proyectos de investigación del área de Ciencias de la Salud (FIS), Ministerio de Sanidad y Consumo.

1992-1994. Cognitive functions of fronto-striatal circuitry. Ayudas para proyectos de investigación del área de Ciencias de la Salud (FIS), Ministerio de Sanidad y Consumo, PM91-0161.

1990. Single emission photon tomography and magnetic resonance in the diagnosis o vascular dementia. Ayudas para proyectos de investigación del área de Ciencias de la Salud (FIS), Ministerio de Sanidad y Consumo, 91/0244.

1989-1992. Parkinson disease. Correlations among clinical, neuropsychological, oculomotor and SPECT evaluations. Ayudas para proyectos de investigación del área de Ciencias de la Salud (FIS), Ministerio de Sanidad y Consumo, 90/0767.

Private Grants

2009-2010. Structural and functional brain connectivity in TBI patients with diffuse axonal brain damage. Mapfre.

1998. Neurological and neuropsychological manifestations of primary Sjogren syndrome and its relation with brain lesions detected by magnetic resonance imaging. Societat Catalana de Neurologia.

1998. Neuropsychological dysfunction of contralateral hemisphere to a stroke. Química Farmacéutica Bayer.

1995. Therapy program for traumatic brain injury patients. Fundación MAPFRE Medicina.

1991-1994. Multi-infarct dementia. Química Farmacéutica Bayer.

1989-1991. Brain ischemia and senile dysfunction. Química Farmacéutica Bayer.

Selected papers

2013

García-García I, Jurado MA, Garolera M, Segura B, Sala-Llonch R, Marqués-Iturria I, Pueyo R, Sender-Palacios MJ, Vernet-Vernet M, Narberhaus A, Ariza M, Junqué C. Alterations of the salience network in obesity: A resting-state fMRI study. *Hum Brain Mapp.* 2012 Apr 21. doi: 10.1002/hbm.22104

Palacios EM, Sala-Llonch R, Junque C, Fernandez-Espejo D, Roig T, Tormos JM, Bargallo N, Vendrell P. Long-term declarative memory deficits in diffuse TBI: Correlations with cortical thickness, white matter integrity and hippocampal volume. *Cortex.* 2013 Mar;49(3):646-57.

Penadés R, Pujol N, Catalán R, Massana G, Rametti G, García-Rizo C, Bargalló N, Gastó C, Bernardo M, Junqué C. Brain Effects of Cognitive Remediation Therapy in Schizophrenia: A Structural and Functional Neuroimaging Study. *Biol Psychiatry.* 2013 Feb 26. doi:pii: S0006-3223(13)00062-0.

Pereira JB, Junqué C, Bartrés-Faz D, Martí MJ, Sala-Llonch R, Compta Y, Falcón C, Vendrell P, Pascual-Leone A, Valls-Solé J, Tolosa E. Modulation of verbal fluency networks by transcranial direct current stimulation (tDCS) in Parkinson's disease. *Brain Stimul.* 2013 Jan;6(1):16-24.

Pereira JB, Junqué C, Bartrés-Faz D, Ramírez-Ruiz B, Martí MJ, Tolosa E. Regional vulnerability of hippocampal subfields and memory deficits in parkinson's disease. *Hippocampus.* 2013 Apr 4. doi: 10.1002/hipo.22131

Segura B, Baggio HC, Solana E, Palacios EM, Vendrell P, Bargalló N, Junqué C. Neuroanatomical correlates of olfactory loss in normal aged subjects. *Behav Brain Res.* 2013 Feb 28;246C:148-153

Segura B, Ibarretxe-Bilbao N, Sala-Llonch R, Baggio HC, Martí MJ, Valldeoriola F, Vendrell P, Bargalló N, Tolosa E, Junqué C. Progressive changes in a recognition memory network in Parkinson's disease. *J Neurol Neurosurg Psychiatry.* 2013 Apr;84(4):370-8.

Zarei M, Ibarretxe-Bilbao N, Compta Y, Hough M, Junque C, Bargallo N, Tolosa E, Martí MJ. Cortical thinning is associated with disease stages and dementia in Parkinson's disease. *J Neurol Neurosurg Psychiatry.* 2013 Mar 5.

Zubiaurre-Elorza L, Junque C, Gómez-Gil E, Segovia S, Carrillo B, Rametti G, Guillamon A. Cortical Thickness in Untreated Transsexuals. *Cereb Cortex.* 2012 Aug 31

2012

Baggio HC, Segura B, Ibarretxe-Bilbao N, Valldeoriola F, Martí MJ, Compta Y, Tolosa E, Junqué C. Structural correlates of facial emotion recognition deficits in Parkinson's disease patients. *Neuropsychologia* 50 (2012) 2121–2128.

Bosch B, Arenaza-Urquijo EM, Rami L, Sala-Llonch R, Junqué C, Solé-Padullés C, Peña-Gómez C, Bargalló N, Molinuevo JL, Bartrés-Faz D. Multiple DTI index analysis in normal aging, amnesic MCI and AD. Relationship with neuropsychological performance. *Neurobiology of Aging* 33 (2012) 61–74.

Compta Y, Ibarretxe-Bilbao N, Pereira JB, Junqué C, Bargalló N, Tolosa E, Valldeoriola F, Muñoz E, Camara A, Buongiorno M, Martí MJ. Grey matter volume correlates of cerebrospinal markers of Alzheimer-pathology in Parkinson's disease and related dementia. *Parkinsonism Relat Disord*. 2012 Sep;18(8):941-7.

Escartin G, Junqué C, Juncadella M, Gabarrós A, de Miquel MA, Rubio F. Decision-making impairment on the Iowa Gambling Task after endovascular coiling or neurosurgical clipping for ruptured anterior communicating artery aneurysm. *Neuropsychology*. 2012 Mar;26(2):172-80.

Fernández-Espejo D, Soddu A, Cruse D, Palacios EM, Junque C, Vanhauzenhuyse A, Rivas E, Newcombe V, Menon DK, Pickard JD, Laureys S, Owen AM. A role for the default mode network in the bases of disorders of consciousness. *Ann Neurol*. 2012 Sep;72(3):335-43.

Ibarretxe-Bilbao N, Junque C, Segura B, Baggio HC, Marti MJ, Valldeoriola F, Bargallo N, Tolosa E. Progression of cortical thinning in early Parkinson's disease. *Mov Disord*. 2012 Dec;27(14):1746-53.

Lázaro L, Bargalló N, Andrés S, Falcón C, Morer A, Junqué C, Castro-Fornieles. J. Proton magnetic resonance spectroscopy in pediatric obsessive-compulsive disorder: Longitudinal study before and after treatment. *Psychiatry Res*. 2012 30;201(1):17-24.

Palacios EM, Sala-Llonch R, Junque C, Roig T, Tormos JM, Bargallo N, Vendrell P. White matter integrity related to functional working memory networks in traumatic brain injury. *Neurology*. 2012 Mar 20;78(12):852-60.

Peña-Gómez C, Sala-Llonch R, Junqué C, Clemente IC, Vidal D, Bargalló N, Falcón C, Valls-Solé J, Pascual-Leone A, Bartrés-Faz D. Modulation of large-scale brain networks by transcranial direct current stimulation evidenced by resting-state functional MRI. *Brain Stimul*. 2012 Jul;5(3):252-63.

Peña-Gomez C, Solé-Padullés C, Clemente IC, Junqué C, Bargalló N, Bosch B, Molinuevo JL, Valls-Solé J, Pascual-Leone A, Bartrés-Faz D. APOE Status Modulates the Changes in Network Connectivity Induced by Brain Stimulation in Non-Demented Elders. *PLoS One*. 2012;7(12):e51833.

Pereira JB, Ibarretxe-Bilbao N, Marti MJ, Compta Y, Junque C, Bargallo N, Tolosa E. Assessment of cortical degeneration in patients with Parkinson's disease by voxel-based morphometry, cortical folding, and cortical thickness. *Human Brain Mapping* 2012; 33(11):2521-34

Rametti G, Carrillo B, Gómez-Gil E, Junque C, Zubiaurre-Elorza L, Segovia S, Gomez A, Karadi K, Guillamon A. Effects of androgenization on the white matter microstructure of female-to-male transsexuals. A diffusion tensor imaging study. *Psychoneuroendocrinology*. 2012; 37: 1261-1269.

Sala-Llonch R, Arenaza-Urquijo EM, Valls-Pedret C, Vidal-Piñeiro D, Bargalló N, Junqué C, Bartrés-Faz D. Dynamic functional reorganizations and relationship with working memory performance in healthy aging. *Front Hum Neurosci*. 2012;6:152.

Sala-Llonch R, Peña-Gómez C, Arenaza-Urquijo EM, Vidal-Piñeiro D, Bargalló N, Junqué C, Bartrés-Faz D. Brain connectivity during resting state and subsequent working memory task predicts behavioural performance. *Cortex*. 2012 48 (9) 1187-1196

Solana E, Sahuquillo J, Junqué C, Quintana M, Poca MA. Cognitive disturbances and neuropsychological changes after surgical treatment in a cohort of 185 patients with idiopathic normal pressure hydrocephalus. *Arch Clin Neuropsychol*. 2012 May;27(3):304-17.

Zubiaurre-Elorza L, Soria-Pastor S, Junqué C, Fernandez-Espejo D, Segarra D, Bargalló N, Romano-Berindoague C, Macaya A. Thalamic changes in a preterm sample with periventricular leukomalacia: correlation with white-matter integrity and cognitive outcome at school age. *Pediatr Res.* 2012 Apr;71(4-1):354-360.

Zubiaurre-Elorza L, Soria-Pastor S, Junque C, Sala-Llonch R, Segarra D, Bargallo N, Macaya A. Cortical thickness and behavior abnormalities in children born preterm. *PLoS One.* 2012;7(7):e42148

2011

Arenaza-Urquijo EM, Bosch B, Sala-Llonch R, Solé-Padullés C, Junqué C, Fernández-Espejo D, Bargalló N, Rami L, Molinuevo JL, Bartrés-Faz D. Specific Anatomic Associations Between White Matter Integrity and Cognitive Reserve in Normal and Cognitively Impaired Elders. *Am J Geriatr Psychiatry.* 2011 Jan;19(1):33-42

Fernández-Espejo D, Bekinschtein T, Monti MM, Pickard JD, Junque C, Coleman MR, Owen AM. Diffusion weighted imaging distinguishes the vegetative state from the minimally conscious state. *Neuroimage.* 2011 Jan 1;54(1):103-12. .

Ibarretxe-Bilbao N, Zarei M, Junque C, Marti MJ, Segura B, Vendrell P, Valldeoriola F, Bargallo N, Tolosa E. Dysfunctions of cerebral networks precede recognition memory deficits in early Parkinson's disease. *Neuroimage.* 2011; 57: 589-597

Ibarretxe-Bilbao N, Junque C, Marti MJ, Tolosa E. Cerebral basis of visual hallucinations in Parkinson's disease: Structural and functional MRI studies. *JNeurol Sci.* 2011 15;310(1-2):79-81

Ibarretxe-Bilbao N, Junque C, Marti MJ, Tolosa E. Brain structural MRI correlates of cognitive dysfunctions in Parkinson's disease. *J Neurol Sci.* 2011 15;310(1-2):70-4

Ortiz-Gil J, Pomarol-Clotet E, Salvador R, Canales-Rodríguez EJ, Sarró S, Gomar JJ, Guerrero A, Sans-Sansa B, Capdevila A, Junqué C, McKenna PJ. Neural correlates of cognitive impairment in schizophrenia. *Br J Psychiatry.* 2011, 199; 2002-210.

Palacios EM, Fernandez-Espejo D, Junque C, Sanchez-Carrion R, Roig T, Tormos JM, Bargallo N, Vendrell P. Diffusion tensor imaging differences relate to memory deficits in diffuse traumatic brain injury. *BMC Neurol.* 2011 Feb 23;11:24.

Rametti G, Carrillo B, Gómez-Gil E, Junque C, Segovia S, Gomez A, Guillamon A. White matter microstructure in female to male transsexuals before cross-sex hormonal treatment. A diffusion tensor imaging study. *J Psychiatr Res.* 2011, 45, 2, 199-204

Rametti G, Carrillo B, Gómez-Gil E, Junque C, Segovia S, Gomez A, Zubiaurre- L, Segovia S, Gomez A, Guillamon A. The microstructure of white matter in male to female transsexuals before cross-sex hormonal treatment. A DTI study. *J Psychiatr Res.* 2011, 45:949-954

Segarra N, Bernardo M, Gutierrez F, Justicia A, Fernandez-Egea E, Allas M, Safont G, Contreras F, Gascon J, Soler-Insa PA, Menchon JM, Junque C, Keefe RS. Spanish validation of the Brief Assessment in Cognition in Schizophrenia (BACS) in patients with schizophrenia and healthy controls. *Eur Psychiatry.* 2011 Mar;26(2):69-73.

Zubiaurre-Elorza L, Soria-Pastor S, Junque C, Segarra D, Bargalló N, Mayolas N, Romano-

Berindoague C, Macaya A. Gray matter volume decrements in preterm children with periventricular leukomalacia. *Pediatr Res*. 2011 Jun;69(6):554-60.

2010

Bosch B, Bartrés-Faz D, Rami L, Arenaza-Urquijo EM, Fernández-Espejo D, Junqué C, Solé-Padullés C, Sánchez-Valle R, Bargalló N, Falcón C, Molinuevo JL. Cognitive reserve modulates task-induced activations and deactivations in healthy elders, amnesic mild cognitive impairment and mild Alzheimer's disease. *Cortex*. 2010 Apr;46(4):451-61.

Carrillo B, Gómez-Gil E, Rametti G, Junque C, Gomez A, Karadi K, Segovia S, Guillamon A. Cortical activation during mental rotation in male-to-female and female-to-male transsexuals under hormonal treatment. *Psychoneuroendocrinology* 2010 Sep; 35(8):1213-22.

Castro-Fornieles J, Caldú X, Andrés-Perpiñá S, Lázaro L, Bargalló N, Falcón C, Plana MT, Junqué C. A cross-sectional and follow-up functional MRI study with a working memory task in adolescent anorexia nervosa. *Neuropsychologia*. 2010 Dec;48(14):4111-6.

Fernández-Espejo D, Junque C, Bernabeu M, Roig-Rovira T, Vendrell P, Mercader JM. Reductions of thalamic volume and regional shape changes in the vegetative and the minimally conscious States. *J Neurotrauma*. 2010 Jul;27(7):1187-93.

Fernández-Espejo D, Junque C, Cruse D, Bernabeu M, Roig-Rovira T, Fábregas N, Rivas E, Mercader JM. Combination of diffusion tensor and functional magnetic resonance imaging during recovery from the vegetative state. *BMC Neurol*. 2010 Sep 3;10:77.

Grau-Olivares M, Arboix A, Junqué C, Arenaza-Urquijo EM, Rovira M, Bartrés-Faz D. Progressive gray matter atrophy in lacunar patients with vascular mild cognitive impairment. *Cerebrovasc Dis*. 2010;30(2):157-66.

Ibarretxe-Bilbao N, Junque C, Marti MJ, Valldeoriola F, Vendrell P, Bargallo N, Zarei M, Tolosa E. Olfactory impairment in Parkinson's disease and white matter abnormalities in central olfactory areas: A voxel-based diffusion tensor imaging study. *Mov Disord*. 2010 Sep 15;25(12):1888-94.

Ibarretxe-Bilbao N, Ramirez-Ruiz B, Junque C, Marti MJ, Valldeoriola F, Bargallo N, Juanes S, Tolosa E. Differential progression of brain atrophy in Parkinson's disease with and without visual hallucinations. *J Neurol Neurosurg Psychiatry*. 2010 Jun;81(6):650-7.

Rametti G, Junqué C, Bartrés-Faz D, Zubiaurre-Elorza L, Catalán R, Penadés R, Bargalló N, Bernardo M. Anterior cingulate and paracingulate sulci morphology in patients with schizophrenia. *Schizophr Res*. 2010 Aug;121(1-3):66-74.

Sala-Llonch R, Bosch B, Arenaza-Urquijo EM, Rami L, Bargalló N, Junqué C, Molinuevo JL, Bartrés-Faz D. Greater Default-Mode Network Abnormalities Compared to High Order Visual Processing Systems in Amnesic Mild Cognitive Impairment: An Integrated Multi-Modal MRI Study. *J Alzheimers Dis*. 2010 22(2):523-39

Sanchez-Castaneda C, Rene R, Ramirez-Ruiz B, Campdelacreu J, Gascon J, Falcon C, Calopa M, Jauma S, Juncadella M, Junque C. Frontal and associative visual areas related to visual hallucinations in dementia with Lewy bodies and Parkinson's disease with dementia. *Mov Disord*. 2010 Apr 15;25(5):615-22.

Segura B, Jurado MA, Freixenet N, Bargalló N, Junqué C, Arboix A. White matter fractional anisotropy is related to processing speed in metabolic syndrome patients: a case-control study. *BMC Neurol.* 2010 Jul 27;10:64

Solana E, Poca MA, Sahuquillo J, Benejam B, Junqué C, Dronavalli M. Cognitive and motor improvement after retesting in normal-pressure hydrocephalus: a real change or merely a learning effect? *J Neurosurg.* 2010, 112, 399-409 .

2009

Benejam B, Poca MA, Junque C, Frasccheri L, Sahuquillo J. Malignant middle cerebral artery infarction: quality of life and neurobehavioral changes surviving patients. *J Neurol.* 2009 Jul;256(7):1126-33.

Castro-Fornieles J, Bargalló N, MD, Lázaro L Andrés S, Falcon C, Plana MC, Junqué C A Cross-sectional and follow-up voxel-based-morphometric MRI study in adolescent anorexia nervosa. *J Psychiatric Research* 2009; 43: 331-340

Compta Y, Martí MJ, Ibarretxe-Bilbao N, Junqué C, Valldeoriola F, Muñoz E, Ezquerra M, Ríos J, Tolosa E. Cerebrospinal tau, phospho-tau, and beta-amyloid and neuropsychological functions in Parkinson's disease. *Mov Disord.* 2009 24- 2203-2210

Ibarretxe-Bilbao N, Junqué C, Tolosa E, Martí MJ, Valldeoriola; Bargallo N , Zarei M. Neuroanatomical correlates of orbitofrontal dysfunction in early PD *Eur J Neurosci.* 2009 Sep;30(6):1162-71

Ibarretxe-Bilbao,N, Tolosa, E, Junque C, Marti JM. MRI and cognitive impairment in Parkinson's Disease. *Movement Disorders* 24, 5748-53

Lázaro L, Bargalló N, Castro-Fornieles J, Falcón C, Andrés S, Calvo R, Junqué C. Brain changes in child and adolescents patients with obsessive-compulsive disorder before and after treatment: A voxel-based morphometric MRI study *Psychiatry Res* 2009; 172: 140-146.

Martin EG; Junqué C; Juncadella, M; Gabarrós, A ;de Miquel, MA; Rubio F. Olfactory dysfunction after subarachnoid hemorrhage caused by ruptured aneurysms of the anterior communicating artery. *J Neurosurg* 2009, 958-62

Pereira JB, Junque C, Marti MJ, Ramirez-Ruiz B, Bargallo N, Bartres-Faz D, Tolosa E. Neuroanatomical correlates of semantic fluency in Parkinson's disease: A voxel-based morphometry study. *Neuroreport* 2009;27;20(8):741-4.

Pereira JB, Junqué C, Martí MJ Ramirez-Ruiz B, Bargalló N, Tolosa E Neuroanatomic substrate of visuospatial and visuoperceptual impairment in Parkinson's disease *Mov Disord.* 2009 Jun 15;24(8):1193-9.

Pueyo R, Junqué C, Vendrell,P, Narberhaus A, Segarra D. Neuropsychological impairment on bilateral cerebral palsy *Pediatric Neurology* 2009;40:19-26

Rametti G, Junque C, Falcon C, Bargallo N, Catalan R, Penedes R, Garzon B, Bernardo M A voxel-based diffusion tensor imaging study of temporal white matter in patients with schizophrenia *Psychiatric Research Neuroimaging* 2009; 171: 166-76.

Rametti G, Junque C, Vendrell P, catalan R, Penades R, Bargallo N, Bernardo M.

Hippocampal underactivation in an fMRI study of word and face memory recognition in schizophrenia. *Eur Arch Psychiatry Clin Neurosci*. 2009 Jun;259(4):203-11

Sanchez-Castañeda C, Reñe R, Ramirez-Ruiz B, Campdelacreu J, Gascon J, Falcon , Calopa M, Juncadella M, Junque C. Differences in gray matter volume and neuropsychological profile in PD with dementia with lewy bodies. *Movement Disorders* 2009 15;24(12):1740-6.

Segura B, Jurado MA, Freixenet N, Albuin C, Muniesa J, Junque C. Executive dysfunctions and mental slowness in patients with metabolic syndrome. *Neurosci Lett*. 2009 Oct 2;462(1):49-53.

Segura, B, Jurado MA, Freixenet N, Falcon C, Junque C, Arboix A. White matter changes in metabolic syndrome patients: A diffusion tensor imaging study. *Neurology*. 2009 Aug 1;73(6):438-44.

Solé-Padullés C, Bartrés-Faz D, Junqué C, Vendrell P, Rami L, Clemente I.C., Bosch B, Villar A, Bargalló N, Jurado M.A., Barrios M, Molinuevo J.L. Brain structure and function related to cognitive reserve variables in normal aging, mild cognitive impairment and Alzheimer's disease. *Neurobiology of Aging* 2009;30:1114-1124

Soria-Pastor S, Padilla-Gomes N, Zubiaurre-Elorza L, Ibarretxe-Bilbao N, Botet F, Costas-Moragas C , Falcon C, Bargallo N, Mercader JM, Junque C. Decreased regional Brain Volume by Magnetic Resonance Imaging Associated with Cognitive Impairment in Low-risk Preterm Children *Pediatrics* 2009;124;e1161-e1170

Zubiaurre-Elorza L, Soria-Pastor S Junqué C, Vendrell P, Padilla N, Rametti G, Bargalló N, Botet F Magnetic Resonance Imaging Study of Cerebral Sulci in Low-risk Preterm Children. *Int J Developmental Neurosciences Int J Dev Neurosci*. 2009 Oct;27(6):559-65.

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