



Raffaele Cacciaglia, PhD

Publications

1. Cacciaglia R, Molinuevo JL, Falcón C, Arenaza-Urquijo EM, Sánchez-Benavides G, Brugulat-Serrat A, Blennow, K, Zetterberg H, Gispert JD (2020) APOE- ϵ 4 shapes the cerebral organization in cognitively intact individuals as reflected by structural gray matter networks. *Cerebral Cortex*, 30(7): 4110-4120
2. Martí-Juan G, Sanroma-Guell G, Cacciaglia R, Falcón C, Operto R, Molinuevo JL, González Ballester MA, Gispert JD, Piella G (2020) Non-linear interaction between APOE- ϵ 4 allele load and age in the hippocampal surface of cognitively intact individuals. *Human Brain Mapping*, in press
3. Vilor-Tejedor N, Operto G, Evans TE, Falcón C, Crous-Bou M, Minguillón C, Cacciaglia R, Milà-Alomà M, Grau Rivera O, Suárez-Calvet M, Garrido-Martín D, Morán S, Esteller M, Adams HH, Molinuevo JL, Guigó R, Gispert JD (2020) Effect of BDNFVal66Met on hippocampal subfields volumes and compensatory interaction with APOE- ϵ 4 in middle-aged cognitively unimpaired individuals from the ALFA study. *Brain Structure & Function*, 225(8): 2331-2345
4. Casamitjana A, Vilaplana V, Puch S, Aduriz A, López C, Operto G, Cacciaglia R, Falcón C, Molinuevo JL, Gispert JD (2020) NeAT: a nonlinear analysis toolbox for neuroimaging. *Neuroinformatics*, 18(4):517-530
5. Cacciaglia R, Costa-Faidella J, Grimm S, Zarnowiec K, Escera C (2019) Auditory predictions shape the neural response to stimulus repetition and sensory change. *NeuroImage*, 186, 200-210
6. Cacciaglia R, Molinuevo JL, Falcón C, Sánchez-Benavides G, Gramunt N, Brugulat-Serrat A, Esteller M, Morán, Fauria K, Gispert JD (2019) APOE- ϵ 4 risk variant for Alzheimer's disease modifies the association between cognitive performance and cerebral morphology in healthy middle-aged individuals. *NeuroImage: Clinical*, 23:101818
7. Operto G, Molinuevo JL, Cacciaglia R, Falcón C, Brugulat-Serrat A, Suárez-Calvet M, Grau-Rivera O, Bragalló N, Morán S, Esteller M, Gispert JD (2019) Interactive effect of age and APOE- ϵ 4 allele load on white matter myelin content in cognitively normal middle-aged subjects. *NeuroImage: Clinical*, 24:101983
8. Brugulat-Serrat A, Salavdó G, Operto G, Cacciaglia R, Sudre C, Grau-Rivera O, Suárez-Calvet M, Falcón C, Sánchez-Benavides G, Gramunt N, Minguillón C, Fauria K, Barkhof F, Molinuevo JL, Gispert JD (2019) White matter hyperintensities mediate gray matter volume and executive function relationship in cognitively unimpaired participants. *Human Brain Mapping*, 41(5): 1309-1322

9. Grau-Rivera O, Operto G, Falcón C, Sánchez-Benavides G, Cacciaglia R, Brugulat-Serrat A, Gramunt N, Salvadó G, Suárez-Calvet M, Minguillón C, Iranzo A, Gispert JD, Molinuevo JL (2019) Association between insomnia and cognitive performance, gray matter volume and white matter microstructure in cognitively unimpaired adults. *Alzheimer's research & Therapy*, 12(1):4
10. Petrone PM, Casamitjana A, Falcón C, Artigues M, Operto G, Cacciaglia R, Molinuevo JL, Vilapalna V, Gispert JD (2019) Prediction of amyloid pathology in cognitively unimpaired individuals using voxelwise analysis of longitudinal structural brain MRI. *Alzheimer's Research & Therapy*, 11(1):72
11. Cacciaglia R, Molinuevo JL, Sánchez-Benavides G, Falcón C, Gramunt N, Brugualt-Serrat A, Grau O, Gispert JD (2018) Episodic memory and executive functions in cognitively healthy individuals display distinct neuroanatomical correlates which are differentially modulated by aging. *Human Brain Mapping*, 39, 4565-4579
12. Cacciaglia R, Molinuevo JL, Falcón C, Brugulat A, Sánchez-Benavides G, Gramunt N, Esteller M, Moran S, Minguillón C, Fauria K, Gispert JD (2018) Effects of APOE- ϵ 4 allele load on brain morphology in a cohort of middle- aged healthy individuals with enriched genetic risk for Alzheimer's disease. *Alzheimer's & Dementia*, 14(7), 902-912
13. Operto G, Cacciaglia R, Grau-Rivera O, Falcón C, Brugulat-Serrat A, Ródenas P, Ramos R, Morán S, Esteller M, Bargalló N, Molinuevo JL, Gispert JD (2018) White matter microstructure is altered in cognitively normal middle-aged APOE- ϵ 4 homozygotes. *Alzheimer's Research & Therapy*, 10(1):48
14. Falcón C, Tucholka A, Monté-Rubio G, Cacciaglia R, Operto G, Rami L, Gispert JD, Molinuevo JL (2018) Longitudinal structural cerebral changes related to core CSF biomarkers in preclinical Alzheimer's disease: a Study of Two Independent Datasets. *NeuroImage: Clinical*, 19, 190-201
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22. Cacciaglia R, Pohlack ST, Nees F, Flor H (2014) Dissociable roles for hippocampal and amygdalar volume in human fear conditioning. *Brain Structure & Function*, 220(5):2575-86
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