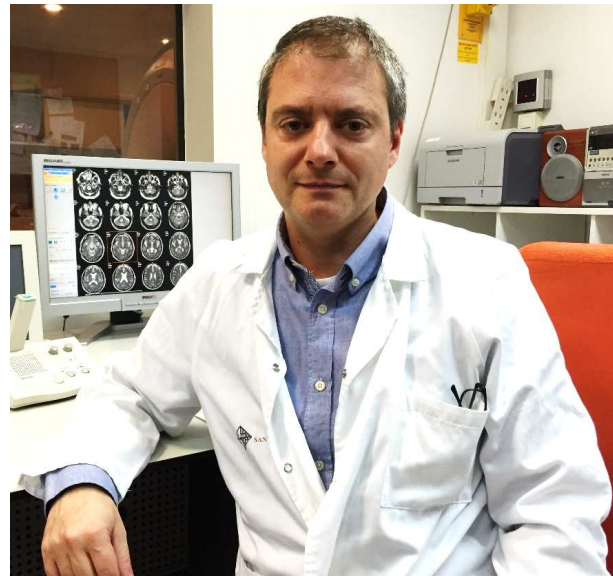


Human Neuropsychopharmacology Research Group

Pharmacology, Neuroimaging & Cognitive Neurophysiology



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Target Populations

I. **Healthy volunteers**

- Drug challenge studies

II. **Neurologic patients**

- Parkinson's Disease
- Multiple Sclerosis
- Huntington's Disease

III. **Psychiatric patients**

- Schizotypal Personality Disorder
- Schizophrenia
- Drug Dependence

Lines of Research

I. Pharmacological Profile of Centrally-Acting Drugs



Available online at www.sciencedirect.com



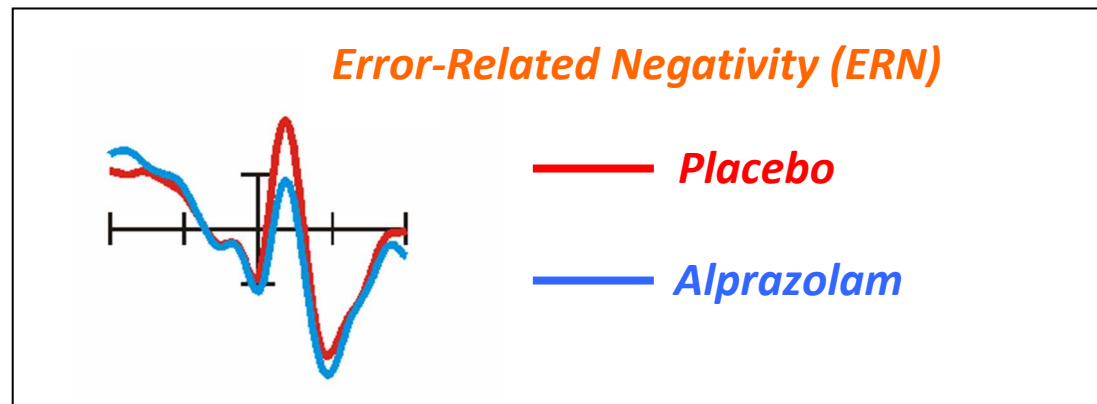
Cognitive Brain Research 25 (2005) 554 – 565

**COGNITIVE
BRAIN
RESEARCH**

www.elsevier.com/locate/cogbrainres

A neurophysiological study of the detrimental effects of alprazolam on human action monitoring

Jordi Riba^{a,c,*}, Antoni Rodríguez-Fomells^b, Thomas F. Münte^c, Manel J. Barbanøj^a



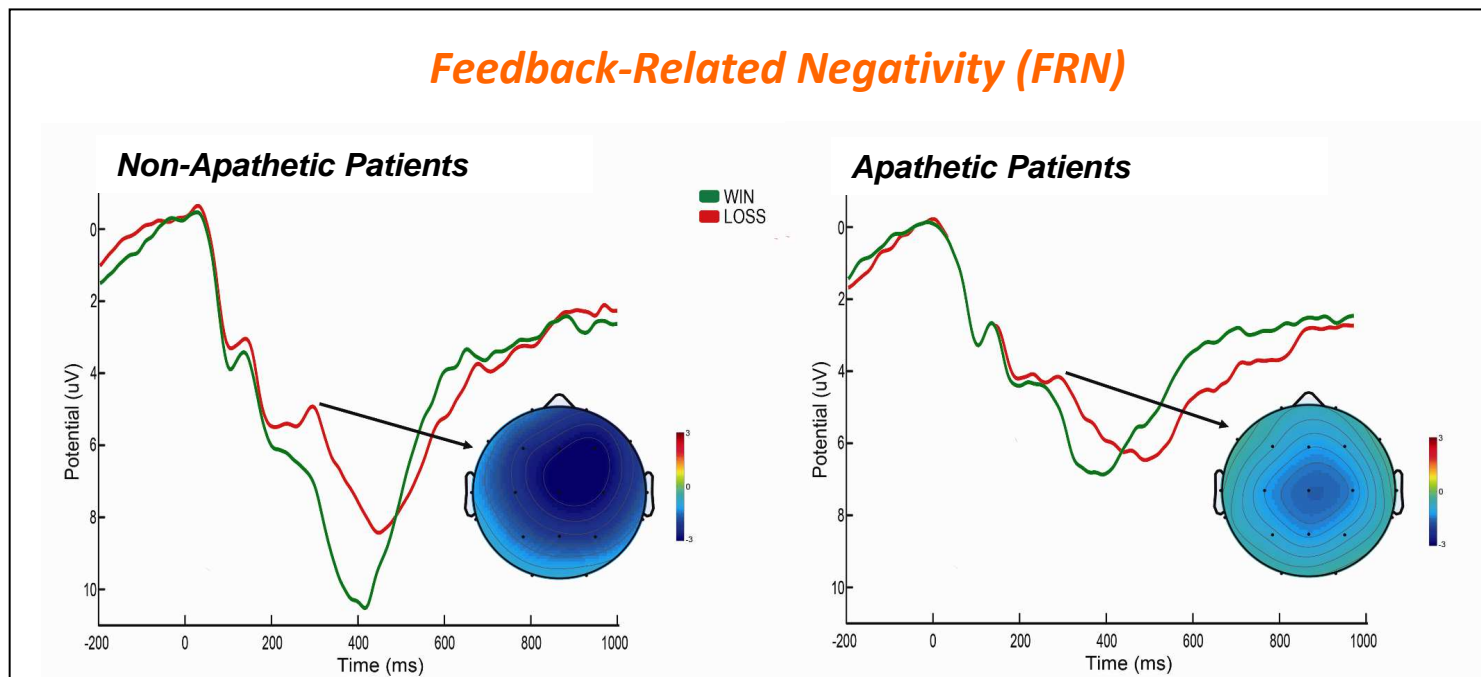
Lines of Research

II. Incentive Processing in Neurologic and Psychiatric Patients

The Journal of Neuroscience, April 23, 2014 • 34(17):5918–5926

Apathy in Parkinson's Disease: Neurophysiological Evidence of Impaired Incentive Processing

Saul Martínez-Horta,^{1,2*} Jordi Riba,^{2,3,4,5*} Ramón Fernández de Bobadilla,^{1,2} Javier Pagonabarraga,^{1,2} Berta Pascual-Sedano,^{1,2} Rosa Maria Antonijoan,^{2,4,5} Sergio Romero,⁷ Miquel Àngel Mañanas,⁷ Carmen García-Sánchez,^{1,2} and Jaime Kulisevsky^{1,2,6}

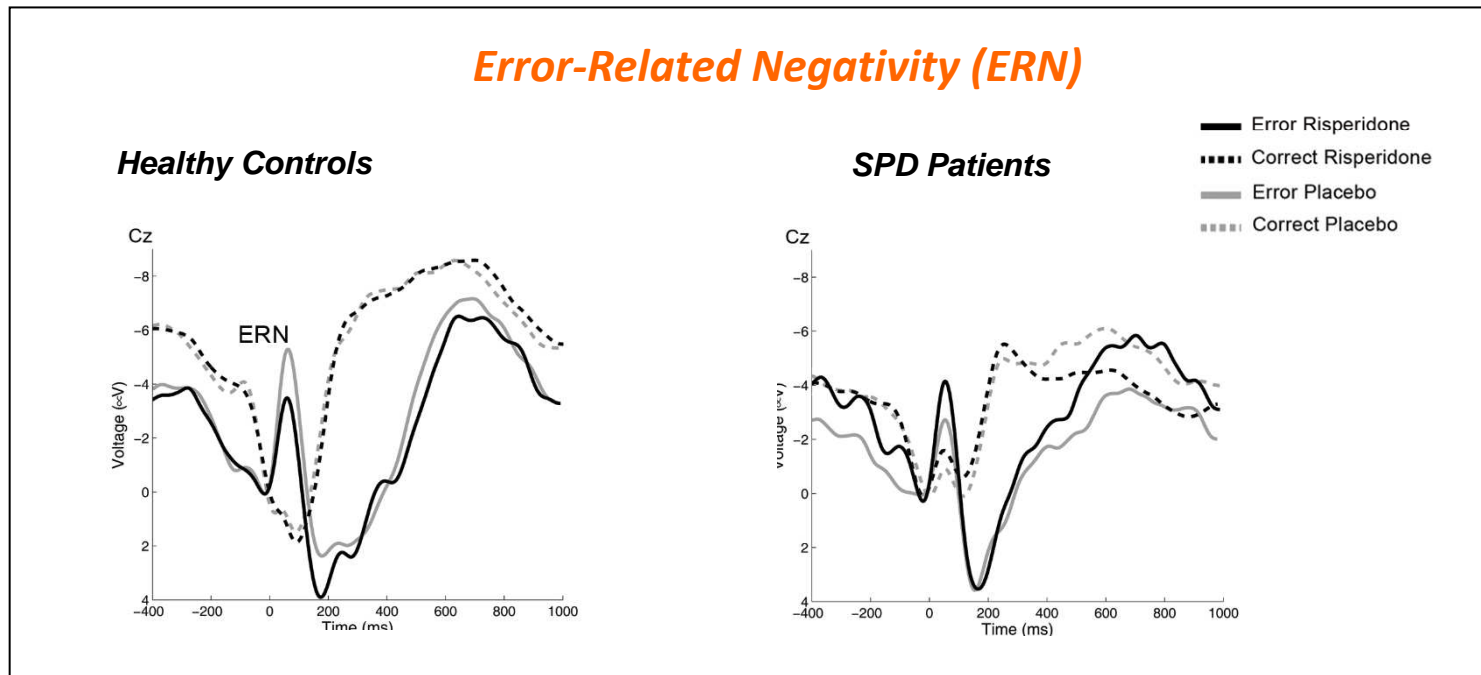


Lines of Research

III. Behavioral Monitoring in Neurologic and Psychiatric Patients



Neurophysiological evidence of impaired self-monitoring in schizotypal personality disorder and its reversal by dopaminergic antagonism



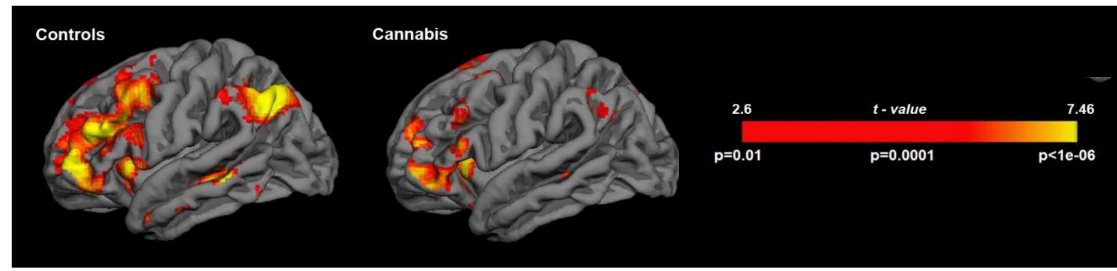
Lines of Research

IV. Drug Abuse: Functional & Structural Brain Alterations

Molecular Psychiatry

Telling true from false: cannabis users show increased susceptibility to false memories

J Riba^{1,2,3}, M Valle^{2,3,4,11}, F Sampedro^{5,11}, A Rodríguez-Pujadas¹, S Martínez-Horta⁶, J Kulisevsky^{6,7} and A Rodríguez-Fornells^{8,9}



Addiction Biology

Cocaine addiction is associated with abnormal prefrontal function, increased striatal connectivity and sensitivity to monetary incentives, and decreased connectivity outside the human reward circuit

L Vaquero, E Cámara, F Sampedro, J Pérez de los Cobos, F Batlle, JM Fábregas, JA Sales, M Cervantes, X Ferrer, G Lazcano, A Rodríguez-Fornells and J Riba

