Claudio Del Percio
CV "ai fini della pubblicazione"

Education (University graduation, PhD, Research fellow and Post-doc grant)

Type	*Year*	*Institution*	*Notes*
University graduation	2000	University of Rome "La Sapienza"	Master degree in Electronic Engineering *Title of thesis:* Analysis of EEG rhythms related to movements
PhD	2005	Department of Physiology and Pharmacology "Erspamer", University of Rome "La Sapienza"	PhD in Neurophysiology *Title of thesis:* Cortical sources of EEG rhythms during physiological and pathological aging
Research fellow	2009-2010	Department of Physiology and Pharmacology "Erspamer", University of Rome "La Sapienza"	Relationships between brain rhythms and cognitive functions in human: toward new biomarkers for clinical applications

Position as scientific consultant

Year	*Institution*	*Description of the research*
2004-2007	SMI - Center for Sensory-Motor Interaction, Aalborg University	Neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during painful and non painful stimulation: an EEG study
2006-2007	Medicine Institute and Sport Science, CONI, Rome	Neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during vigilance and cognitive-motor information processing in elite athletes: an EEG study
2007-2008	IRCSS "Centro S. Giovanni di Dio Fatebenefratelli" di Brescia	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in Alzheimer's disease patients: an EEG study
2011-2015	IRCCS San Raffaele Pisana, Rome	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in patients with neurodegenerative vs. cerebrovascular physiopathological alterations such as Alzheimer's disease, Parkinson's disease, and Stroke: an EEG study
2013	Istituto Clinico Cardiologico, Casalpalocco, Roma	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in patients with alteration of

		brain white matter connectivity such as multiple sclerosis patients: an EEG study
2013	Department of Physiology and Pharmacology “Erspamer”, University of Rome “La Sapienza”	Neurophysiological oscillatory and dynamical mechanisms related to social cognition in epilepsy patients: an intracranial EEG study in intact regions of cerebral cortex
2014-2015	University of Bari “Aldo Moro”	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in Alzheimer’s disease patients: an EEG study
2014-2017	University of Foggia	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in elderly patients with mild cognitive impairment due to neurodegenerative processes: an EEG study
2016-today	IRCCS SDN Napoli	Abnormal neurophysiological oscillatory and dynamical mechanisms related to cortical arousal during low vigilance in elderly patients with mild cognitive impairment due to neurodegenerative processes and infectious processes (HIV): an EEG study

Teaching experience

Year	*Institution*	*Description*
2005-today	Department of Physiology and Pharmacology “Erspamer”, University of Rome “La Sapienza”	Student tutoring during Master Degree in Engineering, Psychology, and Medicine
2008-today	Second Faculty of Medicine and Surgery , University of Rome “La Sapienza”	Teaching of Physiology in the Course of Preventive Techniques for the Environment and Workplace

Academic qualification

Year	*Description*
2004	Honorary fellowship in Physiology (BIO/09)
2014	National academic qualification as Associate Professor of Physiology (Scientific sector 05/D1 – PHYSIOLOGY)

Awards and Honours

Year	*Title*
2002	“Travel award” (500 USA dollars) for the best award at the World Congress Human Brain Mapping (Sendai, Japan)

Funding Information (grants as PI-principal investigator or I-investigator)

Year	*Institution*	*Title*	*PI or I*	*Grant value (Euro)*
2007	Department of Physiology and Pharmacology “Erspamer”, University of Rome “La Sapienza”	Mirror neurons and the neural mechanisms of social intelligence in intractable epilepsy (Italian Ministry of Health; Call for “Young Researchers under 40 years old)	I*	600.000
2008	IRCSS San Raffaele Pisana of Rome	Does rehabilitation with a 10-Hz sensory stimulation improve brain rhythms and cognitive-motor performance in neurological patients? Towards Internet-based clinical applications at subjects' home (Italian Ministry of Health; Call for “Young Researchers under 40 years old)	PI**	410.146

* I = Scientific Responsible of the Research Operative Unit of the Department of Physiology and Pharmacology “Erspamer” in the mentioned project; full responsibility in the conduction of planned research activities, coordination of the hired human resources, and justification of the use of the grant allocated to his Research Operative Unit .

** PI = Scientific Coordinator of the National Consortium formed by three Research Operative Units. Full responsibility in the conduction of planned research activities and justification of the use of the grant allocated to the Consortium in the final report; scientific Responsible of the Research Operative Unit of the IRCSS San Raffaele Pisana of Rome in the mentioned project. Full responsibility in the conduction of planned research activities, coordination of the hired human resources, and justification of the use of the grant allocated to his Research Operative Unit.

Research Activities

Keywords	*Brief description*
Neurophysiological oscillatory and dynamical mechanisms regulating cortical arousal related to vigilance and human cognition in healthy subjects with normal cognitive-motor performances, and investigation of the species-specific features of those mechanisms using primate gray lemurs and mice as control species	Our studies aim at understanding neurophysiological oscillatory and dynamical mechanisms regulating cortical arousal in the cerebral cortex during states of low or moderate vigilance as well as sensory (somatosensory painful and non-painful, visual, and auditory) and cognitive-motor information processing as revealed by the analysis of electroencephalographic (EEG) activity in healthy humans with normal cognitive-motorperformances. In the study of the neurophysiological oscillatory mechanisms, the main focus is on the role of alpha rhythms in the modulation of global cortical excitation and inhibition to maintain the low vigilance over sleep intrusion in the resting state condition and support attention, perception, and memory episodic information

	processes. In other studies in gray lemurs and mice (control species), we demonstrated that alpha rhythms play this role in primates but not in mice.
Neurophysiological oscillatory and dynamical mechanisms regulating cortical arousal related to vigilance and human cognition in healthy subjects with high cognitive-motor performances (elite athletes and professional musicians)	Our studies aim at understanding neurophysiological oscillatory and dynamical mechanisms regulating cortical arousal in the cerebral cortex during states of low or moderate vigilance as well as sensory (visual, and auditory) and cognitive-motor information processing as revealed by the analysis of electroencephalographic (EEG) activity in healthy humans with high cognitive-motor performances such as elite athletes and professional musicians. In the study of the neurophysiological oscillatory mechanisms, the main focus is on the role of alpha rhythms in the modulation of global cortical excitation and inhibition according to the concept of "neural efficiency" defined as the ability of those mechanisms to maintain a low level of excitability in the cortical regions irrelevant for the cognitive-motor task demands or for maintaining the low vigilance over sleep intrusion in the resting state condition. We repeatedly confirmed this hypothesis in most of the different experimental conditions and athletes.
Abnormal neurophysiological oscillatory and dynamical mechanisms regulating cortical arousal related to vigilance and human cognition in patients with cognitive deficits due to different physiopathological processes, and investigation of the species-specific features of those abnormal mechanisms using mice as control species	Our studies aim at understanding how pathological alterations in certain neuromodulatory ascending activating systems (i.e., cholinergic and dopaminergic in Alzheimer's, Parkinson's, and Lewy Bodies diseases) or white matter neuro-communication systems (i.e., HIV, Stroke, Multiple Sclerosis, and Obesity) can affect as a "natural experiment" neurophysiological oscillatory mechanisms regulating cortical arousal in the cerebral cortex during states of low or moderate vigilance or cognitive processes as revealed by the analysis of electroencephalographic (EEG) activity in patients with the mentioned brain-body diseases. The main hypothesis is that abnormalities in those neurophysiological oscillatory and dynamical mechanisms are responsible for a part of cognitive deficits measured in the relative patients by neuropsychological tests. In other studies in mouse models of Alzheimer's disease with mutations of APP and PS1, we demonstrated that abnormalities in alpha rhythms play this role in patients but not in mice. In mice the abnormalities of neurophysiological oscillatory mechanisms are observed in lower frequency bands such as delta and theta, thus confirming the specific functional architecture of those rhythms in patients

Editorial activity and participation at international congresses in the last five years

Year	*Description*
2013-2018	Poster presentations at Alzheimer's Association International Conference (AAIC) 2013-2017 (Boston, 13-18 July 2013; Copenhagen, 12-17 July 2014;

	Washington,18-23 July 2015; Toronto, 24-28 July 2016; London, 16-20 July 2017), Federation of European Neuroscience Societies (FENS) 2014 (Milan, 5-9/07/2014); 1st and 2nd annual scientific meeting Neurologic and Psychiatric Disorders: from synapses to networks, SynaNet (Lisbon, 26-27 January 2017; Lisbon, 17-18 January 2018)
2012-today	Reviewer for International scientific journals: International Journal of Psychophysiology, Transactions on Biomedical Engineering, Psychophysiology, PLOS ONE, and NeuroImage
2018	Guest Editor of Special Issue "EEG-based Biomarkers for Dementia" in Disease Markers

Publications

Product type	*Number*	*Data Base*	*Start*	*End*
Papers [international]	93 (15 as First Author and 5 as Last Author)	Pubmed	2000	2018
Papers [international]	104	Scopus	2000	2018
Book [international]	2	Pubmed	2017	2018

Total Impact factor	343.2
Average Impact factor per Product	3.7
Total Citations (Scopus)	2,870
Average Citations per Product	27.6
Hirsch (H) index (Scopus)	32

Full papers in scientific journals of Neurophysiology and Neuroscience (anonymous peer-reviewed and in journals with impact factors registered in PubMed)

1. Babiloni C, Babiloni F, Carducci F, Cincotti F, ***Del Percio C***, De Pino G, Maestrini S, Priori A, Tisei P, Zanetti O, Rossini PM. Movement-related electroencephalographic reactivity in Alzheimer disease. Neuroimage. 2000 Aug;12(2):139-46; Impact factor (IF): 6.857; citations: 67.
2. Babiloni C, Babiloni F, Carducci F, Cincotti F, Cocozza G, ***Del Percio C***, Moretti DV, Rossini PM. Human cortical electroencephalography (EEG) rhythms during the observation of simple aimless movements: a high-resolution EEG study. Neuroimage. 2002 Oct;17(2):559-72. IF:5.624; citations: 133.
3. Babiloni C, ***Del Percio C***, Babiloni F, Carducci F, Cincotti F, Moretti DV, Rossini PM. Transient human cortical responses during the observation of simple finger movements: a high-resolution EEG study. Hum Brain Mapp. 2003 Nov;20(3):148-57. IF: 6.058; citations: 12.
4. Babiloni C, Babiloni F, Carducci F, Cappa SF, Cincotti F, ***Del Percio C***, Miniussi C, Moretti DV, Rossi S, Sosta K, Rossini PM. Human cortical responses during one-bit short-term memory. A high-resolution EEG study on delayed choice reaction time tasks. Clin Neurophysiol. 2004 Jan;115(1):161-70. IF: 2.538; citations: 53.
5. Babiloni C, Babiloni F, Carducci F, Cappa S, Cincotti F, ***Del Percio C***, Miniussi C, Moretti DV, Pasqualetti P, Rossi S, Sosta K, Rossini PM. Human cortical EEG rhythms during long-term episodic

memory task. A high-resolution EEG study of the HERA model. Neuroimage. 2004 Apr;21(4):1576-84. IF: 4.869; citations: 53.

6. Babiloni C, Miniussi C, Babiloni F, Carducci F, Cincotti F, ***Del Percio C***, Sirello G, Fracassi C, Nobre AC, Rossini PM. Sub-second "temporal attention" modulates alpha rhythms. A high-resolution EEG study. Cognitive Brain Res. 2004 May;19(3):259-68. IF: 2.394; citations: 83.
7. Babiloni C, Binetti G, Cassetta E, Cerboneschi D, Dal Forno G, ***Del Percio C***, Ferreri F, Ferri R, Lanuzza B, Miniussi C, Moretti DV, Nobili F, Pascual-Marqui RD, Rodriguez G, Romani GL, Salinari S, Tecchio F, Vitali P, Zanetti O, Zappasodi F, Rossini PM. Mapping distributed sources of cortical rhythms in mild Alzheimer's disease. A multicentric EEG study. Neuroimage. 2004 May;22(1):57-67. IF: 4.869; citations: 173.
8. Babiloni C, Brancucci A, Arendt-Nielsen L, Babiloni F, Capotosto P, Carducci F, Cincotti F, ***Del Percio C***, Petrini L, Rossini PM, Chen AC. Attentional processes and cognitive performance during expectancy of painful galvanic stimulations: a high-resolution EEG study. Behav Brain Res. 2004 Jun 4;152(1):137-47. IF: 2.992; citations: 37.
9. Babiloni C, Babiloni F, Carducci F, Cappa SF, Cincotti F, ***Del Percio C***, Miniussi C, Vito Moretti D, Rossi S, Sosta K, Rossini PM. Human cortical rhythms during visual delayed choice reaction time tasks. A high-resolution EEG study on normal aging. Behav Brain Res. 2004 Aug 12;153(1):261-71. IF: 2.992.; citations: 34.
10. Babiloni C, Brancucci A, Arendt-Nielsen L, ***Del Percio C***, Babiloni F, Pascual-Marqui RD, Sabbatini G, Rossini PM, Chen AC. Cortical sensorimotor interactions during the expectancy of a go/no-go task: effects of painful stimuli. Behav Neurosci. 2004 Oct;118(5):925-35. IF: 2.819; citations: 21.
11. Babiloni C, Babiloni F, Carducci F, Cincotti F, ***Del Percio C***, Della Penna S, Franciotti R, Pignotti S, Pizzella V, Rossini PM, Sabatini E, Torquati K, Romani GL. Human alpha rhythms during visual delayed choice reaction time tasks: a magnetoencephalography study. Hum Brain Mapp. 2005 Mar;24(3):184-92. IF: 4.317; citations: 22.
12. Babiloni C, Cassetta E, Chiovenda P, ***Del Percio C***, Ercolani M, Moretti DV, Moffa F, Pasqualetti P, Pizzella V, Romani GL, Tecchio F, Zappasodi F, Rossini PM. Alpha rhythms in mild dements during visual delayed choice reaction time tasks: a MEG study. Brain Res Bull. 2005 May 30;65(6):457-70. IF: 2.481; citations: 26.
13. Babiloni C, Binetti G, Cassarino A, Dal Forno G, ***Del Percio C***, Ferreri F, Ferri R, Frisoni G, Galderisi S, Hirata K, Lanuzza B, Miniussi C, Mucci A, Nobili F, Rodriguez G, Luca Romani G, Rossini PM. Sources of cortical rhythms in adults during physiological aging: a multicentric EEG study. Hum Brain Mapp. 2006 Feb;27(2):162-72. IF: 4.888; ; citations: 144.
14. Babiloni C, Benussi L, Binetti G, Bosco P, Busonero G, Cesaretti S, Dal Forno G, ***Del Percio C***, Ferri R, Frisoni G, Ghidoni R, Rodriguez G, Squitti R, Rossini PM. Genotype (cystatin C) and EEG phenotype in Alzheimer disease and mild cognitive impairment: a multicentric study. Neuroimage. 2006 Feb 1;29(3):948-64. IF: 5.559; citations: 56.
15. Babiloni C, Benussi L, Binetti G, Cassetta E, Dal Forno G, ***Del Percio C***, Ferreri F, Ferri R, Frisoni G, Ghidoni R, Miniussi C, Rodriguez G, Romani GL, Squitti R, Ventriglia MC, Rossini PM. Apolipoprotein E and alpha brain rhythms in mild cognitive impairment: a multicentric electroencephalogram study. Ann Neurol. 2006 Feb;59(2):323-34. IF: 8.051; citations: 63.
16. Babiloni C, Binetti G, Cassetta E, Dal Forno G, ***Del Percio C***, Ferreri F, Ferri R, Frisoni G, Hirata K, Lanuzza B, Miniussi C, Moretti DV, Nobili F, Rodriguez G, Romani GL, Salinari S, Rossini PM. Sources of cortical rhythms change as a function of cognitive impairment in pathological aging: a multicenter study. Clin Neurophysiol. 2006 Feb;117(2):252-68. IF: 2.718; citations: 112.
17. ***Del Percio C***, Le Pera D, Arendt-Nielsen L, Babiloni C, Brancucci A, Chen AC, De Armas L, Miliucci R, Restuccia D, Valeriani M, Rossini PM. Distraction affects frontal alpha rhythms related to expectancy of pain: an EEG study. Neuroimage. 2006 Jul 1;31(3):1268-77. IF: 5.559; citations: 34.
18. Babiloni C, Frisoni G, Steriade M, Bresciani L, Binetti G, ***Del Percio C***, Geroldi C, Miniussi C, Nobili F, Rodriguez G, Zappasodi F, Carfagna T, Rossini PM. Frontal white matter volume and delta EEG sources negatively correlate in awake subjects with mild cognitive impairment and Alzheimer's disease. Clin Neurophysiol. 2006 May;117(5):1113-29. IF: 2.718; citations: 105.

19. Babiloni C, Cassetta E, Dal Forno G, ***Del Percio C***, Ferreri F, Ferri R, Lanuzza B, Miniussi C, Moretti DV, Nobili F, Pascual-Marqui RD, Rodriguez G, Luca Romani G, Salinari S, Zanetti O, Rossini PM. Donepezil effects on sources of cortical rhythms in mild Alzheimer's disease: Responders vs. Non-Responders. Neuroimage. 2006 Jul 15;31(4):1650-65. IF: 5.559; citations: 68.
20. Henderson G, Ifeachor E, Hudson N, Goh C, Outram N, Wimalaratna S, ***Del Percio C***, Vecchio F. Development and assessment of methods for detecting dementia using the human electroencephalogram. IEEE T Bio-Med Eng. 2006 Aug;53(8):1557-68. IF: 2.302; citations: 56.
21. Babiloni C, Brancucci A, ***Del Percio C***, Capotosto P, Arendt-Nielsen L, Chen AC, Rossini PM. Anticipatory electroencephalography alpha rhythm predicts subjective perception of pain intensity. J Pain. 2006 Oct;7(10):709-17. IF: 3.120; citations: 51.
22. Rossini PM, ***Del Percio C***, Pasqualetti P, Cassetta E, Binetti G, Dal Forno G, Ferreri F, Frisoni G, Chiovenda P, Miniussi C, Parisi L, Tombini M, Vecchio F, Babiloni C. Conversion from mild cognitive impairment to Alzheimer's disease is predicted by sources and coherence of brain electroencephalography rhythms. Neuroscience. 2006 Dec;143(3):793-803. IF: 3.427; citations: 137.
23. Babiloni C, Brancucci A, Capotosto P, ***Del Percio C***, Romani GL, Arendt-Nielsen L, Rossini PM. Different modalities of painful somatosensory stimulations affect anticipatory cortical processes: a high-resolution EEG study. Brain Res Bull. 2007 Mar 15;71(5):475-84. IF: 1.943; citations: 12.
24. Babiloni C, Bosco P, Ghidoni R, ***Del Percio C***, Squitti R, Binetti G, Benussi L, Ferri R, Frisoni G, Lanuzza B, Cassetta E, Anello G, Gurzì M, Bartesaghi S, Lizio R, Tombini M, Rossini PM. Homocysteine and electroencephalographic rhythms in Alzheimer disease: a multicentric study. Neuroscience. 2007 Mar 30;145(3):942-54. IF: 3.352; citations: 33.
25. Le Pera D, Brancucci A, De Armas L, ***Del Percio C***, Miliucci R, Babiloni C, Restuccia D, Rossini PM, Valeriani M. Inhibitory effect of voluntary movement preparation on cutaneous heat pain and laser-evoked potentials. Eur J Neurosci. 2007 Mar;25(6):1900-7. IF:3.673; citations: 25.
26. Vecchio F, Babiloni C, Ferreri F, Curcio G, Fini R, ***Del Percio C***, Rossini PM. Mobile phone emission modulates interhemispheric functional coupling of EEG alpha rhythms. Eur J Neurosci. 2007 Mar;25(6):1908-13. IF: 3.673; citations: 57.
27. Rodriguez G, Babiloni C, Brugnolo A, ***Del Percio C***, Cerro F, Gabrielli F, Girtler N, Nobili F, Murialdo G, Rossini PM, Rossi DS, Baruzzi C, Ferro AM. Cortical sources of awake scalp EEG in eating disorders. Clin Neurophysiol. 2007 Jun;118(6):1213-22. IF: 2.468; citations: 14.
28. Babiloni C, Squitti R, ***Del Percio C***, Cassetta E, Ventriglia MC, Ferreri F, Tombini M, Frisoni G, Binetti G, Gurzi M, Salinari S, Zappasodi F, Rossini PM. Free copper and resting temporal EEG rhythms correlate across healthy, mild cognitive impairment, and Alzheimer's disease subjects. Clin Neurophysiol. 2007 Jun;118(6):1244-60. IF:2.468; citations: 46.
29. ***Del Percio C***, Brancucci A, Bergami F, Marzano N, Fiore A, Di Ciolo E, Aschieri P, Lino A, Vecchio F, Iacoboni M, Gallamini M, Babiloni C, Eusebi F. Cortical alpha rhythms are correlated with body sway during quiet open-eyes standing in athletes: a high-resolution EEG study. Neuroimage. 2007 Jul 1;36(3):822-9. IF: 5.457; citations: 31.
30. ***Del Percio C***, Marzano N, Tilgher S, Fiore A, Di Ciolo E, Aschieri P, Lino A, Toràn G, Babiloni C, Eusebi F. Pre-stimulus alpha rhythms are correlated with post-stimulus sensorimotor performance in athletes and non-athletes: a high-resolution EEG study. Clin Neurophysiol. 2007 Aug;118(8):1711-20. IF: 2.468; citations: 22.
31. Babiloni C, Cassetta E, Binetti G, Tombini M, ***Del Percio C***, Ferreri F, Ferri R, Frisoni G, Lanuzza B, Nobili F, Parisi L, Rodriguez G, Frigerio L, Gurzì M, Prestia A, Vernieri F, Eusebi F, Rossini PM. Resting EEG sources correlate with attentional span in mild cognitive impairment and Alzheimer's disease. Eur J Neurosci. 2007 Jun;25(12):3742-57. IF: 3.673; citations: 69.
32. ***Del Percio C***, Brancucci A, Vecchio F, Marzano N, Pirritano M, Meccariello E, Padoa S, Mascia A, Giallonardo AT, Aschieri P, Lino A, Palma E, Fiore A, Di Ciolo E, Babiloni C, Eusebi F. Visual event-related potentials in elite and amateur athletes. Brain Res Bull. 2007 Sep 14;74(1-3):104-12. IF: 1.943; citations: 11.

33. Babiloni C, ***Del Percio C***, Iacoboni M, Infarinato F, Lizio R, Marzano N, Crespi G, Dassù F, Pirritano M, Gallamini M, Eusebi F. Golf putt outcomes are predicted by sensorimotor cerebral EEG rhythms. J Physiol. 2008 Jan 1;586(1):131-9. IF: 4.605; citations: 68.
34. Babiloni C, ***Del Percio C***, Brancucci A, Capotosto P, Le Pera D, Marzano N, Valeriani M, Romani GL, Arendt-Nielsen L, Rossini PM. Pre-stimulus alpha power affects vertex N2-P2 potentials evoked by noxious stimuli. Brain Res Bull. 2008 Mar 28;75(5):581-90. IF:2.281; citations: 9.
35. Babiloni C, Frisoni GB, Pievani M, Toscano L, ***Del Percio C,*** Geroldi C, Eusebi F, Miniussi C, Rossini PM. White-matter vascular lesions correlate with alpha EEG sources in mild cognitive impairment. Neuropsychologia. 2008;46(6):1707-20. IF: 4.074; citations: 34.
36. Rossini PM, Buscema M, Capriotti M, Grossi E, Rodriguez G, ***Del Percio C***, Babiloni C. Is it possible to automatically distinguish resting EEG data of normal elderly vs. mild cognitive impairment subjects with high degree of accuracy? Clin Neurophysiol. 2008 Jul;119(7):1534-45. IF: 2.972; citations: 62.
37. Zappasodi F, Salustri C, Babiloni C, Cassetta E, ***Del Percio C***, Ercolani M, Rossini PM, Squitti R. An observational study on the influence of the APOE-epsilon4 allele on the correlation between 'free' copper toxicosis and EEG activity in Alzheimer disease. Brain Res. 2008 Jun 18;1215:183-9. IF:2.496; citations: 29.
38. ***Del Percio C***, Rossini PM, Marzano N, Iacoboni M, Infarinato F, Aschieri P, Lino A, Fiore A, Toran G, Babiloni C, Eusebi F. Is there a "neural efficiency" in athletes? A high-resolution EEG study. Neuroimage. 2008 Oct 1;42(4):1544-53. IF: 5.694; citations: 49
39. Babiloni C, Capotosto P, Brancucci A, ***Del Percio C***, Petrini L, Buttiglione M, Cibelli G, Romani GL, Rossini PM, Arendt-Nielsen L. Cortical alpha rhythms are related to the anticipation of sensorimotor interaction between painful stimuli and movements: a high-resolution EEG study. J Pain. 2008 Oct;9(10):902-11. IF: 3.387; citations: 21.
40. Vecchio F, ***Del Percio C***, Marzano N, Fiore A, Toran G, Aschieri P, Gallamini M, Cabras J, Rossini PM, Babiloni C, Eusebi F. Functional cortico-muscular coupling during upright standing in athletes and nonathletes: a coherence electroencephalographic-electromyographic study. Behav Neurosci. 2008 Aug;122(4):917-27. IF: 2.596, citations: 20.
41. Babiloni C, ***Del Percio C***, Rossini PM, Marzano N, Iacoboni M, Infarinato F, Lizio R, Piazza M, Pirritano M, Berlutti G, Cibelli G, Eusebi F. Judgment of actions in experts: a high-resolution EEG study in elite athletes. Neuroimage. 2009 Apr 1;45(2):512-21. IF: 5.739; citations: 54.
42. Babiloni C, Frisoni GB, ***Del Percio C***, Zanetti O, Bonomini C, Cassetta E, Pasqualetti P, Miniussi C, De Rosas M, Valenzano A, Cibelli G, Eusebi F, Rossini PM. Ibuprofen treatment modifies cortical sources of EEG rhythms in mild Alzheimer's disease. Clin Neurophysiol. 2009 Apr;120(4):709-18. IF: 3.122; citations: 13.
43. ***Del Percio C***, Babiloni C, Bertollo M, Marzano N, Iacoboni M, Infarinato F, Lizio R, Stocchi M, Robazza C, Cibelli G, Comani S, Eusebi F. Visuo-attentional and sensorimotor alpha rhythms are related to visuo-motor performance in athletes. Hum Brain Mapp. 2009 Nov;30(11):3527-40. IF: 6.256; citations: 54.
44. Babiloni C, ***Del Percio C***, De Rosas M, Valenzano A, Vecchio F, Marzano N, Rendina C, Di Santo C, Ciociola L, Lecce B, Mundi C, Eusebi F, Cibelli G. Attentional cortical responses to enlarged faces are related to body fat in normal weight subjects: an electroencephalographic study. Clin Neurophysiol. 2009 May;120(5):922-31. IF: 3.122; citations: 11.
45. ***Del Percio C***, Babiloni C, Marzano N, Iacoboni M, Infarinato F, Vecchio F, Lizio R, Aschieri P, Fiore A, Toràn G, Gallamini M, Baratto M, Eusebi F. "Neural efficiency" of athletes' brain for upright standing: a high-resolution EEG study. Brain Res Bull. 2009 May 29;79(3-4):193-200. IF: 2.184; citations: 57.
46. Babiloni C, ***Del Percio C***, Valenzano A, Marzano N, De Rosas M, Petito A, Bellomo A, Rossi G, Lecce B, Mundi C, Lizio R, Eusebi F, Cibelli G. Frontal attentional responses to food size are abnormal in obese subjects: an electroencephalographic study. Clin Neurophysiol. 2009 Aug;120(8):1441-8. IF: 3.122; citations: 14.

47. ***Del Percio C***, Babiloni C, Infarinato F, Marzano N, Iacoboni M, Lizio R, Aschieri P, Cè E, Rampichini S, Fanò G, Veicsteinas A, Eusebi F. Effects of tiredness on visuo-spatial attention processes in elite karate athletes and non-athletes. Arch Ital Biol. 2009 Mar;147(1-2):1-10. IF: 0.972; citations: 6.
48. Babiloni C, ***Del Percio C***, Iacoboni M, Aschieri P, Infarinato F, Buffo P, Cibelli G, Soricelli A, Marzano N, Eusebi F. Resting State Cortical Rhythms In Athletes: A High-Resolution EEG Study. Brain Res Bull. 2010; 81:149–156. IF: 2.498; citations: 26.
49. Babiloni C, Marzano N, Infarinato F, Iacoboni M, Rizza G, Aschieri P, Cibelli G, Soricelli A, Eusebi F, ***Del Percio C.*** "Neural efficiency" of experts' brain during judgment of actions: a high-resolution EEG study in elite and amateur karate athletes. Behav Brain Res. 2010 Mar 5;207(2):466-75. IF: 3.393; citations: 59.
50. Babiloni C, Capotosto P, ***Del Percio C***, Petrini L, Buttiglione M, Cibelli G, Marusiak J, Romani GL, Arendt-Nielsen L, Rossini PM. Sensorimotor interaction between somatosensory painful stimuli and motor sequences affects both anticipatory alpha rhythms and behavior as a function of the event side. Brain Res Bull. 2010 Mar 16;81(4-5):398-405. IF: 2.498; citations: 10.
51. ***Del Percio C***, Infarinato F, Iacoboni M, Marzano N, Soricelli A, Aschieri P, Eusebi F, Babiloni C. Movement-related desynchronization of alpha rhythms is lower in athletes than non-athletes: a high resolution EEG study. Clin Neurophysiol. 2010 Apr;121(4):482-491. IF: 2.786; citations: 41.
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Book

1. Babiloni C, **Del Percio C**, Bruni I, Perani D. Chapter 9: Empathy of the Musical Brain in Musicians Playing In Ensemble. Music and Empathy by Waddington C and King E. March 2017.

2. Babiloni C, **Del Percio C**, Buján A. Chapter 16: EEG in dementing disorders. “Niedermeyer's Electroencephalography, Basic Principles, Clinical Applications, and Related Fields”, VII editions .Fernando Lopes da Silva and Don Schomer. The Oxford University Press. January 2018

Selected Publications

List of the publications selected for the evaluation.

1) **Del Percio C**, Rossini PM, Marzano N, Iacoboni M, Infarinato F, Aschieri P, Lino A, Fiore A, Toran G, Babiloni C, Eusebi F. Is there a "neural efficiency" in athletes? A high-resolution EEG study. Neuroimage. 2008 Oct 1;42(4):1544-53. IF: 5.694; citations: 48.
2) Babiloni C, **Del Percio C**, Rossini PM, Marzano N, Iacoboni M, Infarinato F, Lizio R, Piazza M, Pirritano M, Berlutti G, Cibelli G, Eusebi F. Judgment of actions in experts: a high-resolution EEG study in elite athletes. Neuroimage. 2009 Apr 1;45(2):512-21. IF: 5.739; citations: 54.
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9) **Del Percio C**, Infarinato F, Marzano N, Iacoboni M, Aschieri P, Lizio R, Soricelli A, Limatola C, Rossini PM, Babiloni C. Reactivity of alpha rhythms to eyes opening is lower in athletes than non-athletes: a high-resolution EEG study. Int J Psychophysiol. 2011 Nov;82(2): 240-7. IF: 2.144; citations: 15.
10) Babiloni C, Infarinato F, Marzano N, Iacoboni M, Dassu F, Soricelli A, Rossini PM, Limatola C, **Del Percio C**. Intra-hemispheric functional coupling of alpha rhythms is related to golfer's performance: a coherence EEG study. Int J Psychophysiol. 2011 Dec;82(3):260-8. IF:2.144; citations: 20.
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Subjects Without Eating Disorders. Clin Neurophysiol. 2013 Jun;124(6):1095-105. IF: 2.979; citations: 3.

12) **Del Percio C**, Triggiani AI, Marzano N, De Rosas M, Valenzano A, Petito A, Bellomo A, Soricelli A, Cibelli G, Babiloni C. Subjects' hypnotizability level affects somatosensory evoked potentials to non-painful and painful stimuli. Clin Neurophysiol. 2013 Jul;124(7):1448-55. IF: 2.979; citations: 5.
13) Babiloni C, **Del Percio C**, Lizio R, Marzano N, Infarinato F, Soricelli A, Salvatore E, Ferri R, Bonforte C, Tedeschi G, Montella P, Baglieri A, Rodriguez G, Famà F, Nobili F, Vernieri F, Ursini F, Mundi C, Frisoni GB, Rossini PM. Cortical sources of resting state electroencephalographic alpha rhythms deteriorate across time in subjects with amnesic mild cognitive impairment. Neurobiol Aging. 2014 Jan;35(1):130-42. IF: 5.013; citations: 20.
14) Babiloni C, **Del Percio C**, Boccardi M, Lizio R, Lopez S, Carducci F, Marzano N, Soricelli A, Ferri R, Triggiani AI, Prestia A, Salinari S, Rasser PE, Basar E, Famà F, Nobili F, Yener G, Emek-Savaş DD, Gesualdo L, Mundi C, Thompson PM, Rossini PM, Frisoni GB. Occipital sources of resting-state alpha rhythms are related to local gray matter density in subjects with amnesic mild cognitive impairment and Alzheimer's disease. Neurobiol Aging. 2015 Feb;36(2):556-70. IF:5.153; citations: 20.
15) Babiloni C, Lizio R, Marzano N, Capotosto P, Soricelli A, Triggiani AI, Cordone S, Gesualdo L, **Del Percio C**. Brain neural synchronization and functional coupling in Alzheimer's disease as revealed by resting state EEG rhythms. Int J Psychophysiol. 2016 May;103:88-102. IF: 2.582. IF: 2.596; citations: 24.
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Luogo e data

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