



UNIVERSITÀ  
DEGLI STUDI  
DELL'AQUILA



DISCAB  
Dipartimento di Scienze  
Cliniche Applicate  
e Biotecnologiche

## CURRICULUM VITAE

PERSONAL INFORMATION	<p>Prof. Michele Ferrara Department of Biotechnological and Applied Clinical Sciences Via Vetoio, Edificio Angelo Camillo De Meis L'Aquila, 67100, Italy <a href="mailto:michele.ferrara@univaq.it">michele.ferrara@univaq.it</a></p>
CURRENT POSITION	Full Professor of Psychobiology and Physiological Psychology (M-PSI/02)
EDUCATION OTHER QUALIFICATIONS	<p>1998: PhD in Psychology, University of Rome "La Sapienza" 1996: Fellow at the Sleep Laboratory of the University of Pennsylvania, School of Medicine at Philadelphia, directed by Prof. David F. Dinges. 1995: Fellow at the Sleep Laboratory of the University of Texas, Southwestern Medical Center at Dallas, directed by Prof. Roseanne Armitage. 1991-2002: Research fellow at the Sleep Laboratory, directed by Prof. Mario Bertini, Department of Psychology, University of Rome "La Sapienza" 1991: Degree with honors in Psychology, University of Rome "La Sapienza" 1981-1986 – M.T. Cicerone Classical Lyceum, Sala Consilina (SA)</p>
ACADEMIC APPOINTMENTS	<p>March 2023-present: member of the Quality Assurance Commission of the Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila September 2022- September 2023: President of the Teaching Area Council (CAD) of Psychology January 2021-present: Director's Delegate for Teaching Activities, Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila January 2021-present: President of the Teaching and Orientation Commission, Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila November 2020: member of the Steering Group of the School of Specialization in Clinical Psychology, University of L'Aquila, as responsible for Educational Continuity Coordination March 2020: appointed by the Rector as member of the Working Group for the coordination of the activation of online learning procedures September 2019: elected President of the Teaching Area Council (CAD) of Psychology for the period 2019/20-2021/22 December 2018: Full Professor at the Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila April 2017: elected President of the Teaching Area Council (CAD) of Psychology</p>



February 2017: appointed Vice-President of the CAD of Psychology January 2017–April 2017: Coordinator of the Master's Degree Course in Applied, Clinical and Health Psychology April 2016: appointed member of the University of L'Aquila Quality Committee (PQA) for 2016-2019 October 2015–February 2016: President of the Erasmus Commission of the Psychology Area 2015 (October)-2016 (December): Vice-President of the Master's Degree Course in Applied, Clinical and Health Psychology; Vice-President of the Master's Degree students' Practices Commission; Member of the Teaching Commission, of the Joint Commission and of the Teaching Commission of the Psychology CAD 2014- Member of the Joint Commission for post-graduate internship activities according to the Ministerial Decree 239/1992 2014- President of the Commission for State Exams for the qualification to the profession of Psychologist 2013-present: Member of the Quality Assurance Group (formerly Review Group) of the CAD of Psychology, Bachelor's degree in Psychological Sciences and Techniques and Master's Degree Course in Clinical, Applied and Intervention Psychology 2013-2015: Member of the Joint Teaching Commission of the Department of Clinical Medicine, Public Health, Life and Environmental Sciences 2012-2015: Vice-President of the Teaching Area Council (CAD) of Psychology 2012-2015: President of the Master's Degree Course in Applied, Clinical and Health Psychology, Department of Clinical Medicine, Public Health, Life and Environmental Sciences, University of L'Aquila 2012-2015: Coordinator of the Psychology and Social Sciences Section of the Department of Clinical Medicine, Public Health, Life and Environmental Sciences, University of L'Aquila 2012: Inaugural speech "The psychological signs of the earthquake: getting back up after a catastrophe" of the Academic year 2011-2012 of the University of L'Aquila 2011 - Member of the Commission rewriting the University of L'Aquila Statute (ex art. 2 paragraph 5 of law 240/2010) 2009-2012: Coordinator of the course in Clinical and Dynamic Psychology of the Master's Degree in Applied, Clinical and Health Psychology, Faculty of Psychology, University of L'Aquila 2008 - Member of the commission for state exams for the qualification to the profession of psychologist 2008–2012: Coordinator of the course in Cognitive Neuroscience of the Master's Degree in Applied, Clinical and Health Psychology, Faculty of Psychology, University of L'Aquila 2008–2012: President of the Master's Degree Course in Applied, Clinical and Health Psychology, Faculty of Psychology, University of L'Aquila 2005 - Moves to the Faculty of Psychology at the University of L'Aquila
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	<p>2002 – Associate Professor in Psychobiology and Physiological Psychology (M-PSI/02), Faculty of Educational Sciences of the University of L'Aquila</p> <p>2002 - Eligibility as Associate Professor in the SSD M-PSI/02</p> <p>2000-2002 - Research fellow (SSD M10B) at the Department of Psychology of the University of Rome "La Sapienza"</p> <p>1999 – Research contract at the Department of Psychology of the University of Rome "La Sapienza"</p> <p>1992 - Research contract from the Istituto Superiore di Sanità</p>
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CLINIC APPOINTMENTS	<p>2001 - Research consultant of the Medicine Department of the Flight Experimental Center of the Italian Air Force, Pratica di Mare Airport, Pomezia (Rome)</p> <p>1993-1999 – Research consultant of the Neuropsychophysiology Department of the Aviation Studies, Research and Experiments Division of the Italian Air Force, Pratica di Mare Airport, Pomezia (Rome)</p> <p>1993 - Qualification to practice as a psychologist in Italy</p>
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TEACHING EXPERIENCE	<p>- Teaching courses at the University of L'Aquila:</p> <p>Bachelor's Degree in PSYCHOLOGICAL SCIENCES AND TECHNIQUES (L-24)</p> <p>1. PHYSIOLOGICAL PSYCHOLOGY (M-PSI/02) 56 HOURS</p> <p>Master's degree in CLINICAL, APPLIED AND INTERVENTION PSYCHOLOGY (LM-51)</p> <p>2. PSYCHOPHYSIOLOGY OF SLEEP (M-PSI/02) 64 HOURS</p> <p>- 2002-today: tutoring of over 100 Bachelor's, Master's and Doctoral theses</p>
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RESEARCH ACTIVITIES

- Author of over 180 publications *in extenso* in indexed and peer-reviewed international journals
- Elected to the Board of the Italian Association of Sleep Medicine (AIMS) for the period 2021-2024
- Elected member of the Scientific Committee of the European Sleep Research Society for the period 2020-2022
- 2020-2025: member of the Scientific Committee of the Italian Society of Medical, Surgical, Aesthetic Dermatology and Sexually Transmitted Diseases (SIDeMaST)
- 2019-present: Member of the Research Commission (Scientific Committee) of the Italian Association of Sleep Medicine (AIMS)
- Member of several national and international societies such as: European Sleep Research Society (ESRS); Federation of European Neuroscience Societies (FENS); Italian Association of Sleep Medicine (AIMS); World Federation Sleep Research Societies (WFSRS)
- Member of the Board of SIRS, Italian Society of Sleep Research (2012)
- 2020: Guest Editor of the Special Issue "Dream Recall and the Brain" for the journal *Brain Sciences*
- 2022: Guest Editor of the Special Issue "Effects of Sleep Deprivation on Cognition, Emotion, and Behavior" for the journal *Brain Sciences*
- Ad hoc Reviewer for the following international journals:  
*Nature Communications; Proceedings of the National Academy of Sciences (PNAS); Journal of Neuroscience; Cerebral Cortex; NeuroImage; Sleep Medicine Reviews; Neurobiology of Stress; Sleep; Scientific Reports; Hippocampus; Cortex; Psychopharmacology; Journal of Sleep Research; Neuropsychology; Sleep Medicine; Neurobiology of Learning and Memory; Brain Research; Current Topics in Medicinal Chemistry; PLoS ONE; International Journal of Psychophysiology; Sleep and Hypnosis; Neurobiology of Sleep and Circadian Rhythms; Aviation, Space and Environmental Medicine; Canadian Journal of Experimental Psychology; Journal of Experimental Psychology: Applied; Biological Psychology; Journal of Psychiatric Research.*
- Reviewer in the evaluation of national and international scientific projects for the following agencies:
  - MIUR (PRIN, FIRB, VQR)
  - Polytechnic of Turin
  - Human Frontiers Science Program (HFSP)
  - The Netherlands Organization for Scientific Research (NWO)
  - The Marsden Fund (New Zealand)
  - Hong Kong Research Grants Council
  - Czech Science Foundation
- Invited Speaker**
  - 2017: "Sleep, emotion regulation and empathy", Symposium "Sleep and Social Psychology"; 18th General Meeting of the European Association of Social Psychology, Granada, Spain
  - 2014: Chairman of the Symposium "Sleep and the social brain", 22nd Congress of the European Sleep Research Society (ESRS), Tallinn, Estonia
  - 2012: Chairman of the Symposium "New approaches to the study of sleep and dreams: tACS and tDCS", 21st Congress of the European Sleep



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	<p>Research Society (ESRS), Paris, France 2012: "Electrophysiological behavior of cortical and subcortical structures at sleep onset and during sleep", in the Symposium "Recording in- and outside of the human brain: what we learn about sleep", 21st Congress of the European Sleep Research Society (ESRS), Paris, France 2012: Department of Psychology, University of Calgary, Canada: "The role of sleep in spatial memory consolidation" 2005: Symposium, 19th Annual Meeting of the Associated Professional Sleep Societies (APSS), Denver, CO, USA: "Slow Wave Sleep Deprivation-Induced Asymmetries In The Human Sleep EEG" 2005: Symposium, 19th Annual Meeting of the Associated Professional Sleep Societies (APSS), Denver, CO, USA: "Relationships Between Delta and Sigma activity: Stability And Heritability" 2003: Institute of Pharmacology and Toxicology, University of Zurich, Switzerland: "Regional differences of the human sleep EEG in response to selective SWS deprivation"</p> <p><b>- Participation in Doctoral Boards</b></p> <p>2016-present: member of the Teaching Board of the PhD in Experimental Medicine, Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila 2013–2015: member of the Teaching Board of the PhD in Health and Environmental Sciences, University of L'Aquila 2012: member of the Teaching Board of the PhD in Translational Medicine, University of L'Aquila 2007–2011: member of the Teaching Board of the PhD in Biochemical Sciences and Neurosciences, University of L'Aquila</p> <p><b>- Main lines of research</b></p> <ol style="list-style-type: none"><li>1. Relationships between sleep and higher cognitive processes (attention, memory, learning, executive functions).</li><li>2. Relationships between sleep and regulation of emotional processes.</li><li>3. Effects of sleep deprivation on cognitive, behavioral, electrophysiological and microstructural sleep variables.</li><li>4. Evaluation of daytime sleepiness due to sleep deprivation or alterations of sleep-wake rhythms and methods to contrast it.</li><li>5. Cortical topography of the sleep and wake EEG.</li><li>6. Sleep inertia: performance and cortical reactivity upon awakening.</li><li>7. Psychophysiology of falling asleep.</li><li>8. Psychophysiological and anatomo-functional correlates of dream activity.</li><li>9. Phasic events and microstructure of normal and pathological sleep.</li><li>10. Effects of Transcranial Stimulation on wakefulness and sleep.</li><li>11. In the late 1990s and early 2000s he perfected a non-invasive technique for selective slow-wave sleep deprivation.</li><li>12. In the second half of the 2000s he co-started a line of research that introduced the study of human hippocampal and neocortical sleep, based on the recording of intracerebral electrical activity with stereo-EEG methods in epileptic patients.</li></ol>
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RESPONSIBILITY IN ACADEMIC ACTIVITIES	- 2006-today: Head of the Laboratory of Sleep Psychophysiology and Cognitive Neuroscience, University of L'Aquila
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	<p>January 2021-present: Director's Delegate for Teaching Activities, Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila</p> <p>January 2021-present: President of the Teaching and Orientation Commission, Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila</p> <p>- March 2023-today: member of the Quality Assurance Commission of the Department of Applied Clinical and Biotechnological Sciences, University of L'Aquila</p>
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<p>EDITORIAL BOARD, EDITORIAL ACTIVITIES, SOCIETY MEMBERSHIP</p>	<ul style="list-style-type: none"><li>- Associate Editor: Frontiers in Sleep - Sleep, Behavior and Mental Health (since 2022)</li><li>- Associate Editor: Brain Sciences (since 2023)</li><li>- Member of the Editorial Board of the following journals: Brain Sciences (since 2020); Journal of Sleep Medicine and Disorders; International Journal of Neurology Research; World Journal of Neurology (until July 2018); World Journal of Radiology (until 2017); International Journal of Brain Science (until 2016)</li><li>- Elected to the Board of the Italian Association of Sleep Medicine (AIMS) for the period 2021-2024</li><li>- Since 2019: Member of the Research Commission (Scientific Committee) of the Italian Association of Sleep Medicine (AIMS)</li><li>- 2020-2025: Member of the Scientific Committee of the Italian Society of Medical, Surgical, Aesthetic Dermatology and Sexually Transmitted Diseases (SIDeMaST)</li><li>- Member of several national and international societies such as: European Sleep Research Society (ESRS); Federation of European Neuroscience Societies (FENS); Italian Association of Sleep Medicine (AIMS); World Federation Sleep Research Societies (WFSRS)</li></ul>
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<p>SCIENTIFIC ACHIEVEMENTS BIBLIOMETRIC INDICATORS</p>	<p><b>Scopus Author ID:</b> 7101722312 <b>Orcid ID:</b> <a href="http://orcid.org/0000-0003-2304-7576">http://orcid.org/0000-0003-2304-7576</a> <b>Web of Science/Publons Researcher ID:</b> AAB-7574-2022 <b>Indicatori Bibliometrici</b></p> <ul style="list-style-type: none"><li>- <b>H-index Scopus:</b> 53 (as 22/02/2024); <b>Total citations Scopus:</b> 9297 (as 22/02/2024)</li><li>- <b>H-index Google Scholar:</b> 64 (as 22/02/2024); <b>Total citations Google Scholar:</b> 15443 (as 22/02/2024)</li><li><b>i10-index:</b> 179</li></ul>
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<p>SELECTED PUBLICATIONS</p>	<ul style="list-style-type: none"><li>• De Gennaro L., Violani C., <b>Ferrara M.</b>, Casagrande M., Bertini M. (1995) Increase of REM duration and decrease of REM latency after a prolonged test of visual attention. <i>International Journal of Neuroscience</i>, 82: 163-168.</li><li>• Porcù S., Bellatreccia A., <b>Ferrara M.</b>, Casagrande M. (1997) Performance, ability to stay awake and tendency to fall asleep during the night after a diurnal sleep with temazepam or placebo. <i>Sleep</i> 20 (7): 535-541.</li><li>• <b>Ferrara M.</b>, De Gennaro L., Bertini M. (1999) Selective slow-wave sleep (SWS) deprivation and SWS rebound: do we need a fixed SWS amount per night? <i>Sleep Research Online</i>, 2 (1): 15-19.</li><li>• <b>Ferrara M.</b>, De Gennaro L., Casagrande M., Bertini M. (1999) Auditory arousal thresholds after selective slow-wave sleep deprivation. <i>Clinical Neurophysiology</i>, 110 (12): 2148-</li></ul>
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- **Ferrara M.**, De Gennaro L., Bertini M. (1999) The effects of slow-wave sleep (SWS) deprivation and time-of-night on behavioral performance upon awakening. *Physiology and Behavior*, 68 (1-2): 55-61.
- **Ferrara M.**, De Gennaro L., Bertini M. (2000) Time course of sleep inertia upon awakening from nighttime sleep with different sleep homeostasis conditions. *Aviation, Space, and Environmental Medicine*, 71 (3): 225-229.
- De Gennaro L., **Ferrara M.** (2000) Sleep deprivation and phasic activity of REM sleep: independence of middle-ear muscle activity from rapid eye movements. *Sleep*, 23 (1): 81-85.
- **Ferrara M.**, De Gennaro L., Casagrande M., Bertini M. (2000) Selective slow-wave sleep deprivation and time-of-night effects on cognitive performance upon awakening. *Psychophysiology*, 37: 440-446.
- **Ferrara M.**, De Gennaro L. (2000) The sleep inertia phenomenon during the sleep-wake transition: theoretical and operational issues. *Aviation, Space, and Environmental Medicine*, 71 (8): 843-848.
- **Ferrara M.**, De Gennaro L., Bertini M. (2000) Voluntary oculomotor performance upon awakening after total sleep deprivation. *Sleep*, 23 (6): 801-811.
- De Gennaro L., **Ferrara M.**, Bertini M. (2000) The spontaneous K-complex during stage 2 sleep: is it the "forerunner" of delta waves? *Neuroscience Letters*, 291: 41-43.
- De Gennaro L., **Ferrara M.**, Urbani L., Bertini M. (2000) Oculomotor impairment after 1 night of total sleep deprivation: a dissociation between measures of speed and accuracy. *Clinical Neurophysiology*, 111 (10): 1771-1778.
- De Gennaro L., **Ferrara M.**, Ferlazzo F., Bertini M. (2000) Slow eye movements and EEG power spectra during wake-sleep transition. *Clinical Neurophysiology*, 111 (12): 2107-2115.
- **Ferrara M.**, De Gennaro L. (2001) How much sleep do we need? *Sleep Medicine Reviews*, 5 (2):155-179. Doi: 10.1053/smrv.2000.0138
- De Gennaro L., **Ferrara M.**, Bertini M. (2001) EEG arousals in normal sleep: variations induced by total and selective slow-wave sleep deprivation. *Sleep*, 24 (6): 673-679.
- **Ferrara M.**, De Gennaro L., Ferlazzo F., Curcio G., Barattucci M., Bertini M. (2001) Auditory evoked responses upon awakening from sleep in human subjects. *Neuroscience Letters*, 310 (2-3): 145-148.
- De Gennaro L., **Ferrara M.**, Bertini M. (2001) The boundary between wakefulness and sleep: quantitative electroencephalographic changes during the sleep onset period. *Neuroscience*, 107 (1): 1-11.
- **Ferrara M.**, De Gennaro L., Curcio G., Cristiani R., Corvasce C., Bertini M. (2002) Regional differences of the human sleep electroencephalogram in response to selective slow-wave sleep deprivation. *Cerebral Cortex*, 12 (7): 737-748. Doi: 10.1093/cercor/12.7.737.
- **Ferrara M.**, De Gennaro L., Ferlazzo F., Curcio G., Cristiani R., Bertini M. (2002) Topographical changes in N1-P2 amplitude upon awakening from recovery sleep after SWS deprivation. *Clinical Neurophysiology*, 113 (8): 1183-1190. Doi: 10.1016/s1388-2457(02)00146-3.
- **Ferrara M.**, De Gennaro L., Curcio G., Cristiani R., Bertini M. (2002) Regional differences of the temporal EEG dynamics during the first 30 minutes of human sleep. *Neuroscience Research*, 44 (1): 83-89. Doi: 10.1016/s0168-0102(02)00085-8.
- **Ferrara M.**, De Gennaro L., Curcio G., Cristiani R., Bertini M. (2002) Interhemispheric asymmetry of human sleep EEG in response to selective slow-wave sleep deprivation. *Behavioral Neuroscience*, 116 (6): 976-981. Doi: 10.1037/0735-7044.116.6.976.
- De Gennaro L., **Ferrara M.** (2003) Sleep spindles: an overview. *Sleep Medicine Reviews*, 7 (5): 423-440.
- Bertini M., De Gennaro L., **Ferrara M.**, Cristiani R., Curcio G., Romei V., Fratello F., Pauri F., Rossini P.M. (2004) Reduction of transcallosal inhibition upon awakening from REM sleep in humans as assessed by transcranial magnetic stimulation. *Sleep*, 27 (5): 875-882. Doi: 10.1093/sleep/27.5.875.
- De Gennaro L., **Ferrara M.**, Vecchio F., Curcio G., Bertini M. (2005) An electroencephalographic fingerprint of human sleep. *NeuroImage*, 26 (1): 114-122. Doi: 10.1016/j.neuroimage.2005.01.020.
- **Ferrara M.**, Curcio G., Fratello F., Moroni F., Marzano C., Pellicciari M.C., De Gennaro L.



- (2006) The electroencephalographic substratum of the awakening. *Behavioral Brain Research*, 167 (2): 237-244. Doi: 10.1016/j.bbr.2005.09.012.
- Curcio G., **Ferrara M.**, De Gennaro L. (2006) Sleep loss, learning capacity and academic performance. *Sleep Medicine Reviews*, 10: 323-337.
  - **Ferrara M.**, Iaria G., De Gennaro L., Guariglia C., Curcio G., Tempesta D., Bertini M. (2006) The role of sleep in the consolidation of route learning in humans: a behavioural study. *Brain Research Bulletin*, 71 (1-3): 4-9. Doi: 10.1016/j.brainresbull.2006.07.015
  - Moroni F., Nobili L., Curcio G., De Carli F., Fratello F., Marzano C., De Gennaro L., Ferrillo F., Cossu M., Francione S., Lo Russo G., Bertini M., **Ferrara M.** (2007) Sleep in the human hippocampus: a stereo-EEG study. *PloS ONE*, 2 (9): e867. doi:10.1371/journal.pone.0000867.
  - **Ferrara M.**, Iaria G., Tempesta D., Curcio G., Moroni F., Marzano C., De Gennaro L., Pacitti C. (2008) Sleep to find your way: the role of sleep in the consolidation of memory for navigation in humans. *Hippocampus*, 18 (8): 844-851. Doi: 10.1002/hipo.20444
  - Moroni F., Nobili L., Curcio G., De Carli F., Tempesta D., Marzano C., De Gennaro L., Mai R., Francione S., Lo Russo G., **Ferrara M.** (2008) Procedural learning and sleep hippocampal low frequencies in humans. *NeuroImage*, 42 (2): 911-918. Doi: 10.1016/j.neuroimage.2008.05.027
  - De Gennaro L., Marzano C., Fratello F., Moroni F., Pellicciari M.C., Ferlazzo F., Costa S., Couyoumdjian A., Curcio G., Sforza E., Malafosse A., Finelli L., Pasqualetti P., **Ferrara M.**, Bertini M., Rossini P.M. (2008) The EEG fingerprint of sleep is genetically determined: A twin study. *Annals of Neurology*, 64: 455-460.
  - Couyoumdjian A., Sdoia S., Tempesta D., Curcio G., Rastellini E., De Gennaro L., **Ferrara M.** (2010) The effects of sleep and sleep deprivation on task switching performance. *Journal of Sleep Research*, 19 (1): 64-70. Doi: 10.1111/j.1365-2869.2009.00774.x.
  - Tempesta D., Couyoumdjian A., Curcio G., Moroni F., Marzano C., De Gennaro L., **Ferrara M.** (2010) Lack of sleep affects the evaluation of emotional stimuli. *Brain Research Bulletin*, 82 (1-2): 104-108. Doi: 10.1016/j.brainresbull.2010.01.014.
  - Marzano C., **Ferrara M.**, Moroni F., De Gennaro L. (2011) Electroencephalographic sleep inertia of the awakening brain. *Neuroscience*, 176: 308-317. Doi: 10.1016/j.neuroscience.2010.12.014.
  - De Gennaro L., Cipolli C., Cherubini C., Marzano C., Curcio G., **Ferrara M.**, Caltagirone C., Spalletta G. (2011) Amygdala and hippocampus volumetry and diffusivity in relation to dreaming. *Human Brain Mapping*, 32: 1458-1470. [2010 Aug 25 Epub ahead of print]. Doi: 10.1002/hbm.21120.
  - Marzano C., **Ferrara M.**, Mauro F., Moroni F., Tempesta D., Cipolli C., De Gennaro L. (2011) Recalling and forgetting dreams: Theta and alpha oscillations during sleep predict subsequent dream recall. *Journal of Neuroscience*, 31 (18): 6674-6683. Doi: 10.1523/JNEUROSCI.0412-11.2011.
  - Nobili L., **Ferrara M.**, Moroni F., De Gennaro L., Lo Russo G., Campus C., Cardinale F., De Carli F. (2011) Dissociated wake-like and sleep-like electro-cortical activity during sleep. *NeuroImage*, 58 (2): 612-619. Doi: 10.1016/j.neuroimage.2011.06.032.
  - **Ferrara M.**, De Gennaro L. (2011) Going local: Insights from EEG and stereo-EEG studies of the human sleep-wake cycle. (Invited Review). *Current Topics in Medicinal Chemistry*, 11 (19): 2423-2437. Doi: 10.2174/156802611797470268.
  - Moroni F., Nobili L., De Carli F., Massimini M., Francione S., Marzano C., Proserpio P., Cipolli C., De Gennaro L., **Ferrara M.** (2012) Slow EEG rhythms and inter-hemispheric synchronization across sleep and wakefulness in the human hippocampus. *NeuroImage*, 60: 497-504. Doi:10.1016/j.neuroimage.2011.11.093.
  - Tempesta D., Mazza M., Iaria G., De Gennaro L., **Ferrara M.** (2012) A specific deficit in spatial memory acquisition in post-traumatic stress disorder and the role of sleep in its consolidation. *Hippocampus*, 22 (5): 1154-1163. Doi: 10.1002/hipo.20961. Epub 2011 Jul 7.
  - **Ferrara M.**, Moroni F., De Gennaro L., Nobili L. (2012) Hippocampal sleep features: relations to human memory function. *Frontiers in Neurology*, 3: 57. Doi: 10.3389/fneur.2012.00057.
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