

UR2NF MEMBERS' PUBLICATIONS

(also available at <http://dev.ulb.ac.be/ur2nf>)

A. ARTICLES (PEER-REVIEWED)

2014

1. Deliens G, Bertels J, Peigneux P and Destrebecqz A (s.d.) The Brussels Mood Inductive Audio Stories (MIAS) Database. Behavior Research Methods
2. Deliens G, Gilson M, and Peigneux P (s.d.) Sleep and the processing of emotions. Experimental Brain Research [Review]
3. Deliens G, Schmitz R, and Peigneux P (s.d.) Interocular transfer of perceptual skills after sleep. Journal of Vision
4. Galer S, Schmitz R, de Tiège X, Van Bogaert T and Peigneux P (s.d.) Response-Stimulus Interval Duration Modulates Interference in the Stroop Task both in Children and Adults Psychologica Belgica

2013

5. Mary A, Schreiner S and Peigneux P (2013) Accelerated long-term forgetting in aging and intra-sleep awakenings Frontiers in Psychology 4:750 doi: 10.3389/fpsyg.2013.00750
6. Deliens G and Peigneux P (2013) One night of sleep is insufficient to achieve sleep-to-forget emotional decontextualization processes Cognition and Emotion doi: 10.1080/02699931.2013.844105
7. Urbain C, Houyoux E, Albouy G and Peigneux P (s.d.) Consolidation through the looking-glass: sleep-dependent proactive interference on visuomotor adaptation in children Journal of Sleep Research doi: 10.1111/jsr.12082
8. Urbain C, Bourguignon M, Op de Beeck, Schmitz R, Galer S, Wens V, Marty B, de Tiège X, Van Bogaert P and Peigneux P (2013) MEG Correlates of Learning Novel Objects Properties in Children PLoS One 8(7) e69696. doi: 10.1371/journal.pone.0069696
9. Rauchs G, Carrier J and Peigneux P (to appear) Sleep and Cognition in the Elderly. Front Neurol, 4, 71. doi: 10.3389/fneur.2013.00071
10. Deliens, G., Leproult, R., Neu, D., & Peigneux, P. (2013). Rapid eye movement and non-rapid eye movement sleep contributions in memory consolidation and resistance to retroactive interference for verbal material. Sleep, 36(12), 1875-1883. doi:10.5665/sleep.3220

11. Urbain C, Schmitz R, Schmitz C, Cleeremans A, Van Bogaert P, Maquet P and Peigneux P (to appear) Sleep-Dependent Neurophysiological Processes in Probabilistic Sequence Learning *Journal of Cognitive Neuroscience* doi: 10.1162/jocn_a_00439
12. Deliens G, Leproult R, Neu D and Peigneux P (to appear) Rapid-eye-movement sleep does not seem to unbind memories from their emotional context *Journal of Sleep Research* 22(6), 656-662 doi: 10.1111/jsr.12065
13. Deliens, G., Schmitz, R., Caudron, I. C., Mary, A., Leproult, R., & Peigneux, P. (2013). Does recall after sleep-dependent memory consolidation reinstate sensitivity to retroactive interference? *PloS one*, 8(7), e68727. doi:10.1371/journal.pone.0068727
14. Campanella, S., Peigneux, P., Petit, G., Lallemand, F., Saeremans, M., Noël, X., Metens, T., Nouali, M., De Tiege, X., De Witte, P., Ward, R., & Verbanck, P. (2013, avril). Increased cortical activity in binge drinkers during working memory task: A preliminary assessment through a functional magnetic resonance imaging study. *PloS one*, 8(4), e62260. doi:10.1371/journal.pone.0062260
15. Deliens, G., Schwartz, S., & Peigneux, P. (2013, décembre). Don't count your chickens before they're hatched: Elaborative encoding in REM dreaming in face of the physiology of sleep stages. *Behavioral and brain sciences*, 36(6), 613-614. doi:10.1017/S0140525X1300126X
16. Urbain C, Galer S, Van Bogaert T and Peigneux P (to appear) Pathophysiology of Sleep-Dependent Memory Consolidation Processes in Children [Review]. Special Issue: Psychophysiology and Cognitive Neurosciences of Sleep and Sleep Disorders. *International Journal of Psychophysiology (INTPSY)* doi: 10.1016/j.ijpsycho.2013.06.022
17. Wens V, Mary A, Bourguignon M, Goldman S, Marty B, Op de Beeck M, Van Bogaert P, Peigneux P, Brookes MJ, De Tiège X (accepted) About the electrophysiological basis of resting state networks. *Clinical Neurophysiology* doi: <http://dx.doi.org/10.1016/j.clinph.2013.11.039>
18. Penzel T, Pevernagie D, Bassetti C, Berg S, Cirignotta F, D'Ortho M-P, Dogas Z, Espie C, García-Borreguero D, de Lacy S, Lévy P, Nobili L, Paiva T, Peigneux P, Pollmächer T, Riemann D, Rodenbeck A, Skene D, Zucconi M (2013) Catalogue of Knowledge and Skills for Sleep Medicine *Journal of Sleep Research* doi: 10.1111/jsr.12095
19. Deliens, G., Gilson, M., Schmitz, R., & Peigneux, P. (2013). Sleep unbinds memories from their emotional context. *Cortex*. doi:pii: S0010-9452(12)00333-4. 10.1016/j.cortex.2012.11.014

20. Campanella, S., Bourguignon, M., Peigneux, P., Metens, T., Nouali, M., Goldman, S., Verbanck, P., & De Tiege, X. (2013, janvier). BOLD response to deviant face detection informed by P300 event-related potential parameters: A simultaneous ERP-fMRI study. *NeuroImage*. doi:10.1016/j.neuroimage.2012.12.077
21. Nonclercq A, Urbain C, Verheulpen D, Van Bogaert P, Decaestecker C and Peigneux P (2013) Sleep spindle detection through amplitude-frequency normal modelling. *Journal of Neuroscience Methods*, 214(2), 192-203

2012

22. Peigneux, P., & Bassetti, C. (2012, décembre). Global and local actions in the sleep domain: the ESRS perspective. *Journal of sleep research*, 21(6), 725. doi:10.1111/jsr.12016
23. Schmitz, R., Pasquali, A., Cleeremans, A., & Peigneux, P. (2012, novembre). Lateralized implicit sequence learning in uni- and bi-manual conditions. *Brain and cognition*, 81(1), 1-9. doi:10.1016/j.bandc.2012.09.002
24. Schmitz, R., Dehon, H., & Peigneux, P. (2012, juin). Lateralized processing of false memories and pseudoneglect in aging. *Cortex*. doi:10.1016/j.cortex.2012.06.005
25. Schmidt, C., Peigneux, P., Cajochen, C., & Collette, F. (2012, mai). Adapting test timing to the sleep-wake schedule: effects on diurnal neurobehavioral performance changes in young evening and older morning chronotypes. *Chronobiology international*, 29(4), 482-490. doi:10.3109/07420528.2012.658984
26. Aparicio, M., Peigneux, P., Charlier, B., Neyrat, C., & Leybaert, J. (2012, février). Early experience of Cued Speech enhances speechreading performance in deaf. *Scandinavian journal of psychology*, 53(1), 41-46. doi:10.1111/j.1467-9450.2011.00919.x
27. Van Bogaert, P., Urbain, C., Galer, S., Ligot, N., Peigneux, P., & De Tiege, X. (2012, janvier). Impact of focal interictal epileptiform discharges on behaviour and cognition in children. *Neurophysiologie clinique*, 42(1-2), 53-58. doi:10.1016/j.neucli.2011.11.004
28. Massat, I., Slama, H., Kavec, M., Linotte, S., Mary, A., Balériaux, D., Metens, T., Mendlewicz, J., & Peigneux, P. (2012). Working memory-related functional brain patterns in never medicated children with ADHD. *P L o S One*, 7(11), e49392. doi:10.1371/journal.pone.0049392.
29. Harand, C., Bertran, F., La Joie, R., Landeau, B., Mézenge, F., Desgranges, B., Peigneux, P., Eustache, F., & Rauchs, G. (2012). The hippocampus

- remains activated over the long term for the retrieval of truly episodic memories. *PLoS One*, 7(8), e43495. doi:10.1371/journal.pone.0043495
30. Schmidt, C., Peigneux, P., & Cajochen, C. (2012). Age-related changes in sleep and circadian rhythms: impact on cognitive performance and underlying neuroanatomical networks. *Frontiers in neurology*, 3, 118. doi:10.3389/fneur.2012.00118
31. Schmidt, C., Peigneux, P., Leclercq, Y., Sterpenich, V., Vandewalle, G., Phillips, C., Berthomier, P., Berthomier, C., Tinguely, G., Gais, S., Schabus, M., Desseilles, M., Dang-Vu, T., Salmon, E., Degueldre, C., Balteau, E., Luxen, A., Cajochen, C., Maquet, P., & Collette, F. (2012). Circadian preference modulates the neural substrate of conflict processing across the day. *PLoS One*, 7(1), e29658. doi:10.1371/journal.pone.0029658
32. Collet, G., Schmitz, R., Urbain, C., Leybaert, J., Colin, C., & Peigneux, P. (2012). Sleep may not benefit learning new phonological categories. *Frontiers in neurology*, 3, 97. doi:10.3389/fneur.2012.00097

2011

33. De Weer, A.-S., Da Ros, M., Berré, J., Melot, C., Goldman, S., & Peigneux, P. (2011, décembre). Environmental influences on activity patterns in altered states of consciousness. *European journal of neurology*, 18(12), 1432-1434. doi:10.1111/j.1468-1331.2011.03477.x
34. Urbain, C., Di Vincenzo, T., Peigneux, P., & Van Bogaert, P. (2011, octobre). Is sleep-related consolidation impaired in focal idiopathic epilepsies of childhood? A pilot study. *Epilepsy & behavior*, 22(2), 380-384. doi:10.1016/j.yebeh.2011.07.023
35. Schmitz, R., & Peigneux, P. (2011, août). Age-related changes in visual pseudoneglect. *Brain and cognition*, 76(3), 382-389. doi:10.1016/j.bandc.2011.04.002
36. Dauvilliers, Y., Yves, D., Boudousq, V., Vincent, B., Lopez, R., Regis, L., Gabelle, A., Audrey, G., De Cock, V. C., Valérie, C. D. C., Bayard, S., Sophie, B., Peigneux, P., & Philippe, P. (2011, mai). Increased perfusion in supplementary motor area during a REM sleep behaviour episode. *Sleep Medicine*, 12(5), 531-532. doi:10.1016/j.sleep.2011.02.003
37. Ligot, N., Krystkowiak, P., Simonin, C., Goldman, S., Peigneux, P., Van Naemen, J., Monclus, M., Lacroix, S. F., Devos, D., Dujardin, K., Delmaire, C., Bardinnet, E., Delval, A., Delliaux, M., Defebvre, L., Yelnik, J., Blond, S., Destée, A., & De Tiege, X. (2011, janvier). External globus pallidus stimulation modulates brain connectivity in Huntington's disease.

- Journal of cerebral blood flow and metabolism, 31(1), 41-46.
doi:10.1038/jcbfm.2010.186
38. Neu, D., Kajosch, H., Peigneux, P., Verbanck, P., Linkowski, P., & Le Bon, O. (2011). Cognitive impairment in fatigue and sleepiness associated conditions. *Psychiatry research*, 189(1), 128-134.
doi:10.1016/j.psychres.2010.12.005
39. Orban, P., Peigneux, P., Lungu, O., Debas, K., Barakat, M., Bellec, P., Benali, H., Maquet, P., & Doyon, J. (2011, janvier). Functional neuroanatomy associated with the expression of distinct movement kinematics in motor sequence learning. *Neuroscience*.
doi:10.1016/j.neuroscience.2011.01.040
40. Neu, D., Montana, X., Gilson, M., Sentissi El Drissi, O., Mairesse, O., Peigneux, P., Linkowski, P., Le Bon, O., & Verbanck, P. (2011). Relationships between affective symptoms, psychomotor performance, vigilance impairment and sleep quality in pure chronic fatigue. *European neuropsychopharmacology*, 21(3), 343-344.
41. Slama, H., Mary, A., Mousty, P., Massat, I., & Peigneux, P. (2011). Theory of mind and ADHD. *ADHD in practice*, 3(4), 4-7.
42. Schmitz, R., Deliens, G., Mary, A., Urbain, C., & Peigneux, P. (2011). Selective modulation of attentional asymmetries after sleep deprivation. *Neuropsychologia*, 49(12), 3351-3360.

2010

43. Schmidt C, Peigneux P, Maquet P, and Philipps C (2010) Response to Comment on "Homeostatic sleep pressure and responses to sustained attention in the suprachiasmatic area" *Science* 328(5976), 309.
44. Destrebecqz A., Perruchet P, Cleeremans A, Laureys S, Maquet P and Peigneux P (2010) The influence of temporal factors on automatic priming and conscious expectancy in a simple reaction time task *Quarterly Journal of Experimental Psychology*, 1-19
45. Orban P, Peigneux P, Lungu O, Albouy G, Breton E, Laberrenne G, Benali H, Maquet P and Doyon J (2010). The Multifaceted Nature of the Relationship between Performance and Brain Activity in Motor Sequence Learning *Neuroimage* 49(1): 694-702

2009

46. Mary, A., Slama, H., & Massat I. (2009). La théorie de l'esprit dans le trouble de l'attention avec ou sans hyperactivité (TDA-H). In *Cahiers critiques de*

thérapie familiale et de pratiques de réseaux : Biologie et psychothérapie.
Bruxelles : De Boeck Université. N° 43, p.169-185

47. Bassetti C, Amici R, Lévy P, Peigneux P, Skene D, Riemann D, Pevernagie D, Pollmacher T (2009) Sleep research, sleep medicine ... and the European Sleep Research Society. *Public Service Review: Science and Technology* (4), 265-267.
48. Schmidt C, Collette F, Leclercq Y, Sterpenich V, Vandewalle G, Berthomier P, Berthomier C, Philipps C, Tinguely G, Darsaud A, Gais S, Schabus M, Desseilles M, DangVu TT, Salmon E, Balteau E, Degueldre C, Luxen A, Maquet P, Cajochen C, and Peigneux P (2009) Homeostatic sleep pressure and responses to sustained attention in the suprachiasmatic area *Science* 324(5926),516-9
49. Van Opstal P., Fias W, Peigneux P, and Verguts T (2009) The neural representation of extensively trained ordered sequences *NeuroImage* 47(1), 367-375
50. Noirhomme Q, Boly M, Bonhomme V, Boveroux P, Phillips C, Peigneux P, Soddu A, Luxen A, Moonen G, Maquet P and Laureys S (2009) Bispectral Index correlates with regional cerebral blood flow during sleep in distinct cortical and subcortical structures in humans *Archives Italiennes de Biologie* 147, 51-57
51. Schmitz R, Schabus M, Perrin F, Luxen A, Maquet P and Peigneux P (2009) Recurrent boosting effects of short inactivity delays on performance: an ERPs study *BMC Research Notes* 2, 170

2008

52. Boly M, Faymonville ME, Schnakers C, Peigneux P, Lambermont B, Phillips C, Lancellotti P, Luxen A, Lamy M, Moonen G, Maquet P, Laureys S (2008) Perception of pain in the Minimally Conscious State – a PET activation study *Lancet Neurology* 7(11): 1013-1020
53. Hotermans C and Peigneux P, Maertens de Noordhout A, Moonen G, Maquet P (2008) Repetitive transcranial magnetic stimulation over the primary motor cortex disrupts early boost but not delayed gains in performance in motor sequence learning *European Journal of Neuroscience* 28(6)1216-1221
54. Rauchs G, Orban P, Schmidt C, Albouy G, Balteau E, Degueldre C, Schnakers C, Sterpenich V, Tinguely G, Luxen A, Maquet P and Peigneux P (2008) Sleep modulates the neural substrates of both spatial and contextual memory consolidation *PLoS One*3(8): e2949

55. Rauchs G, Orban P, Balteau E, Schmidt C, Degueldre C, Luxen A, Maquet P and Peigneux P (2008) Partially segregated neural networks for spatial and contextual memory in virtual navigation Hippocampus 18(5), 503-518
56. Chatelle C, Vanhauzenhuysse A, Mergam AN, De Val M, Majerus S, Boly M, Bruno MA, Boveroux P, Demertzi A, Gosseries O, Ledoux D, Peigneux P, Salmon E, Moonen G, Faymonville ME, Laureys S, Schnakers C. (2008) [Pain assessment in non-communicative patients] (French) Revue Médicale de Liège 63(5-6), 429-437
57. Boly M, Philips C, Balteau E, Schnakers C, Degueldre C, Moonen G, Luxen A, Peigneux P, Faymonville M-E, Maquet P, Laureys S (2008) Consciousness and cerebral baseline activity fluctuations Human Brain Mapping 29(7), 868-874
58. Albouy G, Sterpenich V, Balteau E, Vandewalle G, Desseilles M, Dang-Vu T, Darsaud A, Ruby P, Luppi P-H, Degueldre C, Peigneux P, Luxen A, Maquet P (2008) Both the Hippocampus and Striatum Are Involved in Consolidation of Motor Sequence Memory. Neuron 58(2), 261-272
59. Schnakers, C., Majerus, S., Goldman, S., Boly, M., Van Eeckhout, P., Gay, S., Pellas, F., Bartsch, V., Peigneux, P., Moonen, G., Laureys, S. (2008) Cognitive function in the locked-in syndrome Journal of Neurology 255,323-330

2007

60. Boly, M., Balteau, E., Schnakers, C., Degueldre, C., Moonen, G., Luxen, A., Phillips, P., Peigneux, P., Maquet, P., Laureys, S. (2007) Baseline brain activity fluctuations predict somatosensory perception in humans PNAS USA 104(29), 12187-12192
61. Gais S, Albouy G, Boly M, Dang-Vu TT, Darsaud A, Desseilles M, Rauchs G, Schabus M, Sterpenich V, Vandewalle G, Maquet P and Peigneux P (2007) Sleep transforms the cerebral trace of declarative memories Proc Natl Acad Sci U S A 104(47): 18778-83
62. Garraux G, Peigneux P, Carson RE and Hallett M (2007) Task-Related Interaction Between Basal Ganglia and Cortical Dopamine Release Journal of Neuroscience 27(52), 14434-14441
63. Hotermans, C., Peigneux, P., Moonen, G., Maertens de Noordhout, A., Maquet, P. (2007) Therapeutic use of high frequency repetitive transcranial magnetic stimulation in stroke. Stroke 38(2), 253
64. Peigneux P, Schmitz R, and Willems S (2007) Cerebral asymmetries in sleep-dependent processes of memory consolidation Learning and Memory 14:400-406

65. Schmidt C, Collette C, Cajochen C and Peigneux P (2007) A time to think: circadian rhythms in human cognition [Review] Cognitive Neuropsychology 24(7):755 - 789

2006

66. Orban P, Rauchs G, Balteau E, Degueldre C, Luxen A, Maquet P, Peigneux P (2006) Sleep after spatial learning promotes covert reorganization of brain activity PNAS USA 103(8): 7124-7129
67. Peigneux P, Orban P, Balteau E, Degueldre C, Luxen A, Laureys S, Maquet P (2006). Offline Persistence of Memory-Related Cerebral Activity during Active Wakefulness. PLoS Biology 4(4): e100
68. Hotermans, C., Peigneux, P., Maertens de Noordhout, A., Moonen, G., Maquet, P. (2006) Early boost and slow consolidation in motor skill learning Learning and Memory, 13(5), 580-583
69. Schmidt C., Peigneux P., Muto V., Schenkel M., Knoblauch V., Munch M., De Quervain DJ, Wirz-Justice A., and Cajochen C. (2006). Encoding difficulty promotes postlearning changes in sleep spindle activity during napping. Journal of Neuroscience, 26(35), 8976-8982
70. Vandewalle, G., Balteau, E., Phillips, C., Degueldre, C., Moreau, V., Sterpenich, V., Albouy, G., Darsaud, A., Deseilles, M., Dang-Vu, T., Peigneux, P., Luxen, A., Dijk, D.J. , Maquet, P. (2006) Daytime light dynamically enhances brain responses Current Biology 16(16), 1616-1621
71. Deseilles, M., Dang Vu T.T., Laureys, S., Peigneux, P., Degueldre, C., Phillips, C., Maquet, P. (2006) A prominent role for amygdaloid complexes in the Variability in Heart Rate (VHR) during Rapid-Eye-Movement (REM) sleep, relative to wakefulness. NeuroImage 32(3): 1008-15
72. Albouy, G., Ruby, P., Phillips, C., Luxen, A., Peigneux, P., Maquet, P. (2006) Implicit oculomotor sequence learning in humans: Time course of offline processing. Brain Research, 1090(1), 163-171
73. Dang-Vu, TT, Deseilles, M, Peigneux, P, and Maquet, P (2006) A role for sleep in brain plasticity Pediatric Rehabilitation 9(2), 98-118

2005

74. Boly M, Faymonville ME, Peigneux P, Lambermont B, Damas F, Luxen A, Lamy M, Moonen G, Maquet P, Laureys S (2005) Cerebral processing of auditory and noxious stimuli in severely brain injured patients: differences between VS and MCS. Neuropsychological Rehabilitation, 15, 283-289

75. Dang-Vu TT, Desseilles M, Laureys S, Degueldre C, Perrin F, Phillips C, Maquet P, Peigneux P (2005) Cerebral correlates of Delta waves during non-REM sleep revisited NeuroImage, 28(1), 14-21
76. Destrebecqz A and Peigneux P, Laureys S, Degueldre C, Del Fiore G, Aerts J, Luxen A, Van der Linden M, Cleeremans A, Maquet P (2005) The Neural Correlates of Implicit and Explicit Sequence Learning: Interacting Networks Revealed by the Process Dissociation Procedure. Learning and Memory, 12(5),480-490
77. Destrebecqz A and Peigneux P (2005) Methods for studying unconscious learning. S. Laureys (Ed.) The Boundaries of Consciousness: Neurobiology and Neuropathology. Progress in Brain Research, 150, 69-80
78. Maquet P, Ruby P, Maudoux A, Albouy G, Sterpenich V, Dang-Vu T, Desseilles M, Boly M, Perrin F, Peigneux P and Laureys S (2005) Human cognition during REM sleep and the activity profile within frontal and parietal cortices. A reappraisal of functional neuroimaging data. S. Laureys (Ed.) The Boundaries of Consciousness: Neurobiology and Neuropathology. Progress in Brain Research,150, 217-226
79. Peigneux P., Destrebecqz A., Hotermans C., Cleeremans A. (2005) Filling one gap by creating another one: Memory stabilization is not all-or-nothing either. [Commentary on Walker MP, A refined model of sleep and the time course of memory formation] Behavioral and Brain Sciences, 28(1), 78
80. Peigneux P, Laureys S, Maquet P (2005) Mémoire et Sommeil. Apports de l'Imagerie Fonctionnelle. [Review] Neurology News 4(1), 17-25
81. Perrin F, Maquet P, Peigneux P, Ruby P, Degeuldre C, Balteau E, Del Fiore G, Moonen G, Luxen A, Laureys S (2005) Neural mechanisms involved in the detection of our first name: a combined ERPs and PET study. Neuropsychologia, 43, 12-19

2004

82. Boly M, Faymonville ME, Peigneux P, Lambermont B, Damas P, Del Fiore G, Degueldre C, Franck G, Luxen A, Lamy M, Moonen G, Maquet P, Laureys S (2004) Auditory processing in severely brain injured patients: differences between the minimally conscious state and the persistent vegetative state. Archives of Neurology, 61, 233-238
83. Laureys S, Faymonville ME, De Tieghe X, Peigneux P, Berre J, Moonen G, Goldman S, Maquet P. (2004) Brain function in the vegetative state. Advances in Experimental Medicine and Biology, 550:229-38.

84. Maquet P, Ruby P, Schwartz S, Laureys S, Albouy G, Dang-Vu T, Desseilles M, Boly M, Peigneux P (2004) Regional organization of brain activity during paradoxical sleep (PS). Arch Ital Biol 142(4), 413-9
85. Maquet P, Laureys S, Perrin F, Ruby P, Melchior G, Boly M, Vu TD, Desseilles M, Peigneux P. (2003) Festina lente: evidences for fast and slow learning processes and a role for sleep in human motor skill learning. Learning & Memory,10(4), 237-239.
86. Peigneux P and Laureys S, Fuchs S, Collette F, Perrin F, Reggers J, Phillips C, Degueldre C, Del Fiore G, Aerts J, Luxen A, Maquet P (2004) Are spatial memories strengthened in the human hippocampus during slow wave sleep? Neuron 44, 535-545.
87. Peigneux P. (2004) Cognition in Slumberland. Introduction to the Special Issue. Psychologica Belgica, 44(1-2), 1-3.
88. Peigneux P., Melchior G., Schmidt C., Dang-Vu T., Boly M., Laureys S., Maquet P. (2004) Memory processing in sleep. Mechanisms and evidences from neuroimaging studies. Psychologica Belgica, 44(1-2), 121-142.
89. Peigneux P., Van der Linden M., Garraux G., Laureys S., Degueldre C., Aerts J., Del Fiore G., Moonen G., Luxen A., Salmon E. (2004) Imaging a cognitive model of apraxia. The neural substrate of gesture-specific processes. Human Brain Mapping, 21(3) 119-142.
90. Perrin F, Peigneux P, Fuchs S, Verhaeghe S, Laureys S, Middleton B, Degueldre C, Del Fiore G, Vandewalle G, Balteau E, Poirrier R, Moreau V, Luxen A, Maquet P, Dijk D-J (2004) Non-visual responses to light exposure in the human brain during the circadian night. Current Biology, 14(20), 1842-1846

2003

91. Destrebecqz A, Peigneux P, Laureys S, Degueldre C, Del Fiore G, Aerts J, Luxen A, van der Linden M, Cleeremans A, Maquet P. (2003) Cerebral correlates of explicit sequence learning. Brain Res Cogn Brain Res, 16(3), 391-398.
92. Maquet P, Peigneux P, Laureys S, Desseilles M, Boly M, Dang-Vu T (2003) Off-line processing of memory traces during human sleep: Contribution of functional neuroimaging. Sleep and Biological Rhythms 1(1), 75-83.
93. Maquet P, Peigneux P, Laureys S, Boly M, Dang-Vu T, Desseilles M, Cleeremans A. (2003) Memory processing during human sleep as assessed by functional neuroimaging. Revue Neurologique (Paris) 159(11), S27-29.

94. Peigneux P & Laureys S, Fuchs S, Destrebecqz A, Collette F, Delbeuck X, Phillips C, Aerts J, Del Fiore G, Degueldre C, Luxen A, Cleeremans A, Maquet P. (2003) Learned material content and acquisition level modulate cerebral reactivation during post-training REM sleep. *NeuroImage*, 20(1), 125-134

2002

95. Laureys, S., Faymonville, M. E., Peigneux, P., Damas, P., Lambermont, B., Del Fiore, G., Degueldre, C., Aerts, J., Luxen, A., Franck, G., Lamy, M., Moonen, G., & Maquet, P. (2002). Cortical processing of noxious somatosensory stimuli in the persistent vegetative state. *NeuroImage* 17(2), 732-741.
96. Laureys, S., Peigneux, P., Perrin, F., & Maquet, P. (2002). Sleep and motor skill learning. *Neuron*, 35(1), 5-7.
97. Majerus, S., Collette, F., Van der Linden, M., Peigneux, P., Laureys, S., Delfiore, G., Degueldre, C., Luxen, A., Salmon, E. (2002) A PET Investigation of Lexicality and Phonotactic Frequency in Oral Language Processing. *Cognitive Neuropsychology* 19(4), 343-360
98. Maquet, P., Peigneux, P., Laureys, S., & Smith, C. (2002). Be caught napping: you're doing more than resting your eyes. *Nature Neuroscience*, 5(7), 618-619.

2001

99. Laureys, S., Peigneux, P., Phillips, C., Fuchs, S., Degueldre, C., Aerts, J., Del Fiore, G., Petiau, C., Luxen, A., Van der Linden, M., Cleeremans, A., Smith, C., Maquet, P. (2001) Experience-Dependent Changes In Cerebral Functional Connectivity during Human Rapid Eye Movement Sleep. *Neuroscience*, 105(3), 521-525.
100. Peigneux, P., Laureys, S., Delbeuck, X., Maquet, P. (2001) Sleeping Brain, Learning Brain. The Role of Sleep for Memory Systems [Review] *NeuroReport* 12(18), A111-124.
101. Peigneux, P., Salmon, E., Garraux, G., Laureys, S., Willems, S., Dujardin, K., Degueldre, C., Lemaire, C., Luxen, A., Moonen, G., Franck, G., Destee, A., Van Der Linden, M. (2001) Neural and Cognitive Bases of Upper Limb Apraxia in Corticobasal Degeneration. *Neurology*, 57(7), 1259-1268.
102. Peigneux, P., Laureys, S., Fuchs, S., Delbeuck, X., Degueldre, C., Aerts, J., Del Fiore, G., Luxen, A., Maquet, P. (2001) Generation of Rapid Eye

Movements during Paradoxical Sleep in Humans. NeuroImage, 14(3), 701-708.

2000

103. Garraux, G., Salmon, E., Peigneux, P., Kreisler, A., Degueldre, C., Lemaire, C., Destée, A., & Franck, G. (2000) Voxel-based distribution of metabolic impairment in corticobasal degeneration. Movement Disorders, 15(5), 894-904.
104. Maquet, P., Laureys, S., Peigneux, P., Fuchs, S., Petiau, C., Phillips, C., Aerts, J., Del Fiore, G., Degueldre, C., Meulemans, T., Luxen, A., Franck, G., Van Der Linden, M., Smith, C., Cleeremans, A. (2000) Experience-dependent changes in cerebral activation during human REM sleep. Nature Neuroscience, 3(8), 831-836.
105. Peigneux, P., Maquet, P., Meulemans, T., Destrebecqz, A., Laureys, S., Degueldre, C., Delfiore, G., Luxen, A., Franck, G., Van der Linden, M., & Cleeremans, A. (2000) Striatum forever, despite sequence learning variability: A random effect analysis of PET data. Human Brain Mapping, 10(4), 179-194.
106. Peigneux, P., Salmon, E., Van der Linden, M., Garraux, G., Aerts, J., Delfiore, G., Degueldre, C., Luxen, A., Orban, G., & Franck, G. (2000) The role of lateral occipito-temporal junction and area MT/V5 in the visual analysis of upper limb postures. NeuroImage, 11(6), 644-655.
107. Peigneux, P. & Van der Linden, M. (2000). Presentation of a cognitive neuropsychological battery for limb apraxia assessment [Présentation d'une batterie neuropsychologique et cognitive pour l'évaluation de l'apraxie gestuelle] (French). Revue de Neuropsychologie, 10(2), 311-362.
108. Peigneux, P., Van der Linden, M., Andres-Benito, P., Sadzot, B., Franck, G., & Salmon, E. (2000) A neuropsychological and functional brain imaging study of visuo-imitative apraxia [Exploration neuropsychologique et par imagerie fonctionnelle cérébrale d'une apraxie visuo-imitative] (French). Revue Neurologique, 156(5), 459-472.

1999

109. Laureys, S., Salmon, E., Garraux, G., Peigneux, P., Lemaire, C., Degueldre, C., & Franck, G. (1999). FDOPA uptake and glucose metabolism in early stages of corticobasal degeneration. Journal of Neurology, 246, 1151-1158.
110. Peigneux, P., Maquet, P., Van der Linden, M., Meulemans, T., Degueldre, C., Delfiore, G., Luxen, A., Cleeremans, A., & Franck, G. (1999).

Left inferior frontal cortex is involved in probabilistic serial reaction time learning. Brain and Cognition, 40(1), 215-219.

111. Peigneux, P., Meulemans, T., Van der Linden, M., Salmon, E., & Petit, H. (1999). Exploration of implicit artificial grammar learning in Parkinson's disease. Acta Neurologica Belgica, 99(2), 107-117.
112. Peigneux, P. & Van der Linden, M. (1999) Influence of ageing and educational level on the prevalence of body part as objects in normal subjects. Journal of Clinical and Experimental Neuropsychology, 21(4), 547-552.
113. Peigneux, P. & Van der Linden, M. (1999). A neuropsychological approach of limb apraxia assessment [L'évaluation de l'apraxie des membres supérieurs : une approche neuropsychologique] (French). Evolutions Psychomotrices, 45 (11), 115-122.

1998

114. Meulemans, T., Peigneux, P., & Van der Linden, M. (1998). Preserved artificial grammar learning in Parkinson's disease. Brain and Cognition, 37(1), 109-112.

B. EDITED VOLUMES

1. Peigneux P (Guest Editor) (2004) Cognition in Slumberland. Mechanisms of information processing in the sleep-wake cycle. Special Issue of *Psychologica Belgica*, 44(1-2), pp. 142

C. BOOK CHAPTERS

2014

1. Schnackers, C., Deliens, G., Laureys, S., & Peigneux, P. (s.d.). Les états de conscience modifiés. *Traité de Neuropsychologie clinique*. Seron X. & Van Der Linden M.
2. Dang-Vu, T. T., Desseilles, M., Peigneux, P., & Maquet, P. (s.d.). Sleep and Movement Disorders: Neuroimaging Aspects. In S. Chokroverty, P. Montagna, Allen, & Walters (Eds.), *Sleep and Movement Disorders*. New-York (USA): Oxford University Press.
3. Achermann P, Tarokh L and Peigneux P (s.d.) Research Design and Quantitative Methods. In: Philippe Peigneux, Claudio Bassetti, Zoran Dogas (Eds.), *European Sleep Medicine Textbook Textbook - Based on the ESRS Catalogue of Knowledge and Skills*. European Sleep Research Society (ESRS), Basel
4. Peigneux P (s.d.) The Functions of Sleep. In: Philippe Peigneux, Zoran Dogas and Claudio Bassetti (Eds.), *European Sleep Medicine Textbook Textbook - Based on the ESRS Catalogue of Knowledge and Skills*. European Sleep Research Society (ESRS), Basel
5. Peigneux P. (s.d.) Neuroimaging studies of sleep and memory in humans. In: Ted Abel, Ruth Benca and Peter Meerlo (Eds.), *Sleep, Neuronal Plasticity and Brain Function*. Current Topics in Behavioral Neuroscience book series (CTBN). Marlton: Springer
6. Farthouat J. and Peigneux P. (s.d.) Memory Reactivation in Humans (Imaging Studies). In: Masami Tatsuno (Ed.), *Analysis and Modeling of Coordinated Multi-neuronal Activity*. Marlton: Springer
7. Gilson M. and Peigneux P. (s.d.) Sleep and Memory. In: James D. Wright (Ed.), *The International Encyclopedia of the Social and Behavioral Sciences*, 2nd edition. Oxford: Elsevier

2012

8. Amici, R., Borbely, A. A., Parmeggiani, P. L., & Peigneux, P. (2012, septembre 01). Sleep and Neuroscience. In C. Bassetti, H. Schultz, & B. Knobl (Eds.), *ESRS 40th Anniversary book* (pp. 23-26). Bern: Wagon.
9. Maquet, P., & Peigneux, P. (2012, septembre 01). Sleep and Memory. In C. Bassetti, H. Schulz, & B. Knobl (Eds.), *ESRS 40th Anniversary book* (pp. 51-52). Bern: Wagon.
10. Bassetti, C., Dijk, D.-J., Dogas, Z., Levy, P., Nobili, L., Peigneux, P., Pollmacher, T., Riemann, D., & Skene, D. (2012, septembre 01). The Future of Sleep Research and Sleep Medicine in Europe: A Need for Academic Multidisciplinary Sleep Centres. In C. Bassetti, H. Schulz, & B. Knobl (Eds.), *ESRS 40th Anniversary book* (pp. 7-8). Bern: Wagon.
11. Rauchs, G., & Peigneux, P. (2012). Covert reorganization (spatial learning). In N. Seel (Ed.), *Encyclopedia of the Sciences of Learning* (pp. 828-833). London: Springer.
12. Peigneux, P., Urbain, C., & Schmitz, R. (2012). Sleep and the Brain. In C. Espie & C. Morin (Eds.), *Oxford Handbook of Sleep and Sleep Disorders*. New-York: Oxford University Press.

2011

13. Deliens, G., & Peigneux, P. (2011, décembre). Sommeil et Mémoire. In M. Billiard & Y. Dauvilliers (Eds.), *Les troubles du sommeil* (pp. 73-82). Paris: Masson.
14. Deseilles, M., Dang-Vu, T. T., Schwartz, S., Peigneux, P., & Maquet, P. (2011). Neuroimagen en el sueño y en los trastornos del sueño. In S. Chokroverty (Ed.), *Medicina de los trastornos del sueño* (pp. 198-217). Spain: Elsevier.

2010

15. Peigneux, P. (2010). Sleep and Memory. In M. H. Kryger (Ed.), *Principles and Practice of Sleep Medicine*. Philadelphia: Elsevier.
16. Peigneux, P. (2010). Current models and assessment of limb apraxia. In G. Koob, R. Thompson, & M. Le Moal (Eds.), *Encyclopedia of Behavioral Neuroscience* (p. 1816). Oxford: Elsevier.
17. Aparicio, M., Peigneux, P., Charlier, B., & Leybaert, J. (2010). How Cued Speech is Processed in the Brain: Directions for Future Research. In C. LaSasso, K. Crain, & J. Leybaert (Eds.), *Cued Speech and Cued Language for Deaf and Hard of Hearing Children*. San Diego (CA), USA: Plural Publishing.

18. Aparicio, M., Charlier, B., Peigneux, P., & Leybaert, J. (2010). Etude neuroanatomofonctionnelle de la perception de la parole en LPC. In J. Leybaert (Ed.), *La Langue Française Parlée Complétée: Fondements et Avenir* (pp. 67-84). Marseille: Editions SOLAL.
19. Peigneux, P., & Smith, C. (2010). Memory Processing in Relation to Sleep. In M. H. Kryger (Ed.), *Principles and Practice of Sleep Medicine*, 5th Edition (pp. 335-347). Philadelphia: Elsevier.
20. Peigneux, P. (2010). Current models and assessment of limb apraxia. In G. Koob, R. Thompson, & M. Le Moal (Eds.), *Encyclopedia of Behavioral Neuroscience* (pp. 354-360). Oxford: Elsevier.
21. Peigneux, P., Schmitz, R., & Urbain, C. (2010). Sleep and Forgetting. In S. Della Sala (Ed.), *Current Issues in Memory: Forgetting* (p. 352). London: Psychology Press and Routledge.

2009

22. Desseilles, M., Dang-Vu, T. T., Peigneux, P., & Maquet, P. (2009). Neuroimaging in sleep and sleep disorders. In S. Chokroverty (Ed.), *Sleep disorders medicine: Basic science, technical considerations and clinical aspects* (pp. 198-217). Elsevier.
23. Salmon, E., Garraux, G., Peigneux, P., Dujardin, K., & Destée, A. (2009). La Dégénérescence Cortico-Basale. In A. Destée (Ed.), *Traité de Neurologie: Affections Extrapyramidales et Mouvements Anormaux*. France.
24. Peigneux, P., & Betsch, C. (2009). Troubles des praxies. In M. Poncelet, S. Majerus, & M. Van der Linden (Eds.), *Traité de neuropsychologie de l'enfant*. Marseille: Solal.

2008

25. Peigneux, P. (2008). Les troubles de la gestualité: les apraxies. In C. Laterre, C. Sindic, & X. Seron (Eds.), *Sémiologie des maladies nerveuses* (pp. 333-347). Bruxelles: De Boeck.
26. Dang-Vu, T. T., Desseilles, M., Peigneux, P., Laureys, S., & Maquet, P. (2008). Sleep – Definition and description: PET activation patterns. In L. R. Squire (Ed.), *New Encyclopaedia of Neuroscience* (pp. 955-961). Oxford (UK): Elsevier.

2005

27. Maquet, P., Sterpenich, V., Albouy, G., Dang-Vu, T. T., Desseilles, M., Boly, M., Ruby, P., Laureys, S., & Peigneux, P. (2005, octobre). *Brain*

- imaging on passing to sleep. In P. L. Parmeggiani & R. A. Velluti (Eds.), *The physiological nature of sleep* (pp. 123-137). Londres: Imperial College Press.
28. Peigneux, P. (2005, juin). Systèmes de mémoire et réactivations neuronales au cours du sommeil humain: contributions de la tomographie à l'émission de positons (TEP). In B. Guéguen (Ed.), *Neurophysiologie des mémoires* (pp. 105-114). Paris: Elsevier.
29. Destrebecqz, A., & Peigneux, P. (2005). Methods for studying unconscious learning. In S. Laureys (Ed.), *The boundaries of consciousness: Neurobiology and neuropathology* (pp. 69-80). doi:10.1016/S0079-6123(05)50006-2
30. Maquet, P., Ruby, P., Maudoux, A., Albouy, G., Sterpenich, V., Dang-Vu, T. T., Desseilles, M., Boly, M., Perrin, F., Peigneux, P., & Laureys, S. (2005). Human cognition during REM sleep and the activity profile within frontal and parietal cortices: a reappraisal of functional neuroimaging data. In S. Laureys (Ed.), *The boundaries of consciousness: neurobiology and neuropathology* (pp. 219-227). Amsterdam, Boston: Elsevier. doi:10.1016/S0079-6123(05)50016-5
31. Mayer, E., Annoni, J.-M., & Peigneux, P. (2005). Les apraxies. In T. Botez-Marquard & F. Boller (Eds.), *Neuropsychologie clinique et neurologie du comportement* (pp. 439-452). Montréal: Presses de l'Université de Montréal.

2004

32. Laureys, S., Faymonville, M.-E., De Tieghe, X., Peigneux, P., Berré, J., Moonen, G., Goldman, S., & Maquet, P. (2004). Brain function in the vegetative state. In C. Machardo & A. Shewmon (Eds.), *Brain death and disorders of consciousness* (pp. 229-238). New York: Kluwer Academic/Plenum Publishers.
33. Maquet, P., Perrin, F., Laureys, S., Dang-Vu, T. T., Desseilles, M., Boly, M., & Peigneux, P. (2004). Cerebral functional segregation and integration during human sleep. In P.-H. Luppi (Ed.), *Sleep: circuits and functions* (pp. 225-238). Boca Raton, FL, USA: CRC Press.

2003

34. Le Gall, D., & Peigneux, P. (2003). Les apraxies: formes cliniques et modèles théoriques. In D. Le Gall & G. Aubin (Eds.), *L'apraxie* (pp. 91-132). Marseille: Solal.

35. Peigneux, P., Laureys, S., Cleeremans, A., & Maquet, P. (2003). Cerebral correlates of memory consolidation during human sleep: contribution of functional neuroimaging. In P. Maquet, C. Smith, & R. Stickgold (Eds.), *Sleep and brain plasticity* (pp. 209-224). Oxford: Oxford university press.
36. Peigneux, P., Van Der Linden, M., & Le Gall, D. (2003). Evaluation des apraxies gestuelles. In D. Le Gall (Ed.), *L'apraxie* (pp. 133-138). Marseille: Solal.

2002

37. Laureys, S., Peigneux, P., & Goldman, S. (2002). Brain imaging. In H. D'Haenen, J. A. Den Boer, H. Westenberg, & P. Willner (Eds.), *Biological psychiatry* (pp. 155-166). New York: John Wiley & Sons Inc.