

CURRICULUM VITAE

(August 1st, 2009)

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Director, UR2NF - [Unité de Recherches en Neuropsychologie
et Neuroimagerie Fonctionnelle / Neuropsychology and
Functional Neuroimaging Research Unit], ULB
Scientific Collaborator, Faculty of Sciences, Cyclotron Research
Centre, ULg
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Sciences, Université de Liège (ULg)

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BIRTH DATE : February 18th, 1961
CITIZENSHIP : Belgian

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2 (A) DEGREES

2000, January 13 Ph.D., Psychology [Docteur en Sciences Psychologiques].

Grade: highest distinction (PGD)

University of Liège (ULg), Liège, Belgium

Doctoral Thesis Title: Limb Apraxia. A Cognitive, Neuropsychological and Brain Imaging Approach [L'Apraxie Gestuelle. Une Approche Cognitive, Neuropsychologique et par Imagerie Cérébrale] (French)

Directors: Professor M. Van der Linden, Ph. D., Neuropsychology Department, Faculty of Psychological Sciences, University of Liège (ULg)

Professor G. Franck, MD, Ph.D., Neurology Department, CHU, Faculty of Medicine, University of Liège (ULg)

1996, September 26 Licensed Psychologist [Licencié en Psychologie] (5 years graduate),

Grade: highest distinction (PGD)

University of Liège (ULg), Liège, Belgium

Licence Thesis Title: Artificial Grammar Learning and Parkinson Disease. A Neuropsychological Approach of Implicit Learning in an Artificial Grammar Learning Task [Grammaire Artificielle et Maladie de Parkinson. Approche neuropsychologique de l'apprentissage implicite dans une tâche d'apprentissage de grammaire artificielle] (French)

Director: Professor M. Van der Linden, Ph. D., Neuropsychology Department, Faculty of Psychological Sciences, University of Liège (ULg)

➤ ADDITIONAL TRAINING

- April 4-6th, 2002 Workshop: Functional Brain Connectivity. Organized by Professors K. Friston and R. Kotter
- February-March 2002 Post-Graduate Inter-University Course (F.N.R.S.): Techniques, Methods and Applications of Emission Tomography (Dr C. Phillips, ULg)
- May15-17th, 1998 Statistical Parametric Mapping and Functional Neuroimaging Course, Institute of Neurology, University College of London, Queen Square, London, UK. Directed by Professors R. S. J. Frackowiak and K. Friston.
- 1998 – 1999 Pharmacia Upjohn Lectures: *Functional Neuroimager*y Professor K. Friston, CHU, University of Liège (ULg), Belgium
- 1996 – 1997 Pharmacia Upjohn Lectures: *Functional Neuroimager*y Professor R. S. J. Frackowiak, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain (UCL), Belgium

➤ OTHERS

- 1990 Visitor : Pikler-Lóczy Nursing Method, Nursery National Methodological Institute, Budapest, Hungary

- 1988 – 1989 Graduation in Psychomotor Education and Reeducation. C.P.S. Liège
- 1986 - 1989 Graduation as Special Education Worker [Classe 1], C.P.S. Liège

-- (B) MAIN AREAS OF RESEARCH

I. BRAIN IMAGING OF COGNITIVE PROCESSES

- fMRI, MEG and PET techniques
- Memory-dependent cerebral activity and cognitive processing during sleep
- Circadian variations and cognition
- Neural bases of explicit and implicit, conscious-unconscious, learning
- Neural bases of cognitive processes subtending gestures production and reception, and upper limb apraxia

II. COGNITIVE NEUROPSYCHOLOGY

- Sleep- and circadian-memory relationships
- Learning and memory consolidation
- Cognitive and neuropsychological approach of upper limb apraxia

3. PROFESSIONAL EXPERIENCE

A. RESEARCH / ACADEMIC

- 1/06/2007 - *now* President, Ethical Committee of the Faculty of Psychological and Educational Sciences, ULB
- 1/10/2007 - *now* Scientific Collaborator at the Cyclotron Research Centre, Faculty of Sciences, ULg
- 1/05/2007 - *now* Director, UR2NF - [Unité de Recherches en Neuropsychologie et Neuroimagerie Fonctionnelle / Neuropsychology and Functional Neuroimaging Research Unit], ULB
- 1/10/2006 - *now* Professor (Chargé de Cours), Chair Clinical Neuropsychology at the Faculty of Psychological and Educational Sciences (ULB).
- 1/10/2004 - *now* Associate Professor (Chargé de Cours Adjoint) at the Faculty of Psychological Sciences (ULg).
- 1/10/2006 - 30/09/2007 Research Associate (collaborator) at the Cyclotron Research Centre, ULg
- 1/03/2006 - 30/09/2006 Research Associate at the Cyclotron Research Centre, ULg

- 1/10/2002 – 30/09/2004 Lecturer (Maître de Conférences) at the Faculty of Psychological Sciences, University of Liège (ULg).
- 1/10/2000 - 30/09/2006 Researcher at the Cyclotron Research Centre, ULg
- 1/10/1997 - 30/09/2006 Scientific Associate at the Neuropsychology Unit, Department of Cognitive Sciences, ULg
- 1/1/1997 - 30/09/2006 Practice Supervisor in Clinical Neuropsychology and Experimental Neuropsychology, Neuropsychology Unit, Department of Cognitive Sciences, ULg
- 1/1/1997 – 30/09/2000 Doctoral Researcher (funded by PAI/IAP Interuniversity Attraction Pole P4/22) at the Cyclotron Research Center, ULg

B. TEACHING: GRADUATE LEVEL

- 2006 *Sleep and Memory*. In *Sleep and Sleep Disorders*, UM-FdP Elective Course 3.5II. Faculty of Psychology, Department of Neurocognition, University of Maastricht, The Netherlands.

Psychological Sciences [Licence en Sciences Psychologiques], Faculty of Psychological and Educational Sciences, ULB

- 2008 - now *Advanced Seminar in Neuropsychology Case Studies* – PSYC-E-502 (30h)
- 2008 - now *Advanced Seminar in Neuropsychology and Functional Neuroimaging* – PSYC-E-503 (30h)
- 2006 - now *Clinical Neuropsychology* – PSYC-E-402 (30h)
- 2006 - now *Normal and Pathological Ageing* – PSYC-E-405 (30h)
- 2006 - now *Neuropsychological Practice Seminars* – PSYC-E-431 & PSYC-E-505 (60h)

Psychological Sciences [Licence en Sciences Psychologiques], Department of Cognitive Sciences, ULg

- 2002 - now *Neuropsychology and Brain Imaging* - PSYC1222-1 (30h, in collaboration with Dr F. Collette)
- 2002 - 2006 *Sleep and Cognition* - PSYC5834-1 (30h)
- 1998 - 2006 occasional teaching in Clinical Neuropsychology – Cognitive Neuropsychology – Evaluation and Revalidation Techniques in Neuropsychology – Advanced Course in Cognitive Neuropsychology
- 1997-1998: *Cognitive Neuropsychology: Cognitive Neuropsychological Approach of Apraxia* (30 h) In collaboration with Prof. M. Van der Linden and Dr T. Meulemans

C. TEACHING: POST-GRADUATE LEVELS

- 2008 *Sleep and Imaging*. 2nd Training Course, ESRS-EU “Marie Curie” Project “*Training in Sleep Research and Sleep Medicine*” Bertinoro, Italy, April 25-27, 2008
- 2006 *Neurobiology and Imaging of Sleep*. Belgian Sleep Medicine Course, 3rd edition. Blankenberge, Belgium April 20, 2006
- 2006 *News in Functional Neuroimaging of Sleep*. Fourth European Course on Sleep Medicine and Sleep Research “Hot Topics in Sleep Research and Sleep Medicine” Bertinoro, Italy March 2-4, 2006
- 2005 - now *Theories and Clinical Approaches of Apraxia* Specialised Diploma in Neuropsychology. [Master 2 - Spécialité Neuropsychologie clinique, évaluation périchirurgicale et réhabilitation cognitive]. University Charles-de-Gaulle Lille III, France
- 2005 - now *Sleep and Cognition* Specialised Diploma in Neuropsychology. [Master 2 - Spécialité Neuropsychologie clinique, évaluation périchirurgicale et réhabilitation cognitive]. University Charles-de-Gaulle Lille III, France
- 2001 - now *Functional Neuroimaging of Sleep*. Inter-University Diploma Sleep and Wakefulness. Physiology and Pathology. [Diplome Interuniversitaire -D.I.U - Veille et Sommeil] CHU Pitié-Salpêtrière, Paris, France
- 2001 - 2004 *Theories and Clinical Approaches of Apraxia* Specialised Post-Graduate Diploma in Neuropsychology. [Diplôme d’Etudes Supérieures Spécialisées - DESS – Neuropsychologie]. University Charles-de-Gaulle Lille III, France
- 2002 – 2005 *Apraxia*. University Diploma - Evaluation of High-Order Cognitive Functions. [Diplome Universitaire – DU - Evaluation des Fonctions Supérieures]. University Paris V, Paris, France
- 2003 *Brain Imaging and Sleep*. University Diploma Sleep and Psychiatry [Diplome Universitaire – DU - Sommeil et Psychiatrie]. Faculty of Medicine Pitié-Salpêtrière, Paris VI, France
- 2002 *Clinical Approaches and Theoretical Models of Apraxia*. Specialised Post Graduate Diploma in Neuropsychology [Diplôme d’Etudes Supérieures Spécialisées - DESS – Neuropsychologie]. University of Savoie, Chambéry, France
- 2002 *Apraxia*. *Advanced Course in Evaluation and Revalidation Techniques in Adult Neuropsychology*. Specialised Post-Graduate Diploma in Neuropsychology. [Diplôme d’Etudes Supérieures Spécialisées - DESS – Neuropsychologie]. University of Genève, Switzerland.

D. DOCTORAL THESIS : SUPERVISION

- 2008 - ... SLAMA HICHEM *Etude du fractionnement du système exécutif et de l'influence du "goal activation": une approche neuropsychologique cognitive chez le sujet sain et le patient cérébrolésé.* Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles. Co-supervisor Dr J. Morais, ULB
- 2007 - ... URBAIN CHARLINE *Processus sommeil-dépendants d'acquisition du langage dans la dysphasie développementale: une approche cognitive, neuropsychologique et par neuroimagerie fonctionnelle.* Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles, Co-supervisor Dr P. VAN BOGAERT, ULB
- 2007 - ... SCHMITZ REMY *Influence de la latéralisation hémisphérique sur la dynamique des processus sommeil-dépendants de consolidation mnésique: une approche cognitive, neuropsychologique et par neuroimagerie fonctionnelle.* Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles.
- 2005 - ... ORBAN PIERRE *Effet de l'apprentissage sur la mémoire procédurale : une étude par résonance magnétique fonctionnelle.* Doctoral Thesis (Psychological Sciences), University of Liège. Co-supervisor Dr P. MAQUET, ULG
- 2005 - ... SCHMIDT CHRISTINA *Influence du Chronotype sur la Performance Cognitive chez le Sujet Jeune et Agé. Une Approche Neuropsychologique et par Imagerie Cérébrale Fonctionnelle.* Doctoral Thesis (Psychological Sciences), University of Liège. Co-supervisor Dr F. COLLETTE, ULG

E. DOCTORAL THESIS: FOLLOW-UP COMMITTEE

- 2008 - ... HANSSEUW BERNARD *Sur la nature des troubles de l'encodage en mémoire épisodique chez les sujets présentant une maladie d'Alzheimer débutante au stade pré-démontiel: étude cognitive et par imagerie fonctionnelle.* Doctoral Thesis (Psychological Sciences), Université Catholique de Louvain. Supervisor Dr A. Ivanoiu, UCL
- 2008 - ... VANNUSCORPS GILLES *Mental representation of action semantics [La représentation mentale de la sémantique de l'action]* Doctoral Thesis (Psychological Sciences), Université Catholique de Louvain. Supervisor Dr A. Pilon, UCL.
- 2008 - ... VANDENBOSSCHE JOCHEN *Cognitive aspects and executive functioning with Parkinsons disease: The relation between the neuropsychological profile and motor learning in freezers and nonfreezers* Doctoral Thesis (Psychological Sciences), Vrije Universiteit Brussels. Supervisor Dr E. Soetens, VUB
- 2007 - ... GHEYSEN FREJA *Motor and perceptual sequence learning.* Doctoral Thesis (Psychological Sciences), University of Ghent. Supervisor Dr W. FIAS, UGENT
- 2005 - ... STEFANIAK NICOLAS *Quel rôle les mécanismes d'apprentissage implicite jouent-ils dans l'apprentissage de nouvelles connaissances sémantiques?* Doctoral

Thesis (Psychological Sciences), University of Liège. Supervisor Dr T. MEULEMANS, ULG

2007 - 2008 SLAMA HICHEM *Etude du fractionnement du système exécutif et de l'influence du "goal activation": une approche neuropsychologique cognitive chez le sujet sain et le patient cérébrolésé*. Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles. Supervisor Dr J. Morais, ULB

2005 - 2008 SCHNAKERS CAROLINE *Altération et récupération de la conscience chez des patients cérébrolésés: une approche comportementale, électrophysiologique et par imagerie fonctionnelle*. Doctoral Thesis (Psychological Sciences), University of Liège. Supervisors Dr S. MAJERUS and Dr S. LAUREYS, ULG

2005 - 2008 ALBOUY GENEVIEVE *Corrélats cérébraux de la consolidation d'une trace mnésique formée après un apprentissage procédural. Etude chez l'homme par neuro-imagerie multimodale (MEG, EEG, IRMf) au cours de l'éveil et du sommeil*. Doctoral Thesis (Sciences), University of Liège. Supervisors Dr P. MAQUET, ULG, and Drs O. BERTRAND & P. LUPPI, Lyon

F. DOCTORAL THESIS : JURY

15-12-2008 ALBOUY GENEVIEVE *Corrélats cérébraux de la consolidation d'une trace mnésique formée après un apprentissage procédural. Etude chez l'homme par neuro-imagerie multimodale (MEG, EEG, IRMf) au cours de l'éveil et du sommeil*. Doctoral Thesis (Sciences), Université de Liège et Université Claude Bernard Lyon 1. Supervisors Dr P. MAQUET, ULG, and Drs O. BERTRAND & P. LUPPI, Lyon

08-12-2008 GAGNEPAIN PIERRE *Amorçage perceptif auditif et encodage en mémoire épisodique. Approche cognitive et neuroanatomique fonctionnelle*. Doctoral Thesis (Neurosciences), Université de Caen Basse Normandie, Caen, France. Supervisor Dr F. EUSTACHE

02-07-2008 STERPENICH VIRGINIE *Sleep and consolidation of emotional memories*. Doctoral Thesis (Sciences), Université de Liège, Faculté des Sciences Psychologiques et de l'Education, Belgium (Jury Member)

22/23-05-2008 DELBECQUE LAURE *Incidence de l'imagerie motrice sur les apprentissages moteurs*. Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles, Faculté des Sciences Psychologiques et de l'Education, Belgium (Jury Member and Secretary)

30-04-2008 SCHNAKERS CAROLINE *Altération et récupération de la conscience chez des patients cérébrolésés: une approche comportementale, électrophysiologique et par imagerie fonctionnelle*. Doctoral Thesis (Psychological Sciences), Université de Liège, Faculté des Sciences Psychologiques et de l'Education, Belgium (Jury Member)

- 13-12-2007 OSIURAK FRANÇOIS *Etude neuropsychologique des rapports entre outil, geste et usage*. Doctoral Thesis (Psychological Sciences), Université d'Angers, Angers, France (Jury Member and Advisor)
- 17-10-2007 APARICIO DE LA CONCEPCION MARIO *Etude neuropsychologique et neuroanatomofonctionnelle du traitement phonologique chez le lecteur sourd pré-lingual*. Doctoral Thesis (Neuroscience), Université Louis Pasteur Strasbourg I, Strasbourg, France (Jury Member and Advisor)
- 17-10-2007 WIJNEN Viona *Neurophysiological correlates of recovery to consciousness*. Doctoral Thesis, Tillburg University, Tillburg, The Netherlands (Jury Member and Advisor)
- 5/6-06-2007 VANDENBERGHE Muriel *Les processus d'apprentissage préservés dans l'amnésie. Etude neuropsychologique et cognitive*. Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles, Faculté des Sciences Psychologiques et de l'Education, Belgium (Jury Member and Secretary)
- 21-05/28-06-2007 ZEEUWS Inges *Consolidation of episodic memory traces. The influence of d-amphetamine on item memory and context features*. Doctoral Thesis (Psychological Sciences), Vrije Universiteit van Brussels, Faculty of Psychological Sciences, Belgium (Jury Member)
- 7/8-05-2007 LALOYAUX Cedric *Sensitivity to changes with and without awareness: an empirical investigation*. Doctoral Thesis (Psychological Sciences), Université Libre de Bruxelles, Faculté des Sciences Psychologiques et de l'Education, Belgium (Jury Member and Secretary)
- 13-02-2006 BELEC Pierre *Etude longitudinale des réseaux cérébraux à large échelle en IRMf: méthodes et application à l'étude de l'apprentissage moteur*. Doctoral Thesis (Neuroscience), University of Paris-Sud XI, Faculté des Sciences d'Orsay, France (Jury Member and Advisor)
- 21-12-2004 NAEGELE Bernadette *Fonctions Cognitives et Syndromes d'Apnées Obstructives du Sommeil: Evaluation des Fonctions Executives et Mnesiques*. Doctoral Thesis (Neuroscience), University of Grenoble, France (Jury Member and Advisor)

G. POST-DOCTORAL RESEARCH: SUPERVISION

- 2007 - now APARICIO DE LA CONCEPCION MARIO [Entendre lèvres et mains : Investigation neuroanatomique des traitements phonologiques chez les adultes atteints de surdit ] *Hearing lips and hands : neuroanatomical investigation of phonological processes in deaf adults* (Faculty of Psychological Sciences, ULB; co-supervision with Dr Jacqueline Leybaert).

- 2006 - 2007 TINGUELY GILBERTE *Does memory consolidation depend on the appearance order of non-rapid and rapid eye movement sleep during post-learning sleep?* (Cyclotron Research Centre, ULg).
- 2005 - 2006 RAUCHS GERALDINE *Sleep-related changes in cerebral networks subtending spatial and contextual memories* (Cyclotron Research Centre, ULg).
- 2005 - 2007 GAIS STEFFEN *Functional magnetic resonance imaging investigation of the hippocampo-neocortical dialogue for declarative memory consolidation* (Cyclotron Research Centre, ULg ; Co-supervision with Dr Pierre Maquet).

H. POST-GRADUATE THESIS : SUPERVISION

- 2003 DE LA FUENTE Luis Obello (2003) *Sleep and Memory Consolidation*. Advanced Course Diploma [DEA] in Cognitive Sciences Dissertation (ULB & ULg). In collaboration with Dr T. Meulemans, ULg.

I. GRADUATION THESIS : SUPERVISION

- 2007-2008 BERG Nathalie. *Implicit learning of regularities in discrete and continuous motor task: What is the role of sleep ?* [Apprentissage implicite de régularités dans des tâches motrices discrètes et continues : quel est l'impact du sommeil ?] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-supervisor Stéphanie CHAMBARON, ULB.
- 2007-2008 BIGO Bérengère. *Influence of a 7-days diet on cognitive functions* [Influence d'un jeûne hydrique de 7 jours sur les fonctions cognitives] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 DA ROS Marc. *The behavioral assessment of the altered states of consciousness, and their relationships with PET-scan neuroimaging* [L'évaluation comportementale des états de conscience altérée et leurs relations avec la neuroimagerie PET-SCAN] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 DA SILVA COSTA Cila. *Influence of ageing on working memory and attention: ecological versus traditional measures* [Effet du vieillissement sur la mémoire du travail (et sur l'attention) : mesures écologiques versus mesures traditionnelles] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 DE BROUWER Florine. *Influence of gaze perception in a decision task* [Influence de la perception du regard dans une tâche de décision] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-promotor Arnaud DESTREBECQZ, ULB.
- 2007-2008 DECLERCQ Julie. *Hemipsheric laterality effects on generalisation and long-term consolidation (time and sleep) of repetition priming* [Effets de latéralisation

- hémisphérique sur la généralisation et la consolidation à long terme (temps et sommeil) du priming de répétition] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-supervisor Remy SCHMITZ, ULB.
- 2007-2008 DIAS Dina. *Functional relationships between tools and gestures : semantic system or affordances ?* [Relations fonctionnelles entre geste et outil : système sémantique ou effet d'affordance ?] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 GALER Sophie. *Intentional or incident binding and memory consolidation. A role for sleep in episodic memory ?* [Binding intentionnel ou incident et consolidation mnésique. Un rôle du sommeil pour la mémoire épisodique ?] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 GENICOT Virginie. *The role of postlearning sleep in consolidation of learned arbitrary ordinate series* [Le rôle du sommeil postapprentissage dans la consolidation d'un apprentissage d'une série ordonnée arbitraire] LPsy Dissertation (Graduation in Psychological Sciences, UCL), co-promotor Mauro PESENTI, UCL.
- 2007-2008 HENNE Camille. *Validity of sleep spindles as a marker of cortical efficiency and an indicator of recovery potential in patients with altered states of consciousness* [Validité de l'étude des fuseaux de sommeil en tant que marqueur de l'efficacité corticale et indice du potentiel de récupération chez le patient en état de conscience altérée] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-promotor Steven LAUREYS, ULg.
- 2007-2008 KOENER Frédérique. *Is it possible to acquire novel information during sleep ? Preliminary studies.* [L'acquisition de nouvelles informations au cours du sommeil est-elle possible ? Etudes des préliminaires] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 LAURENT Céline. *Assesment of motor representations in hemineglect patients* [Evaluation des représentations motrices chez les patients hémiparétiques] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-supervisor Laure DELBECQUE, ULB.
- 2007-2008 LE FEBVRE Jean-Charles. *Dream recall in REM behvaiour disorder: a window on memory consolidation processes* [Le rappel de rêves dans le cadre du trouble du sommeil paradoxal : une fenêtre ouverte sur nos processus de consolidation mnésique] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2007-2008 NOEL Kelly. *Recognition of own and familiar faces in Alzheimer's disease* [Reconnaissance de son propre visage et de visages familiers dans la maladie d'Alzheimer] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-supervisor Cédric LALOYLAUX, ULB.

- 2007-2008 POUCHKINA Anna. *Cognitive functioning in patients with Chronic Fatigue Syndrome and patients with Sleep Apnea* [Le fonctionnement cognitif des patients atteints de syndrome de fatigue chronique et d'apnées du sommeil] LPsy Dissertation (Graduation in Psychological Sciences, ULB), co-promoteur Daniel NEU, ULB.
- 2006-2007 DUBROCA BENJAMIN. *Impact of partial sleep deprivation on individual performance* [Effet d'une déprivation partielle de sommeil sur les performances individuelles] LPsy Dissertation (Graduation in Psychological Sciences, ULB).
- 2004-2006 SCHMITZ Remy. *An EEG analysis of the role of sleep in implicit sequence learning* [Analyse électroencéphalographique du rôle du sommeil pour l'apprentissage implicite de séquences] LPsy Dissertation (Graduation in Psychological Sciences, ULg).
- 2004-2005 VAN DER LOO Elsa. *Cerebral correlates of visual processing of familiar, unfamiliar and anatomically impossible postures*. [Neuronaal substraat van visuele verwerking van anatomisch mogelijke en onmogelijke lichaamshoudingen] LPsy Dissertation (Graduation in Psychological Sciences, VUB). Co-supervisor Prof. Dr. Cluydts Raymond, VUB
- 2003-2004 ORBAN Pierre *Effect of sleep deprivation on spatial memory and associated cerebral activity. A functional magnetic resonance imaging study* [Effet de la privation de sommeil sur la mémoire spatiale et l'activité cérébrale associée. Une étude d'imagerie par résonance magnétique fonctionnelle] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 2003-2004 TRINCA Romina *Induction of implicit long-term memories by saturation of repetition priming* [L'induction d'une mémoire implicite à long terme par la saturation du priming de répétition] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 2003-2004 MELCHIOR Gwenaëlle *Validation of an associative conditioning task in man* [Mise au point d'une tâche de conditionnement associatif chez l'humain] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 2001 – 2002 SCHOOLS Kevin *Exploring the action semantic system using a priming paradigm* [Exploration du système sémantique de l'action par une tâche d'amorçage] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 1999 – 2000 FOUREZ Alice *Topographical Learning. Brain imaging exploration of maze learning and validation for the study of sleep* [Apprentissage topographique. Exploration par imagerie cérébrale d'une tâche de labyrinthe et validation pour le sommeil] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 1999 – 2000 JORIS Christine *Imitation of meaningless gestures. Mental representation of action or functional relationships between body parts?* [L'imitation de gestes sans

- signification. Représentation mentale de l'action ou relations fonctionnelles entre éléments corporels ?] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 1998 – 1999 PACE Giuseppina (1998-1999) *Assesment of apraxia in the Alzheimer's disease* [Evaluation approfondie des praxies dans la démence de type Alzheimer] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 1998 – 1999 VAN HOECKE Isabelle *Ecological approach of apraxia in the Alzheimer's disease* [Aspects écologiques des praxies dans la démence de type Alzheimer] LPsy Dissertation (Graduation in Psychological Sciences, ULg)
- 1998 – 1999 DELBEUCK Xavier *Consolidation of implicit learning during paradoxical sleep* [La consolidation d'un apprentissage implicite lors du sommeil paradoxal] LPsy Dissertation (Graduation in Psychological Sciences, ULg)

J. PRACTICE IN EXPERIMENTAL NEUROPSYCHOLOGY : SUPERVISION

- 2008 DUTERTE Anicée. Cerebral hemispheric influences on the priming effect (ULB)
- 2008 SCHROEDER Yasmine. Cerebral hemispheric influences on memory consolidation (ULB)
- 2008 KERSCHENMEYER Michèle. Sleep-dependent acquisition of novel phonological representations (ULB)
- 2008 FADISTA Amélie. Circadian-based variations in neuropsychological performance in the elderly (ULB)
- 2007 GENICOT Virginie. Neural correlates of circadian-based variations in cognitive performance. (ULg-UCL)
- 2006 MARTIN Samuel. The neural substrate of implicit and explicit memory processes. An fMRI dissociation study. (ULg)
- 2004-2005 VAN DER LOO Elsa. Cerebral correlates of visual processing of familiar, unfamiliar and anatomically impossible postures. (ULg-VUB)
- 2004 BELAYACHI Sanaa. Influence of sequence complexity and implicit level of learning on sleep-dependent consolidation of sequence knowledge. (ULg)
- 2004 SCHMITZ Remy Mere exposure effect. Does sleep promotes generalization? (ULg)
- 2003 SCHMIDT Christina Circadian Rhythms and Cognition (ULg)
- 2003 ORBAN Pierre The Neural Bases of Off-Line Information Maintenance. An fMRI Study (ULg)
- 2003 MELCHIOR Gwenaëlle The role of sleep for the consolidation of explicit and implicit components of sequence learning. An application of the Process Dissociation Procedure. (ULg)

- 2002 SCHNAKERS Caroline Hypnosis and memory consolidation in a texture discrimination task (ULg)
- 2002 BETSCH Carole Anatomical plausibility and posture priming. Body-based mediation of meaningless gestures processing / Cognitive mechanisms of dyspraxia (ULg)
- 2001 - 2002 LOPEZ Angelina Neural correlates of topographic information encoding and retrieval in a virtual maze learning task (Erasmus Programme) (ULg)
- 2000 – 2001 BOUCART Christine The role of implied motion in gesture processing : a priming study (Erasmus Programme) (ULg)
- 1999 DELBEUCK Xavier A perceptual representation system for gestures: priming for possible, but not impossible, gestures? (ULg)

K. PRACTICE IN CLINICAL NEUROPSYCHOLOGY : SUPERVISED RESEARCH

- 2003 WILLEMS Isabelle Cognitive Functioning in REM Behaviour Disorders (ULg)
- 2002 COMHAIRE Geoffroy Cognitive and Neural Bases of Apraxia in Alzheimer Disease (ULg)
- 2001 SCHIJNS Thomas Cognitive Functioning in Alzheimer Disease (ULg)
- 2000 GERVALLE Ludovic Cognitive Functioning in Alzheimer Disease (ULg)
- 1999 MERBAH Karim Neuropsychological Approach of Upper Limb Apraxia (ULg)
- 1998 WILLEMS Sylvie Cognitive and Neuropsychological Approach of Upper Limb Apraxia in CorticoBasal Degeneration (ULg)

L. OTHER PROFESSIONAL EXPERIENCES

- 1996 Special Education Worker (4 months). Centre Hospitalier Psychiatrique Volière (Psychiatric Institute), Liège, Belgium. Therapeutic follow-up of toxico-dependent patients with aggressive behaviour
- 1994 - 1996 Special Education Worker. Centre Hospitalier Psychiatrique Volière (Psychiatric Institute), Liège, Belgium. Adult population suffering from various psychiatric disorders (mostly addictions)
- 1993 Special Education Worker (6 months). Institut Médico-Pédagogique [IMP; Medical-Educational Institute] St-Joseph, Theux, Belgium. Children (3 – 13 years) suffering from social, mental and/or educational disabilities
- 1992 MSF-Belgium [Médecins Sans Frontières/Doctors Without Borders] – Mission in Romania. Psycho-medical team co-ordinator
- 1990 - 1991 MSF-Belgium [Médecins Sans Frontières/Doctors Without Borders] – Mission in Romania. Special Education Worker / Psychomotor Rehabilitation in a psycho-

medical team. Children rehabilitation and local worker's training in Handicaped Children Institutes (3 – 18 years) and Nurseries for Abandoned Children (0 – 3 years).

1985 - 1990 Special Education Worker. Institut Médico-Pédagogique [IMP; Medical-Educational Institute] St-Michel, Spa, Belgium. Children (3 – 18 years) suffering from social, mental and/or educational disabilities

4. HONOURS

2001 Human Brain Project Travel Award, Organization for Human Brain Mapping 7th Annual Meeting, Brighton, UK

1998 Prize Société de Neurologie de Langue Française (SNLF), Paris : FF 10.000, for BEP:A theoretically-based assessment of apraxia. [Evaluation des praxies théoriquement fondée : la B.E.P. -- Poster] Peigneux P & Van der Linden M. Journées de Neurologie de Langue Française, Paris, April 1-4.

1999 Prize Acta Medica Belgica 1999. BEF 50.000, for
Exploration of Implicit Artificial Grammar Learning in Parkinson's Disease. Peigneux, P., Meulemans, T., Van der Linden, M., Salmon, E., & Petit, H. Acta Neurologica Belgica, 99(2), 107-117).

5. GRANTS AND SUPPORT

1/10/2000 - 1/10/2006 Supported by grants from PAI/IAP Interuniversity Attraction Pole P5/04, Fonds Médical Reine Elisabeth (FMRE) and FNRS at the Cyclotron Research Center, ULg

1/1/1997 – 30/09/2000 Supported by PAI/IAP Interuniversity Attraction Pole P4/22 at the Cyclotron Research Center, ULg

1/1/2008 - 31/12/2011 FRSM project 3.4.594.08 .F (principal promotor): *The influence of hemispheric lateralization on the dynamics of sleep-dependent memory consolidation processes: a cognitive, neuropsychological and functional brain imaging approach*

1/1/2008 - 31/12/2011 IISN project 4.4.508.08 .F (co-promotor): *Multi-disciplinary study of residual cerebral activation in altered states of consciousness : EEG-fMRI, MEG and dopaminergic PET analyses of perfusion, electrical and neurotransmission evoked neuronal responses*

1/1/2008 - 31/12/2011 FRFC project 2.4.621.07 .F (co-promotor): *Hearing lips and hands : neuroanatomical investigation of phonological processes in deaf adults*

1/1/2008 - 31/12/2011 FRSM project 3.4.516.08 .F (co-promotor): *Genetics and ADHD: complementary approaches of case-control association studies and trios with exploration of the relationship between genotype-intermediate phenotype and imaging*

1/1/2009 - 31/12/2011 FRSM project 3.4.582.09 .F (principal promotor): *Neural bases of learning and long term consolidation of sequential regularities. Combined effects of discrete vs. continuous learning mode and post-training sleep*

6. TRAVELS AND COLLABORATIONS

2004 – 2006 Effect of Declarative Learning on Sleep Spindles during Nocturnal and Daytime Sleep, with PROF DR CHRISTIAN CAJOCHEN, Abteilung Chronobiologie, Universitäre Psychiatrische Kliniken Basel, Switzerland

2005 – *now* Influence of chronotype and time of the day on cognitive performance in young and elderly subjects: a neuropsychological and functional neuroimaging approach, with PROF DR CHRISTIAN CAJOCHEN, Abteilung Chronobiologie, Universitäre Psychiatrische Kliniken Basel, Switzerland

2005 – *now* Real-time fMRI investigation of the physiological requirements for the creation of a mnemonic trace following motor sequence learning, with PROF DR JULIEN DOYON, Functional Neuroimaging Unit & Department of Psychology, University of Montreal, Canada

2005 – *now* Neuronal reactivations. Intra-hippocampal EEG recording of spatial learning-related activity during post-training sleep and wakefulness, with DR PAUL SALIN, CNRS UMR5167, Université Claude Bernard Lyon I, 7 Rue Guillaume Paradin, Lyon, France

2004 – *now* The cerebral fate of the memory trace. A characterization of the time course of invariant at the systems level using multi-modal functional neuroimaging, with DR HABIB BENALI, INSERM U494 (Imagerie Multimodalité quantitative du cerveau en action), Paris, France, and PROF DR JULIEN DOYON, Functional Neuroimaging Unit & Department of Psychology, University of Montreal, Canada

1998 – *now* Neural correlates of implicit learning and skill acquisition, with DR AXEL CLEEREMANS AND DR ARNAUD DESTREBECQZ, Cognitive Science Research Unit, Université Libre de Bruxelles (ULB), Belgium

2001 – *now* Neural correlates of consciousness in sequence learning tasks, with DR AXEL CLEEREMANS AND DR ARNAUD DESTREBECQZ, Cognitive Science Research Unit, Université Libre de Bruxelles (ULB), Belgium

1990 - 1992 **Travel** : MSF-Belgium [Médecins Sans Frontières/Doctors Without Borders] – Mission in Romania. Psycho-medical team co-ordinator. Children rehabilitation and local worker's training, in 7 Handicaped Children Institutes (3 – 18 years) and Nurseries for Abandoned Children (0 – 3 years).

7. SCIENTIFIC ASSOCIATIONS AND DUTIES

2008 – *now* Elected Member Belgium-France-Switzerland section, International

Neuropsychological Symposium (INS)

- 2003 - now BBS (Behavioral and Brain Sciences) Associate
- 2001- now Effective Member, European Sleep Research Society (ESRS)
- 2001- 2002 Effective Member, European Brain and Behavioral Society (EBBS)
- 2001- 2004 Effective Member, Society for Neuroscience (SFN)
- 2000- now Effective Member, Association for Scientific Study of Consciousness (ASSC)
- 1999 - now Elected member, Société de Neuropsychologie de Langue Française (SNLF)
- 1999 - 2001 Member, Société d'Anatomie Fonctionnelle Cérébrale (SAFC)
- 1998 - 2002 Member, Cognitive Neuroscience Society (CNS)
- 1998 - 2000 Member, Belgian Society for Neuroscience (BSN)
- 1998 - now Member, Fédération Belge des Psychologues (FBP)
- 1996 - now Member, Belgian Psychological Society (SBP/BPS)

8. OTHER SCIENTIFIC ACTIVITIES

A. AD-HOC REVIEWER

Occasional ad-hoc reviewer for *Trends in Cognitive Sciences*, *Trends in Neurosciences*, *Biological Psychiatry*, *Current Opinion in Neurobiology*, *Molecular Psychiatry*, *NeuroImage*, *Sleep*, *Perceptual and Motor Skills*, *Journal of the International Neuropsychological Society*, *Cortex*, *European Journal of Neuroscience*, *Experimental Psychology*, *Proceedings of the National Academy of Sciences USA*, *Neuron*, *Physiology and Behavior*, *Sleep Medicine Review*, *Journal of Neuroscience*, *Sleep*, *Journal of Sleep Research*, *Learning and Memory*, *Human Brain Mapping*, *Current Biology*, *Journal of Experimental Psychology: Learning, Memory and Cognition*, ...

Occasional expert evaluator for the *Wellcome Trust (United Kingdom)*, *ANR - Agence Nationale de la Recherche (France)*, *Chaires de Recherche du Canada (Canada)*, *FONDECYT - National Fund for Scientific & Technological Development (Chile)*, *Israel Science Foundation (Israel)*, *Brains Back to Brussel (Belgium)*, ...

B. EDITORIAL BOARDS

Associate Editor : European Journal for Cognitive Psychology (<http://www.escop.org>)

Scientific Committee Member : Revue de Neuropsychologie
(<http://libbey.fontismedia.com/npv/>)

Editorial Board Member : Sleep (<http://www.journalsleep.org>)
Neuroscience Imaging (<http://www.novapublishers.com>)

Open Behavioral Sciences (The Open Behavioral Science Journal, Open Behavioral Science Letters and Open Behavioral Science Reviews)

C. SCIENTIFIC COMMITTEES

2006-2008 : Elected member of the Scientific Committee of the European Sleep Research Society (ESRS)

2008 - now: Secretary of the European Sleep Research Society (ESRS)

9. SCIENTIFIC PUBLICATION ACTIVITIES

A. 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

B. ARTICLES (PEER-REVIEWED)

FIRST OR LAST AUTHOR

2. Schmidt C, Collette F, Leclercq Y, Sterpenich V, Vandewalle G, Berthomier P, Berthomier C, Philipps C, Tinguely G, Darsaud A, Gais S, Schabus M, Deseilles 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
3. Destrebecqz A., Perruchet P, Cleeremans A, Laureys S, Maquet P and **Peigneux P** (to appear) The influence of temporal factors on automatic priming and conscious expectancy in a simple reaction time task. *Quarterly Journal of Experimental Psychology* 1-19
4. 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
5. 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.
6. 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.

7. 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
8. 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
9. **Peigneux P**, Schmitz R, and Willems S (2007) Cerebral asymmetries in sleep-dependent processes of memory consolidation Learning and Memory 14:400-406.
10. 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.
11. **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.
12. 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.
13. 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.
14. **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.
15. 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.
16. **Peigneux P**, Laureys S, Maquet P (2005) Mémoire et Sommeil. Apports de l'Imagerie Fonctionnelle. [Review] Neuropsych News 4(1), 17-25.
17. **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.
18. **Peigneux P.** (2004) Cognition in Slumberland. Introduction to the Special Issue. Psychologica Belgica, 44(1-2), 1-3.

19. **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.
20. 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
21. **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.
22. 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.
23. **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
24. **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.
25. **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.
26. **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.
27. **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.
28. **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.
29. **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.

30. **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.
31. **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.
32. **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.
33. **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.
34. **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.

CO-AUTHOR

35. 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. Arch Ital Biol 147: 51-57.
36. Van Opstal P., Fias W, **Peigneux P** and Verguts T (2009) The neural representation of extensively trained ordered sequences. NeuroImage 47(1): 367-75.
37. 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 with PET activation: an observational study Lancet Neurology 7(11):1013-20
38. Chatelle C, Vanhaudenhuyse 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.

39. 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.
40. 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.
41. 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
42. 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.
43. 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.
44. 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
45. 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
46. 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
47. Vandewalle, G., Balteau, E., Phillips, C., Degueldre, C., Moreau, V., Sterpenich, V., Albouy, G., Darsaud, A., Desseilles, 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.
48. Desseilles, 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
49. 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 .

50. Dang-Vu, TT, Desseilles, M, **Peigneux**, P, and Maquet, P (2006) A role for sleep in brain plasticity *Pediatric Rehabilitation* 9(2), 98-118.
51. 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.
52. 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.
53. 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.
54. Perrin F, **Peigneux** P, Fuchs S, Verhaeghe S, Laureys S, Middleton B, Degueuldre 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
55. 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.
56. Boly M, Faymonville ME, **Peigneux** P, Lambermont B, Damas P, Del Fiore G, Degueuldre 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
57. Destrebecqz A, **Peigneux** P, Laureys S, Degueuldre 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.
58. 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.
59. 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.
60. Laureys, S., Faymonville, M. E., **Peigneux**, P., Damas, P., Lambermont, B., Del Fiore, G., Degueuldre, 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.
61. Laureys, S., **Peigneux**, P., Perrin, F., & Maquet, P. (2002). Sleep and motor skill learning. Neuron, 35(1), 5-7.
62. 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
63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
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C. BOOK CHAPTERS

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69. **Peigneux**, P. Schmitz R and Urbain C. (to appear) Sleep and Forgetting. In : Sergio Della Sala (Ed.), Current Issues in Memory : Forgetting. London : Psychology Press and Routledge
70. **Peigneux**, P. and Smith C. (to appear) Sleep and Memory. In : Meir H Kryger (Ed.), Principles and Practice of Sleep Medicine, 5th Edition. Philadelphia : Elsevier
71. **Peigneux**, P (to appear) Current models and assessment of limb apraxia. In : G Koob, RF Thompson & M Le Moal (Ed.), Encyclopedia of Behavioral Neuroscience. Oxford : Elsevier

72. **Peigneux**, P. and Betsch, C. (2009) Troubles des praxies chez l'enfant en développement. In : M. Poncelet, S. Majerus & M. Van der Linden (Eds.), *Traité de neuropsychologie de l'enfant*. Marseille : Solal
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74. **Peigneux** P (2005) Systèmes de mémoire et réactivations neuronales au cours du sommeil humain. Contributions de la Tomographie à Emission de Positons (TEP). In B. Guéguen (Ed.) *Neurophysiologie des Mémoires*. pp. 105-114. Paris : Elsevier.
75. Maquet P., Sterpenich V., Albouy G., Dang-Vu T., Desseilles M., Boly M., Ruby P., Laureys S., and **Peigneux** P. (2005) Brain imaging on passing to sleep. In P. Parmeggiani et Vellutti (Eds.) *The Physiological Nature of Sleep*, 123-137
76. Maquet P, Perrin F, Laureys S, Dang-Vu T, Desseilles M, Boly M and **Peigneux** P. (2004) Cerebral functional segregation and integration during human sleep In : PH Luppi (Ed.) *Sleep: Circuits and Functions*. CRC Press, Boca Raton (Fl, USA). 272pp
77. Mayer, E, Annoni J-M, and **Peigneux** P. (2005) Les Apraxies In : Th. Botez-Marquard (Ed.) *Neuropsychologie clinique et neurologie du comportement*. Montréal : Presses de l'Université de Montréal, pp 439-452.
78. Le Gall, D., **Peigneux**, P. (2003) Les Apraxies : Formes Cliniques et Modèles Théoriques. In : D. Le Gall & G. Aubin (Eds.), *L'apraxie* (2nd edition). pp.91-132 Marseille : Solal
79. **Peigneux**, P., Van der Linden, M., Le Gall, D. (2003) Evaluation des Apraxies Gestuelles. In : D. Le Gall & G. Aubin (Eds.), *L'apraxie* (2nd edition). pp.133-38 Marseille : Solal
80. **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 UK: Oxford University Press

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81. Dang-Vu TT, Desseilles M, **Peigneux** P, Laureys S and Maquet P (2008) Sleep – Definition and description: PET activation patterns. In Larry R Squire (Ed.) *New Encyclopaedia of Neuroscience*, Elsevier, Oxford (UK). Vol 8, pp. 955-961.
82. Desseilles M, Dang-Vu TT, **Peigneux** P, Maquet P (to appear) *Neuroimaging in Sleep and Sleep Disorders*
83. Laureys S, Faymonville ME, De Tiège X, **Peigneux** P, Berré J, Moonen G, Goldman S, Maquet P (2004) Brain function in the vegetative state. In Machado C, Shewmon DA (Eds) *Brain death and disorders of consciousness*. Kluwer Academic/Plenum Publishers, New York, 550:229-38

84. Salmon, E., Garraux, G., **Peigneux**, P., Dujardin, K., Destée, A. (to appear) La Dégénérescence Cortico-Basale. In: A. Destée (Ed.) *Traité de Neurologie. Affections Extrapyramidales et Mouvements Anormaux*. Doin, France.
85. Laureys, S., **Peigneux**, P., Goldman, S. (2002) Brain imaging. In: H. D'Haenen, J.A. den Boer, H. Westenberg, P. Willner (Eds.) *Textbook of Biological Psychiatry*. Pp. 155-166. New York : John Wiley & Sons Inc.

D. LECTURES : SYMPOSIUMS AND WORKSHOPS

FIRST OR LAST AUTHOR

1. **Peigneux** P (2009) Rôle du sommeil dans le processus de consolidation mnésique chez l'homme : apports de l'imagerie cérébrale fonctionnelle. 17ème Séminaire JL Signoret 2009 « La consolidation mnésique », Caen, France, March 16-18th
2. **Peigneux** P (2009) Memory slave to the rhythms: processes of memory consolidation across the sleep-wake cycle. In Symposium "Sleep and Memory". 4th Alpine Brain Imaging Conference , Champéry, Switzerland, January 11-15th.
3. **Peigneux** P (2009) Neural bases of cognitive processes during human REM sleep. In Symposium "The 50th anniversary of paradoxical sleep discovery", held on behalf of WASM, ESRS and SFRMS, Lyon, France, January 7-10th.
4. **Peigneux** P (2008) Processus de consolidation post-apprentissage au cours de la veille et du sommeil. In *Les Mémoires*. Colloque 2008 du GDR 2905 NeuroMem. Aussois, France, December 15-17th.
5. **Peigneux** P (2008) Off-line learning during sleep and wakefulness: neuroanatomical evidence. In Workshop "Learning in your sleep" conveners P Lewis and V Walsh. Institute of Cognitive Neuroscience, London, UK, December 13-14th.
6. **Peigneux** P (2008) Sleeping brain. Learning brain. In Neurex symposium « Oscillating phenomena: time to tick » conveners P Pevet and P Piguet, Strasbourg, France, November 19th.
7. **Peigneux** P (2008) Dreams are made of brains: neuroimaging contributions to the study of the relationships between sleep and thoughts In Symposium "The dream - film, art and science", organized by The Royal Netherlands Academy of Arts and Sciences, convener Dr Eus van Someren, Amsterdam, The Netherlands, November 11th.
8. **Peigneux** P (2008) A traveller's guide to the extragalactic nebula of sleep and thoughts. In Symposium « Psychology: Scenes of Tomorrow », held in honor of Professor José Morais, Bruxelles, Belgium, September 19-20th.
9. Collette F and **Peigneux** P (2008) Co-organiser and co-chair of SNLF Workshop "De la Neuropsychologie Cognitive à l'Imagerie Neuropsychologique des Processus de Mémoire et d'Apprentissage", Liège, Belgium, April 11-12th.
10. **Peigneux** P (2007) Imaging and cognitive changes in REM sleep in humans. In Vth ESRS course on « Hot topics in sleep research : Hots Topics on REM sleep » at the

- XVI Congreso Internacional de Medicina del Sueno (CIMS 2007), Barcelona, Spain, October 3-6th.
11. **Peigneux P** (2007) Post-learning processes across the sleep-wake cycle. *In* Symposium « Memory Processing during Sleep » (organizers Ken Paller, Lynn Nadel & Sue Corkin) at the International Neuropsychological Symposium, Mati, Greece, June 19-23th.
 12. **Peigneux P** (2007) Sleep and Memory consolidation during sleep. *In* Journées Scientifiques du Laboratoire de Psychologie et Neurosciences Cognitives (LPNCog), Université Paris 5, Paris, France, March 26-27th.
 13. **Peigneux P** (2007) Sleep, memory and brain plasticity : between cognition and functional neuroimaging. *In* SFB Symposium of the Collaborative German Collaborative Research Center 654, Plasticity and Sleep, Lübeck, Germany, March 1th.
 14. **Peigneux P** (2006) Sleep on it - Insights into sleep-dependent memory consolidation with functional neuroimaging. *In* BMBF Workshop “Neurophysiology meets fMRI” Hamburg, Germany, November 14th – 15th.
 15. **Peigneux P** (2006) Chair of Oral Session Sleep, learning, memory and brain plasticity at the 18th Congress of the European Sleep Research Society, Innsbruck, Austria, September 12-16.
 16. **Peigneux P** (2006) Sleep: Is the brain at rest ? Expert discussant in the Brainstorming Session BS.4 (Chair R. Wehrle) at the 18th European Congress of Neuropsychopharmacology, Paris, France, September 16-20
 17. **Peigneux P** (2006) Hippocampus-related processing of spatial memories during sleep and wakefulness: evidence from brain imaging studies. *In* Symposium “Sleep and rest: the role of off-line processing in cognition”, 5th Dutch Endo-Neuro-Psycho Meeting, Doorwerth, The Netherlands, June 6-9.
 18. **Peigneux P** (2006) Tracking the cerebral correlates of memory traces across the sleep-wake cycle. What can tell us functional brain imaging? *In* Workshop “Electrophysiological & neuroimaging approaches of cognitive processes”, Rouffach, France, January 23
 19. **Peigneux P** (2005) Sometimes Brain Imaging Shows the Hidden: Offline Processing of Memory Consolidation Through the Sleep-Wake Cycle. *In* Symposium “Sleep and Learning: New Developments”. Tennen XVI, 16th Annual Meeting of Theoretical and Experimental Neuropsychology, Montréal, Canada. June 23-25.
 20. **Peigneux P** (2005) Convener and Chair of the Morning Workshop “Functional Neuroimaging of Sleep: Why, When and How?”. 11th Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada. June 12-16. *NeuroImage* 26 (1), S14

21. **Peigneux P** (2005) Functional Brain Imaging of Memory Processing Through the Sleep-Wake Cycle. In Morning Workshop “Functional Neuroimaging of Sleep: Why, When and How?”. 11th Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada. June 12-16. *NeuroImage* 26 (1), S14
22. **Peigneux, P.** (2005) Off-line processing of memories across the sleep-wake cycle. What can tell us functional brain imaging? In Symposium “Cognition and the Sleeping Brain”. The Great Sleep Experiment, NEMO, Amsterdam, Holland, May 18th
23. **Peigneux, P.** (2005) Cerebral correlates of memory consolidation through the sleep-wake cycle. In Fatigue, Sleep and Biological Clocks. International Conference Sponsored by The Linbury Trust, Imperial College London, UK, March 31- April 1.
24. **Peigneux, P.** (2005) Cerebral correlates of memory consolidation through the sleep-wake cycle. Contributions from functional neuroimaging. In Symposium “Possible mechanisms contributing to memory consolidation during sleep”. 6th Meeting of the German Neuroscience Society - 30th Göttingen Neurobiology Conference - Göttingen , Germany, February 17-20.
25. **Peigneux, P.** (2004) Normal Sleep and its Function: The contribution that imaging studies have made to our knowledge of sleep disorders and their treatment. In Update on sleep disorders. Educational Track (Chair S. Wilson) at the 17th European Congress of Neuropsychopharmacology, Stockholm, Sweden, October 9-13
26. **Peigneux, P.** (2004) Co-chair of the Symposium “Psychological approaches to memory reprocessing during sleep”. 17th Congress of the European Sleep Research Society, Prague, Czech Republic, October 5-9
27. **Peigneux, P.** (2004) Determinants of memory reprocessing during human sleep. contributions of functional neuroimaging. In Symposium “Psychological approaches to memory reprocessing during sleep”. 17th Congress of the European Sleep Research Society, Prague, Czech Republic, October 5-9
Journal of Sleep Research, 13(1), 558
28. **Peigneux, P.** (2004) Sleeping brain, dreaming brain, learning brain. Contributions of functional neuroimaging. Keynote Lecture at the 16th Annual Scientific Meeting of the British Sleep Society, Cambridge, September 19-21
29. **Peigneux, P.** (2004) Convener and Chair of the Invited Symposium “Sleeping brain, learning brain? Mechanisms of memory consolidation during sleep”. 28th International Congress of Psychology, Beijing, China, August 8-13
30. **Peigneux, P.** (2004) Functional mechanisms of memory consolidation in the sleeping brain. Contributions of functional brain imaging. In Invited Symposium “Sleeping brain, learning brain? Mechanisms of memory consolidation during sleep”. 28th International Congress of Psychology, Beijing, China, August 8-13

31. **Peigneux, P.** (2004) Neural correlates of memory consolidation during human sleep. In Invited Symposium “Sleep states and memory consolidation: Evidence from animal and human studies”. 28th International Congress of Psychology, 2004, Beijing, China, August 8-13
32. **Peigneux, P.** (2003) Imagerie fonctionnelle : mémoire et sommeil. In Symposium « Cognition et Sommeil. Nouvelles Méthodes d’Exploration“. XVIIIth Congress of the Société Française de Recherche sur le Sommeil, Paris, France, November 13-15
33. Maquet P, Laureys S, Desseilles M, Boly M, Dang-Vu T and **Peigneux P.** (2003) Off-line processing of memory traces during human sleep. Contribution of functional neuroimaging In symposium : “The Functions of Sleep”. The paradox of sleep: an unfinished story. An international meeting in the honor of Michel Jouvet. Lyon, France, September 3-4
34. **Peigneux, P., Laureys, S., Maquet, P.** (2003) Sleeping brain, working brain. Unconscious re-processing of information during sleep. In Workshop “International Workshop on Aspects on Mind-Matter Research” A. Atmanspacher and I. Antoniou (Org.) Conference Center of the Hanns Seidel Foundation Wildbath-Kreuth, June 3-8
35. **Peigneux, P.** (2003) Memory-related replay of neuronal networks during post-training sleep in humans. A different role for REM and non-REM sleep episodes ? In Symposium “ Functional Neuroimaging Studies of REM Sleep: Links between Who We Are and How We Sleep“. APSS 17h Annual Meeting, Chicago, June 3-8
36. **Peigneux, P.** (2003) Neuronal replay and consolidation of motor and spatial memories during human sleep. Contributions of functional neuroimaging. In Special Symposium “The Cognitive Neuroscience of Sleep and Dreaming “. Joint Meeting of the Belgian Psychological Society and the Belgian Association for the Study of Sleep, Bruxelles, Belgium, May 23
37. **Peigneux, P., Laureys, S., Perrin, F., Maquet, P.** (2002) Systèmes de mémoire et réactivations neuronales au cours du sommeil humain. Contributions de la tomographie à émission de positons. In Symposium « Neurophysiologie des Mémoires : Les Mémoires du Cerveau“. Réunion d’Hiver de la Société de Neurophysiologie Clinique de langue Française, Paris, December 16-17
38. **Peigneux, P.** Learning, sleep, and brain metabolism. (2002) In Berzelius Symposium 60. “Sleep as restitution. Relation to metabolism, stress, nutrition and overall health”. Stockholm, Sweden, August 18-21
39. **Peigneux, P. & Schwartz, S.** Co-Organizer of the Workshop « Memory, Dreaming and Consciousness in the Sleeping Brain”, 6th Congress of the Association for the Scientific Study of Consciousness (ASSC6), Barcelone (Espagne), May 31 – June 3 (2002).

40. **Peigneux, P.** (2002) Sleeping Brain, Learning Brain. Contributions of Positron Emission Tomography to the Study of the Relationships between Sleep and Memory In Symposium: Neuroimaging and Sleep- Insights into the Sleeping Brain, 16th Congress of the European Sleep Research Society, Reijkjavik, Iceland, June 3-7. Journal of Sleep Research 11, 171-172
41. **Peigneux, P., Laureys, S., Maquet, P.** (2001) PET investigations of experience-dependent modifications during human REM sleep In Symposium : Bildgebung in der Schlafforschung : Grundlagen und Anwendung. 9th Deutscher Congress für Schlafforschung und Schlafmedizin, Hamburg, Germany, September 13-15.
42. **Peigneux, P.** (2000) Functional neuroimaging of experience dependent modifications of normal human sleep. In Symposium : Brain mechanisms underlying neurocognitive features of dreaming , XXVII International Congress of Psychology, Stockholm, Sweden, July, 23-28.
International Journal of Psychology, 35(3/4), 313.

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E. ORAL PRESENTATIONS AT INTERNATIONAL CONFERENCES

A. ORAL PRESENTATIONS WITH PUBLISHED ABSTRACTS

FIRST AUTHOR

1. **Peigneux P** and Willems S (2006) Sleep influences affective preference. 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1
2. **Peigneux P,** Laureys S, Perrin F, Fuchs S, Collette F, Reggers J, Boly M, Luxen A, Maquet P (2003) Experience-dependent reactivation of declarative memories during human slow wave sleep. APSS 17h Annual Meeting, Chicago, June 3-8 Sleep (26) Suppl.: 1080.U
3. **Peigneux P** and Laureys S, Phillips C, Collette F, Perrin F, Fuchs S, Degeuldre C, Del Fiore G, Aerts J, Luxen A, Maquet P (2003) Spatial memories are reprocessed in the human hippocampus during slow wave sleep. 9th Annual Meeting of the Organisation for Human Brain Mapping (OHBM), June 18-22, 2003, New York City, NY, USA NeuroImage 19 (2) (Suppl 1): 203

4. **Peigneux P.** Laureys S., Fuchs S., Collette F., Delbeuck X., Degueldre C., Del Fiore G., Aerts J., Luxen A., Cleeremans A. & Maquet P. (2002) Information-dependent cerebral reactivations during post-training REM sleep. 8th International Conference on Functional Mapping of the Human Brain. Sendai, Japan, June 2 - 6. NeuroImage, 247 (Suppl)
5. **Peigneux P.**, Salmon E, Lekeu F, Comhaire G, Lemaire C, Luxen A, Van der Linden M (2002) Cognitive and neural bases of upper limb apraxia symptoms in dementia of the Alzheimer type. In session: Higher function disorders 3. 12th Meeting of the European Neurological Society. Berlin, ICC, June 22 - 26 Journal of Neurology 249, (suppl 1): 33
6. **Peigneux, P.**, Destrebecqz, A., Layreys, S., Degueldre, C., Del Fiore, G., Aerts, J., Luxen, A., Van der Linden, M., Maquet, P., Cleeremans, A. (2001) Identifying the Cerebral Correlates of Consciousness in Sequence Learning. Society for Neuroscience 31th Annual Meeting, San Diego, California, November 11-15. Society for Neuroscience Abstracts, 27, Program No. 679.10
7. **Peigneux, P.**, Van Der Linden, M., Salmon, E., Laureys, S., Dujardin, K., Willems, S., Garraux, G., Degueldre, C., Lemaire, C., Luxen, A., Moonen, G., Destee, A. (2001) Neural and Cognitive Bases of Upper Limb Apraxia in Corticobasal Degeneration. International Symposium on Mental and Behavioral Dysfunction in Movement Disorders, Montreal, Canada, October 10-13. Movement Disorders, 16 (Suppl. 1), 55.
8. **Peigneux, P.**, Laureys, S., Phillips, C., Fuchs, S., Degueldre, C., Petiau, C., Aerts, J., Del Fiore, G., Luxen, A., Smith, C., Van der Linden, M., Cleeremans, A., Maquet, P. (2001) Experience-dependent changes in cerebral functional connectivity during human rapid eye movement sleep 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, UK, June 10-14. NeuroImage, 13(6), S719.
9. **Peigneux, P.**, Laureys, S., Aerts, J., Fuchs, S., Delbeuck, X., Del Fiore, G., Degueldre, C., Franck, G., Luxen, A., Maquet, P. (2000) Generation of rapid eye movements during paradoxical sleep in humans. Society for Neuroscience 30th Annual Meeting, New Orleans, Louisiana, November 4-9. Society for Neuroscience Abstracts, 30(26), 215.
10. **Peigneux, P.**, Salmon, E., Garraux, G., Lemaire, C., Luxen, A., Franck, G., Destée, A., Van der Linden, M. (2000) Cognitive neuropsychological and brain imaging investigation of apraxia in corticobasal degeneration. Sixth Annual Meeting of the Organization for Human Brain Mapping, San Antonio, Texas, June 12-16. NeuroImage, 11(5), S117.
11. **Peigneux, P.**, Maquet, P., Destrebecqz, A., Degueldre, C., Luxen, A., Cleeremans, A. (2000) The striatum is involved in the successful implicit learning of statistical higher-

order knowledge Fourth Annual Meeting of the Association for the Scientific Study of Consciousness, Bruxelles, June 29 – July 2.
Consciousness and Cognition, 9(2), S62.

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12. Laureys S, **Peigneux P**, Destrebecqz A, Fuchs S, Collette F, Phillips C, Aerts J, Del Fiore G, Degueldre C, Cleeremans A, Luxen A, Maquet P (2003) Learning-induced changes in regional cerebral activity and connectivity during REM sleep 7th Congress of the European Federation of Neurological Societies (FENS), 30 August-2 September, 2003, Helsinki, Finland

European Journal of Neurology 10 (2003) 44, Suppl. 1

13. Perrin F, **Peigneux P**, Maquet P, Degueldre C, Luxen A, Phillips C, Aerts J, Del Fiore G, Laureys S (2003) Neural mechanisms involved in the detection of our given name: A multi-modal study using event related potentials and positron emission tomography. 7th Congress of the European Federation of Neurological Societies (FENS), 30 August-2 September, 2003, Helsinki, Finland
European Journal of Neurology 10 (2003) 14, Suppl. 1

14. Faymonville M, **Peigneux P**, Perrin F, Boly M, Phillips C, Degueldre C, Del Fiore G, Aerts J, Luxen A, Maquet P, Lamy M, Moonen G, Laureys S (2002) Linking the eeg bispectral index (BIS) to regional brain function in normal human sleep. Society for Neuroscience 32th Annual Meeting, Orlando, Florida, November 2-7.
Society for Neuroscience Abstracts 28, 16.12

15. Destrebecqz, A., **Peigneux, P.**, Maquet, P., Degueldre, C., Luxen, A., Van der Linden, M., Cleeremans, A. (2000) Neural correlates of explicit sequence knowledge: a novel application of the process dissociation procedure. Fourth Annual Meeting of the Association for the Scientific Study of Consciousness, Bruxelles, June 29 – July 2.
Consciousness and Cognition, 9(2), S61.

16. Laureys, S., Faymonville, M.E., Janssens, N., Degueldre, C., Aerts, J., **Peigneux, P.**, Del Fiore, G., Damas, G., Lambermont, B., Luxen, A., Lamy, M., Moonen, G., Maquet, P. (2000) Brain function during vegetative state and after recovery: a lesional approach to the study of human consciousness. Fourth Annual Meeting of the Association for the Scientific Study of Consciousness, Bruxelles, June 29 – July 2.

Consciousness and Cognition, 9(2), S60.

17. Laureys S, Faymonville ME, Goldman S, Janssens N, Van Bogaert P, Degueldre C, **Peigneux P**, Aerts J, Luxen A, Lamy M, Moonen G, Maquet P (2000) Functional imaging of arousal and levels of consciousness. XXIInd Collegium Internationale Neuro-psychofarmacologicum (CINP) Congress. July 2000, Brussels, Belgium.
The International Journal of Neuropsychopharmacology 3 S56 Suppl. 1

B. ORAL PRESENTATIONS : OTHERS

18. Schmitz R, Schabus M, Luxen A, Maquet P & **Peigneux P** (2007). An event-related potentials analysis of the role of sleep in implicit sequence learning. In Abstracts of the 2007 Annual Meeting of the Belgian Association for Psychological Sciences (BAPS), p. 55. Louvain-la-Neuve, Belgium, June 1st
19. **Peigneux P**, Schmitz R & Willems S (2007). Asymétrie hémisphérique cérébrale et processus sommeil-dépendants de consolidation mnésique. Journées de printemps de la Société de Neuropsychologie Française [SNLF], Tours, France, May 25-26
20. **Peigneux P**, Schmitz R, and Willems S (2006) Sleep influences affective preference. In Autumn Meeting of the Belgian Association for Sleep Research and Sleep Medicine [BASS], Ghent University, Oktober 6th.
21. **Peigneux P.**, Destrebecqz A., Laureys S., Maquet P., & Cleeremans A. (2004). Dissociation of the Neural Correlates of Implicit and Explicit Sequence Learning. In The Eight Annual Conference of the Association for the Scientific Study of Consciousness (ASSC8), Program book (p. 44), University of Antwerp, Belgium, June 24-28
22. Boly M., Faymonville M.-A., **Peigneux P.**, Lambermont B., Del Fiore G., Franck G. , Luxen A., Lamy M., Moonen G., Maquet P., Laureys S. (2004) Noxious somatosensory processing in the Minimally Conscious State In The Eight Annual Conference of the Association for the Scientific Study of Consciousness (ASSC8), Program book (p. 41), University of Antwerp, Belgium, June 24-28
23. Schnakers C., Majerus S., Laureys S., Van Eeckhout P., **Peigneux P.**, Goldman S. (2004) Neuropsychological Testing in Chronic Locked-in Syndrome: Preliminary Results from a Feasibility Study. In The Eight Annual Conference of the Association for the Scientific Study of Consciousness (ASSC8), Program book (p. 89), University of Antwerp, Belgium, June 24-28
24. **Peigneux, P.**, Destrebecqz, A., Melchior, G., Laureys, S., Maquet, P., & Cleeremans, A. (2004). Dissociation of the Neural Correlates of Implicit and Explicit Sequence Learning. In A. Casini & O. Klein (Eds.), 2004 Annual Meeting of the Belgian Psychological Society, May 5th (pp. 53). Bruxelles: Presses Universitaires de Bruxelles.
25. Melchior G, Maquet P and **Peigneux P** (2003) Pre-sleep interference does not disrupt the consolidation of motor memories. Joint Meeting of the Belgian Psychological Society and the Belgian Association for the Study of Sleep, Bruxelles, Belgium, May 23
26. Schnakers C, Majerus S, Van Eeckhout P, **Peigneux P**, Goldman S and Laureys S (2003) Neuropsychological testing in the locked-in syndrome: preliminary results

- from a feasibility study Joint Meeting of the Belgian Psychological Society and the Belgian Association for the Study of Sleep, Bruxelles, Belgium, May 23
27. Laureys, S., **Peigneux**, P., Maquet, P. (2002). The functional neuroanatomy of sleep and wakefulness. Tohoku Medical Society Meeting, June 2002, Sendai, Japan
 28. P. **Peigneux**; S. Laureys; S. Fuchs; F. Collette; F. Perrin; L. Olivier; J. Reggers; A. Lopez; C. Degueldre; G. Del Fiore; J. Aerts; A. Luxen; P. Maquet (2002) Memory-dependent changes in parahippocampal activity during human slow wave sleep. Joint Meeting of the Societe de Neuropsychologie de Langue Francaise and the Societa Italiana di Neuropsicologia, Paris, October 17-18
 29. **Peigneux**, S. Laureys, F. Collette, S. Fuchs, X. Delbeuck, C. Degueldre, G. Del Fiore, J. Aerts, A. Luxen, A. Cleeremans & P. Maquet (2002) Mémoire et sommeil post-apprentissage : exploration par imagerie cérébrale. Journées de Printemps de la Société de Neuropsychologie de Langue Française. Liège, Belgium, May 24-25.
 30. **Peigneux** P. Laureys S., Cleeremans A., Maquet P (2002) High-order information reprocessing during post-training paradoxical sleep. In oral session: Contiguity and Structure in Learning ECP2002 - Experimental Psychology Conference. EPS and BVP/SBP Joint Meeting. Leuven, April 9-11
 31. **Peigneux**, S. Laureys, F. Collette, S. Fuchs, X. Delbeuck, C. Degueldre, G. Del Fiore, J. Aerts, A. Luxen, A. Cleeremans & P. Maquet (2002) Mémoire et sommeil post-apprentissage : exploration par imagerie cérébrale. Journées de Printemps de la Société de Neuropsychologie de Langue Française. Liège, 24-25 mai
 32. **Peigneux** P, Salmon E, Garraux G, Laureys S, Aerts J, Del Fiore G, Degueldre C, Luxen A, Van der Linden M (2001) Functional parcellation of gesture-specific visual processes in the occipito-temporal cortex Belgian Society for Neuroscience Meeting, May 23
 33. **Peigneux**, P., Salmon, E., Willems, S., Garraux, G., Laureys, S., Degueldre, C., Lemaire, C., Luxen, A., Moonen, G., Franck, G., Destée, A., Van der Linden, M. (2000) L'apraxie gestuelle dans la dégénérescence cortico-basale. Evaluation cognitive et imagerie cérébrale. Réunion d'Hiver de la Société de Neuropsychologie de Langue Française, Paris, France, December 8.
 34. **Peigneux**, P., Salmon, E., Garraux, G., Laureys, S., Willems, S., Merbah, K., Degueldre, C., Luxen, A., Destée, A., Franck, G., Van der Linden, M. (2000) Cognitive neuropsychological and brain imaging investigation of apraxia in corticobasal degeneration [Exploration neuropsychologique cognitive et par imagerie cérébrale de l'apraxie dans la dégénérescence cortico-basale] Réunion Scientifique de la Société d'Anatomie Fonctionnelle Cérébrale. Lyon, France, May, 3.
 35. **Peigneux**, P., Van der Linden, M., & Salmon, E. (1998). Visual perception of gestures and objects: cerebral functional segregation [La perception visuelle de gestes et

d'objets: ségrégation fonctionnelle cérébrale] (French) Réunion d'Hiver de la Société de Neuropsychologie de Langue Française, Paris, France, December 4.

36. **Peigneux**, P., Van der Linden, M., Salmon, E., & Franck, G. (1998). Functional segregation of visuo-gestural analysis. A positron emission tomography study [Ségrégation fonctionnelle de l'analyse visuo-gestuelle: une étude en tomographie à émission de positons] (French) 26èmes Journées d'Etude de l'Association de Psychologie Scientifique de Langue Française, Louvain-la-Neuve, Belgique, September 17-19.

F. INVITED LECTURES

INTERNATIONAL

1. **Peigneux** P (2009) La mémoire a du rythme: processus de consolidation mnésiques au cours du cycle veille-sommeil. Conférencier invité Laboratoire d'Etude des Mécanismes Cognitifs, Lyon, France, March 3th.
2. **Peigneux** P (2008) Bases cérébrales de la consolidation mnésique au cours du cycle veille-sommeil. Conférence plénière parrainée par la Société Française de Physiologie, Le Congrès du Sommeil, Lille, France, November 21th.
3. **Peigneux** P. (2008) Sommeil, rêve et mémoire. Contribution de la neuroimagerie fonctionnelle. Conférencier Janssen-Cilag, France, Reims, June 20th
4. **Peigneux** P. (2008) Sommeil et mémoire. In *Dormir ou rêver : Utile ou futile ?* Centre Médical Universitaire et Université de Genève UNIMAIL, Switzerland, Genève, March 15th
5. **Peigneux** P. (2008) Post-learning processes across the sleep-wake cycle : Evidence from brain imaging studies. Invited Speaker Seminar at DUKE-NUS Graduate Mediacal School Singapore, Cognitive Neuroscience Laboratory, Singapore, March 8th
6. **Peigneux** P. (2008) Pour une classification moderne de l'apraxie. Invited Speaker 3ème Rencontres de Neurologie Comportementale, France, Paris, February 7th
7. **Peigneux** P. (2008) Sommeil et mémoire. Université Lille-III, France, Lille, January 31th
8. **Peigneux** P. (2007) Mémoire et sommeil. Apprendre et puis dormir. Conférence Gutenberg organisée par NEUREX – Réseau européen dans le domaine des neurosciences, et les Dernières Nouvelles d'Alsace, Strasbourg, France, March 12th
9. **Peigneux** P. (2006) So you learned something new today? How your brain will shape a new memory across the sleep-wake cycle. In *Sleep and breathing – Environment and sleep – The real challenges*, BASS Spring Meeting, June 10th
10. **Peigneux** P. (2006) Sommeil et mémoire. Contribution de la neuroimagerie fonctionnelle. In *Colloque Sommeil et Cognition*, sous l'égide de la Société Française

de Recherche sur le Sommeil, Association Rencontres Scientifiques de Corse. Bastia, France, 19-20 mai.

11. **Peigneux P.** (2005) Functional neuroimaging of the offline processes of memory consolidation through the sleep-wake cycle. Functional Neuroimaging Unit & Department of Psychology Seminars, University of Montreal, Canada, June 23th
12. **Peigneux P.** (2004) L'apraxie Revisitée. Modèles et Bases Cérébrales des Processus Cognitifs Gestuels. In Perturbations du Geste: Evaluation et Réhabilitations. Rencontre de Neuropsychologie Romande 2004, Lausanne, Switzerland, February 13th
13. **Peigneux P.** (2003) Des sommeils, des mémoires : apports de l'imagerie cérébrale. In La Semaine du Cerveau. Forum public : Sommeil normal et pathologique. Société Suisse de Neurosciences and European Dana Alliance for the Brain, Fribourg, Switzerland, March 12th
14. **Peigneux P.** (2003) Spatial memories are reprocessed in the human hippocampus during slow wave sleep. Physiology Seminars of the Institute of Physiology, University of Fribourg, Fribourg, Switzerland, March 12th
15. **Peigneux P.** (2002) The role of sleep for memory systems: brain imaging investigations of implicit and explicit memory reprocessing during sleep. In Kolloquium "Aktuelle Themen der Chronobiologie / Neurobiologie", Basel, Switzerland, November 18th
16. **Peigneux P.** (2002) Bases neurales de l'apprentissage implicite et explicite de séquences. Séminaires de l'Unité INSERM 405, Clinique Psychiatrique de l'Hôpital Civil de Strasbourg. Strasbourg, January 28th.
17. **Peigneux P.** (2002) The role of sleep for memory function and learning. Neurobiologisches Kolloquium of the Klinikum Grosshadern, Ludwig-Maximilians-University of Munich. Munchen, January, 10th.
18. **Peigneux P.** (2002) A dedicated role of sleep for memory function and learning ? Seminar of the Max-Planck Institute of Psychiatry, Munchen, January, 10th.
19. **Peigneux P.** (2001) Apprentissage implicite et modifications du sommeil paradoxal. Séminaires du Service de Neurologie des Hôpitaux Universitaires de Genève, Genève, Suisse, February 20.
20. **Peigneux P.** (2000) L'apraxie gestuelle. Evaluation cognitive et bases cérébrales. Séminaires de l'Unité de Psychopathologie Cognitive de la Faculté de Psychologie de l'Université de Genève, Genève, Suisse, October 17.
21. **Peigneux, P., Salmon, E., Garraux, G., Laureys, S., Willems, S., Merbah, K., Degueldre, C., Luxen, A., Destée, A., Franck, G., Van der Linden, M.** (2000) Cognitive neuropsychological and brain imaging investigation of apraxia in corticobasal degeneration [Exploration neuropsychologique cognitive et par imagerie

cérébrale de l'apraxie dans la dégénérescence cortico-basale] Réunion Scientifique de la Société d'Anatomie Fonctionnelle Cérébrale. Lyon, France, May, 3.

22. **Peigneux, P.** (1999). Assessment of upper limb apraxia. A neuropsychological approach [L'évaluation de l'apraxie des membres supérieurs: une approche neuropsychologique] (French) Séminaires de l'Unité de Neuropsychologie du Service de Rééducation Neurologique, Hôpital Pitié-Salpêtrière, Paris, France, February 11.
23. **Peigneux P., Juillerat, A.-C., & Van der Linden, M.** (1998). Limb apraxia assessment : clinical and ecological approaches. Department of Kinesiology and Psychology, University of Waterloo, Canada, November 25.
24. **Peigneux P., Van der Linden, M., & Salmon, E.** (1998). Neuroanatomical and functional specificity of the visual analysis of gestures. Department of Psychology and Kinesiology, University of Waterloo, Canada, November 23.

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25. **Peigneux P** (2009) La mémoire a du rythme: Processus de consolidation mnésique au cours du cycle veille-sommeil. Reunion Francophone de Printemps du Belgian College of Neuropsychopharmacology and Biological Psychiatry "Imagerie et psychiatrie", Liège, Belgium, March 21th
26. **Peigneux P.** (2008) Post-learning processes across the sleep-wake cycle : evidence from brain imaging studies. Séminaires conjoints LCFC-SCOLA dans le cadre des Séminaires Cliniques de NeuroSciences, Hôpital Erasme, ULB, Bruxelles, April 14th
27. **Peigneux P.** (2007) Sommeil, mémoire et plasticité cérébrale. Séminaires du Centre de Réadaptation Fonctionnelle Neurologique (C.R.F.N.), Hôpital Erasme, ULB, Bruxelles, June 14th
28. **Peigneux P.** (2007) Sommeil, mémoire et plasticité cérébrale. Séminaires de Neuropsychologie du service de Revalidation Neurologique, CHU Brugmann, Bruxelles, May 31th
29. **Peigneux P.** (2007) Sleep, memory and brain plasticity : between cognition and functional neuroimaging. SCOLA Seminar, Université Libre de Bruxelles, February 8th
30. **Peigneux P.** (2006) Sommeil, plasticité cérébrale et consolidation mnésique. Contributions de la neuroimagerie fonctionnelle. Enseignement post-gradué et post-universitaire du Service de Neurologie, Cliniques St-Luc UCL, Oktober 5th
31. **Peigneux, P.** (2006) Neuroimaging of dreaming and cognitive functions during sleep. In meeting "The significance of the dream in contemporary psychiatry", Flemish Psychiatric Association (VVP - Vlaamse Vereniging voor Psychiatrie) and BCNBP (Belgian College of Neuropsychopharmacology and Biological Psychiatry), March 24th

32. **Peigneux, P.** (2004) L'apraxie dans la dégénérescence cortico-basale. Réunions Cliniques de Neurologie. Cliniques Universitaires UCL de Mont-Godinne, January 22th
33. **Peigneux, P.** (2002) L'apraxie gestuelle. Modèles théoriques et évaluations cliniques. Conférence-débat de l'ABTERNA, Cliniques Universitaires St Luc. Bruxelles, February 21.
34. **Peigneux, P.** (2001) L'apraxie gestuelle. Nouvelles perspectives théoriques et évaluation. Séminaires du Service de revalidation Neurologique, CHU Brugmann, Bruxelles, November 30.
35. Laureys, S., Salmon, E., Lemaire, C., Garraux, G., Degueldre, C., **Peigneux, P.**, Luxen, A., Moonen, G., and Franck, G. (2000) Striatal dopamine storage and cerebral glucose metabolism in early stages of corticobasal degeneration studied by PET. Société Belge de Neurologie, Louvain, Belgique, February 26.
36. **Peigneux, P.** (1999). Theoretically-based assessment of upper limb apraxia [Evaluation théoriquement fondée des praxies des membres supérieurs] (French) Séminaires du Centre de Revalidation Neuropsychologique, Cliniques Universitaires Saint-Luc, Bruxelles, February 26.
37. **Peigneux, P.** (1999). Watching gestures: a cognitive neuropsychological approach. BELPSY, VUB, Bruxelles, February 25.
38. **Peigneux, P.**, Salmon, E., Van der Linden, M., Garraux, G., Luxen, A., Orban, G.A., & Franck, G. (1999). Functional involvement of lateral occipito-temporal junction and area MT/V5 in the visual analysis of gestures. Third Annual Meeting of the Belgian Society for Neuroscience, Bruxelles, Belgique, May 26-27.
39. **Peigneux, P.** (1998). Neuroanatomical and functional specificity of visuo-gestural analysis [Spécificité neuroanatomique et fonctionnelle de l'analyse visuo-gestuelle] (French) Séminaires de l'Unité de Neuropsychologie Cognitive (NECO), UCL, Louvain-La-Neuve, Belgique, November 19.
40. **Peigneux, P.**, Van der Linden, M., Salmon, E., & Franck, G. (1998). Functional segregation of visuo-gestural analysis. A positron emission tomography study [Ségrégation fonctionnelle de l'analyse visuo-gestuelle: une étude en tomographie à émission de positons] (French) 26èmes Journées d'Etude de l'Association de Psychologie Scientifique de Langue Française, Louvain-la-Neuve, Belgique, September 17-19.
41. **Peigneux, P.** (1997). Neuropsychological approach of the representation and the cerebral organisation of voluntary movements in man [Approche neuropsychologique de la représentation et de l'organisation cérébrale des mouvements intentionnels chez l'homme] (French) Séminaires de Neuropsychologie, Faculté de Psychologie ULg, Liège, Belgique, October 22.

42. **Peigneux, P., & Van der Linden, M. (1997).** Presentation of a theoretically-based assessment tool : the “Batterie d’Evaluation des Praxies” [Présentation d'un outil d'évaluation théoriquement fondé: la Batterie d'Evaluation des Praxies] (French) Séminaires du Centre de Jour de la Mémoire, CHU Liège, Belgique, October 14.

G. POSTER PRESENTATIONS AT INTERNATIONAL CONFERENCES

A. POSTER PRESENTATIONS WITH PUBLISHED ABSTRACTS

FIRST OR LAST AUTHOR

1. Rauchs G, Orban P, Schmidt C, Albouy G, Sterpenich V, Tinguely G, Maquet P, **Peigneux P.** (2008). Sleep modulates both spatial and contextual memory in virtual navigation. 19th Congress of the European Sleep Research Society, 9-13 September 2008, Glasgow, UK. Journal of Sleep Research 17(S1), P548.
2. Garraux G., **P. Peigneux**, K. D’Ostillo (2008) Neural correlates of automatic motor responses: an event-related fMRI study. Program N° 277.29/LL21. Abstract Viewer/Itinerary planner. 38th annual meeting of the Society for Neuroscience, Washington, DC, USA, November 15 – 19
3. Orban P, **Peigneux P**, Laberenne F, Maquet P, Benali H & Doyon J (2008) Experience-dependent and -independent neural networks for performance changes in motor sequence learning. In TENNET: Theoretical and Experimental Neuropsychology - XVII Annual Meeting, Montreal, Canada June 21-23 Brain and Cognition 67 (Suppl. 1), p. 33.
4. Orban P, **Peigneux P**, E, Laberenne F, Lungu O, Albouy G, Benali H, Maquet P, Doyon J. Experience-dependent and –independent neural networks for performance changes in motor sequence learning. Novembre 2007. 36th annual meeting of the Society for Neuroscience. San Diego, USA.
5. Schmitz R, Schabus M, Luxen A, Maquet P & **Peigneux P** (2007). Recurrent boosting effect of short inactivity delays on motor performance in the probabilistic serial reaction time task: an ERP study. In Abstracts of the 2007 Annual Meeting of the Belgian Association for Psychological Sciences (BAPS), p. 97. Louvain-la-Neuve, Belgium, June 1st
6. Schmitz R, Willems S & **Peigneux P** (2007). Cerebral hemispheric asymmetries in sleep-dependent processes of memory consolidation. In Abstracts of the 2007 Annual Meeting of the Belgian Association for Psychological Sciences (BAPS), p. 98. Louvain-la-Neuve, Belgium, June 1st
7. **Peigneux P**, Schabus M, Schmitz R, Maquet P (2006) ERP correlates of sleep-dependent memory consolidation in the probabilistic serial reaction time (SRT) task. In 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1

8. Rauchs G, Orban P, Schmidt C, Balteau E, Luxen A, Maquet P, and **Peigneux P** (2006) Sleep-dependent changes in brain activity subserving human navigation. In 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1
9. **Peigneux P**, Schabus M, Schmitz R, Luxen A, Maquet P (2006) ERP correlates of sleep-dependent memory processing in the probabilistic serial reaction time task. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S576
10. **Peigneux P**, Rauchs G, Orban P, Schmidt C, Balteau E, Degueldre C, Ferrara A, Luxen A, Maquet P (2006) Insular-hippocampal involvement in non-aversive auditory trace conditioning. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S551
11. **Peigneux P**, Van der Loo E, Balteau E, Degueldre C, Luxen A, Maquet P, Salmon E (2006) Cerebral correlates of the visual processing of familiar, unfamiliar and anatomically impossible postures. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S519
12. Rauchs G, Orban P, Balteau E, Degueldre C, Luxen A, Maquet P, **Peigneux P** (2006) Dissociating spatial and contextual memory components in virtual navigation. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S552
13. Orban P, Sella F, Rauchs G, Balteau E, Rainville C, Luxen A, Maquet P, **Peigneux P** (2006) Offline persistence of spatial and procedural learning-related brain activity in hippocampal amnesia. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S329
14. Schmidt C, Dang-Vu T, Orban P, Perrin F, Vandewalle G, Dijk D-J, Collette F, **Peigneux P** (2006) Time-of-day modulations of regional cerebral blood flow response in functional brain imaging studies : a meta-analysis. In 20th Annual Meeting of the Associated Professional Sleep Societies, Salt Lake City, USA. June 17-22. Sleep 29 (Suppl.), S0171
15. Orban P, Balteau E, Degueldre C, Luxen A, Maquet P, **Peigneux P** (2005) Post-training sleep promotes long-term cerebral reorganization in topographical learning-related networks. A fMRI study. In 11th Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada. June 12-16. NeuroImage 26 (1), S321
16. Schmidt C, Dang-Vu T, Orban P, Vandewalle G, Destrebecqz A, D'Argembeau A, Garraux G, Laureys S, Lekeu F, Majerus S, Salmon E, Perrin F, Dijk D-J, Maquet P, Collette F, **Peigneux P** (2005) Time-of-day modulations of rCBF response in functional brain imaging studies : a meta-analysis. In 11th Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada. June 12-16. NeuroImage 26 (1), S1573

17. **Peigneux P**, Orban P, Schmidt C, Balteau E, Degueldre C, Luxen A, Laureys S, Collette F, Maquet P (2005) Long-term persistent neuronal activity and information maintenance in learning-dependent cerebral networks. *In* 11th Annual Meeting of the Organization for Human Brain Mapping, Toronto, Canada. June 12-16. NeuroImage 26 (1), S324
18. Dang-Vu, T.T, Maquet, P, Desseilles, M, Laureys, S, Degueldre, C, Philips, C, **Peigneux, P** (2004) Cerebral correlates of spindle and delta activity during human sleep-wake cycle. *In* 17th Congress of the European Sleep Research Society, Prague, Czech Republic, October 5-9. Journal of Sleep Research, 13(1), 163
19. Dang-Vu, T., Melchior, G., Laureys, S., Degueldre, C., Perrin, F., Philips, C., Maquet, P., **Peigneux, P.** (2004) Cerebral correlates of spindles and delta waves during human sleep-wake cycle. *In* 10th Annual Meeting of the Organization for Human Brain Mapping, Budapest, Hungary, 13 - 17 June 2004. Neuroimage, 22(Suppl. 1), TU131.
20. **Peigneux P**, Laureys S, Fuchs S, Collette F, Perrin F, Olivier L, Reggers J, Lopez A, Degueldre C, Del Fiore G, Aerts J, Luxen A, Maquet P (2002) Memory-dependent changes in parahippocampal activity during human slow wave sleep. Society for Neuroscience Abstracts 28, 179.8
21. **Peigneux P.** Laureys S., Collette F., Fuchs S., Delbeuck X., Phillips C., Aerts J., Del Fiore G., Degueldre C., Luxen A., Cleeremans A. & Maquet P. (2002) Cerebral correlates of complex memory traces reprocessing during post-training rapid eye movements (REM) sleep. a positron emission tomography (PET) study. 3rd Forum of European Neuroscience. Paris, July 13-17. Federation of European Neuroscience Societies (FENS) Abstracts 1, 26
22. **Peigneux P.** Laureys S., Collette F., Fuchs S., Delbeuck X., Degueldre C., Del Fiore G., Aerts J., Luxen A., Cleeremans A. & Maquet P. (2002) Sleep likes structure! Information-dependent cerebral reactivations during post-training REM sleep 16th Congress of the European Sleep Research Society. Reykjavik, June 3-7, 2002 Journal of Sleep Research 11, 172.
23. **Peigneux, P.**, Van Der Linden, M., Laureys, S., Degueldre, C., Del Fiore, G., Aerts, J., Moonen, G, Luxen, A., Salmon, E. (2001). Parcellation of gesture-related processes around the bilateral occipito-temporal junction. [Abstract]. Movement Disorders, 16 (Suppl. 1), 56.
24. **Peigneux, P.**, Salmon, E., Laureys, S., Luxen, A., Van der Linden, M. (2001) Bilateral occipito-temporal parcellation of gesture-specific processes [Abstract]. Behavioral Pharmacology, 12 (Suppl. 1), S76.
25. **Peigneux, P.**, Salmon, E., Garraux, G., Deguledre, C., Aerts, J., Del Fiore, G., Moonen, G., Luxen, A., Van der Linden, M. (2001). Functional segregation of the processing levels within a gesture-specific visual pathway [Abstract]. NeuroImage, 13(6), S927.

26. **Peigneux, P., Salmon, E., Luxen, A., Van der Linden, M.** (2001) Bilateral pathway for two stages in the visual processing of gestures [Abstract]. Journal of Cognitive Neuroscience (Suppl), 103.
27. Salmon, E., Garraux, G., Collette, F., **Peigneux, P.** (2001) Motor slowness without parkinsonism. A characteristic clinical sign in Alzheimer's disease [Abstract]. Journal of the Neurological Sciences, 187 (Suppl), 139.
28. **Peigneux, P., Salmon, E., Willems, S., Garraux, G., Laureys, S., Degueldre, C., Lemaire, C., Luxen, A., Moonen, G., Franck, G., Destée, A., Van der Linden, M.** (2000) L'apraxie gestuelle dans la dégénérescence cortico-basale. Evaluation cognitive et imagerie cérébrale. [Abstract] (French) Revue de Neuropsychologie, 11(1), 130-131.
29. **Peigneux, P., Salmon, E., Garraux, G., Lemaire, C., Luxen, A., Franck, G., Destée, A., Van der Linden, M.** (2000) Cognitive neuropsychological and brain imaging investigation of apraxia in corticobasal degeneration. [Abstract].NeuroImage,11(5), S117.
30. **Peigneux, P., Maquet, P., Cleeremans, A., Degueldre, C., Luxen, A., Van der Linden, M., and Franck, G.** (1999) Caudate nuclei forever though implicit learning disparities [Abstract]. Neuroimage, 9, S964
31. **Peigneux, P., Salmon, E., Van der Linden, M., Luxen, A., Orban, G.A., & Franck, G.** (1999). Functional neuroimaging of intransitive gestures visual analysis [Abstract]. Cognitive Neuroscience Society Abstracts. Journal of Cognitive Neuroscience,(Suppl.), 77.
32. **Peigneux, P., Salmon, E., Van der Linden, M., Garraux, G., Willems, S., Destee, A., & Franck, G.** (1999). Limb apraxia and corticobasal degeneration. Metabolic and neuropsychological exploration [Apraxie gestuelle et dégénérescence cortico-basale: Exploration métabolique et neuropsychologique] (French) [Abstract] Revue Neurologique, 155, S101.
33. **Peigneux, P., Van der Kaa, M., Dive, D., Van der Linden, M., & Franck, G.** (1999). Neuropsychological exploration of kinesthaesic or afferent apraxia [Exploration neuropsychologique d'une apraxie afférente ou kinesthésique] (French) [Abstract]. Revue Neurologique, 155, S101.
34. **Peigneux, P., Van der Linden, M., Collette, F., Garraux, G., Luxen, A., Franck, G., and Salmon, E.** (1999) Functional neuroimaging of a cognitive model for apraxia [Abstract]. Journal of Neurology, 246, (Suppl. 1), 107.
35. **Peigneux, P., Van der Linden, M., Delbeuck, X., and Degueldre, C.** (1999) Exploration of the nature of the representation of meaningless gestures using a priming paradigm [Exploration de la nature des représentations de gestes sans

- significations au moyen d'une procédure d'amorçage] (French) [Abstract]. Revue de Neuropsychologie, 9(2-3), 298-299.
36. **Peigneux**, P., Van der Linden, M., Lekeu, F., Pace, J., & Salmon, E. (1999). Neuropsychological exploration of limb apraxia in Alzheimer's disease [Exploration neuropsychologique de l'apraxie gestuelle dans la maladie d'Alzheimer] (French) [Abstract]. Revue Neurologique, 155, (Suppl. 3), 66.
37. **Peigneux**, P., Van der Linden, M., & Salmon, E. (1999). Gestures and objects visual perception : a functional segregation [La perception visuelle de gestes et d'objets: ségrégation fonctionnelle cérébrale] (French) [Abstract]. Revue de Neuropsychologie, 9(4), 411-412.
38. **Peigneux**, P., Van der Linden, M., Salmon, E., Luxen, A., Orban, G. A., and Franck, G. (1999) Functional segregation of the visuo-gestural analysis: a PET study [Abstract]. Neuroimage, 9, S884.
39. **Peigneux**, P., Maquet, P., Van der Linden, M., Meulemans, T., Degueldre, C., Delfiore, G., Luxen, A., Cleeremans, A., & Franck, G. (1998). Processing of contextual information during an implicit probabilistic sequence task: left ventrolateral prefrontal cortex involvement [Abstract]. Neuroimage, 7, S883
40. **Peigneux**, P., Salmon, E., Van der Linden, M., & Franck, G. (1998). Alteration of the gestural output lexicon and left parietal hypometabolism [Atteinte du lexique de sortie des gestes et hypométabolisme pariétal gauche] (French) [Abstract]. Revue Neurologique, 154, 100-100.
41. **Peigneux**, P., & Van der Linden, M. (1998). Theoretically-based assessment of apraxia : the B.E.P. [Evaluation des Praxies théoriquement fondée: La B.E.P.] (French) [Abstract]. Revue Neurologique, 154, 99-99.

CO- AUTHOR

42. Neu D, Pouchkina A, **Peigneux P**, Hoffmann G, Verbanck P, Linkowski P, Le Bon O (2008) Cognitive impairment in fatigue and sleepiness associated conditions. In 22nd Annual Meeting of the Associated Professional Sleep Societies, LLC, Baltimore, Maryland, USA, June 7-12. Sleep (31) Suppl. 1: A18
43. Albouy G., Sterpenich V., Darsaud A., Rauchs G., Vandewalle G., Dang-Vu TT., Gais S., Desseilles M., Balteau E., Degueldre C., Luxen A., **Peigneux P.**, Luppi P-H., Nicolas A., Lecaigard F., Delpuech C., Bertrand O., Maquet P. (2007) The role of sleep in motor memory consolidation assessed by fMRI and MEG, Society for Neuroscience, San Diego, California
44. Albouy G, Sterpenich G, Darsaud A, Balteau E, Luppi PH, Luxen A, **Peigneux P**, and Maquet P (2006) The role of sleep in motor memory consolidation assessed by fMRI. In 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1

45. Sterpenich G, Albouy G, Boly M, Vandewalle G, Darsaud A, Balteau E, **Peigneux P**, and Maquet P (2006) The role of sleep in the consolidation of emotional memories in humans: a fMRI study. In 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1
46. Schmidt C, Muto V, **Peigneux P**, Schenkel M, Knoblauch V, Wirtz-Justice A, and Cajochen C (2006) Encoding difficulty promotes post-learning changes in spindle activity during napping. In 18th Annual Congress of the ESRS, Innsbruck, Austria, September 12-16. Journal of Sleep Research (15) Suppl. 1
47. Boly M, Balteau E, Schnakers C, Kupers R, Ngawa M, Moonen G, Lamy M, **Peigneux P**, Maquet P, Faymonville MA, Laureys S (2006) An event-related thulium-YAG laser fMRI study of hypnosis-induced analgesia. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S431
48. Darsaud A, Balteau E, Desseilles M, Sterpenich V, Vandewalle G, Albouy G, Dang-Vu T, Collette F, Boly M, Garraux G, **Peigneux P**, Degueldre C, Wagner U, Luxen A, Maquet P (2006) Hippocampal response at training promotes insight after sleep. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. u (1), S338
49. Gais S, Albouy G, Boly M, Dang-Vu T, Darsaud A, Desseilles M, Rauchs G, Sterpenich V, Vandewalle G, **Peigneux P**, Maquet P (2006) Sleep after declarative learning increases hippocampal activity at delayed recall. In 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy. June 11-15. NeuroImage 31 (1), S575
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B. POSTER PRESENTATIONS : OTHERS

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