

Jean-Claude Dreher

Doctor in Cognitive Neuroscience (Ph.D)

Current work:

Research director, DR2, HDR, CNRS
Head of the "Reward and decision making" group,
Center for Cognitive Neurosciences
67 bd Pinel, 69675 Bron, FRANCE
phone: (334)3791 12 38; <http://www.isc.cnrs.fr/dre/index.html>
dreher@isc.cnrs.fr



Education

1992 Master's degree in Mathematics ("Maîtrise"), Orsay University
1993 Master's degree in Cognitive Science ("Diplôme d'Etudes Approfondies"), graduated with distinction, Orsay University
1996 Research degree in Psychopathology, graduated with distinction, Paris VII University.
1999 Jan 28 th Ph.D in cognitive neuroscience (Summa Cum Laude).
INSERM U 483, Paris VI University
Mentor: Dr Yves Burnod, Board members: Dr F Alexandre, Dr J-F Allilaire, Dr S Dehaene, Dr J-M Deniau and Dr J-L Martinot
Thesis: "Model of dopamine modulation in the prefrontal cortex and study of sensori-motor sequences in schizophrenia".

Professional experience

1992-1993 Clinical training in psychiatry (mentor: Dr M-C Hardy-Bayle, psychiatric department, Versailles).
Oct 1993-july 1995 Military service as a civil teacher of mathematics in Hungary.
May 1999- May 2000: First year of post-doctorate in the Cognitive Neuroscience Section, NINDS, NIH, USA. Mentor: Jordan Grafman.
June 2000-April 2004: Post-doctorate in the Unit on Integrative Neuroimaging. Clinical Brain Disorders Branch, NIMH, NIH, USA. Mentors: Karen Berman and Daniel Weinberger.
April 2004-present: Researcher (Principal investigator of the group "Reward and decision making") at the French research institute CNRS (CR1, ranked n°1 in the section "Fonction mentales- Neurosciences intégratives- Comportement"). Institut des Sciences Cognitives, Lyon, France.
June 2006: HDR (French post-doctoral degree to supervise PhD students) ("Habilitation à la Direction de la Recherche").
June 2011: Research director 'DR2' at the CNRS

Awards

2002 and 2003 Fellow Award for Research Excellence at the NIH

Grants 2005-2011:

2005 Young investigator grant from the "Fondation pour la recherche médicale". Genetic influences on the reward system, 30 KE
2005 European Young investigator reintegration grant (FP6 program): Genetic and Hormonal Influences on Reward Processing, 80 KE
2005 Grant from the Psychiatric Hospital (Lyon) in schizophrenia, 40 KE
2005 Grant from the Fyssen foundation on "reward and decision making", 40 KE
2006 Grant from the "Fondation pour la recherche médicale" on the effects of hormones and aging on the reward system, 150 KE

2007	Grant from for international collaboration with NIMH, 8 KE
2007	Grant from the Psychiatric Hospital (Lyon) on 'Neuroimaging study of genetic/environment interactions: influence of pharmacological stress on brain activation in schizophrenia', 40 KE
2008	Grant from the MILDT/INSERM on pathological gambling, 46 KE
2009	Grant 'Cluster vieillissement', 10 KE
2009	Grant 'Cible, Région Rhône Alpes', 120 KE
2010	Grant from the "Fondation France Parkinson" on Impulse control disorders, 220 KE
2010	Grant from the "Fondation de France", 34 KE
2010	Grant from the Cluster-HVN on pathological gambling, 17 KE
2011	Grant from the pmu on pathological gambling, 80 KE
2011	Grant from the ANR on neuroeconomics, 220 KE

Ad-hoc reviewer for peer-review journals:

Science

Nature neuroscience

Trends in Neuroscience

Journal of Neuroscience

Cerebral Cortex

Neuroimage

Human Brain Mapping

Biological Psychiatry

Psychological Science.

Review editor for the Frontiers in Human Neuroscience

Professional Affiliations:

Society for Neuroscience

Human Brain Mapping

Société des Neurosciences Française

Ad-hoc reviewer for granting agencies and book publishers:

- FP6 and FP7 European program grants

- Wellcome trust (UK)

- National Science Foundation

- Elsevier Academic Press

Ph.D thesis defense committees:

- C. Landmann, directed by S. Dehaene;

- C. Oudy, directed by E. Koechlin;

- M. Bertin, directed by K. Doya

- A. Collins, directed by E. Koechlin

- S. Charon, directed by E. Koechlin

Peer reviewed publications

Journal articles

- 24 J Thomas**, G. Vanni-Mercier, **J-C Dreher**. Neural dynamics of reward probability coding: a magnetoencephalographic study in humans, *under review*
- 23 G Sescousse**, X Caldù, B Segura, **J-C Dreher**, Common and specific neural structures processing primary and secondary rewards: a quantitative voxel-based meta-analysis, *under review*
- 22 J-C Dreher**, P. Koch, A. Meyer-Lindenberg, M. Egan, D. Weinberger and K.F. Berman. Common and differential pathophysiological features accompany identical cognitive impairments in schizophrenia and healthy aging, *under review*
- 21- E Météreau** and **J-C Dreher**. Cerebral correlates of salient prediction error for different rewards and punishments, *under review*
- 20- C. Prévost**, M. Pessiglione, E. Météreau, M-L. Cléry-Melin, **J-C Dreher**. Separate valuation subsystems for delay and effort decision costs, *Journal of Neuroscience*, 30(42):14080-90, 2010
- 19- G. Sescousse**, J. Redouté, **J-C Dreher**. The architecture of reward value coding in the orbitofrontal cortex, *Journal of Neuroscience*, 30(39):13095-104, 2010
- 18- P. Domenech** and **J-C Dreher**. Decision threshold modulation in the human brain, *Journal of Neuroscience*, 30(43):14305-14317, 2010
- 17- G. Vanni-Mercier**, F. Mauguière, J. Isnard, M Guénot and **J-C Dreher**. The hippocampus codes the uncertainty of cue-outcome associations: an intracranial electrophysiological study in humans, *Journal of Neuroscience*, 29(16): 5287–5294, 2009
- 16- J-C Dreher**, P. Kohn, B. Kolachana, D.R. Weinberger and K.F. Berman. Variation in dopamine genes influences responsivity of the human reward system, *Proceedings of the National Academy of Sciences USA*, vol 106 no. 2, 617-622, 2009
- 15- J-C Dreher**, A. Meyer-Lindenberg, P. Kohn and K.F Berman. Age-related changes in midbrain dopaminergic regulation of the human reward system, *Proceedings of the National Academy of Sciences USA*, vol. 105 no. 39, 15106-15111, 2008
- 14- J-C Dreher**, E. Koechlin, M. Tierney, J. Grafman. Damage to the fronto-polar cortex is associated with impairment in multitasking, *PLoS One*, Volume 3, Issue 9: e3227, 2008
- 13 - X. Caldú** and **J-C Dreher**, Hormonal and genetic influences on processing reward and social informations, *Ann N Y Acad Sci*. 1118:43-73, 2007
- 12 - J-C Dreher**, Sensitivity of the brain to loss aversion during risky gambles, *Trends in Cognitive Sciences*, Vol 11, Issue 7, 270-272, 2007
- 11 - Lachaux**, J.P, Jung, J, Mainy, N, **J-C Dreher** Bertrand, O, Baciú, M, Minotti, L., Hoffmann, D., Kahane, P. Silence is golden: transient neural deactivation in the Prefrontal Cortex during attentive reading, *Cerebral Cortex*, Feb;18(2):443-50, 2008
- 10 - J-C Dreher**, P.J. Schmidt, P. Kohn, D. Furman, D. Rubinow, K.F. Berman. Menstrual cycle phase modulates reward-related neural function in women, *Proceedings of the National Academy of Sciences USA*, 104 (7), 2465-2470, 2007

- 9 - J-C. Dreher**, P Kohn, K Berman. Neural coding of distinct statistical properties of reward information in humans, *Cerebral Cortex*, 16 (4): 561-573, 2006
- 8 - J-C. Dreher**, J Grafman. Dissociating the roles of the rostral anterior cingulate and the lateral prefrontal cortex in performing two tasks simultaneously or successively, *Cerebral Cortex*, 13 (4), 329-339, 2003
- 7 - J-C. Dreher**, K Berman. Fractionating the neural substrate of cognitive control processes, *Proceedings of the National Academy of Sciences USA*, 99 (22), 14595-14600, 2002
- 6 - J-C. Dreher**, E Guigon, Y Burnod. A model of prefrontal cortex dopamine modulation in the delayed alternation task, *Journal of Cognitive Neuroscience*, 14 (6), 853-865, 2002
- 5 - J-C. Dreher**, E Koechlin, S.O Ali, J Grafman. The roles of timing and task order during task switching, *Neuroimage*, 17 (1), 95-109, 2002
- 4 - J-C. Dreher**, Y Burnod. An integrative theory of the phasic and tonic modes of dopamine modulation in the prefrontal cortex, *Neural Networks*, 15/4-6, 583-602, 2002
- 3 - J-C Dreher**, J Grafman. The roles of the cerebellum and basal ganglia in timing and error prediction, *European journal of Neuroscience*, 16 (8), 1609-1619, 2002
- 2 - J-C. Dreher**, J-P Banquet, J-F Allilaire, M-L Paillere-Martinot, B Dubois, Y Burnod. Temporal order and spatial memory in schizophrenia: a parametric study, *Schizophrenia research*, 51 (2-3), 137-147, 2001
- 1 - J-C Dreher**, W Trapp, J-P Banquet, M Keil, W Günther, Y Burnod. Planning dysfunction in schizophrenia: impairment of potentials preceding fixed/free and single/sequence of self-initiated finger movements. *Exp. Brain Res.*, 124 (2): 200-14, 1999

Communication in international meetings

- 1- **J-C Dreher**, E Guigon, J-P Banquet, Y Burnod. A model of working model dopamine modulation in the prefrontal cortex, EUR J NEUROSCI 10: 17617 Suppl. 10 1998
- 2- **J-C Dreher**, E Guigon, Y Burnod. A model of working memory dopamine modulation in prefrontal cortex, Second international conference on cognitive and neural systems, Boston, may 1998
- 3- **J-C Dreher**, E Guigon, Y Burnod. A model of working memory dopamine modulation in prefrontal cortex, Second International Workshop on Neural Modeling of Brain and Cognitive Disorders, Washington, June 1998
- 4- **J-C Dreher**, J-P Banquet, J-F Allilaire, B Dubois, Y Burnod, Characterization of spatial working memory and sequence reproduction deficits in schizophrenia. BRAIN COGNITION 47 (1-2): 244-249 OCT-NOV 2001
- 5- **J-C. Dreher**, E Koechlin, O Ali, J Grafman, Dissociation of timing expectancy and task order anticipation during task switching, J COGNITIVE NEUROSCI : 28B, p 50, Suppl. 2001
- 6- **J-C. Dreher**, P Kohn, K Berman, The neural basis of backward inhibition during task switching, NEUROIMAGE 13 (6): S311-S311 Part 2 Suppl. S JUN 2001
- 7- **J-C. Dreher**, J Grafman, Dissociating the roles of the rostral anterior cingulate and the lateral prefrontal cortices in parallel and sequential memory retrieval, Society for Neuroscience meeting, San Diego, 2001
- 8- **J-C. Dreher**, K Berman, Dissociating the roles of the ventrolateral prefrontal cortex and anterior cingulate cortex in cognitive control, J COGNITIVE NEUROSCI: C35 Suppl. S APR 2002
- 9- **J-C. Dreher**, A. Meyer-Lindenberg, N. Dixit, M. Egan, D. Weinberger, K. Berman, Brain activation in healthy aging subjects and schizophrenics matched in performance on a working memory task, Society For Neuroscience meeting, invited talk, Orlando, 2002
- 10- **J-C. Dreher**, A. Meyer-Lindenberg, M. Egan, D. Weinberger, K. Berman, Common and Unique pathophysiological features in schizophrenia and healthy aging, Human Brain Mapping, New York, 2003
- 11- **J-C. Dreher**, P Koch, A. Meyer-Lindenberg, A. Bonner-Jackson, K. Berman, Respective contributions of aging and performance to brain activation during working memory, Society For Neuroscience meeting, New Orleans, 2003
- 12- **J-C. Dreher**, P Kohn, K.F. Berman, Neural coding of the statistical properties of reward information in humans, Cognitive Neuroscience Meeting, San Fransisco, 2004
- 13- **J-C Dreher**, P Kohn , P Koch, K Berman, Functional properties of the sustained and phasic activities of the reward system in humans, Human Brain mapping, Budapest, 2004
- 14- **J-C Dreher**, P Kohn, B Kolachana, M Egan, D Weinberger, K Berman. Effect of COMT Val108/158 Met genotype on brain activation during anticipation of uncertain rewards, Human Brain mapping, Budapest, 2004
- 15- **J-C Dreher**, P Kohn, B Kolachana, M Egan, D Weinberger, K Berman. Effect of COMT Val108/158 Met genotype on brain activation during anticipation of uncertain rewards, Human Brain mapping, Collegium Internationale Neuro-psychofarmacologicum (CINP), Paris, June 2004

- 16- J-C Dreher**, P Koch, P Kohn, A Meyer-Lindenberg, D Weinberger, K Berman. Respective contributions of aging and performance to brain activation during working memory, European Federation of Neurological Societies (EFNS), Paris, September 2004
- 17- J-C Dreher**, P Koch, P Kohn, K Berman. Neural representations of reward information without decision making in humans, Society For Neuroscience meeting, San Diego, 2004
- 18- KF Berman**, A Meyer-Lindenberg, MF Egan, **J-C Dreher**, B Kolachana, DR Weinberger. The role of dopamine in the pathophysiology of schizophrenia. INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY 7: S65-S66 Suppl. 1, JUN 2004. Cambridge University Press, New York, USA.
- 19- P Koch**, **J-C Dreher**, P Kohn, A Meyer-Lindenberg, KF Berman. Functional connectivity of the midbrain during anticipation of uncertain rewards, Human Brain mapping, Toronto, 2005
- 20- J-C Dreher**, P. Schmidt, P Kohn, D Furman, R Olsen, P Koch, D Rubinow, K Berman. Menstrual cycle phase modulates the reward system in women, Human Brain mapping, Toronto, 2005
- 21- J-C Dreher**, The prefrontal cortex: orientation to the future and to the past. The roles of tasks sequence predictability and history during tasks switching. 7^e Colloque de la Société des Neurosciences, Lille, France, May 18-20, 2005
- 22- J-C Dreher**, P Kohn, P Koch, K Berman. Neural coding of distinct statistical properties of the reward system in humans 8th World Congress of Biological Psychiatry, Vienna, Austria, 28 June-3 July 2005
- 23- J-C. Dreher**, P. Schmidt; P. Kohn; D. Furman; R. Olsen; P. Koch; D. Rubinow K. Berman. Menstrual cycle phase modulates the reward system in women, Society For Neuroscience meeting, Washington DC, Nov. 2005
- 24- D Wint**, P Koch, **J-C Dreher**, D Furman, P Kohn, M Egan, D Weinberger, KF Berman. Effect of antipsychotics on neural activation during reward anticipation in schizophrenia, Society For Neuroscience meeting, Washington DC, Nov. 2005
- 25- J-C. Dreher**, P Kohn, K Berman. Neural coding of distinct statistical properties of reward information in humans, *Alpine Brain Imaging meeting*, January 2006
- 26- J-C. Dreher**. Neural coding of distinct statistical properties of reward information in humans, *invited talk*, Behavioral Economics and Economic Psychology meeting IAREP-SABE, Paris, July 2006
- 27- J-C. Dreher**, A Meyer-Lindenberg, P Kohn, R Nussbaum, A McInerney-Leo, K. Berman. Multimodal neuroimaging of functional changes of the reward system associated with healthy aging, Human Brain Mapping, Florence, June 2006
- 28- D Wint**, D Furman, **J-C Dreher**, P Koch, P Kohn, J Apud, D Weinberger, K Berman. Altered cerebral reward processing in patients with schizophrenia while medication free and on atypical antipsychotics, Human Brain Mapping, Florence, June 2006
- 29- D. P. Wint**, J. A. Apud, **J-C. Dreher**, P. Kohn, D. Sarpal, A. Padmanabhan, V. S. Mattay, B. Kolachana, D. R. Weinberger, K. F. Berman. Effects of COMT inhibition and genotype on neural activation during reward anticipation, Society For Neuroscience meeting, Atlanta, Oct. 2006
- 30- J-C Dreher** and K.F. Berman: Menstrual cycle phase modulates reward-related neural function in women. *Alpine Brain Imaging Meeting*, Champéry, Switzerland, January 2007

- 31- A. Padmanabhan, D.P. Wint, **J-C Dreher**, J.A. Apud, P. D. Kohn, K.V. Roe, D.K. Sarpal, A. Lazerow, V.S. Mattay, B. Kolachana, D.R. Weinberger, K.F. Berman Effects of COMT inhibition on reward processing, Human Brain Mapping meeting, Chicago, USA, 2007
- 32- G. Sescousse, J. Redouté and **J-C Dreher**. Comparing brain networks involved in processing monetary and visually erotic rewards, Human Brain Mapping meeting, Chicago, USA, June 2007
- 33- P Domenech and **J-C Dreher** Uncertainty and predictability during rapid perceptual decision-making, Human Brain Mapping meeting, Chicago, USA, 2007 (invited talk and poster presentation).
- 34- Vanni-Mercier G. Cheylus A. Isnard J. Guénot M. Mauguière F. **J-C Dreher**. The human hippocampus codes reward uncertainty: an intracranial electrophysiological study. Colloque des Neurosciences. Montpellier, France, May 2007
- 35- J. Redouté, G. Sescousse, **J-C Dreher**. Brain imaging studies comparing the neural structures involved in processing rewards of different nature in humans. Colloque des Neurosciences. Montpellier, France, May 2007
- 36- Vanni-Mercier G, Cheylus A, Isnard J, Guénot M, Mauguière F, **J-C Dreher**. The hippocampus codes uncertainty at the time of potential reward outcome: an intracranial electrophysiological study in humans. *Society for Neuroscience meeting*. San Diego. Nov 2007.
- 37- Redouté J, Sescousse G, Domenech P, **J-C Dreher**. Common reward currency allowing choice between rewards of different nature. *Society for Neuroscience meeting*. San Diego. Nov 2007.
- 38- A. Padmanabhan, **J-C Dreher**, D.P. Wint, P.D. Kohn, K.V. Roe, D.K. Sarpal, A. Lazerow, V.S. Mattay, B. Kolachana, J.A. Apud, D.R. Weinberger, K.F. Berman. Effects of Catechol-O-Methyltransferase Inhibition and COMT Genotype on Neural Processing of Reward. *American College of Neuropsychopharmacology meeting*, Florida, December 2007
- 39- E. Météreau and **J-C Dreher**. Common and distinct brain regions involved in processing different nature of positive and negative reinforcements during uncertain situations. Human Brain Mapping meeting, Melbourne, Australia, 2008
- 40- J. Thomas, G Vanni-Mercier and **J-C Dreher**. Temporal dynamics of reward probability coding: a Magnetoencephalographic study in humans. Human Brain Mapping meeting, Melbourne, Australia, 2008
- 41- E. Météreau and **J-C Dreher**. Common and distinct brain regions involved in processing different nature of positive and negative reinforcements during uncertain situations. Human Brain Mapping meeting, Melbourne, Australia, 2008
- 42- C. Prévost, M. Pessiglione, **J-C Dreher**. Delay versus effort-discounting in the human brain, Society for Neuroscience, Washington DC, 2008 (talk)
- 43- **J-C. Dreher**, P Schmidt, E. Baller; P Kohn, D Rubinow, D Furman, K.F. Berman. Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women, Society for Neuroscience, Washington DC, 2008 (talk)
- 44- E. Météreau and **J-C Dreher**. Neural responses underlying predictive learning of different types of rewards and punishments, Society for Neuroscience, Washington DC, 2008 (talk)
- 45- P. Domenech and **J-C Dreher**. Distinguishing two brain systems involved in choosing between different types of rewards. Society for Neuroscience, Washington DC, 2008 (talk)

- 46-** P. Domenech, J Redouté and **J-C Dreher**. Choosing between two types of primary rewards reveals a new functional antero-posterior organization in the medial wall of the frontal cortex. Exciting Biologies meeting, Biology of Cognition, Chantilly, France, October 2008
- 47-** G. Sescousse, **J-C Dreher**. Coding of reward type along an antero-posterior gradient in the human orbitofrontal cortex, Exciting Biologies meeting, Biology of Cognition, Chantilly, France, October 2008
- 48-** G. Sescousse, J. Eche, M. Saoud, T. d'Amato, **J-C. Dreher**, Processing of primary and secondary rewards in patients with schizophrenia, Human Brain Mapping, San Fransisco, June 2009
- 49- J-C. Dreher**; P Schmidt, E. Baller; P Kohn, D Rubinow, D Furman, K.F. Berman. Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women, Human Brain Mapping, San Fransisco, June 2009
- 50-** C. Prévost, M. Pessiglione, E. Météreau, M-L. Cléry-Melin, **J-C Dreher**. Different valuation systems for delay *versus* effort discounting in the human brain, Human Brain Mapping, San Fransisco, June 2009
- 51- Dreher J-C**. Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women, ABIM meeting, Champéry, January 2010
- 52-** Météreau E., Butera L, Villeval M-C, **Dreher J-C**. Effects of image motivation and social norms on the neural correlates of prosocial behavior, Barcelona, June 2010
- 53-** Sescousse G., G. Barbalat, Domenech. P, **Dreher J-C**. Exacerbated response specific to monetary rewards in pathological gamblers, Human Brain Mapping, Barcelona, June 2010
- 54-** Thomas. J, Météreau. E, Pugeat. M, Déchaud. H, **Dreher J-C**. Hormonal replacement therapy modulates the reward system in early post-menopausal women, Human Brain Mapping, Barcelona, June 2010
- 55- Dreher J-C** Neural coding of computational factors affecting decision making, Alpine Brain Imaging Meeting, January 2011

Books and book chapters

Editor of the book “Handbook of Reward and decision making”, Academic Press, Elsevier, 488 pages, 2009.

http://www.elsevier.com/wps/find/bookdescription.cws_home/719325/description#descriptio

This book addresses a fundamental question about the nature of behavior: how does the brain process reward and makes decisions when facing multiple options? The book presents the most recent and compelling lesion, neuroimaging, electrophysiological and computational studies, in combination with hormonal and genetic studies, which have led to a clearer understanding of neural mechanisms behind reward and decision making. The neural bases of reward and decision making processes are of great interest to scientists because of the fundamental role of reward in a number of behavioral processes (such as motivation, learning and cognition) and because of their theoretical and clinical implications for understanding dysfunctions of the dopaminergic system in several neurological and psychiatric disorders (schizophrenia, Parkinson's disease, drug addiction, pathological gambling).

- J-P Banquet, P Gaussier, **J-C Dreher**, C Joulain, A Revel, W Gunther. Space-time, order and hierarchy in Fronto-hippocampal system: a neural basis of personality in: *Cognitive Science*

Perspective on Personality and Emotion, Elsevier Science, Amsterdam, G. Mathews (Editor), p 123-189, 1997

- **J-C Dreher**. Decomposing brain signals involved in value-based decision making. In Dr. Jean-Claude Dreher and Léon Tremblay, editors: *Handbook of Reward and Decision Making*, Oxford:Academic Press, 2009, p. 137-163

- **X Caldu and J-C Dreher**. Gonadal steroid hormones influence on reward and decision making processes. In Dr. Jean-Claude Dreher and Léon Tremblay, editors: *Handbook of Reward and Decision Making*, Oxford:Academic Press, 2009, p. 309-334

- **J-C Dreher**. "La physiologie de la volonté », Chapter on the scientific contribution of Marc Jeannerod for the book: «Les nouveaux psys. Ce qu'ils nous apprennent sur l'esprit humain», directed by Catherine Meyer. Editions Les Arènes, Paris, Mars 2008

Invited talks/lectures

1 - Dissociation between task timing expectancy and task order anticipation during task switching, Cognitive Neuroscience Section, NINDS, NIH, Bethesda, may 2000

2 - Functional organization of the prefrontal cortex: Insights from task switching, University College London, October 2001, UK

3 - Functional Magnetic Resonance imaging studies of task switching, May 2002, Exeter University, UK

4 - Cortex préfrontal, dopamine et schizophrénie: études par imagerie cérébrale et modélisation, Université du Québec à Montréal, Montreal, september 2002

5 - Brain activation in healthy aging subjects and schizophrenics matched in performance on a working memory task, Society For Neuroscience meeting, Orlando, 2002

6 - Prefrontal cortex, dopamine and schizophrenia: insights from brain imaging (fMRI, PET, EEG) and neural network modeling, Brown University, Department of Psychology, Providence, March 2003

7 - Different time scales of dopaminergic modulation, workshop "dopamine and memory: integrating computational and empirical approaches", Cognitive Neuroscience Society meeting, New York, March 2003

8 - Executive functions of the prefrontal cortex: insights from brain imaging and neural network modeling, Rutgers University, Department of Psychology, Newark, New Jersey, April 2003

9 - Executive functions of the prefrontal cortex: insights from brain imaging and neural network modeling, West Virginia University, Department of Physiology and Advanced Brain Imaging Center, May 2003

10 - Decision making and reward: insights from brain imaging (fMRI, PET, EEG) and neural network modeling, New York University, Department of Psychology, May 2003

11 - Respective contributions of aging and performance to brain activation during working memory, Society For Neuroscience meeting, New Orleans, 2003

12 - Different time scales of dopaminergic modulation, Annual Computational Neuroscience meeting, Alicante, Spain, July 2003

- 13 - The prefrontal cortex: orientation to the future and to the past. The roles of tasks sequence predictability and history during tasks switching, Max Planck Institute, Leipzig, June 2004
- 14 - Respective contributions of aging and performance to brain activation during working memory, European Federation of Neurological Societies (EFNS), Paris, September 2004
- 15 - The prefrontal cortex: orientation to the future and to the past. The roles of tasks sequence predictability and history during tasks switching, Orsay Hospital and Neurosciences Institut in Marseille, September 2004
- 16 - Neural representations of reward information without decision making in humans, Society For Neuroscience meeting, San Diego, October 2004
- 17 - The brain as an inferential machine: insights from functional Magnetic Resonance Imaging in the domains of cognitive control and reward processing, Symposium in Advances in Magnetic Resonance Imaging, University of Barcelona & Facultat de Medecina, November 2004
- 18 - The brain as an inferential machine: insights from functional Magnetic Resonance Imaging in the domains of cognitive control and reward processing, Paris at CREA-Ecole Polytechnique (February 2005) and at the "Doctoral school" in University Lyon 2, March 2005
- 19 - Prefrontal cortex and reward system: insights from fMRI, Department of Neurosciences & Clinic of Neurology, University Medical Center, Geneva, April 2005
- 20 - The prefrontal cortex: orientation to the future and to the past. The roles of tasks sequence predictability and history during tasks switching. 7^e Colloque de la Société des Neurosciences, Lille, France, May 18-20, 2005
- 21 - Neural coding of distinct statistical properties of the reward system in humans 8th World Congress of Biological Psychiatry, Vienna, Austria, 28 June-3 July 2005
- 22 - Neural coding of distinct statistical properties of reward information in humans, *Alpine Brain Imaging meeting*, January 2006
- 23- Système de récompense, génétique et schizophrénie : apports de l'IRMf, Symposium Cognition et Génétique dans la Schizophrénie, Juan Les Pins, BMS Pharmaceuticals, Avril 2006
- 24 - Multimodal neuroimaging of functional changes of the reward system associated with healthy aging, Human Brain Mapping, Florence, June 2006
- 25 - Neural coding of distinct statistical properties of reward information in humans, SABE *Society for the Advancement of Behavioral Economics*) and IAREP (*International Association for Research in Economic Psychology*), Paris, June 2006
- 25'- Reward and decision making, September 2006, Institut Pasteur, Paris
- 26 – Reward and uncertainty. Gate, Groupe d'Analyse et de théorie économique, Lyon, 2008
- 27 - Hormonal and genetic influences on the human reward system. Human Brain Mapping meeting, Melbourne, Australia, 2008
- 28 – Fundamental and clinical neuroimaging approaches to reward processing, Talk for the Master2 in Neuroscience, Lyon, January 2008
- 29 – Comportements hyperdopaminergiques. Réunion Troubles du comportement et noyaux gris centraux, Clermont-Ferrand, 2008

- 30 – Brain imaging studies on reward and decision-making, Max Planck Institute (MPI), Berlin, May 2008
- 31 – Fundamental and clinical neuroimaging approaches to reward processing, Talk for the BioScience Master ENS, Lyon, May 2008
- 32 – Neuroimaging approaches to reward processing, Talk to “Troubles du comportement et noyaux gris centraux”, club des Ganglions de la base et des mouvements anormaux, Clermont-Ferrand, June 2008
- 33 – Neuroimaging approaches on reward processing and decision making in humans, Sissa, Trieste, Italy, July 2008
- 34 – Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women. Society for Neuroscience meeting, Washington DC, USA, Nov. 2008
- 35 – Neuroimaging approaches on reward processing and decision making in humans, Cermep, Lyon, October 2008
- 36 – Fundamental and clinical neuroimaging approaches to reward processing, Zurich, Switzerland, October 2008
- 37 – International Workshop “How can cognitive neurosciences inform economics?”, Grenoble, October 23-24, 2009
- 38 – Invited talk Workshop “Reward and decision making: insights from fMRI”, Ross University, Dominica, Caribbees, September 17, 2010
- 39 – Invited talk Donders Institute, Nijmegen, Netherlands, September 21, 2010
- 40 – Invited talk Centre George Pompidou Hospital, Paris, France, October 1, 2010
- 41 – Short Talk at Alpine Brain Imaging Meeting, Neural coding of computational factors affecting decision making, Champéry, Switzerland, January 2011
- 42 – Invited Talk at Cerco, Neuroimaging approaches on reward and decision making, January 20th, Toulouse, 2011
- 43 – Invited Talk at the international workshop experiments on motivation, incentive and rationality, Gate, March 26th, Lyon, 2011
- 44 – Invited Talk at Laboratory for Social and Neural Systems Research, University of Zurich, Neuroimaging approaches on reward and decision making, April 14th, Switzerland, 2011
- 45 – Invited Talk at French Experimental Economics Association (ASFSEE), Prosocial behavior and neuroimaging, May 19th, Schoelcher-Martiniq, France, 2011

Highlights in scientific journals

- Is getting older all that rewarding? Dean Wong, *Proceedings of the National Academy of Sciences USA*, 2008 vol. 105 no. 39 14751-14752
- Cognitive Control. The hectic life of the brain. *Nature Reviews Neuroscience*, Vol 3 n 12, 916, 2002

- Functional organization of the prefrontal cortex: insights from task switching, November 20, published online in *BioMedNet* (new Journal club of *Trends in Cognitive Neuroscience*), 2002
Highlights in scientific journals and in the press

- Multitasking makes you stupid: studies show pitfalls of doing too much at once, *Wall Street Journal*, page D1, February 27, 2003

- De l'influence des hormones sur le cerveau féminin. *Libération*. Article by Edouard Launet. Feb. 20, 2007. <http://www.liberation.fr/vous/236117.FR.php>

- Hommes/Femmes : cerveau mono ou multitâche ? *Le monde de l'Intelligence*, Nadia Daki, 2006
http://www.mondeo.fr/index.php?option=com_content&task=view&id=211&Itemid=1&ed=23

- Comment l'affectif nous rends plus efficaces? Betty Mamane, *Courrier Cadres*, 2006

- Le cerveau humain, indifférent à l'appât du gain ? *Le monde de l'Intelligence*, Nadia Daki, 2006

- Brain's Reward Circuit Activity Ebbs and Flows with a Woman's Fertility, Sex Hormones, *NIMH press release*, Jules Asher, January 2007. <http://www.nih.gov/news/pr/feb2007/nimh-02.htm>
<http://www.healthy.net/scr/News.asp?Id=8927&xcntr=1>
<http://www.sciencein africa.co.za/2007/february/hormones.htm>

- Article in *El Mundo* (Spanish main newspaper). by América Valenzuela

- The brain and the menstrual cycle. Feb 1st 2007. *The Economist*, print edition, Rabya Tuma

- Cuando ella tiene uno de esos días, *El País*, Javier Sampedro, Madrid - 30/01/2007. http://www.elpais.com/articulo/sociedad/tiene/dias/elpepusoc/20070130elpepusoc_11/Tes

- Why women enjoy sex more on certain days. *Telegraph*, Feb 5, 2007. Roger Highfield. <http://www.telegraph.co.uk/news/main.jhtml?xml=/news/2007/02/05/nmoods05.xml>

- Menstrual mood swings may have a use after all, *NewScientist*, Rowan Hooper, 29 January 2007. <http://www.newscientist.com/channel/sex/dn11050-menstrual-mood-swings-may-have-a-use-after-all.html>

- Woman's fertility cycle affects brain, scans show. *Yahoo News*, By Maggie Fox, Health and Science Editor. http://news.yahoo.com/s/nm/20070129/hl_nm/brain_hormones_dc

- Hungarian newspaper *Index*. Értelmet nyert a menstruációs hiszti. 2007. január 30. <http://index.hu/tech/tudomany/mens070130/>

- Menstrual cycle modulates reward pathways. *This Week In PNAS Early Edition*. http://www.pnas.org/misc/highlights.shtml#Menstrual_Neuroscience

- When women are in the mood to make a baby. *New Scientist*. 03 Feb. 2007, Rowan Hooper, Magazine issue 2589. <http://www.newscientist.com/channel/sex/mg19325894.600-when-women-are-in-the-mood-to-make-a-baby.html>

- Le cycle hormonal influence le désir et le plaisir. *Psychomédia*. <http://www.psychomedia.qc.ca/pn/modules.php?name=News&file=article&sid=4964>
- L'appât du gain au Féminin, magazine "e-france", Audrey Loubens, 1/03/2007. http://www.e-france-magazine.fr/consult/05/e-france_05.php
- Eine fruchtbare Lust aufs Risiko, Sueddeutsche, <http://www.sueddeutsche.de/gesundheit/artikel/879/100779/>
- Fruchtbare Lust auf Risiko, Medical Tribune, Fabian Seyfried, <http://www.medical-tribune.de/patienten/news/19611/>
- Quand le cycle menstruel influe sur la perception des récompenses, Magazine *Biofutur*, Safi Douhi, 2/03/2007
- Influence du cycle menstruel sur le cerveau féminin, *Tribune de Lyon*, Sandrine boucher, March 5, 2007
- PMS's Flip Side .*ScienCentralNEWS*, by Joyce Gramza, March 3 2007. http://www.sciencentral.com/articles/view.php3?type=article&article_id=218392903
- Amour, estrogènes et machines à sou. *Cerveau et psycho*, by S. Bohler, April 2007. <http://www.cerveauetpsycho.com/>
- Influence Of The Menstrual Cycle On The Female Brain. *ScienceDaily*. Feb 11, 2007. <http://www.sciencedaily.com/releases/2007/02/070210185849.htm>
- Female Hormones, Reward and Mood. PsychCentral. by Sandra Kiume. Feb 12, 2007. <http://psychcentral.com/blog/archives/2007/02/12/female-hormones-reward-and-mood/>
- Estrogen Enhances Rewards For Women. Futurepundit. by R. Parker. <http://www.futurepundit.com/archives/004052.html>
- Sex hormones influence reward- evoked brain activity in humans. SawfNews. <http://news.sawf.org/Health/33052.aspx>
- Level Of Sex Hormones Determine If A Woman Appreciates Rewards. by T. Mahler. Ezine articles and Newslocale. <http://ezinearticles.com/?Level-Of-Sex-Hormones-Determine-If-A-Woman-Appreciates-Rewards&id=441742>
and:
http://www.newslocale.org/health/hnews/level_of_sex_hormones_determine_if_a_woman_appreciates_rewards_2007022887.html
- Why are women more sexually aroused during ovulation? by Vidura Panditaratne. http://pressesc.com/01172517689_arousal_menstrual_cycle
- *Lyonmag*, article by M. Guillot
- *Sciences et Avenir*, article by Alice Bomboy
- SELF magazine, July 2007, Lee Walker
- Les ressorts du désir. *Ca m'intéresse*. p 64-65
- Quand le cycle menstruel influe sur la perception des récompenses. *Biofutur*. by Safi Douhi. 1/04/2007

- Le rôle des stéroïdes sexuels en IRMf. Le cerveau sous influence. *Le quotidien du médecin*. by Dr Béatrice Vuaille. 02/02/2007
- Les ostrogènes du bonheur. *Impact Médecine*. 01/02/2007
- Why Christmas is more exciting for children than adults, *The Telegraph*, By Roger Highfield, Science Editor.
<http://www.telegraph.co.uk/earth/main.jhtml?xml=/earth/2008/09/15/scigiving115.xml>
- Le cerveau vieillissant apprécie moins les récompenses, *Pour La Science*, n°373, Novembre 2008
- De l'utilité de se creuser les méninges. *Lyon Plus*, Olivier Saison. September 2008
- *Lyon Capitale*, Guillaume Lamy, septembre 2008
- *L'Express*, Gilbert Charles
- Spektrumdirekt, a partner of "Scientific America", Dr. Christian Wolf
- *New Scientist Magazine*, Ewen Callaway
- Le fonctionnement et le vieillissement de notre cerveau mieux compris, *Le Tout Lyon*, September 27, 2008
- *MIND magazine*, december 2008, www.mind-magazine.nl and <http://noorderlicht.vpro.nl/artikelen/40029903/>
- Dopamine et récompense, un lien enfin établi, *La Recherche*, Décembre 2008, n°425, p 20, Patrick Philipon
- De la dopamine et du Père Grandet, Article de Jean-Yves Nau.
<http://titan.medhyg.ch/mh/infos/article.php3?sid=3135>
- Cerveau et vieillissement, *Journal Manip info*, January 2009, Sandra Lerouge
- Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women, Society For Neuroscience, Lay language summary for media, 2008
- Why "My Get Up and Go Got Up and Went", NIMH Press release, Jules Asher
- Le plaisir est-il génétique ? *Pour la Science*. n°377, March 2009, www.pourlascience.fr. Bénédicte Salthun-Lassalle.
- Dopamine levels and the risk-reward system, NIMH Press release, *Carrie Arnold*
- Brain Scanning Gives Clues to How Genes Shape Behavior, Disease Risk. NIMH Science Update. , Feb 27, 2009.
<http://www.nimh.nih.gov/science-news/2009/brain-scanning-gives-clues-to-how-genes-shape-behavior-disease-risk.shtml>
- Is getting older all that rewarding? Commentary on Dreher, PNAS, 2008 paper from Dean F. Wong. Published in *Proc Natl Acad Sci U S A*. 2008 Sep 30;105(39):14751-2. 2008 Sep 23.

- Where choices happen. Different decisions are made in different areas of the brain's frontal lobes. *Science News. By Solmaz Barazeh, March 1, 2009.
http://www.sciencenews.org/view/generic/id/41318/title/Where_choices_happen

<http://fr.news.yahoo.com/68/20090425/tsc-l-hippocampe-une-zone-du-cerveau-qui-04aaa9b.html>

<http://www2.cnrs.fr/presse/communiqu/1574.htm>

- Rien n'arrête la fièvre du jeu. Article Sciences et Avenir, Juin 2010

- Sexe et argent n'excitent pas le cerveau de la même façon, Le Figaro. Marc Mennessier

- <http://www.lefigaro.fr/sciences-technologies/2010/09/28/01030-20100928ARTFIG00813-sexe-et-argent-n-excitent-pas-le-cerveau-de-la-meme-facon.php>

- "Sexe, argent : à chaque plaisir sa zone du cerveau", Le Progrès, 29/09/2010.

- "Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau", AFP (extraction revue de presse nationale CNRS), le 28/09/2010

- "Sexe, argent : à chaque plaisir sa zone du cerveau", Ouest France, 29/09/2010

- Oui, sexe et argent ne procurent pas le même plaisir, Le Point, 29/09/2010

http://www.lepoint.fr/societe/oui-sexe-et-argent-ne-procurent-pas-le-meme-plaisir-28-09-2010-1242398_23.php

Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau. L'express. 29 Sep. 2010.

http://www.lexpress.fr/actualites/1/gout-de-l-argent-et-plaisir-erotique-stimulent-des-zones-differentes-du-cerveau_923338.html

<http://www.cnrs.fr/insb/recherche/parutions/articles2010/jc-dreher.htm>

<http://www2.cnrs.fr/presse/communiqu/1986.htm>

<http://www.lefigaro.fr/sciences-technologies/2010/09/28/01030-20100928ARTFIG00813-sexe-et-argent-n-excitent-pas-le-cerveau-de-la-meme-facon.php>

http://www.lexpress.fr/actualites/1/gout-de-l-argent-et-plaisir-erotique-stimulent-des-zones-differentes-du-cerveau_923338.html

http://www.lepoint.fr/societe/oui-sexe-et-argent-ne-procurent-pas-le-meme-plaisir-28-09-2010-1242398_23.php

<http://www.liberation.fr/depeches/01012293102-gout-de-l-argent-et-plaisir-erotique-stimulent-des-zones-differentes-du-cerveau>

<http://www.leprogres.fr/fr/article/3880742/Sexe-argent-a-chaque-plaisir-sa-zone-du-cerveau.html>

<http://fr.news.yahoo.com/73/20100928/tfr-oui-sexe-et-argent-ne-procurent-pas-0e31ec3.html>

<http://www.informationhospitaliere.com/actualite-18692-sexe-argent-zones-cerebrales-specifiques-chaque-plaisir.html>

http://www.laposte.net/thematique/actualites/france/article.jsp?idArticle=20100928230000-oui--sexe-et-argent-ne-procurent-pas-le-meme-plaisir&idAgg=actu_france

<http://news.fr.msn.com/m6-actualite/economie/article.aspx?cp-documentid=154797628>

<http://www.24heures.ch/actu/monde/argent-erotisme-stimulent-zones-differentes-cerveau-2010-09-29>

Date	Name of the media	Title of the article/ tv show
29/09/2010	Sciencesetavenir.fr	Sexe, argent : des zones cérébrales spécifiques « plaisir »
29/09/2010	Psychomedia.qc.ca	Les récompenses primaires (sexe) et secondaires (argent) activent différentes régions du cerveau
29/09/2010	24heures.ch	Argent et sexe ne font pas tilt dans le même recoin du cerveau
29/09/2010	Le Figaro	Le sexe et l'argent n'excitent pas le cerveau de la même manière
29/09/2010	24hsante.com	Sexe, argent : des zones cérébrales spécifiques à chaque plaisir
29/09/2010	aliceadsl.fr	Sexe, argent : à chaque plaisir son coin de cerveau
29/09/2010	aufaitmaroc.com	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
29/09/2010	Biotech.info	Séquençage du génome de Chlorella
29/09/2010	ladepeche.fr	Chaque plaisir de la vie pourrait correspondre à une zone spécifique du cerveau
29/09/2010	laposte.net	Oui, sexe et argent ne procurent pas le même plaisir
29/09/2010	laprovence.com	Chaque plaisir de la vie pourrait correspondre à une zone spécifique du cerveau
29/09/2010	lefigaro.fr	Sexe et argent n'excitent pas le cerveau de la même façon
29/09/2010	leparisien.fr	Désirs sexuels et d'argent, deux zones distinctes dans notre cerveau
29/09/2010	leprogres.fr	Sexe, argent : à chaque plaisir sa zone de cerveau
29/09/2010	lexpress.fr	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
29/09/2010	medisite.fr	Cerveau : plaisir sur commande ?
29/09/2010	nordnet.fr	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
29/09/2010	radio-canada.ca	Cerveau humain : plus d'un siège de la récompense
29/09/2010	rtbf.be	argent et plaisir érotique, des zones différentes du cerveau
29/09/2010	science.gouv.fr	Sexe, argent : des zones cérébrales spécifiques à chaque plaisir
29/09/2010	tribunedegeneve.ch	Argent et sexe ne font pas tilt dans le même recoin du cerveau
29/09/2010	tf1.fr	Sexe, argent : à chaque plaisir son coin de cerveau
29/09/2010	France 5	Le magazine de la santé
29/09/2010	Lyon Plus	Les plaisirs localisés du cerveau
29/09/2010	Ouest France	Sexe, argent : à chaque plaisir sa zone du cerveau
29/09/2010	RTL	RTL Petit matin
29/09/2010	France24.com	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
28/09/2010	romandie.com	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
28/09/2010	Yahoo.fr	Oui, sexe et argent ne procurent pas le même plaisir
28/09/2010	lepoint.fr	Oui, sexe et argent ne procurent pas le même plaisir
28/09/2010	AFP	Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau
28/09/2010	relaxnews.com	Chaque plaisir de la vie pourrait correspondre à une zone spécifique du cerveau

Fric et sexe font chambre à part dans le cerveau. Libération, Alice Géraud, 12 Octobre 2010

<http://www.liberation.fr/vous/01012295707-fric-et-sexe-font-chambre-a-part-dans-le-cerveau>

Audio-visual Media:

- Nieuwslicht, a Dutch program on Science broadcasted every week on national television.
- Austrian Broadcasting Corporation bilingual radio station, FM4 (<http://en.wikipedia.org/wiki/FM4>).
- France National radio. France Info, 8 octobre 2008

- National TV France FR3.

http://jt.france3.fr/regions/popup.php?id=b69a_1920&video_number=0

- National TV M6. E=M6. 'Jeu de hasard', 13 Dec. 2009

http://www.m6.fr/emission-em6/video/detail-38561-13_12_2009_pourquoi_joue_t_on.html

- Canal+. L'effet papillon. Jeu pathologique et IRMf, avec G. Sescousse.

<http://www.canalplus.fr/pid3356.htm?nav=1>, 20 février 2010

- TV5 Monde. Goût de l'argent et plaisir érotique stimulent des zones différentes du cerveau

TLM: http://www.lepost.fr/video/2010/10/02/2246421_tlm-journal-du-01-10-2010.html

France 2 : http://info.francetelevisions.fr/video-info/player_html/index-fr.php?id-video=MAM_350000000012234_201010011029_F2&chaîne=&id-categorie=&ids=&timecode=false&sequence=false

CNRS press release and articles in «Journal du CNRS»:

- Quand le cerveau demande sa récompense, *Journal du CNRS*, Novembre 2005 et journal *Futura Sciences*, décembre 2005

- De l'influence du cycle menstruel sur le cerveau féminin. *Communiqué de presse CNRS*. 29 janvier 2007. Priscilla Dacher. <http://www2.cnrs.fr/presse/communiqu/1018.htm>

- Le fonctionnement et le vieillissement de notre cerveau mieux compris, septembre 2008

<http://www2.cnrs.fr/presse/communiqu/1418.htm>

- Rôle du cortex fronto-polaire dans la planification de nos actions

<http://www.cnrs.fr/sdv/recherche/parutions/articles08/jc.dreher.htm>

- Rôle du cortex fronto-polaire dans la planification de nos actions *Journal du CNRS*, Decembre 2008, Denis Delbecq

- L'hippocampe joue un rôle primordial dans la perception de l'incertitude *Communiqué de presse du CNRS* : 22 avril 2009. <http://www2.cnrs.fr/presse/communiqu/1574.htm>

- Sexe, argent : des zones cérébrales spécifiques à chaque « plaisir ». *Communiqué de presse du CNRS* : 28 Septembre 2010. <http://www2.cnrs.fr/presse/communiqu/1986.htm>

Organization of symposia:

- Organization of the symposium: "Fundamental and clinical neuroimaging approaches to reward processing", with Paul Fletcher, Alain Dagher, Robert Hester and Jean-Claude Dreher, Human Brain Mapping meeting, Melbourne, Australia, 2008

- Chairman of the Reward and Emotion session, HBM 2008, Australia

- Organization of the symposium 'Reward and decision making: electrophysiological, pharmacological and neuroimaging approaches', Société des Neurosciences, May 26-29 2009, Bordeaux, France

- Chairman of the Executive Functions session, Human Brain Mapping meeting 2009, San Francisco
- Chairman of the Emotion and Motivation session, Human Brain Mapping meeting 2010, Barcelone

Organization of conferences at the 'Institut des Sciences cognitives'

- Matthew Rushworth, Oxford University
- Patrik Vuilleumier, Université de Genève,
- Marcel Brass, Max Planck Institute
- Alomit Ishai, Institute of Neuroradiology, Université de Zurich
- Todd Braver, Washington University
- Ricardo Gil-da-Costa, NIMH, Bethesda, USA
- Mathias Pessiglione, Paris
- Rafal Bogacz, Bristol University
- Peter Bossaerts, Caltech
- Hauke Heekeren, Berlin University
- Nicolas Schweighofer, USA
- Roshan Cools, Netherlands
- Markus Ullsberger, Germany
- Philip Tobler, Switzerland

Teaching duties (2004-2011):

- Neuroscience master 2 «Recherches Neurosciences », Lyon