

**PUBLICATIONS OF THE UNIVERSITY  
RESEARCH GROUPS**

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prof. dr. P. Maquet, prof. dr Y. Michotte,  
prof. dr. E. Olivier and dr. L. Ris**

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**VOLUME I**

**Prof. Dr. André Goffinet**

Y. JOSSIN and A.M. GOFFINET

**Reelin signals through phosphatidylinositol 3-Kinase and akt to control cortical development and through mTor to regulate dendritic growth.**

Molecular and Cellular Biology, Vol. 27, nr. 20, pp. . **Impact Factor: 6.77**

Y. JOSSIN, L. GUI and A.M. GOFFINET.

**Processing of reelin by embryonic neurons is important for function in tissue but not in dissociated cultured neurons.**

The Journal of Neuroscience, Vol. 27, nr. 16, pp. 4243-4252. **Impact Factor: 7.45**

**Prof. Dr. Pierre Maquet**

G. ALBOUY, P. RUBY, C. PHILLIPS, A. LUXEN, P. PEIGNEUX and P. MAQUET.

**Implicit oculomotor sequence learning in humans: time course of offline processing.**

Brain Research, Vol. 1090, pp.163-171. **Impact Factor: 2,341.**

A. D'ARGEMBEAU, P. RUBY, F. COLLETTE, C. DEGUELDRE, E. BALTEAU, A. LUXEN, E. SALMON and P. MAQUET.

**Distinct regions of the medial prefrontal cortex are associated with self-referential processing and perspective taking.**

Journal of Cognitive Neuroscience, Vol. 19, nr. 6, pp. 1-10. **Impact Factor: 5,197.**

T. THANH DANG-VU, M. DESSEILLES, D. PETIT, S. MAZZA, J. MONTPLAISIR and P. MAQUET.

**Neuroimaging in sleep medicine**

Sleep Medicine, Vol. 8, pp. 350-373. **Impact factor : 2,795.**

G. VANDEWALLE, S. GAIS, M. SCHALBUS, E. BALTEAU, J. CARRIER, A. DARSAUD, V. STERPENICH, G. ALBOUY, D.J. DIJK and P. MAQUET.

**Wavelength-dependent modulation of brain responses to a working memory task by daytime light exposure.**

Cerebral Cortex, Vol. 6, pp. 1-8. **Impact Factor: 6,519.**

A.D'ARGEMBEAU, P. RUBY, F. COLLETTE, C. DEGUELDRE, E. BALTEAU, A. LUXEN, E. SALMON and P. MAQUET.

**Distinct regions of the medial prefrontal cortex are associated with self-referential processing and perspective taking.**

Journal of Cognitive Neuroscience, Vol. 19(6), pp.935-944. **Impact Factor: 4,997.**

S. GAIS, G. ALBOUY, M. BOLY, T. THANH DANG-VU, A. DARSAUD, M. DESSEILLES, G. RAUCHS, M. SCHABUS, V. STERPENICH, G. VANDEWALLE, P. PEIGNEUX and P. MAQUET.

**Sleep transforms the cerebral trace of declarative memories.**

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M. SCHABUS, T.T.DANG-VU, G. ALBOUY, E. BALTEAU, M. BOLY, J. CARRIER, A. DARSAUD, C. DEGUELDRE, M. DESSEILLES, S. GAIS, C. PHILLIPS, G. RAUCHS, C. SCHNAKERS, V. STERPENICH, G. VANDEWALLE, A. LUXEN and P. MAQUET.

**Hemodynamic cerebral correlates of sleep spindles during human non-rapid eye movement sleep.**

PNAS, Vol. 104(32), pp. 13164-13169. **Impact Factor: 9,958.**

V. STERPENICH, G. ALBOUY, M. BOLY, G. VANDEWALLE, A. DARSAUD, E. BALTEAU, T. THANH DANG-VU, M. DESSEILLES, A.D'ARGEMBEAU, S. GAIS, G. RAUCHS, M. SCHABUS, C. DEGUELDRE, A. LUXEN, F. COLLETTE and P. MAQUET.

**Sleep-related hippocampo-cortical interplay during emotional memory recollection**

PLOS Biology, Vol. 5 (11), e282, pp.1-14. **Impact factor: 13,501.**

**Prof. dr. Yvette Michotte.**

K. LANCKMANS, S. SARRE, I. SMOLDERS and Y. MICHOTTE.

**Use of a structural analogue versus a stable isotope labeled internal standard for the quantification of angiotensin IV in rat brain dialysates using nano-liquid chromatography/tandem mass spectrometry.**

Rapid. Commun. Mass Spectrum, Vol. 21, pp. 1187-1195. **Impact Factor: 3,087**

K. LANCKMANS, B.STRAGIER, S. SARRE, I. SMOLDERS and Y. MICHOTTE.

**Nano-LC-MS/MS for the monitoring of angiotensin IV in rat brain microdialysates: Limitations and possibilities.**

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B. STRAGIER, H. DEMAEGHT, D. DE BUNDEL, I. SMOLDERS, S. SARRE, G. VAUQUELIN, G. EBINGER, Y. MICHOTTE and P. VANDERHEYDEN.

**Involvement of insulin-regulated aminopeptidase and/or aminopeptidase N in the angiotensin IV-induced effect on dopamine release in the striatum of the rat.**

Brain Research, Vol. 1131, pp.97-105. **Impact factor: 2,341.**

A. AXÉN, H. ANDERSSON, G. LINDEBERG, H. RÖNNHOLM, J. KORTESMAA, H. DEMAEGDT, G. VAUQUELIN, A. KARLÉN and M. HALLBERG

**Small potent ligands to the insulin-regulated aminopeptidase (IRAP)/AT(4) receptor.**

J. Pept. Sci. Vol. 13(7):434-444. **Impact factor: 1,768**

**Prof. dr. Etienne Olivier**

M. DAVARE, M. ANDRES, E. CLERGET, J.-L. THONNARD and E. OLIVIER.

**Temporal dissociation between hand shaping and grip force scaling in the anterior intraparietal area.**

The Journal of Neuroscience, Vol. 27, nr. 15, pp. 3974-3980. **Impact Factor: 7,45.**

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**Role of the ipsilateral primary motor cortex in controlling the timing of hand muscle recruitment.**

Cerebral Cortex, Vol. 17, pp. 353-362. **Impact Factor : 6,519.**

M. ANDRES, X. SERON and E. OLIVIER.

**Contribution of hand motor circuits to counting.**

Journal of Cognitive Neuroscience, Vol. 19, Nr. 4, pp. 1-14. **Impact Factor : 4,997.**

**Dr Laurence Ris**

B. CAPRON, R. WATTIEZ, C. SINDIC, E. GODAUX and L. RIS.

**Tyrosine phosphorylation of rabphilin during long-lasting long-term potentiation.**

Neuroscience Letters, Vol. 414, pp. 257-262. **Impact Factor: 2,00.**

K. MIZUMO, A. ANTUNES-MARTINS, M. PETERS, K.P. GIESE, E. GODAUX and L. RIS.  
**Calcium/calmodulin kinase kinase  $\beta$  has a male-specific role in memory formation.**  
Neuroscience, Vol. 145, pp. 393-402. **Impact Factor: 3,40.**

E. GODAUX and L. RIS.  
**Synapse specificity of long-term potentiation breaks down with aging.**  
Learning and Memory, Vol. 14, pp. 185-189. **Impact Factor: 4,00.**

B. CAPRON, C. SCLAVONS, J. F. LIEGEOIS, V. SEUTIN, E. GODAUX and L. RIS.  
**Metaplastic effect of apamin on LTP and paired-pulse facilitation.**  
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I. DEWACHTER, R.K.FILIPKOWSKI, C. PRILLER, J. NEYTON, S. CROES, D. TERWEL, M. GYSEMANS, H. DEVIJVER, P. BORGHGRAEF, L. KACZMAREK, J. HERMS, F. VAN LEUVEN, E. GODAUX and L. RIS.  
**Deregulation of NMDA-receptor function and down-stream signaling in APP{V717I} transgenic mice.**  
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**Modulation of synaptic plasticity and tau phosphorylation by wild-type and mutant presenilin1**  
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NeuroReport, Vol. 18, pp. 1231-1235. **Impact Factor: 2,60.**