

**PUBLICATIONS DES ÉQUIPES UNIVERSITAIRES
DE RECHERCHE**

**prof. dr. E. De Schutter, prof. dr P. Janssen,
prof. dr. P. Maquet, prof. dr Y. Michotte,
prof. dr. G. Orban, dr. L. Ris, prof. dr. E. Olivier
prof. dr. S.N. Schiffmann, prof. dr. R. Vogels**

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**FONDATION MÉDICALE REINE
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VOLUME I

Prof. dr. E. De Schutter

SOON-LIM SHIN and E. DE SCHUTTER.

Dynamic synchronization of Purkinje cell simple spikes.

Journal of Neurophysiology, Vol. 96, pp. 3485-3491. **Impact Factor: 3,652.**

Prof. dr. P. Janssen

G. ORBAN, P. JANSSEN and R. VOGELS

Extracting 3D structure from disparity.

Trends in Neuroscience, Vol. 29, nr. 8, pp.466-473. **Impact Factor: 14,325.**

Prof. Dr. P. Maquet

P. PEIGNEUX, P. ORBAN, E. BALTEAU, C. DEGUELDRE, A. LUXEN, S. LAUREYS and P. MAQUET.

Offline persistence of memory-related cerebral activity during active wakefulness.

PLOS Biology, Vol. 4, pp. 647-657. **Impact Factor: 14,101.**

T. T. DANG-VU, M. DESSEILLES, P. PEIGNEUX and P. MAQUET.

A role for sleeping in brain plasticity.

Pediatric Rehabilitation, Vol. 9, Nr. 2, pp. 98-118. **Impact Factor: 5,012.**

P. ORBAN, G. RAUCHS, E. BALTEAU, C. DEGUELDRE, A. LUXEN, P. PEIGNEUX and P. MAQUET.

Sleep after spatial learning promotes covert reorganization of brain activity.

PNAS, Vol. 103, Nr. 18, pp. 7124-7129. **Impact factor: 10,231.**

C. HOTERMANS, P. PEIGNEUX, A. MAERTENS DE NOODHOUT, G. MOONEN and P. MAQUET.

Early boost and slow consolidation in motor skill learning.

Learning and Memory. **Impact Factor: 5,099.**

M. DESSEILLES, THANH DANG VU, S. LAUREYS, P. PEIGNEUX, .C. DEGUELDRE, C. PHILLIPS and P. MAQUET.

A prominent role for amygdaloid complexes in the variability in heart rate (VHR) during rapid eye movement (REM) sleep relative to wakefulness.

NeuroImage, Vol. 32, pp. 1008-1015. **Impact Factor: 5,590.**

Prof. dr. Yvette Michotte

H. DEMAEGDT, P.-J. LENAERTS, J. SWALES, J.-P. DE BACKER, H. LAEREMANS, MINH TAN LE, K. KERSEMANS, LOTTE K. VOGEL, P. VANDERHEYDEN, G. VAUQUELIN and Y. MICHOTTE.

Angiotensin AT₄ receptor ligand interaction with cystinyl aminopeptidase and aminopeptidase N: {¹²⁵I}Angiotensin IV only binds to the cystinyl aminopeptidase apo-enzyme

European Journal of Pharmacology, Vol. 546, pp. 19-27. **Impact Factor: 2,500.**

P. M. L. VANDERHEYDEN, H. DEMAEGDT, J. SWALES, P.-J. LENAERTS, J.-P. DE BACKER , LOTTE K. VOGEL and G. VAUQUELIN.

Synergistic inhibition of the enzymatic activity of aminopeptidase N by divalent metal ion chelators.

Fundamental and Clinical Pharmacology, Vol. 20, pp. 613-619. **Impact Factor: 1,700.**

A. AXÉN, G. LINDEBERG, H. DEMAEGDT, G. VAUQUELIN, A. KARLÉN and M. HALLBERG.
Cyclic insulin-regulated aminopeptidase (IRAP)/AT₄ receptor ligands.
Journal of Peptide Science, Vol. 12, pp. 705-713. **Impact Factor: 1,800.**

BART STRAGIER

Characterization of the interaction between angiotensin fragments and the central neurotransmitter systems.

Doctoraatsthesis 2006 (Niet in de verzameling).

Prof dr. E. Olivier

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

Dissociating the role of ventral and dorsal premotor cortex in precision grasping.

The Journal of Neuroscience, Vol. 26, nr. 8, pp. 2260-2268. **Impact Factor: 3,853.**

Prof. Dr. G.A. Orban

H. SAWAMURA, R. VOGELS and G.A. ORBAN.

Selectivity of neuronal adaptation does not match response selectivity: a single-cell study of the fMRI adaptation paradigm.

Neuron, Vol. 49, pp. 307-318. **Impact Factor: 14,304.**

G. ORBAN, P. JANSSEN and R. VOGELS

Extracting 3D structure from disparity.

Trends in Neuroscience, Vol. 29, nr. 8, pp.466-473. **Impact Factor: 14,325.**

Dr L. Ris

B. CAPRON, C. SINDIC, E. GDAUX and L. RIS.

The characteristics of LTP induced in hippocampal slices are dependent on slice-recovery conditions.

Learning and Memory, Vol. 13, pp. 271-277. **Impact Factor: 4,000.**

K. MIZUNO, A. SANCHEZ-CAPELO, E. GODAUX, K. PETER GIESE and L. RIS.

Ca²⁺/calmodulin kinase kinase α is dispensable for brain development but is required for distinct memories in male, though not in female, mice.

Molecular and Cellular Biology, Vol. 26, pp. 9094-9104. **Impact Factor: 7,100.**

Prof. Dr. Serge .N. Schiffmann

B. BEARZATTO, L. SERVAIS, C. ROUSSEL, D. GALL, F. BABA-AÏSA, S. SCHURMANS, A.de KERCHOVE d'EXAERDE, G. CHERON and S.N.SCHIFFMANN.

Targeted calretinin expression in granule cells of calretinin-null mice restores normal cerebellar functions

FASEB, Vol. 20, pp. 380-382. **Impact Factor: 6,721.**

K. KHELIF, M. SCAILLON, M.J.M. GOVAERTS, J.M. VANDERWINDEN, M.H. DE LAET.

Bilateral thoracoscopic splanchicectomy in chronic intestinal pseudo-obstruction: report of two paediatric cases.

Gut, Vol. 55, pp. 293-294. **Impact Factor: 9,002.**

P. ROSSI, L. MAPELLI, L. ROGGERI, D. GALL, A. de KERCHOVE d'EXAERDE, V. TAGLIETTI, E. D'ANGELO and S.N. SCHIFFMANN.

Inhibition of constitutive inward rectifier currents in cerebellar granule cells by pharmacological and synaptic activation of GABA_B receptors.

European Journal of Neurosciences, Vol. 24, pp. 419-432. **Impact factor: 3,709.**

C. ROUSSEL, T. ERNEUX, D. GALL and S.N. SCHIFFMANN.

Modulation of neuronal excitability by intracellular calcium buffering: from spiking to bursting.
Cell Calcium, Vol. 39, pp. 455-466. **Impact Factor: 4,118.**

J.M. VANDERWINDEN, D. WANG, N. PATERNOTTE, S. MIGNON, K. ISOZAKI and C. ERNEUX.

Differences in signaling pathways and expression level of the phosphoinositide phosphatase SHIP1 between two oncogenic mutants of the receptor tyrosine kinase KIT.
Cellular Signalling, Vol. 18, pp. 661-669. **Impact Factor: 4,887.**

T.WENDEL, G.J.J.M. VAN EYS, D. WALTREGNY, W. GLENISSON, V. CASTRONOVO and J.M. VANDERWINDEN.

Novel smooth muscle markers reveal abnormalities of the intestinal musculature in severe colorectal motility disorders.
Neurogastroenterology and Motility, Vol. 18, pp. 526-538. **Impact Factor: 3,338.**

M. WOUTERS, A. DE LAET, L. VERDONCK, E. DELPIRE, P.P. VAN BOGAERT, J.P. TIMMERMANS, A. de KERCHOVE d'EXAERDE, K. SMANS, J.M.

Subtractive hybridization unravels a role for the ion cotransporter NKCC1 in the murine intestinal pacemaker.

Am Journal Physiol Gastrointest, Vol. 290, pp. G1219-G1227. **Impact Factor: 3,681.**

M.WOUTERS, J.-M. NEEFSA. De KERCHOVE d'EXAERDE, J.-M. VANDERWINDEN and K.A. SMANS.

Downregulation of two novel genes in SI/SId and W^{LacZ}/W^v Mouse jejunum.

Biochemical and Biophysical Research Communication, Vol. 346, pp. 491-500. **Impact factor: 2,855.**

Prof. dr. R. Vogels

G. SANTOSH MYSORE, STEVE E. RAIGUEL, GUY A. ORBAN and R. VOGELS.

Processing of kinetic boundaries in Macaque V4

Journal of Neuroscience, Vol. 26, pp. 6589-6602. **Impact Factor: 3,853.**

HIROMASA SAWAMURA, GUY A. ORBAN and R. VOGELS.

Selectivity of neuronal adaptation does not match response selectivity: a single-cell study of the fMRI paradigm.

Neuron, Vol. 49, pp. 307-318. **Impact Factor: 14,304.**

STEVEN RAIGUEL, SANTOSH G. MYSORE, GUY. A. ORBAN and R. VOGELS.

Learning to see the difference specifically alters the most informative V4 neurons.

The Journal of neuroscience, Vol. 26, nr. 24, pp. 6589-6602. **Impact Factor: 7,506.**

G. ORBAN, P. JANSSEN and R. VOGELS

Extracting 3D structure from disparity.

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