

**PUBLICATIES VAN DE UNIVERSITAIRE  
ONDERZOEKSPLOEGEN**

**prof. dr. C. Ampe, prof. dr. L. Arckens,  
prof. dr. E. De Schutter, prof. dr. A. Goffinet,  
prof. dr. L. Leybaert, prof. dr. P. Maquet,  
prof. dr. S.N. Schiffmann,  
prof. dr. P. Vanderhaeghen**

**GESTEUND MET KREDIETEN VAN DE**

**GENEESKUNDIGE STICHTING KONINGIN  
ELISABETH**

**2005**

**VOLUME I**

**Prof. Dr. Christophe Ampe**

A. SHARMA, A. LAMBRECHTS, L. THI. HAO, THANH T. LE, C.A. SEWRY, A. H.M. BURGHEES, G.E. MORRIS and C. AMPE.

**A role for complexes of survival of motor neurons (SMN) protein with gamins and profiling in neurite-like cytoplasmic extensions of cultured nerve cells.**

Experimental Cell Research, Vol. nr. 309, pp. 185-197. **Impact Factor:**

**Prof. Dr. Lutgarde Arckens**

E. VAN DER GUCHT, S. CLERENS, S. JACOBS and L. ARCKENS;

**Light-induced Fos expression in phosphate-activated glutaminase- and neurofilament protein-immunoreactive neurons in cat primary visual cortex.**

Brain Research, Vol. 1035, pp.60-66. **Impact Factor: 2,296.**

**Prof. Dr. Erik De Schutter**

K. TAHON, A. VOLNY-LURAGHI and E. DE SCHUTTER.

**Temporal characteristics of tactile stimuli influence the response profile of cerebellar Golgi cells.**

Neuroscience Letters, Vol. 390, pp. 156-161. **Impact Factor: 1,898.**

**Prof. Dr. A. Goffinet**

F. TISSIR, I. BAR, Y. JOSSIN and A. M. GOFFINET.

**Protocadherin Celsr3 is crucial in axonal tract development.**

Nature Neuroscience, Vol. 8, Nr. 4, pp. 451-457. **Impact Factor :**

A. CARIBONI, S. RAKIC, A. LIAPA, R. MAGGI, A. GOFFINET and J. G.J. PARNAVELAS.

**Reelin provides an inhibitory signal in the migration of gonadotropin-releasing hormone neurons.**

Development, Vol. 132, pp. 4709-4718, **Impact Factor:**

**Prof. Dr. Luc Leybaert**

E. DE VUYST, E.DECROCK, L. CABOOTER, G.R. DUBYAK, C.C. NAUS, W. HOWARD EVANS and L. LEYBAERT.

**Intracellular calcium changes trigger connexion 32 hemichannel opening.**

The EMBO Journal, Vol. nr 25, pp. 34-44. **Impact factor: 10,492.**

A. DE MEYER, C. MABILDE, M.J. SANDERSON and L. LEYBAERT.

**A simple and practical method to acquire geometrically correct images with resonant scanning-based line scanning in a custom-built video-rate laser scanning microscope.**

Journal of Microscopy, Vol. nr 219, pp. 133-140. **Impact Factor: 1,739.**

LUC LEYBAERT

**Neurobarrier coupling in the brain: a partner of neurovascular and neurometabolic coupling ?**

Journal of central Blood Flow and Metabolism, Vol nr. 25, pp. 2-16. **Impact Factor: 5,370.**

**Prof. Dr. Pierre Maquet**

E. SALMON, S. LESPAGNARD, P. MARIQUE, F. PEETERS, K. HERHOLZ, D. PERANI, V. HOLTHOFF, E. KALBE, D. ANCHISI, S. ADAM, E. COLETTE and G. GARRAUX.

**Cerebral metabolic correlates of four dementia scales in Alzheimer's disease.**

Journal of Neurology. Pp. 1-8. **Impact Factor: 2,844.**

F. PERRIN, P. MAQUET, P. PEIGNEUX, P. RUBY, C. DEGUELDRE, E. BALTEAU, G. DEL FIORI, G. MOONEN, A. LUXEN and S. LAUREYS.

**Neural mechanisms involved in the detection of our first name: a combined ERPs and PET study.**

Neuropsychologia, Vol. 43, pp. 12-19. **Impact Factor: 4,119.**

T. THANH DANG-VU, M. DESSEILLES, S. LAUREYS, C. DEGUELDRE, F. PERRIN, C. PHILIPS, P. PEIGNEUX and P. MAQUET.

**Cerebral correlates of delta waves during non-REM sleep revisited.**

NeuroImage, Vol. 28, pp. 14-21. **Impact Factor: 5,288.**

F. COLLETTE, L. OLIVIER, M. VAN DER LINDEN, S. LAUREYS, G. DELFIORE, A. LUXEN and E. SALMAON.

**Involvement of both prefrontal and inferior parietal cortex in dual-task performance.**

Cognitive Brain Research, Vol. 24, pp. 267-251. **Impact Factor: 2,471.**

M. BOLY, M-E. FAYMONVILLE, P. PEIGNEUX, B. LAMBERMONT, F. DAMAS, A. LUXEN, M. LAMY, G. MOONEN, S. LAUREYS and P. MAQUET.

**Cerebral processing of auditory and noxious stimuli in severely brain injured patients : Differences between VS and MCS.**

Neuropsychological Rehabilitation, Vol. 15, pp. 283-289. **Impact Factor: 1,212.**

T.T. DANG-VU, M. DESSEILLES, G. ALBOUY, A. DARSAUD, S. GALS, G. RAUCHS, M. SCHABUS, V. STERPENICH, G. VANDEWALLE, S. SCHWARTZ and P. MAQUET.

**Dreaming: a neuroimaging view.**

Schweizer archive für Neurologie und Psychiatrie, Vol. 156, pp. 415-425.

### **Prof. Dr. S.N. Schiffmann**

K. BANTUBUNGI, C. JACQUARD, A. GRECO, A. PINTOR, A. CHTARTO, K. TAI, M-C.GALAS, L. TENENBAUM, N. DÉGLON, P. POPOLI, L. MINGHETTI, E. BROUILLRT, J. BROTCI, M. LEVIVIER, S.N. SCHIFFMANN and D. BLUM.

**Minocycline in phenotypic models of Huntington's disease.**

Neurobiology of Disease, Vol. 18, pp. 206-217. **Impact Factor: 4,782.**

B. BEARZATO, L. SERVAIS, G. CHERON and S.N. SCHIFFMANN.

**Age dependence of strain determinant on mice motor coordination.**

Brain Research, Vol. 1039, pp. 37-42. **Impact Factor: 2,302.**

S. BELLIER, N.R. DA SILVA, G. AUBIN-HOUZELSTEIN, C. ELBAZ, J.-M. VANDERWINDEN and J.J. PANTHIER.

**Accelerated intestinal transit in inbred mice with an increased number of interstitial cells of Cajal.**

Am Journal Physiol gastrointest Liver Psysiol, Vol. 288, pp. G151-G158. **Impact Factor: 3,421.**

F. DE LORIJN, W.J. DE JONG, T. WEDEL, J.M. VANDERWINDEN, M.A. BENNINGA and G.E. BOECKXSTAENS.

**Interstitial cells of Cajal are involved in the afferent limb of the rectoanal inhibitory reflex.**

Colonic Motility, Vol. 54, pp. 1107-1113. **Impact Factor: 5,883.**

D. DAVID, F. PRESTORI, E. SOLA, A. D'ERRICO, C. ROUSSEL, L. FORTI, P. ROSSI and E. D'ANGELO.

**Intracellular calcium regulation by burst discharge determines bidirectional long-term synaptic plasticity at the cerebellum input stage.**

The Journal of Neuroscience, Vol. 25, Nr. 19, pp. 4813-4822. **Impact Factor: 8,306.**

D. GALL, C. ROUSSEL, T. NIEUS, G. CHERON, L. SERVAIS, E. D'ANGELO and S.N. SCHIFFMANN.  
**Role of calcium binding proteins in the control of cerebellar granule cell neuronal excitability : experimental and modeling studies.**

Progress in Brain Research, Vol. 148, pp. 321-328. **Impact Factor: 2,194.**

E. GUNTZ, H. DUMONT, C. ROUSSEL, D. GALL, F. DUFRASNE, L. CUVELIER, D. BLUM, S.N.SCHIFFMANN and M. SOSNOWSKI.

**Effects of remifentanil on N-methyl-D-aspartate receptor.**

Anesthesiology, Vol. 102, pp. 1235-1241. **Impact Factor: 3,503.**

R. HOUREZ, K. AZDAD, G. VANWALLEGHEM, C. ROUSSEL, D. DAVID and S.N. SCHIFFMANN.

**Activation of protein kinase C and inositol 1,4,5-triphosphate receptors antagonistically modulate voltage-gated sodium channels in striatal neurons.**

Brain Research, Vol. 1059, pp. 189-196. **Impact Factor: 2,302.**

C. LANGLET, I. LANGERT, P. VERTONGEN, N. GASPARD, J.M. VANDERWINDEN and P. ROBBERECHT.

**Contribution of the carboxyl terminus of the VPAC<sub>1</sub> receptor to agonist-induced receptor phosphorylation, internalization, and recycling.**

The Journal of Biological Chemistry, Vol. 280, Nr. 30, pp. 28034-28043. **Impact Factor: 6,482.**

P. LAURENT, J. A.J. BECKER, O. VALVERDE, C. LEDENT, A. DE KERCKHOVE d'EXAERDE, S.N. SCHIFFMANN, R. MALDONADO, G. VASSAERT and M. PARMENTIER.

**The prolactin-releasing peptide antagonizes the opioid system through its receptor GPR10**

Nature Neuroscience, Vol. 8, Nr. 12, pp. 1735-1741. **Impact Factor : 16,980.**

P. NIESSEN, S. RENSEN, J. VAN DEURSEN, J. DE MAN, A. DE LAET, J.M. VANDERWINDEN, T. WEDEL, D. BAKER, P. DOEVENDANS, M. HOFKER, M. GIJBELS and G. VAN EYS.

**Smoothelin-A is essential for functional intestinal smooth muscle contractility in mice.**

Gastroenterology, Vol. 129, pp. 1592-1601. **Impact Factor: 12,182.**

L. SERVAIS, B. BEARZATTO, V. DELVAUX, E. NOËL, R. LEACH, M. BRASSEUR, S.N. SCHIFFMANN and C. GUY.

**Effect of chronic ethanol ingestion on Purkinje and Golgi cell firing in vivo and on motor coordination in mice.**

Brain Research, Vol. 1005, pp. 171-179. **Impact Factor: 2,302.**

L. SERVAIS, B. BEARZATTO, B. SCHAWALLER, M. DUMONT, C. DE SAEDELEER, B. DAN, J.J.BARSKI, S.N.SCHIFFMANN and G. CHERON.

**Mono- and dual-frequency fast cerebellar oscillation in mice lacking parvalbumin and /or calbindin D-28K**

European Journal of Neuroscience, Vol. 22, pp. 861-870. **Impact Factor: 3,899.**

M. WOUTERS, K. SMANS and J.M. VANDERWINDEN.

**W<sup>ZsGreen</sup>/+: a new green fluorescent protein knock-in mouse model for the study of KIT-expressing cells in gut and cerebellum.**

Physiol. Genomics, Vol. 22, pp. 412-421. **Impact Factor: 4,368.**

**Prof. Dr. Pierre Vanderhaeghen**

J. EGEE, U.V. NISSEN, A. DUFOUR, M. SAHIN, K. KULLANDER, P. GREER, T.D. MRSIC-FLOGEL, M.E. GREENBERG, O. KIEHN and P.VANDERHAEGHEN.

**Regulation of EphA4 kinase activity is required for a subset of axon guidance decisions suggesting a key role for receptor clustering in Eph Function.**

Neuron, Vol. nr. 47, pp. 515-528. **Impact Factor:**

V. DEPAEPE, N. SUAREZ-GONZALES, A. DUFOUR, L. PASSANTE, J.A. GORSKI, K.R. JONES, C. LEDENT and P.VANDERHAEGHEN.

**Ephrin signalling controls brain size by regulating apoptosis of neural progenitors.**

Nature Letters, Vol. nr. 435, pp. 1244-1250. **Impact Factor:**

M.-A. LAMBOT, F. DEPASSE, J.-C. NOEL and P. VANDERHAEGHEN.

**Mapping labels in the human developing visual system and the evolution of binocular vision.**

The Journal of Neuroscience, Vol. nr. 25, nr. 31, pp. 7232-737. **Impact factor:**