

**PUBLICATIONS DES ÉQUIPES UNIVERSITAIRES
DE RECHERCHE**

**prof. dr. G. Van Camp, prof. dr. W. Vanduffel,
prof. dr. L. Arckens, prof. dr. E. De Schutter,
prof. dr. C. Godfraind, prof. dr. A. Goffinet,
prof. dr. L. Leybaert, prof. dr. J.M. Maloteaux,
prof. dr. G. Moonen, prof. dr. G. Orban**

SUBVENTIONNÉES AVEC DES CRÉDITS DE LA

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VOLUME II

Prof.Dr. G.Van Camp

J.GREGAN, L.VAN LAER, L.D.LIETO, S.E.KEARSEY and G.VAN CAMP.

A yeast model for the study of human *DFNA5*, a gene mutated in nonsyndromic hearing impairment.

Biochimica et Biophysica Acta, Vol.1638, pp.179 - 186. **Impact Factor: 2.836.**

Prof.Dr. W.Vanduffel.

GUY ORBAN, DENIS FIZE, H.PEUSKENS, K;DENYS, K.NELISSEN, S.SUNAERT, J.TODD and W.VANDUFFEL.

Similarities and differences in motion processing between the human and macaque brain: evidence from fMRI.

Neuropsychologia, Vol. 41, pp. 1757 - 1768. **Impact Factor: 2.695**

D.FIZE, K.NELISSEN, K.DENYS, C.CHEF d'HOTEL, O.FAUGERAS, G.A.ORBAN and W.VANDUFFEL.

The retinotopic organization of primate dorsal V4 and surrounding areas: a functional magnetic resonance imaging study in awake monkeys.

The Journal of Neuroscience, Vol. 23, Nr. 19, pp. 7395 – 7406. **Impact Factor: 8.306**

D.Y.TSAO, Y.SASAKI, D.FIZE, T.A.KNUTSEN, J.B.MANDEVILLE, L.L.WALD, A.M.DALE, B.R.ROSEN, D.C.VAN ESSEN, M.S.LIVINGSTONE, G.A.ORBAN and W.VANDUFFEL.

Stereopsis activates V3A and caudal intraparietal areas in macaques and humans.

Neuron, Vol. 39, pp.555 – 568. **Impact Factor: 14.109**

Prof. Dr. L. Arckens

K.VAN DAMME, A.MASSIE, F.VANDESANDE and L.ARCKENS.

Distribution of the AMPA2 glutamate receptor subunit in adult cat visual cortex.

Brain Research, Vol. 960, pp. 1 - 8. **Impact Factor: 2.474.**

E.VAN DER GUCHT, G.VAN DEN BERGH, A.MASSIE,I.LEYSEN, U.T.EYSEL, E.VANDENBUSSCHE, R.HUYBRECHTS, F.VANDESANDE and L.ARCKENS.

Differential display implicates cyclophilin A in adult cortical plasticity.

European Journal of Neuroscience, Vol.18, pp.61 - 75. **Impact Factor: 3.872.**

A.MASSIE, L.CNOPS, I.SMOLDERS, K.VAN DAMME, E.VANDENBUSSCHE, F.VANDESANDE, U.T.EYSEL and L.ARCKENS.

Extracellular GABA concentrations in area 17 of cat visual cortex during topographic map reorganization following binocular central retinal lesioning.

Brain Research, Vol. 976, pp. 100 – 108. **Impact Factor: 2.474.**

G.VAN DEN BERGH, U.T.EYSEL, E.VANDENBUSSCHE, F.VANDESANDE and L.ARCKENS

Retinotopic map plasticity in adult cat visual cortex is accompanied by changes in Ca²⁺/calmodulin-dependent protein kinase II α autophosphorylation.

Neuroscience, Vol. 120, pp. 133 – 142. **Impact Factor: 3.601.**

A.MASSIE, L.CNOPS, S.JACOBS, K.VAN DAMME, E.VANDENBUSSCHE, U.T.EYSEL, F.VANDESANDE and L.ARCKENS.

Glutamate levels and transport in cat (*Felis catus*) area 17 during cortical reorganization following binocular retinal lesions.

Journal of Neurochemistry, Vol. 84, pp. 1387 – 1397. **Impact Factor: 4.825.**

S.CLERENS, E.D'HONDT, L.R.BERGHMAN, F.VANDESANDE and F.ARCKENS.

Identification of eGnRH-II in the median eminence of Japanese quail (*Coturnix coturnix japonica*)

General and Comparative Endocrinology, Vol. 131, pp. 48 – 56. **Impact Factor: 1.736.**

G.VAN DEN BERGH, S.CLERENS, L.CNOPS, F.VANDESANDE and L.ARCKENS.

Fluorescent two-dimensional difference gel electrophoresis and mass spectrometry identify age-related protein expression differences for the primary visual cortex of kitten and adult cat.

Journal of Neurochemistry, Vol. 85, pp. 193 – 205. **Impact Factor: 4.825.**

G.VAN DEN BERGH, S.CLERENS, F.VANDESANDE and L.ARCKENS.

Reversed-phase high-performance liquid chromatography prefractionation prior to two-dimensional difference gel electrophoresis and mass spectrometry identifies new differentially expressed proteins between striate cortex of kitten and adult cat.

Electrophoresis, Vol. 24, pp. 1471 – 1481. **Impact Factor: 4.04.**

E.VAN DER GUCHT, S.JACOBS, T.KANEKO; F.VANDESANDE and L.ARCKENS.

Distribution and morphological characterization of phosphate-activated glutaminase-immunoreactive neurons in cat visual cortex.

Brain Research, Vol. 988, pp. 29 – 42. **Impact Factor: 2.474.**

E.VAN DER GUCHT, A.MASSIE, B.DE KLERCK, K.PEETERS, K.WINTERS, H.H.J.GERETS, S.CLEERENS, F.VANDESANDE and L.ARCKENS.

Molecular cloning and differential expression of the cat immediate early gene c-fos.

Molecular Brain Research, Vol. 111, pp. 198 – 210. **Impact Factor: 2.107.**

YING QU, A.MASSIE, E.VAN DER GUCHT, L.CNOPS, E.VANDENBUSSCHE, U.T.EYSEL
F.VANDESANDE and L.ARCKENS.

Retinal lesions affect extracellular glutamate levels in sensory-deprived and remote non-deprived regions of cat area 17 as revealed by in vivo microdialysis.

Brain Research, Vol. 962, pp. 199 – 206. **Impact Factor: 2.474.**

Prof. Dr. E.De Schutter

K.G.CLAEYS, G.ORBAN, P.DUPONT, S.SUNAERT, P.VAN HECKE AND E.DE SCHUTTER.

Involvement of multiple functionally distinct cerebellar regions in visual discrimination: A human functional imaging study.

NeuroImage, Vol.20, pp.840 - 854. **Impact Factor: 6.192**

F.J.GEURTS S.DIEUDONNÉ and E.DE SCHUTTER

Unraveling the cerebellar cortex : cytology and cellular physiology of large-sized interneurons in the granular layer.

The Cerebellum, Vol. 2, pp. 290 – 299. **Impact Factor:**

Prof. Dr. C. Godfraind

E. ROUSSEAU, M .M.RUCHOUX, F. SCARAVILLI, C. VIKKULA. and C. GODFRAIN D.

Tumour necrosis and microvascular proliferation are associated with 9p deletion and CDKN2A alterations in 1p/19q-deleted oligodendrogliomas.

Neuropathology and Applied Neurobiology, Vol.29, pp.462 – 471. **Impact Factor: 3.022.**

Prof. Dr. A. Goffinet

Y.JOSSIN, N.IGNATOVA, C.LAMBERT DE ROUVROIT, F.TISSIR, I.BAR and A.M.GOFFINET.

The reelin signaling pathway: some recent developments.

Cerebral Cortex, Vol.13, pp.627 - 633. **Impact Factor: 5.626.**

I.BAR, F.TISSIR, C.LAMBERT de ROUVROIT, O.DE BACKER, and A.M.GOFFINET.

The gene encoding disabled-1 (DAB1), the intracellular adaptor of the reelin pathway, reveals unusual complexity in human and mouse.

The Journal of Biological Chemistry, Vol. 278, Nr. 8, pp.5802 - 5812. **Impact Factor: 6.482.**

F.TISSIR, J.Y.SIRE, G.MEYER, C.LAMBERT de ROUVROIT and A.M.GOFFINET.

Reelin expression during embryonic brain development in *crocodylus niloticus*.

The Journal of Comparative Neurology, Vol. 457, pp. 250 – 262. **Impact Factor: 3.672.**

Prof. Dr. L. Leybaert

K.BRAET, S.ASPELSLAGH, W.VANDAMME, K.WILLECKE, P.E.M.MARTIN, W.H.EVANS and L.LEYBAERT.

Pharmacological sensitivity of ATP release triggered by photoliberation of inositol-1,4,5-Trisphosphate and zero extracellular calcium in brain endothelial cells.

Journal of Cellular Physiology, Vol.197, pp.205 - 213. **Impact Factor: 5.463.**

K.BRAET, W.VANDAMME, L.CABOOTER, P.E.M.MARTIN and L.LEYBAERT.

Connexin channels, connexin mimetic peptides and ATP release.

Cell Communication and Adhesion, Vol. 10, pp. 251 – 257. **Impact Factor: 1.289.**

Prof. Dr. J.M. Maloteaux

M.GEURTS, E. HERMANS and J.M. MALOTEAUX.

Altered expression of regulators of G-protein signaling (RGS) mRNAs in the striatum of rats undergoing dopamine depletion.

Biochemical Pharmacology, Vol.66, pp.11635 - 1170. **Impact factor: 2.993**

E.HERMANS

Biochemical and pharmacological control of the multiplicity of coupling at G-protein-coupled receptors.

Pharmacology & Therapeutics, Vol.99, pp.25 - 44. **Impact factor: 7.397**

M.PEETERS, J.M.MALOTEAUX and E.HERMANS.

Distinct effects of amantadine and memantine on dopaminergic transmission in the rat striatum.

Neuroscience Letters, Vol. 343, pp.205 - 209. **Impact Factor:1.967**

Prof. Dr. G. Moonen

S.WISLET-GENDEBIEN, P.LEPRINCE, B.ROGISTER and G.MOONEN.

Regulation of neural markers nestin and GFAP expression by cultivated bone marrow stromal cells.

Journal of Cell Science, Vol.116, pp. 3295 - 3302. **Impact Factor: 7.25.**

J.M.RIGO, L.NGUYEN, S.BELACHEW, B.MALGRANGE, L.BETTENDORFF and G.MOONEN.

Autocrine/paracrine activation of the GABA_A receptor inhibits the proliferation of neurogenic polysialylated neural cell adhesion molecule-positive (PSA-NCAM⁺) Precursor cells from postnatal striatum.

The Journal of Neuroscience, Vol. 23, Nr. 8, pp.3278 - 3294. **Impact Factor: 8.306.**

L.NGUYEN, B.MALGRANGE, J.M.RIGO, S.BELACHEW and G.MOONEN.

Untangling the functional potential of PSA-NCAM-Expressing cells in CNS development and brain repair strategies.

Current Medicinal Chemistry, Vol 10, pp.2185 - 2196. **Impact Factor: 4.409.**

B.MALGRANGE, J.M.RIGO, G.HANS, L.NGUYEN, I.BREUSKIN, F.LALLEMEND, G.BELACHEW and G.MOONEN.

Striatal PSA-NCAM⁺ precursor cells from the newborn rat express functional glycine receptors

Molecular Neuroscience, NeuroReport, Vol. 15, Nr. 4, pp. 583 - 587. **Impact Factor: 2.812.**

E.HARTFUSS, E.FORSTER, H.H.BOCK, M.A.HACK, P.LEPRINCE, J.M.LUQUE, J.HERZ, M.FROSCHER and M.GOTZ.

Reelin signaling directly affects radial glia morphology and biochemical maturation.

Development, Vol 130, Nr. 19, pp.4597 - 4609. **Impact Factor: 7.663.**

Prof. Dr. G. Orban

W. FIAS, J.LAMMERTYN, B.REYNVOET, P.DUPONT and GUY A.ORBAN.

Parietal representation of symbolic and nonsymbolic magnitude

Journal of Cognitive Neuroscience, Vol.15, Nr. 1, pp.47 - 56. **Impact Factor: 5,069**

P.JANSSEN, R.VOGELS, YAN LIU and G.A.ORBAN.

At least at the level of inferior temporal cortex, the stereo correspondence problem is solved.

Neuron, Vol. 37, pp. 693 – 701. **Impact Factor: 14,109.**

P. DUPONT, G.SARY, H. PEUSKENS and G.A.ORBAN.

Cerebral regions processing first-and higher-order motion in an opposed-direction discrimination task.

European Journal of Neuroscience, Vol. 17, pp. 1509 – 1517. **Impact Factor: 3,872**

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