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RESEARCH GROUPS**

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**VOLUME II**

**Prof. Dr. A. Goffinet**

F. TISSIR and A.M. GOFFINET

**Expression of planar cell polarity genes during development of the mouse CNS**

European Journal of Neuroscience, Vol. 23, pp. 597-607. **Impact Factor: 3.710**

E. FÖRSTER, Y. JOSSIN, S. ZHAO, X. CHAI, M. FROTSCHER and A.M. GOFFINET.

**Recent progress in understanding the role of reelin in radial neuronal migration, with specific emphasis on the dentate gyrus**

European Journal of Neuroscience, Vol. 23, pp. 901-909. **Impact Factor: 3.710**

D.J. PRICE, H. KENNEDY, C. DEHAY, L. ZHOU, M. MERCIER, Y. JOSSIN, A.M. GOFFINET, F. TISSIR, D. BLAKEY and Z. MOLNÁR.

**The development of cortical connections**

European Journal of Neuroscience, Vol. 23, pp. 910-920. **Impact Factor: 3.710**

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

**Identification of small molecules that interfere with radial neuronal migration and early cortical plate development.**

Cerebral Cortex, Vol. 10/1093, pp. 1-10. **Impact Factor: 6,340**

**Prof. dr. J. N. Octave**

N. PIERROT, S.FERRAO SANTOS, C. FEYT, M. MOREL, J.P. BRION and J.N. OCTAVE

**Calcium –mediated transient phosphorylation of tau and amyloid precursor protein followed by intraneuronal amyloid- $\beta$  accumulation.**

Journal of Biological Chemistry, Vol. 281, Nr 52, pp. 39907-39914. **Impact Factor: 2,752**

**Prof. dr M. Parmentier**

FERNANDO AREZANA-SEISEDEDOS and MARC PARMENTIER

**Genetics of resistance to HIV infection: role of co-receptors and co-receptor ligands.**

Seminars in Immunology, Vol. 18, pp. 387-403. **Impact Factor: 10,000**

ISABELLE MIGEOTTE, DAVID COMMUNI and MARC PARMENTIER.

**Formyl peptide receptors: a promiscuous subfamily of G protein-coupled receptors controlling immune responses.**

Cytokine & Growth Factor Reviews, Vol. 17, pp. 501-519. **Impact Factor: 11,550.**

J.-Y. SPRINGAEL, PHU NGUYEN LE MINH, ENEKO URIZAR, SABINE COSTAGLIOLA, GILBERT VASSART and MARC PARMENTIER.

**Allosteric modulation of binding properties between units of chemokine receptor homo- and hetero-oligomers.**

Molecular Pharmacology, Vol. 69, pp. 1652-1661. **Impact Factor: 4,470.**

**Prof. Dr. V. Timmerman.**

K. COEN, D. PAREYSON, A. GRUMBACH, G. BUYSE, N. GOEMANS, K.G. CLEAYS, N. VERPOORTEN, M. LAURÁ, V. SCAIOLI, W. SALMHOFER, T.R. PIEBER, E. NELIS, P. DE JONGHE and V. TIMMERMAN.

**Novel mutations in the *HSN2* gene causing hereditary sensory and autonomic neuropathy II**

Neurology, Vol. Nr. 66, pp. 748-751. **Impact Factor: 5,690.**

J. IROBI, I. DIERICK, A. JORDANA, K.G. CLEAYS, P. DE JONGHE and V. TIMMERMAN.

**Unraveling the genetics of distal hereditary motor neuronopathies**

Neuro Molecular Medicine, Vol. 8, pp. 131-146. **Impact Factor: 4.070.**

A. JORDANA, J. IROBI, F.P.THOMAS, P. VAN DIJCK, K. MEERSCHAERT, M? DEWIL, I. DIERICK, A. JACOBS, E. DE VRIENDT, V. GUERGUELTCHEVA, C. V. RAO, I. TOURNEV, F. A.A. GONDIM, M. D'HOOGE, V. VAN GERWEN, P. CALLEARTS, L. VAN DEN BOSCH, J.P. TIMMERMANS, W. ROBBERECHT, J. GETTEMANS, J.M. THEVELEIN, P. DE JONGHE, I. KREMENSKY and V. TIMMERMAN.

**Disrupted function and axonal distribution of mutant tyrosyl-tRNA in dominant intermediate Charcot-Marie-Tooth neuropathy.**

Nature Genetics, Vol. 38, nr. 2, pp. 197-202. **Impact Factor: 25.797.**

L. VAN DEN BOSCH and V. TIMMERMAN.

**Genetics of motor neuron disease**

Current Neurobiology and Neuroscience Reports, Vol. 6, pp. 423-431. **Impact Factor:**

K. VERHOEVEN, K.G.CLEAYS, S. ZÜCHER, J.M. SCHRÖDER, J. WEIS, C. CEUTERICK, A. JORDANA, E. NELIS, E. DE VRIENDT, M. VAN HUL, P. SEEMAN, R. MAZANEC, G.M.SAIFA, K.SZIGETA, P.MANCIAS, I. J. BUTLER, A. KOCHANSKI, B. RYNIEWICZ, J.DE BLEECKER, P. VAN DEN BERGH, C. VERELLEN, R. VAN COSTER, N. GOEMANS, M.AUERGRUMBACH, W. ROBBERECHT, ;V. MILIC RASIC, Y. NEVO, I. TOURNEV, V. GUERGUELTCHEVA, F. ROELENS, P. VIEREGGE, P.VINCI, M. T. MORENO, H-J CHRISTEN, M.E. SHY, J.R. LUPSKI, J.M. VANCE, P. DE JONGHE and V. TIMMERMAN.

**MFN2 mutation distribution and genotype/phenotype correlation in Charcot-Marie-Tooth type 2 Brain**, Vol. 129, pp. 2093-2102. **Impact Factor: 7.535.**

K. VERHOEVEN, V. TIMMERMAN, B. MAUKO, T.R.PIEBER, P. DE JONGHE and M. AUERGRUMBACH

**Recent advances in hereditary sensory and autonomic neuropathies**

Current Opinion in Neurology, Vol. 19, nr. 5, pp. 474-480. **Impact Factor: 4.873.**

N. VERPOORTEN, K.G.CLEAYS, L. DEPREZ, A. JACOBS, V. VAN GERWEN, L. LAGAE, W. F. ARTS, L. DE MEIRLEIR, K. KEYMOLEN, C. CEUTERICK-DE GROOTE, P. DE JONGHE, V. TIMMERMAN and E. NELIS.

**Novel frameshift and splice site mutations in the neurotrophic tyrosine kinase receptor type 1 gene (NTRK1) associated with hereditary sensory neuropathy type IV**

Neuromuscular Disorder, Vol. 16, pp. 19-25. **Impact Factor: 3.340.**

S. ZÜCHNER, P. DE JONGHE, A. JORDANA, K.G. CLEAYS, V. GUERGUELTCHEVA, S. CHERNINKOVA, S. R. HAMILTON, G. VAN STAVERN, K.M. KRAJEWSKI, J. STAJICH, I. TOURNEV, K. VERHOEVEN, C.T. LANGERHORST, M .DE VISSER, F. BAAS, T. BIRD, V. TIMMERMAN, M. SHY and M. VANCE.

**Axonal neuropathy with optic atrophy is caused by mutations in mitofusin 2**

Annals of Neurology., Vol. 59, Nr. 2, pp. 276-281. **Impact Factor:7.571.**

K.COEN, D. PAREYSON, M..AUER-GRUMBACH, G. BUYSSE, N. GOEMANS, K.G.CLAEYS, N. VERPOORTEN, M. LAURA, V. SCAIOLI, W. SALMHOFER, T.R. PIEBER, E. NIELIS, P. DE JONGHE and V. TIMMERMAN.

**Novel mutations in the HSN2 gene causing hereditary sensory and autonomic neuropathy type II** Neurology, Vol. 66, pp. 748-751. **Impact Factor: 5,690.**

**Prof. Dr. Jan Tavernier**

W. WAELPUT, D. BROUCKAERT, P. BROEKAERT and J. TAVERNIER.

**A role for leptin in the Systematic Inflammatory Response Syndrome (SIRS) and in immune response-An update.**

Current Medicinal Chemistry, Vol. 13, pp. 199-222. **Impact Factor: 4,900.**

F. PEELMAN, H. ISERENTANT, A-S. DE SMET, J. VANDEKERCKHOVE, L. ZABEAU and J. TAVERNIER.

**Mapping of binding site III in the leptin receptor and modelling of a hexameric leptin receptor complex \***

Journal of Biological Chemistry, Vol. 281, Nr. 22, pp 15496-15504. **Impact Factor: 5,900.**

F. PEELMAN, C. COUTURIER, J. DAM, L. ZABEAU, J. TAVERNIER and R. JOCKERS.

**Techniques: New pharmacological perspectives for the leptin receptor.**

Trends in Pharmacological Sciences, Vol. 27, Nr. pp. 218-225. **Impact Factor: 10,400.**

### **Prof. Dr. R. Vandenberghe**

M. VANDENBULCKE, R. PEETERS, K. FANNES and R. VANDENBERGHE.

**Knowledge of visual attributes in the right hemisphere.**

Nature Neurosciences, Vol. nr 9, Nr 7, pp. 964-970. **Impact Factor: 15,500.**

M. VANDENBULCKE, R. PEETERS, P. DUPONT, P. VAN HECKE and R. VANDENBERGHE.

**Word reading and posterior temporal dysfunction in amnesic mild cognitive impairment.**

Cerebral Cortex, Word Reading with MCI, pp. 1-10. **Impact Factor: 6,200.**

### **Prof. Dr. P. Vanderhaeghen**

K.S. POLLARD, S.R. SALAMA, N. LAMBERT, M-A. LAMBOT, S. COPPENS, J. S. PEDERSEN, S. KATZMAN, B. KING, C. ONODERA, A. SIEPEL, A.D. KERN, C. DEHAY, H. IGEL, M. ARES Jr, D. HAUSSLER and P. VANDERHAEGHEN.

**An RNA gene expressed during cortical development evolved rapidly in humans.**

Nature, Vol. Nr. 443, pp. 167-172. **Impact Factor: 29.300.**

A. DUFOUR, J. EGEA, K. KULLANDER, R. KLEIN and P. VANDERHAEGHEN.

**Genetic analysis of EphA-dependent signaling mechanisms controlling topographic mapping in vivo.**

Development, Vol. 113, pp. 4415-4420. **Impact Factor: 7.600.**