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**GESTEUND MET KREDIETEN VAN DE**

**GENEESKUNDIGE STICHTNG KONINGIN ELISABETH**

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**VOLUME II**

**Universiteit Gent**  
**(UGent)**

**Prof. dr. Christophe AMPE**

DAVINA TONDELIER, RIVKA NOELANDERS, KARIMA BAKKAMLI and CHRISTOPHE AMPE.  
**Beta-actin is required for proper mouse neural crest ontogeny**  
*PLOSOne*, Vol. 9, e85608. Impact Factor: 4,015.

**Prof. dr. Geert van LOO & Prof. dr. Rudi BEYAERT**

CATRYSSSE L., VEREECKE L., BEYAERT R. and VAN LOO, G.  
**A20 in inflammation and autoimmunity.**  
*Trends in Immunology.*, Vol.35, nr. 1, pp., 22-31. Impact Factor: 10.300.

MC GUIRE C., PRINZ M., BEYAERT R. and VAN LOO, G.  
**Nuclear Factor kappa-B (NF- $\kappa$ B) in multiple sclerosis pathology.**  
*Trends in Molecular Medicine.*, Vol. 19, nr. 10, pp., 604-613 Impact Factor: 9.600.

MC GUIRE C., RAHMAN M., SCHWANINGER M., BEYAERT R. and VAN LOO, G.  
**The ubiquitin editing enzyme A20 (TNFAIP3) is up regulated during permanent middle cerebral artery occlusion but does not influence disease outcome.**  
*Cell Death Disease.*, 4:e531. Impact Factor: 5.300.

MC GUIRE C., WIEGHOFER P., ELTON L., MUYLLAERT D., PRINZ M., BEYAERT R. and VAN LOO, G.  
**Paracaspase MALT1 deficiency protects mice from autoimmune-mediated demyelination.**  
*The Journal of Immunology.*, Vol. 190, pp. 2896-2903. Impact Factor: 5.600.

CONOR Mc GUIRE, JENS STAAL, PETER WIEGHOFER, LYNN ELTON, ANNELIES DEMEYER, DANIEL NAGEL, DANIEL KRAPPMANN, MARCO PRINZ, RUDI BEYAERT and GEERT VAN LOO.  
**Pharmacological inhibition of MALT1 protease activity by mepazine protects mice from experimental autoimmune encephalomyelitis.**  
*Journal of Neuroinflammation.*, Vol. 11, pp., 124-135. Impact Factor: 4.400.

**Université Libre de Bruxelles**  
**(ULB)**

**Prof. dr. Eric J. BELLEFROID**

DAMIEN PARLIER, VIRGINIE MOERS, CLAUDE VAN CAMPENHOUT, JULIE PREILLON, JEAN-CHRISTOPHE MARINE and **ERIC J. BELLEFROID**

**The *Xenopus* doublesex-related gene *Dmrt5* is required for olfactory placode neurogenesis**  
***Developmental Biology***, Vol. 373, pp. 39-52. **Impact factor: 3,800.**

**ERIC J. BELLEFROID**, LUCA LECLÈRE, AMANDINE SAULNIER, MARC KERUZORE, MARIA SIRAKOV, MICHEL VERVOORT and SARAH DE CLERCQ

**Expanding roles for the evolutionarily conserved *Dmrt* sex transcriptional regulators during embryogenesis.**

***Cellular and molecular Life sciences***, Vol. 70, pp. 3829-3845 and DOI 10.1007/s00018-013-1288-2.  
**Impact factor: 5,856.**

JULIE HANOTEL, NATHALIE BESSODES, AURORE THÉLIE, MARIE HEDDERICH, KARINE PARRAIN, KARINA BRANDAO, DADIA KIRCHA, METTE C. JORGENSEN, ANNE GRAPIN-BOTTON, PALLE PERRON, TOMAS PIELER, KRISTINE HENNINGFELD and **ERIC J. BELLEFROID**

**The *Prdm13* histone methyltransferase encoding gene is a *Ptf1a-Rbpj* downstream target that suppresses glutamatergic and promotes GABAergic neuronal fate in the dorsal neural tube**  
***Developmental Biology***, submitted,

**Prof. dr. Serge N. SCHIFFMANN**

ESPUNY-CAMACHO I., K.A. MICHELSEN, D. GALL, D. LINARO, A. HASCHE, J. BONNEFONT, C. BALI, D. ORDUZ, A. BILHEU, A. HERPOEL, N. LAMBERT, N. GASPARD, S. PERON; **S.N. SCHIFFMANN**, M. GIUGLIANO, A. GAILLARD and P. VANDERHAEGHEN.

**Pyramidal neurons derived from human pluripotent stem cells integrate efficiently into mouse brain circuits in vivo.**

***Neuron***, Vol. 70, pp. 440-456. **Impact Factor: 15,766.**

ORDUZ D, BISCHOP D.P., SCHWALLER B., **SCHIFFMANN S.N.** and GALL D.

**Parvalbumin tunes spike-timing and efferent short-term plasticity in striatal fast spiking interneurons.**

***The Journal of Physiology (Lond.)***, Vol. 591, pp. 3215-3232. **Impact Factor: 4,380.**

PETRINOVIC MM, R. HOUREZ, E.M. ALOY, G. DEWARRAT, D. GALL, O. WEINMANN, J. GAUDIAS, L.C. BACHMANN, **S.N. SCHIFFMANN**, K.E. VOGT and M.E. SCHWAB:

**Neuronal NOGO-A negatively regulates dendritic morphology and synaptic transmission in the cerebellum.**

***Proc. Ntl. Acad. Sci.(PNAS)USA***, Vol. nr. 110, nr.3, pp. 1083-1088. **Impact Factor: 10,260.**

SCHMIDT H., S. BRACHTENDORF, O. ARENDT, S. HALLERMANN, S. ISHIYAMA, G. BORNSCHEIN, D. GALL, **S.N. SCHIFFMANN**, M. HECKMANN and J. EILERS.

**Nanodomain coupling at an excitatory cortical synapse.**

***Current Biology***, Vol. 23, pp. 244-249. **Impact Factor: 9,494.**

ZHANG J., XU Q., YUAN X., CHERASSE Y., **SCHIFFMANN S.N.**, DE KERCHOVE D'EXAERDE A., QU W., URADE Y., LAZARUS M., HUANG Z. and LI R.

**Projections of nucleus accumbens adenosine A2A receptor neurons in the mouse brain and their implications in mediating sleep-wake regulation.**

***Frontiers in Neuroanatomy***, Vol. 7, nr. 43, pp. 1-9. **Impact Factor: 4,058.**

### **Dr. Pierre VANDERHAEGHEN**

VERONIQUE VAN DEN BERGHE, ELKE STAPPERS, BRAM VANDESANDE, JORDANE DIMIDSCHSTEIN, ROEL KROES, ANNICK FRANCIS, ANDREA CONIDI, FLORE LESSAGE, RUBEN DRIES, SILVIA CAZZOLA, GEERT BERX, NICOLETTA KESSARIS, **PIERRE VANDEHAEGHEN**, WILFRED VAN IJCKEN, FRANK G. GROSVELD, STEVEN GOOSSENS, JODY J. HAIGH, GORD FISHELL, ANDRÉ GOFFINET, STEIN AERTS, DANNY HUYLEBROECK and EVE SEUNTJES.

**Directed migration of cortical interneurons depends on the cell-autonomous action of sip1.**

***Neuron***, Vol. 77, pp. 70-82. **Impact Factor: 15.766.**

IRA ESPUNY-CAMACHO, KIMMO A. MICHELSEN, DAVID GALL, DANIELE LINARO, ANJA HASCHE, JERÔME BONNEFONT, CAMILLIA BALI, DAVID ORDUZ, ANGELINE BILHEU, ADÈLE HERPOEL, NELLE LAMBERT, NICOLAS GASPARD, SOPHIE PÉRON, SERGE N. SCHIFFMAN, MICHELE GIUGLIANO, AFSANEH GAILLARD and **PIERRE VANDERHAEGHEN**.

**Pyramidal neurons derived from human pluripotent stem cells integrate efficiently into mouse brain circuits in vivo.**

***Neuron***, Vol. 77, pp. 440-456. **Impact Factor: 15.766.**

JORDANE DIMIDSCHSTEIN, LARA PASSANTE, AUDREY DUFOUR, JELLE VAN DEN AMEELE, LUCA TIBERI, TATYANA HRECHDAKIAN, RALF ADAMS, RÜDIGER KLEIN, DIETER CHICHUNG LIE, YVES JOSSIN and **PIERRE VANDERHAEGHEN**.

**Ephrin-B1 controls the columnar distribution of cortical pyramidal neurons by restricting their tangential migration.**

***Neuron***, Vol. 79, pp. 1123-1135. **Impact Factor: 15.766.**

## **Université de Liège** **(ULg)**

### **Prof. dr. Pierre MAQUET**

ALBOUY G., VANDEWALLE G. , STERPENICH V., RAUCHS G., DESSEILLES M., BALTEAU E., DEGUELDRE C., PHILLIPS C., LUXEN A. and **MAQUET P.**

**Sleep stabilizes visuomotor adaption memory: a functional magnetic resonance imaging study.**

***The Journal of Sleep Research***, Vol. 22, pp. 144-154. **Impact Factor: 3.040.**

ALBOUY G., STERPENICH V., VANDEWALLE G., DARSAUD A., GAIS S., RAUCHS G., SESSEILLES M., BOLY M., DANG-VU T., BALTEAU E., DEGUELDRE C., PHILLIPS C., LUXEN A. and **MAQUET.P.**

**Interaction between hippocampal and striatal systems predicts subsequent consolidation of motor sequence memory.**

***PloS One***, Vol. 8, e59490. **Impact Factor: 3.730.**

DARDENNE B., DUMONT M., SARLET M., PHILLIPS C., BALTEAU E., DEGUELDRE C., LUXEN A., **MAQUET P.**, SALMON E. and COLETTE F.

**Benevolent sexism alters executive brain responses.**

***Neuroreport***, Vol. 49, pp. 572-577. **Impact Factor: 1.400.**

MASCETTI L., FORET A., SCHROUFF J., MUTO V., DIDEBERG V., BALTEAU E., DEGUELDERE C., PHILLIPS C., LUXEN A., COLLETTE F., BOURS V. and **MAQUET P.**

**Concurrent synaptic and systems memory consolidation during sleep.**

***The Journal of Neuroscience***, Vol. 33, pp. 10182-10190. **Impact Factor : 6.910.**

MASCETTI L., MUTO V., MATARAZZO L., FORET A., ZIEGLER E., ALBOUY G., STERPENICH V., SCHMIDT C., DEGUELDRE C., LELERCQ Y., PHILLIPS C. , LUXEN A., VANDEWALLE G. , VOGELS R., **MAQUET P.** and BALTEAU E.

**The impact of visual perceptual learning on sleep and local slow-wave initiation.**

***The Journal of Neuroscience***, Vol. 33, pp. 3323-3331. **Impact Factor : 6.910.**

ZIEGLER E., FORET A., MASCETTI L., MUTO V., LE BOURDIEC-SHAFFI A., STENDER J., BALTEAU E., DIDEBERG V., BOURS V., **MAQUET P.** and PHILLIPS C.

**Altered white matter architecture in BDNF met carriers.**

***PloS One*** 8, e69290. **Impact Factor : 3.730.**

### **Dr. Laurent NGUYEN and Dr Brigitte MALGRANGE**

ARIEL AVILA, PIA M. VIDAL, NEIL DEAR, ROBERT J. HARVEY, JEAN-MICHEL RIGO and LAURENT NGUYEN

**Glycine receptor  $\alpha 2$  subunit activation promotes cortical interneuron migration**

***Cell Reports***, Vol. 4, pp. 738-750. **Impact Factor: 7,200.**