

PUBLICATIONS DES ÉQUIPES DE RECHERCHE

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Prof. dr. Jan Gettemans

WOUTER VAN OVERBEKE, ADRIAAN VERHELLE, INGE EVERAERT, OLIVIER ZWAENPOEL, JOËL VANDEKERCKHOVE, CLAUDE CUVELIER, WIM DERAIVE and JAN GETTEMANS.

“Chaperone nanobodies protect gelsolin against MT1-MMP degradation and alleviate amyloid burden in the gelsolin amyloidosis mouse model.”

Molecular Therapy, Vol. 22, pp. 1768-1778. **Impact Factor: 6.227.**

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

VEREECKE L., VIERA-SILVA S., BILLIET T., H. van-ES., Mc GUIRE C., SLOWICKA K., SZE M., van den BORN M., DE HERTOOGH G., CLEVERS H., RAES J., RUTGEERTS P., VERMEIRE S., BEYAERT R. and van LOO G.

“A20 controls intestinal homeostasis through cell-specific activities.”

Nature. Communications., Vol. 5,-5103,pp.1-10. **Impact factor: 10.700.**

TAKAHASHI N., VEREECKE L., J.M. BERTRAND M., DUPREZ L., B. BERGER SCOTT, DIVERT T., GONCALVE A., SZE M., GILBERT B., KOURULA S., GOOSSENS V., LEFEBVRE S., GÜNTHER C., BECKER C., BERTIN J., GOUGH PETER J., DECLERCQ W., van LOO G. and VANDENABEELE P.

“RIPK1 ensures intestinal homeostasis by protecting the epithelium against apoptosis.”

Nature, Vol. Nr. 513, pp. 95-99. **Impact Factor: 42.400.**

Mc GUIRE C., ELTON L., WIEGHOFFER J., VOET S., DEMEYER A., NAGEL D., KRAPPMANN D., PRINZ M., BEYAERT R. and van LOO G.

“Pharmacological inhibition of MALT1 protease activity by mepazine protects mice from experimental autoimmune encephalomyelitis.”

Journal of Neuroinflammation, Vol. Nr. 11, 124-135. **Impact Factor: 4.400.**

VAN DE WALLE L., VAN OPDENBOSCH N., JACQUES P., FOSSOUL A., VERHEUGEN E., VOGEL P., BEYAERT R., ELEWAUT D., THIRUMALA-DEVI KANNEGANTI, van LOO G. and LAMKANFI M.

“Negative regulation of the NLRP3 inflammasome by A20 protects against arthritis. “

Nature, Vol. 512, 69-73 (*equally contributed. **Impact Factor: 42.400.**

CATRYSE, 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.**

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Prof. dr. Serge N. SCHIFFMANN

DAVID ORDUZ, ALAIN BOOM, DAVID GALL, JEAN-PIERRE BRION, SERGE N. SCHIFFMANN and BEAT SCHWALLER.

Subcellular structural plasticity caused by the absence of the fast Ca²⁺ buffer calbindin D-28k in recurrent collaterals of cerebellar Purkinje neurons,

Frontiers in Cellular Neuroscience, Vol. 8, Art 364, pp. 1-14./ doi: 10.3389/fncel.2014.00364, Impact Factor: 4.175.

Dr. Pierre VANDERHAEGHEN

LUCA TIBERI, JEROME BONNEFONT, JELLE VAN DEN AMEELE, SERGE-DANIEL LE BON, ADE` LE HERPOEL, ANGE´ LINE BILHEU, BEVERLY W. BARON, and PIERRE VANDERHAEGHEN

A BCL6/BCOR/SIRT1 complex triggers neurogenesis and suppresses medulloblastoma by repressing sonic hedgehog signaling.

Cancer Cell, Vol. 26, pp. 797-812. *Preview and Featured Article in Cancer Cell*. Impact Factor: 23.800.

FUMIAKI NAGASHIMA, IKUO K. SUZUKI, ATSUNORI SHITAMUKAI, HARUKO SAKAGUCHI, MISATO IWASHITA, TAEKO KOBAYASHI, SHIGENOBU TONE, KAZUNORI TOIDA, PIERRE VANDERHAEGHEN and YOICHI KOSODO.

Novel and robust transplantation reveals the acquisition of polarized processes by cortical cells derived from mouse and human pluripotent stem cells.

Stem Cells and Development, Vol. 23, nr.1, pp.:2129-2142. Impact Factor: 3.900.

STEWART ANDERSON and PIERRE VANDERHAEGHEN.

Cortical neurogenesis from pluripotent stem cells: complexity emerging from simplicity.

Current Opinion in Neurobiology, Vol. 27, pp. 151-157. Impact Factor: 7.900.

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Prof. dr. Pierre MAQUET & Dr. Christophe Philips

ELODIE ANDRÉ, FARIDA GRINBERG, EZEQUIEL FARRHER, IVAN I. MAXIMOV, N. JON SHAH, CHRISTELLE MEYER, MATHIEU JASPAR, VINCENZO MUTO, CHRISTOPHE PHILLIPS and EVELYNE BALTEAU

Influence of Noise Correction on Intra- and Inter-Subject Variability of Quantitative Metrics in Diffusion Kurtosis Imaging.

Plos One, Vol. 9, nr. 4, pp. e94531, pp. 1-14. Impact Factor: 3.234.

VIRGINIE STERPENICH, SOPHIE SCHWARTZ, PIERRE MAQUET and Martin DESSEILLES
Ability to Maintain Internal Arousal and Motivation Modulates Brain Responses to Emotions
Plos One, DOI:10.1371/journal.pone011299, pp. 1-24. **Impact Factor: 3.234**

VIRBINIE STERPENICH; CHRISTINA SCHMIDT; GENVIÈVE ALBOUY; LUCA MATARAZZO; AUDREY VANHAUDENHUYSE; PIERRE BOVEROUX; CHRISTIAN DEGUELDRE; YVES LECLERCQ; EVELYNE BALTEAU; FABIENNE COLLETTE; ANDRÉ LUXEN; CHRISTOPHE PHILLIPS and PIERRE MAQUET.

Memory Reactivation during Rapid Eye Movement Sleep Promotes Its Generalization and Integration in Cortical Stores

Sleep, Vol. 37, Nr. 6, pp. 1061-1075. (1075A en 1075B). **Impact factor: 4.591.**

Dr. Laurent NGUYEN & Dr Brigitte MALGRANGE

SOPHIE LAGUESSE, ELISE PEYRE AND LAURENT NGUYEN

Progenitor genealogy in the developing cerebral cortex

Cell and Tissue Research, Vol. 32, nr. 6, pp. 1398-1407. **Impact Factor: 3.565.**

MARIE-LAURE VOLVERT, PIERRE-PAUL PRÉVOT, PIERRE CLOSE, SOPHIE LAGUESSE, SOPHIE PIROTTE, JAMES HEMPHILL, FLORENCE ROGISTER, NATHALIE KRUYZ, ROSALIE SACHELI, GUSTAVE MOONEN, ALEXANDER DEITERS, MATTHIAS MERKENSCHLAGER, ALAIN CHARIOT, BRIGITTE MALGRANGE, JULIETTE GODIN AND LAURENT NGUYEN.

MicroRNA targeting of CoREST controls polarization of migrating cortical neurons

Cell Reports, Vol. 7, nr.4, pp. 1168-1183. **Impact Factor: 8.358.**

AVILA, A., VIDAL, P.M., TIELENS, S., MORELLI, G., LAGUESSE, S., HARVEY, J.H., RIGO, J.-M. and NGUYEN, L.:

Glycine receptors control the generation of projection neurons in the developing cerebral cortex.

Cell Death and Differentiation, Vol. 21, nr. 11, pp. 1696-1708. **Impact Factor: 8.385.**