

**PUBLICATIONS OF THE RESEARCH GROUPS OF**

**KU Leuven**

*Prof. Peter Janssen,  
Prof. Danny Huylebroeck,  
Prof. Wim Vanduffel,  
Prof. Rufin Vogels*

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Prof. Vincent Timmerman,  
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**VOLUME I**

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**Prof. Dr. Peter JANSSEN**

BRAM-ERNST, RUFIN VOGELS and PETER JANSSEN

**Synchronization between the end stages of the dorsal and the ventral visual stream**  
The Journal of Neurophysiology, Vol. 105, pp. 2030-2042. **Impact Factor: 3.500.**

ELSIE PREMEREUR, WIM VANDUFFEL and PETER JANSSEN.

**Functional heterogeneity of macaque lateral intraparietal neurons.**  
The Journal of Neuroscience, Vol. 31, Nr. 34, pp. 12307-12317. **Impact Factor: 7.000.**

**Prof. Dr. Danny HUYLEBROECK**

CONIDI A., CAZZOLA S., BEETS K, CODDENS K, COLLART C, CORNELIS F, COX L, DEBRUYN J, DOBREVA MP, DRIES R, ESGUERRA C, FRANCIS A, IBRAHIMI A, KROES R, LESAGE F, MAAS E, MOYA I, PEREIRA PNG, STAPPERS E, STRYJEWSKA A, VAN DEN BERGHE V, VERMEIRE L, VERSTAPPEN G, SEUNTJENS E, UMANS L, ZWIJSEN A, HUYLEBROECK D.

**Few Smad proteins and many Smad-interacting proteins yield multiple functions and action modes in TGF $\beta$ /BMP signaling in vivo.**  
Cytokine & Growth Factor Reviews, Nr. 22, pp. 287-300. **Impact Factor:8.239.**

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**The transcription factor Smad-interacting protein-1 controls pain sensitivity via modulation of DRG neuron excitability.**  
Pain, Nr. 152, pp. 2384-2398. **Impact Factor: 5.355.**

**Prof. Dr. Wim VANDUFFEL**

KOEN NELISSEN and WIM VANDUFFEL

**Grasping-related functional magnetic resonance imaging brain responses in the macaque monkey.**  
The Journal of Neuroscience, Vol. 31, Nr. 22, pp. 8220-8229. **Impact factor: 7,271.**

ELSIE PREMEREUR , PETER JANSSEN and WIM VANDUFFEL.

**Functional heterogeneity of macaque lateral intraparietal neurons.**  
The Journal of Neurosciences, Vol. 31, Nr. 34, pp. 12307-12317. **Impact Factor: 7,271.**

ANNELIES GERITS, CHRISTIAN C. RUFF, OLIVIER GUIPPONI, NICOLE WENDEROTH, JON DRIVER and WIM VANDUFFEL.

**Transcranial magnetic stimulation of macaque frontal eye fields decreases saccadic reaction time.**  
Exp. Brain Research, Vol. 212, pp. 143-152. **Impact Factor: 2.665.**

**Prof. Dr. Rufin VOGELS**

GEERT KAYAERT, JOHAN WAGEMANS and RUFIN VOGELS.

**Encoding of complexity, shape, and curvature by macaque infero-temporal neurons**

Frontiers in Systems Neuroscience, Vol. 5, Nr.5, pp. 1-16. **Impact Factor: none**

JORIS VANGENEUGDEN, PATRICK A. DE MAZIÈRE, MARC M. VAN HULLE, TOBIAS JAEGGLI, LUC VAN GOOL and RUFIN VOGELS.

**Distinct mechanisms for coding of visual actions in macaque temporal cortex.**

Journal of Neuroscience, Vol. 31, Nr.2, pp. 385-401. **Impact factor: 7.100.**

DZMITRY A. KALIUKHOVICH and RUFIN VOGELS.

**Stimulus repetition probability does not affect repetition suppression in macaque inferior temporal cortex.**

Cerebral Cortex, Vol. 21, pp. 1547-1558. **Impact Factor: 6.500.**

BRAM-ERNST VERHOEF, RUFIN VOGELS and PETER JANSSEN

**Synchronization between the end stages of the dorsal and the ventral visual stream.**

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**Genetic and clinical features of progranulin-associated frontotemporal lobar degeneration.**

Archives of Neurology, Vol. 68, Nr.4,pp. 488-497. **Impact Factor: 7.584.**

CAPELL,A., LIEBSCHER,S., FELLERER,K., BROUWERS,N., WILLEM,M., LAMMICH,S., GIJSELINCK,I., BITTNER,R.A., CARLSON,A.M., SASSE,F., KUNZE,B., STEINMETZ,H., JANSEN,R., DORMANN,D., SLEEGERS,K., **CRUTS,M.**, HERMS,J, VAN BROECKHOVEN,C., HAASS,C.:

**Rescue of progranulin deficiency associated with frontotemporal lobar degeneration by alkalizing reagents and inhibition of vacuolar ATPase.**

Journal of Neuroscience, Vol. 31, Nr.5, pp. 1885-1894. **Impact Factor: 7.115.**

VAN DER ZEE,J., VAN LANGENHOVE,T., KLEINBERGER,G., SLEEGERS,K., ENGELBORGH,S.,  
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**TMEM106B a novel risk factor for frontotemporal lobar degeneration in a clinically diagnosed patient cohort.**

Brain, A Journal of Neurology, Vol. 134, pp. 808-815. **Impact Factor: 9.457.**

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**TMEM106B a novel risk factor for frontotemporal lobar degeneration.**

Journal of Molecular Neuroscience, Vol. Nr. 45, Nr.3, pp. 516-521 Epub: 26-May-2011

**Impact Factor: 2.504.**

JANSSENS,J., KLEINBERGER,G., WILS,H., VAN BROECKHOVEN,C

**The role of mutant TAR DNA-binding protein 43 in amyotrophic lateral sclerosis and frontotemporal lobar degeneration.**

Biochemical Society Transactions, Vol. 39, Nr. 4, pp. 954-959 (2011) Epub: 01-Aug-2011/

**Impact Factor: 3.711.**

### **Prof. Dr. Vincent TIMMERMAN**

CHRISTIAN GUELLY, PENG-PENG ZHU, LEA LEONARDIS, LEA PAPIC, JANEZ ZIDAR, MARIA  
SCHABHÜTTL, HEIMO STROHMAIER, JOACHIM WEIS, TIM M. STROM, JANATHAN BAETS, JAN  
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TRAJANOSKI, THOMAS R. PIEBER, ANDREAS R. JANECKE, CRAIG BLACKSTONE and MICHAELA AUER-  
GRUMBACH.

**Targeted high-throughput sequencing identifies mutations in *atlastin-1* as a cause of hereditary sensory neuropathy type 1**

The American Journal of Human Genetics, Vol. 88, Nr. 1, pp. 99-105. **Impact factor: 11.680.**

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HOULDEN, BERNARD BRAIS, GARTH A. NICHOLSON, HILDE VAN ESCH, SHAHRIAR NAFASSI, PETER DE  
JONHE, MARY M. REILLY, PATRICK A. DON, GUY A. ROULEAU and VINCENT TIMMERMAN

**KIF1A, an axonal transporter of synaptic vesicles, is mutated in hereditary sensory and autonomic neuropathy type 2**

The American Journal of Human genetics, Vol. 89, Nr. 2, pp. 219-230. **Impact factor: 11.680.**

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**Genetic spectrum of hereditary neuropathies with onset in the First year of life**

Brain , Vol. Nr. 134, pp. 2664-2676. **Impact factor: 9.232.**

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**Distal myopathy with upper limb predominance caused by *filamin C* haploinsufficiency.**  
Neurology, Vol. 77, Nr. 24, pp. 2105-2114. **Impact Factor: 8.017.**

ANNELIES ROTTHIER, ANKE PENNO, BERND RAULENSTRAUSS, MICHAELA AUER-GRUMBACH, GEORG M. STETTNER, BOB ASSELBERGH, KIM VAN HOOFF, HEINRICH STICHT, NICOLAS LÉVY, KATRIEN JANSSENS, THORSTEN HORNEMANN and VINCENT TIMMERMAN.

**Characterization of two mutations in the SPTLC1 subunit of serine palmitoyltransferase associated with hereditary sensory and autonomic neuropathy type I**  
Human Mutation, mutations in Brief on line, pp. 1-15. **Impact factor: 5.956.**

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**Reduced penetrance in hereditary motor neuropathy caused by *TRPV4* arg269Cys mutation.**

Journal of Neurology, Vol. 258, pp. 1413-1421. **Impact Factor: 3.853.**

LEONARDI ALMEIDA-SOUZA, BOB ASSELBERGH, CONSTANTIN D'YDEWALLE, KRISTOF MOONENS, SOFIE GOETHALS, VICKY DE WINTER, ABDELKRIM AZMI, JOY IROBI, JEAN-PIERRE TIMMERMAN, KRIS GEVAERT, HAN REMAUT, LUDO VAN DEN BOSCH, SOPHIE JANSSENS and VINCENT TIMMERMAN;

**Small heat-shock protein HSPB1 mutants stabilize microtubules in Charcot-Marie-Tooth neuropathy**

The Journal of Neuroscience, Vol. 31, Nr. 43, pp. 15320-15238. **Impact Factor: 7.271.**

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**Dominant *GDAP1* mutations cause predominantly mild CMT phenotypes.**

Neurology, Vol. 77, Nr. 6, pp. 540-548. **Impact factor:8.017.**

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**Microtubule dynamics in the peripheral nervous system. A matter of balance.**

BioArchitecture, Vol. 1, nr. 6, pp. 267-270. **Impact Factor: unknow.**

**Prof. Dr. Christine VAN BROECKHOVEN**

CHEN-PLOTKIN,A.S., MARTINEZ-LAGE,M., SLEIMAN,P.M.A., HU,W., GREENE,R., MC CARTHY WOOD,E., BING,S., GROSSMAN,M., SCHELLENBERG,G., HATANPAA,K.J., WEINER,M.F., WHITE III,C.L., BROOKS,W., HALLIDAY,G.M., KRIL,J.J., GEARING,M., BEACH,T.G., GRAFF-RADFORD,N.R., DICKSON,D.W., RADEMAKERS,R., BOEVE,B.F., PICKERING-BROWN,S.M., SNOWDEN,J., VAN SWIETEN,J.C., HEUTINK,P., SEELAAR,H., MURRELL,J.R., GHETTI,B., SPINA,S., GRAFMAN,J., KAYE,J.A., WOLTJER,R.L., MESULAM,M., BIGIO,E.H., LLADÓ,A., MILLER,B.L., ALZUALDE,A., MORENO,F., ROHRER,J.D., MACKENZIE,I.R., FELDMAN,H., HAMILTON,R.L., CRUTS,M., ENGELBORGH,S., DE DEYN,P., **VAN BROECKHOVEN,C.**, BIRD,T.D., CAIRNS,N.J., GOATE,A., FROSCHE,M.P., RIEDERER,P., BOGDANOVIC,N., LEE,V.M.-Y., TROJANOWSKI,J.Q., VAN DEERLIN,V.M.

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PIRICI,D., VAN CAUWENBERGHE,C., **VAN BROECKHOVEN,C.**, KUMAR-SINGH,S.

**Fractal analysis of amyloid plaques in Alzheimer's disease patients and mouse models.**  
Neurobiology of Aging, Vol. 32, Nr. 9, pp. 1579-1587. **Impact Factor: 6.189.**

JANSSENS,J., KLEINBERGER,G., WILS,H., **VAN BROECKHOVEN,C.**

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