

PUBLICATIONS OF THE RESEARCH GROUPS OF

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KATHOLIEKE UNIVERISTEIT LEUVEN
(KU Leuven)

Prof. dr. Claudia BAGNI

CLAUDIA BAGNI, FLORA TASSONE, GIOVANNI NERI and RANDI HAGERMAN.

Fragile X syndrome: causes, diagnosis, mechanisms and therapeutics

The Journal of Clinical Investigation, Vol. 122, Nr. 12, pp. 4314-4322. **Impact Factor: 13,069.**

Prof. dr. Peter CARMELIET

AN VERHEYEN, EVE PEERAER, RONY NUYDENS, JOKE DHONDT, KOEN POESEN, ISABEL PINTELON, ANNELEEN DANIELS, JEAN-PIERRE TIMMERMANS, THEO MEERT, PETER CARMELIET and DIETHER LAMBRECHTS

Systemic anti-vascular endothelial growth factor therapies induce a painful sensory neuropathy

Brain, Vol. 135, pp.2629-2641. **Impact Factor: 9.457.**

Prof. dr. Danny HUYLEBROECK

WENG Q, CHEN Y, WANG H, XU X, YANG B, HE Q, SHOU W, CHEN Y, HIGASHI Y, VAN DEN BERGHE V, SEUNTJENS E, KERNIE SG, BUKSHUN P, SHERR EH, HUYLEBROECK D, LU QR.

Dual-mode modulation of Smad signalling by Smad-interacting protein Sip1 is required for myelination in the Central Nervous S.

Neuron, Vol. 73, nr. 4, pp. 713-728. **Impact Factor: 15.766.**

ROY A, FRANCIUS C, ROUSSO DL, SEUNTJENS E, DEBRUYN J, LUXENHOFER G, HUBER AB, HUYLEBROECK D, NOVITCH BG, CLOTMAN F.

Onecut transcription factors act upstream of Isl1 to regulate spinal motoneuron diversification.

Development and Stem Cells, Vol. 139, nr. 17, pp. 3109-3119. **Impact Factor: 6.208**

VAN HOUTD J K J, NOWAKOWSKA BA, SOUSA SB, VAN SCHAİK BDC, SEUNTJENS E, AVONCE N, SIFRIM A, ABDUL-RAHMAN OA, VAN DEN BOOGAARD M-J H, BOTTANI A, CASTORI M, CORMIER-DAIRE V, DEARDORFF MA, FILGES I, FRYER A, FRYNS J-P, GANA S, GARAVELLI L, GILLESSEN-KAESBACH G, HALL BD, HORN D, HUYLEBROECK D, KLAPECKI J, KRAJEWSKA-WALASEK M, KUECHLER A, LINES MA, MAAS S, MACDERMOT KD, MCKEE S, MAGEE A, DE MAN SA, MOREAU Y, MORICE-PICARD F, OBERSZTYN E, PILCH J, ROSSER E, SHANNON N, STOLTE-DIJKSTRA I, VAN DIJCK P, VILAIN C, VOGELS A, WAKELING E, WIECZOREK D, WILSON L, ZUFFARDI O, VAN KAMPEN AHC, DEVRIENDT K, HENNEKAM R, VERMEESCH JR.

Heterozygous missense mutations in SMARC2 cause Nicolaides-Baraitser syndrome.

Nature Genetics, Vol. 44, Nr. 4, pp. 445-449. **Impact Factor: 35.209.**

SEGKLIA A, SEUNTJENS E, ELKOURIS M, TSALAVOS S, STAPPERS E, MITSIADIS TA, HUYLEBROECK D, REMBOUTSIKA E, GRAF D.

Bmp7 regulates the survival, proliferation, and neurogenic properties of neural progenitor cells during corticogenesis in the mouse.

PLoS One, Vol. 7, nr. 3:e34088. **Impact Factor: 4.730.**

Prof. dr. Peter JANSSEN

TOM THEYS, PIERPAOLA PANI, JOHANNES VAN LOO, JAN GOFFIN and PETER JANSSEN
Selectivity for three-dimensional shape and grasping-related activity in the macaque ventral premotor cortex

The Journal of Neuroscience, Vol. 32, Nr. 35, pp. 12038-12050. **Impact Factor: 7.000.**

ELSIE PREMEREUR, WIM VANDUFFEL and PETER JANSSEN

Local field potential activity associated with temporal expectations in the macaque lateral intraparietal area

Journal of Cognitive Neuroscience, Vol. 24, Nr. 6, pp. 1314-1330. **Impact Factor: 5.300.**

BRAM-ERNST VERHOEF, RUFIN VOGELS and PETER JANSSEN

Inferotemporal cortex subserves three-dimensional structure categorization.

Neuron, Vol. 73, pp. 171-182. **Impact Factor: 14.000.**

TOM THEYS, SIDDHARTH SRIVASTAVA, JOHANNES VAN LOO, JAN GOFFIN and PETER JANSSEN

Selectivity for three-dimensional contours and surfaces in the anterior intraparietal area.

Journal of Neurophysiology, Vol. 107, pp. 995-1008. **Impact Factor: 3.500.**

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Prof. dr. Marc CRUTS

VAN LANGENHOVE,T., VAN DER ZEE,J., ENGELBORGH,S., VANDENBERGHE,R., SANTENS,P., VAN DEN BROECK,M., MATTHEIJSENS,M., PEETERS,K., NUYTTEN,D., CRAS,P., DE DEYN,P., DE JONGHE,P., **CRUTS,M.**, VAN BROECKHOVEN,C.

Ataxin-2 polyQ expansions in FTLD-ALS spectrum disorders in Flanders-Belgian cohorts.

Neurobiology of Aging, Vol. 33: 1004.e17-1004.e20. **Impact Factor.: 6.166.**

GIJSELINCK,I., VAN LANGENHOVE,T., VAN DER ZEE,J., SLEEGERS,K., PHILTJENS,S., KLEINBERGER,G., JANSSENS,J., BETTENS,K., VAN CAUWENBERGHE,C., PERESON,S., ENGELBORGH,S., SIEBEN,A., DE JONGHE,P., VANDENBERGHE,R., SANTENS,P., DE BLEECKER,J., MAES,G., BÄUMER,V., DILLEN,L., JORIS,G., CUIJT,I., CORSMIT,E., ELINCK,E., VAN DONGEN,J., VERMEULEN,S., VAN DEN BROECK,M., VAERENBERG,C., MATTHEIJSENS,M., PEETERS,K., ROBBERECHT,W., CRAS,P., MARTIN,J-J., DE DEYN,P., **CRUTS,M.**, VAN BROECKHOVEN,C.

A C9orf72 promoter repeat expansion in a Flanders-Belgian cohort with disorders of the frontotemporal lobar degeneration-amyotrophic lateral sclerosis spectrum: a gene identification study.

Lancet Neurology, Vol. 11: 54-65. **Impact Factor.: 23.917.**

SIEBEN,A., VAN LANGENHOVE,T., ENGELBORGH,S., MARTIN,J-J., BOON,P., CRAS,P., DE DEYN,P., SANTENS,P., VAN BROECKHOVEN,C., **CRUTS,M.**

The genetics and neuropathology of frontotemporal lobar degeneration.

Acta Neuropathologica, Vol. 124: 353-372. **Impact Factor.: 9.734.**

THEUNS,J., VAN BROECKHOVEN,C. and **CRUTS,M.**

Locus-specific mutation databases for neurodegenerative brain diseases.

Human Mutation, Vol. 33: 1340-1344. **Impact Factor.: 5.686.**

Prof. dr. Vincent TIMMERMAN

ANNE HOLMGREN, DELPHINE BOUHY and VINCENT TIMMERMAN.

Molecular biology of small heat shock proteins associated with peripheral neuropathies
Genetics and Disease, eLS, pp. 1-10. **No impact factor** for Encyclopedia of Life Sciences (eLS)
 because this is an electronic journal!

MAGDALENA ZIMON, JONATHAN BAETS, LEONARDO ALMEIDA-SOUZA, ELS DE VRIENDT, JELENA NIKODINOVIC, YESIM PARMAN, ESRA BATTALOGU, ZELIHA MATUR, VELINA GUERGUELTCHEVA, IVAILO TOURNEV, MIDHAELA AUER-GRUMBACH, PETER DE RIJK, BRITT-SABINA PETERSEN, THOMAS MULLER, ERIK FRANSEN, PHILIP VAN DAMME, WOLFGANG N LÖSCHER, NINA BARISIC, ZOEAN MITROVIC, STEFANO C PREVITALI, HALUK TOPALOGU, GÜNTHER BERNERT, ANA BELEZA-MEIRELES, SLOBODANKA TODOROVIC, DUSANKA SAVIC-PAVICEVIC, BORYANA ISHPEKOVA, SILVIA LECHNER, KRISTIEN PEETERS, TINNE OOMS, ANGELIKA F HAHN, STEPHAN ZÜCHER, VINCENT TIMMERMAN, PATRICK VAN DIJCK, VEDRANA MILIC RASIC, ANDREAS R JANECKE, PETER DE JONGHE and ALBENA JORDANOVA

Loss-of-function mutations in *HINT1* cause axonal neuropathy with neuromyotonia
Nature Genetics, Vol. 44, nr. 10, pp. 1080-1083 - Epub: 09-Sep-2012. **Impact Factor: 35.209.**

ANNELIES ROTTHIER, JONATHAN BAETS, VINCENT TIMMERMAN and KATRIEN JANSSENS
Mechanisms of disease in hereditary sensory and autonomic neuropathies
Nature Reviews Neurology, Vol. 8, nr. 2, pp. 73-85 (2012) Epub: 24-Jan-2012. **Impact Factor: 15.518.**

ANNE HOLMGREN, DELPHINE BOUHY and VINCENT TIMMERMAN.

Neurofilament phosphorylation and their proline-directed kinases in health and disease.
Journal of the Pheripheral Nervous System, Vol. 17, pp. 365-376. **Impact factor: 2.570.**

JOY IROBI, ANNE HOLMGREN, VICKY DE WINTER, BOB ASSELBERGH, JAN GETTEMANS, DIRK ADRIAENSEN, CHANTAL CEUTERICK-de GROOTE, RUDY VAN COSTER, PETER DE JONGHE and VINCENT TIMMERMAN.

Mutant HSPB8 causes protein aggregates and e reduced mitochondrial membrane potential in dermal fibroblasts from distal hereditary motor neuropathy patients.
Neuromuscular Disorders, Vol. 22, nr. 8, pp. 699-711. Epub: 15-May-201. **Impact Factor: 3.464.**

VINCENT TIMMERMAN, VIRGINIA E. CLOWES and EVAN REID

Overlapping molecular pathological themes mink Charcot-Marie-Tooth neuropathies and hereditary spastic paraplegias.
Experimental Neurology 246: 14-25. Epub: 18-Jan-2012. **Impact Factor: 5.213.**

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LEITÃO-GONÇALVES,R.B., ERMANOSKA,B., JACOBS,A., DE VRIENDT,E., **TIMMERMAN,V.**, LUPSKI,J., CALLAERTS,P., JORDANOVA,A.:

***Drosophila* as a platform to predict the pathogenicity of novel aminoacyl-tRNA synthetase mutations in CMT.**

Amino Acids, Vol. 42, nr. 5, pp. 1661-1168. Epub: 08-Mar-2011 (PMID: 21384131).
Impact Factor: 3.914.

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PIETRI S, DIMIDSCHSTEIN J, TIBERI L, SOTIROPOULOU PA, BILHEU A, GOFFINET A, ACHOURI Y, TISSIR F, BLANPAIN C, JACQUEMIN P, VANDERHAEGHEN P.

Transcriptional Mechanisms of EphA7 Gene Expression in the Developing Cerebral Cortex.
Cerebral Cortex, Vol. 22, nr. 7, pp.1678-1689. **Impact Factor: 6.280.**