PUBLICATIONS OF THE RESEARCH GROUPS OF

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Prof. Dr. Peter CARMELIET

DHONDT J., PEERAER E., VERHEYEN A., NUYDENS R., BUYSSCHAERT I., POESEN K., VAN GEYTE K., BEERENS M., SHIBUYA M., HAIGH J.J., MEERT T., CARMELIET P. and LAMBRECHTS D.
Neuronal FLT1 receptor and its selective ligand VEGF-B protect against retrograde degeneration of sensory neurons.
The FASEB Journal, Vol. 25, pp. 1461-1473. **Impact Factor: 6,515.**

Prof. Dr. Peter JANSSEN

VERHOEF BRAM-ERNST, VOGELS R. And JANSSEN P.
Contribution of inferior temporal and posterior parietal activity to three- dimensional shape perception
Current Biology, curbio 8026. **Impact Factor: 11,000**.

Prof. Dr. Wim VANDUFFEL

WARDAK CLAIRE, VANDUFFEL W. and ORBAN G.
Searching for a salient target involves frontal regions.
Cerebral Cortex, doi.10.1093/cercor/bhp315, pp. 2 – 14. **Impact Factor: 6,844.**

Prof. Dr. Rufin VOGELS

MANYAKOV N., VOGELS R. and VAN HULLE M.
Decoding Stimulus-Reward Pairing From Local Field Potentials Recorded From Monkey Visual Cortex. IEEE Transactions on Neural Networks, Vol. 21, Nr.12, pp. 1892-1902. **Impact Factor: 2,89**.

MYSORE S., VOGELS R., RAIGUEL S., TODD J. and ORBAN G.
The selectivity of neurons in the macaque fundus of the superior temporal area for three-dimensional structure from motion.
Journal of Neuroscience, Vol. 30, Nr.46, pp. 15491-15508. **Impact factor: 7,180.**

FRANKÓ E., SEITZ A. and VOGELS R.
Dissociable neural effects of long-term stimulus-reward pairing in macaque visual cortex.
Journal of Cognitive Neuroscience, Vol. 22 , Nr. 7, pp. 1425-1439. **Impact Factor: 5,380.**

VERHOEF B., VOGELS R. and JANSSEN P.
Contribution of inferior temporal and posterior parietal activity to three-dimensional shape perception.
Current Biology, Vol. 20, Nr. 10, pp. 909-913. **Impact factor: 10,990.**

VANGENEUGDEN J., VANCLEEF K., JAEGGLI T., VAN GOOL L., VOGELS R.
Discrimination of locomotion direction in impoverished displays of walkers by macaque monkeys.
Journal of Vision, Vol. 10, Nr. 4, pp. 22,pp.1-19. **Impact factor: 3,020.**

VOGELS R.
Mechanisms of visual perceptual learning in macaque visual cortex.
Topics in Cognitive Science, Vol. 2, Nr. 2, pp. 239-250. **Impact factor: 3,190.**

Univeristeit Antwerpen

Prof. Dr. Vincent TIMMERMAN

BAETS J., DECONINCK T., SMETS K., GOOSSENS D., VAN DEN BERGH P., DAHAN K., SCHMEDDING E., SANTENS P., MILIC RASIC V., VAN DAMME P., ROBBERECHT W., DE MEIRLEIR L., MICHIELSENS B., DEL-FAVERO J., JORDANOVA A. and , DE JONGHE P.
Mutations in *SACS* cause atypical and late-onset forms of ARSACS
Neurology, Vol. 75, nr. 13, pp. 1181-1187. **Impact Factor: 7,043.**

APPENZELLER S., SCHIRMACHER A., HALFTER H., BÄUMER S., PENDZIWIAT M., FEKETE K., STÖGBAUER F., LÜDEMENN P., HUND M., QUABIUS SUZANNE E., RINGELSTEIN BERND E., KUHLENBÄUMER G., DE JONGHE P. and TIMMERMAN V.
Autosomal-dominant striatal degeneration is caused by a mutation in the phosphodiesterase 8B gene.
American Journal of Human Genetics, Vol. 86, nr. 1, pp. 83-87. **Impact Factor 10,153.**

KENNERSON M., NICHOLSEN A. G., KALER G. S., KOWALSKI B., MERCER F.B.J., TANG J., LLANOS M. R., CHU S., TAKATA I.R., SPECK-MARTINS C.E., BAETS J., ALMEIDA-SOUZA L., FISCHER D., TAYLOR P. E., SCHERER S.S., FERGUSON T.A., BIRD T. D., FFELY S.M.E., SHY M. E., GARBERN J. and TIMMERMAN V.
Missense mutations in the copper transporter gene *ATP7A* cause X-linked distal hereditary motor neuropathy
American Journal of Human Genetics, Vol. 86, pp. 1-10. **Impact Factor 10,153.**

ROTTHIER A., AUER-GRUMBACH M., JANSSENS K., BAETS J., PENO A., ALMEIDA-SOUZA L., VAN HOOF K., JACOBS A., DE VRIENDT E., SCHLOTTER-WEIGEL B., LÖSCHER W., VONDRÁCEK P., SEEMAN P., VAN DYCK P., JORDANOVA A., HORNERMANN T., DE JONGHE P. and TIMMERMAN V.
Mutations in the *SPTLC2* subunit of serine palmitoyltransferase cause hereditary sensory and autonomic neuropathy type I
American Journal of Human Genetics, Vol. 87, pp. 513-522. **Impact Factor 10,153.**

KABZINSKA R., STRUGALLSKA-CYNOSKA H., KOSTERA-PRUSZCZYK A., RYNIEWICZ B., POSMYCK R., MIDRO A., SEEMAN P., BÁRANKOVÁ L., ZIMON M., BAETS J., GUERGUELTCHEVA V., TOURNEV I., SARAFOV S., JORDANOVA A., HAUSMANOVA-PETRUSEWICZ I., KOCHANSKI A., DE JONGHE P. and TIMMERMAN V.
L239F founder mutation in *GDAP1* is associated with a mild Charcot-Marie-Tooth type 4C4 (CMT4C4) phenotype.
Neurogenetics, Vol. 11, nr. 3, pp. 357-366. **Impact Factor: 3,000.**

ZIMON M., BAETS J., AUER-GRUMBACH M., BERCIANO J., GARCIA A., LOPEZ-LASO E., MERLINI L., HILTON-JONES D., McENTAGART M., CROSBY H. A., BARISIS N., BOLTSHAUSER E., SHAW E. C., LANDOURÉ G., LUDLOW L. C., GAUDET R., HOULDEN H., REILLY M. M., FISCHBECK H. K., SUMNER J. C., JORDANOVA A., DE JONGHE P. and TIMMERMAN V.
Dominant mutations in the cation channel gene transient receptor potential vanilloid 4 cause an unusual spectrum of neuropathies.
Brain, Vol. 133, Nr. 6, pp. 1798-1809. **Impact Factor: 9,603.**

IROBI J., ALMEIDA-SOUZA L., ASSELBERBERGH B., DE WINTER V., GOETHALS S., DIERICK I., KRISCHNAN J., TIMMERMANS J.-P., ROBBERECHT W., VAN DEN BOSCH L., JANSSENS S., DE JONGHE P. and TIMMERMANS V.
Mutant HSPB8 causes motor neuron-specific neurite degeneration.
Human Molecular Genetics, Vol. 19, nr. 16, pp. 3254-3265. **Impact factor: 7,386**.

ALMEIDA-SOUZA L., GOETHALS S., de WINTER V., DIERICK I., GALLARDO R., VAN DURME J., IROBI J., GETTEMANS J., ROUSSEAU F., SCHYMKOWITZ J., JANSSENS S. and TIMMERMAN V.
Increased monomerization of mutant HSPB1 leads to protein hyperactivity in Charcot-Marie-Tooth neuropathy.
Journal of Biological Chemistry, Vol. 285, nr. 17, pp. 12778-12786. **Impact Factor: 5,520**.

Prof. Dr. Christine VAN BROECKHOVEN

BROUWERS N., BETTENS K., GIJSELINCK I., ENGELBORGHS S., PICKUT B. A., VAN MIEGROET H., MONTOYA A. G., MATTHEIJSSENS M., PEETERS K., DE DEYN P., CRUTS M., SLEEGERS K. and VAN BROECKHOVEN C.
Contribution of *TARDBP* to Alzheimer's disease genetic etiology.
Journal of Alzheimer's Disease, Vol. 21, pp. 423-430. **Impact Factor: 4,261.**

KLEINBERGER G., WILS H., PONSAERT P., JORIS G., TIMMERMANS J.P., KUMAR-SINGH S. and VAN BROECKHOVEN C.
Increased caspase activation and decreased TDP-43 solubility in progranulin knockout cortical cultures.
Journal of Neurochemistry, Vol. 115, pp. 735-747. **Impact Factor: 4,337.**

SLEEGERS K., BROUWERS N. and VAN BROECKHOVEN C.
Role of progranulin as a biomarker for Alzheimer's disease.
Biomarkers Med., Vol. 4, nr. 1, pp. 37-50. **Impact Factor: 1,247.**

SLEEGERS K., CRUTS M. and VAN BROECKHOVEN C.
Molecular pathways of frontotemporal lobar degeneration.
Annual Review of Neuroscience, Vol. 33, pp. 71-88. **Impact factor: 26,756.**

WILS H., KLEINBERGER G., JANSSENS J., PERESON S., JORIS G., CUIJT I., SMITS V. CEUTERICK-de GROOTE C. and VAN BROECKHOVEN C. and KUMAR-SINGH S.
TDP-43 transgenic mice develop spastic paralysis and neuronal inclusions characteristic of ALS and frontotemporal lobar degeneration.
Proc. Natl. Acad. Sci, Vol. 107, nr. 8, pp. 3858-3863 – Epub: 03 Feb 2010(PMID: 20123711).
Impact Factor: 9,771.