

PUBLICATIONS OF THE RESEARCH GROUPS OF

K.U.Leuven

*Prof. Peter Carmeliet, Prof. Peter Janssen,
Prof. Wim Vanduffel, Prof Rufin Vogels*

UA

Prof. Vincent Timmerman, Prof Christine Van Broeckhoven

UGent

Prof. Frans Van Roy

UMons

Dr. Laurence Ris

VUB

Prof. Yvette MICHOTTE

SUPPORTED BY GRANTS FROM THE

QUEEN ELISABETH MEDICAL FOUNDATION

2009

VOLUME I

Katholieke Universiteit Leuven

Prof. Dr. Peter CARMELIET

CARMEN RUIZ DE ALMODOVAR, LAMBRECHTS DIETHER, MAZZONE MASSIMILIANO and CARMELIET PETER.

Role and therapeutic potential of VEGF in the nervous system.

Physiological Revue, Vol. 89, pp.607-648. **Impact Factor: 26,900.**

Prof. Dr. Peter JANSSEN

SRIVASTAVA S., ORBAN G. A., DE MAZIÈRE P.A. and JANSSEN P.

A distinct representation of three-dimensional shape in macaque anterior intraparietal area: fast, metric and coarse.

The journal of neuroscience, Vol. 29, Nr. 34, pp. 10613-10626. **Impact Factor: 7,500.**

Prof. Dr. Wim VANDUFFEL

RADHAKRISHNAN H., PING DENG HONG, EKSTROM L., BOAS DAVID A., FRANCESCHINI MARIA ANGELA and VANDUFFEL WIM.

Fast optical signal not detected in awake behaving monkeys.

NeuroImage, Vol. 45, pp. 410-419. **Impact Factor: 5,694.**

JOLY OLIVIER, ORBAN GUY A. and VANDUFFEL WIM.

The monkey ventral premotor cortex processes 3D shape from disparity.

NeuroImage, Vol. 47, pp. 262-272. **Impact factor: 5.694**

KOLSTER HAUKE, MANDEVILLE JOSEPH B., ARSENAULT JOHN T., EKSTROM LEELAND B., WALD LAWRENCE I. And VANDUFFEL WIM.

Visual field map clusters in macaque extrastriate visual cortex.

The Journal of neuroscience, Vol. 29, nr. 21, pp. 7031-7039. **Impact Factor: 7.452.**

EKSTROM LEELAND B. , ROELFSEMA PIETER R., ARSENAULT JOHN T KOLSTER HAUKE and VANDUFFEL WIM.

Modulation of the contrast response function by electrical microstimulation of the macaque frontal eye field.

The Journal of neuroscience, Vol. 29, nr. 34, pp. 10683-10694. **Impact Factor: 7.452.**

Prof. Dr. Rufin VOGELS

VANGENEUGDEN JORIS, POLLICK FRANK and VOGELS RUFIN.

Functional differentiation of macaque visual temporal cortical neurons using a parametric action space

Cerebral Cortex, Vol. 19, pp. 593-611. **Impact Factor: 6,980.**

Universiteit Antwerpen

Prof. Dr. Vincent TIMMERMAN

BAETS J., DIERICK I., CEUTERICK-DE GROOTE C., VAN DEN ENDE J., MARTIN J. J., GEENS K., NELIS E., DE JONGHE P. and TIMMERMAN V.

Peripheral neuropathy and 46XY gonadal dysgenesis: a heterogeneous entity

Neuromuscular Disorders, Vol. 19, pp. 172-175. **Impact Factor: 2,932.**

KURTH I., PAMMINGER T., HENNINGS J. C., SOEHENDRA D., HUEBNER A. K., ROTTHIER A., BAETS J., SENDEREK J., TOPALOGLU H., FARRELL S. A., NURNBERG G., DE JONGHE P., GAL A., KAETHER C., HUBNER C.A. and TIMMERMAN V.

Mutations in FAM134B, encoding a newly identified gogli protein, cause severe sensory and autonomic neuropathy

Nature Genetics, advance on line publication, pp. 1-3. **Impact Factor: 30,259.**

KILLIE S.S., OZTURK R., SARISOZEA B., ROTTHIER A., BAETS J. and TIMMERMAN V.

Humoral immunodeficiency in congenital insensitivity to pain anhidrosis.

Neurogenetics, Vol. 10, pp. 161-165. **Impact Factor: 3,00.**

HORNEMANN T., PENNO A., RICHARD S., NICHOLSON G., VAN DIJK FLEUR S., ROTTHIER A., von ECKARDSTEIN A. and TIMMERMAN V.

A systematic comparison of all mutations in hereditary sensory neuropathy I (HSAN I) reveals that the G387A mutation is not disease associated.

Neurogernetics, Springer, Published on line. **Impact Factor: 3,00.**

CLAEYS K.G., ZUCHNER S., KENNERSON M., BERCIANO J., GARCIA A., VERHOEVEN K., STOREY E., MEMORY J.R., M.E.BIENFAIT H., LAMMENS M, NELIS E., BAETS J., DE VRIENDT E., BERNEMAN ZWI N., DE VEUSTER I., VANCE J. M., NICHOLSON G., DE JONGHE P. and TIMMERMAN V.

Phenotypic spectrum of dynamin 2 mutations in Charcot-Marie-Tooth neuropathy

Brain-a Journal of Neurology, (published june 5)pp. 1-12. **Impact factor: 9,603.**

ROTTIER A., BAETS J., DE VRIENDT E., JACOBS A., AUER-GRUMBACH M., LEVY N., BONELLO-PALOT N., KILLIC S.SEBNEM, WEIS J., NASCIMENTO A., SWINKELS M., KRUYT MOYO C., JORDANOVA A, DE JONGHE P. and TIMMERMAN V.

Genes for hereditary sensory and autonomic neuropathies: a genotype-phenotype correlation.

Brain-a Journal of Neurology,(Published august 9) pp. 1-13. **Impact factor: 9,603.**

STORKEBAUM E., LEITÃO-GONCALVES R., GODENSCHWEGE T., NANGLE L., MEJIA M., BOSMANS I., OOMS T., JACOBS A., VAN DIJCK P., YANG XIANG-LEI, SCHIMMEL P., NORGÅ K., CALLAERTS P., JORDANOVA A. and TIMMERMAN V.

Dominant mutations in the tyrosyl-tRNA synthetase gene recapitulate in *drosophila* features of human Charcot-Marie-Tooth neuropathy

PNAS, Vol. 106, nr. 28, pp. 11782-11787. **Impact factor: 9,380.**

GALLARDO E., GARCÍA A., RAMON C., MARAVI E., INFANTE J., GASTÓN I., ALONSO Á, COMBARROS O., BERCIANO J. and DE JONGHE P.

Charcot-Marie-Tooth disease type 2J with MPZ Thr124Met mutation: clinico-electrophysiological and MRI study of a family.

Journal of Neurology, Vol. 256, pp. 2061-2071. **Impact factor: 2,536.**

FABRIZI G.M., TAIOLI F., CAVALLARO T., FERRARI S., BERTOLASI L., CASAROTTO M., RIZZUTU N., DECONINCK T., DE JONGHE P. and TIMMERMAN V.

Further evidence that mutations in FGD4/frabin cause Charcot-Marie-Tooth disease type 4H
Abstract Neurology, Vol. 72, pp. 1160-1164. **Impact Factor: 7,043.**

Prof. Dr. Christine VAN BROECKHOVEN

PERESON S. , WILS H., KLEINBERGER G. , McGOWAN E., VANDEWOESTYNE M., VAN BROECK B. , JORIS G., CUIJT I., DEFORCE D., HUTTON M., VAN BROECKHOVEN C. and KUMAR-SINGH S.

Progranulin expression correlates with densecore amyloid plaque burden in Alzheimer disease mouse models.

Journal of Pathology, Vol. 219, pp. 173-181. **Impact Factor: 5,121.**

SLEEGERS K., BROUWERS N., VAN DAMME P., ENGELBORGHHS S., GIJSELINCK I., VAN DER ZEE J., PEETERS K., MATTHEIJSEN M., CRUTS P., VANDENBERGEH R., DE DEYN P.P., ROBBERECHT W. and VAN BROECKHOVEN C.

Serum biomarker for progranulin-associated frontotemporal lobar degeneration;
American Neurological association, Vol. 65, nr. 5, pp.603-609. **Impact Factor 9,935.**

ROLLINSON S., ROHRER J. D., VAN DER ZEE J., SLEEGERS K., MEAD S., ENGELBORGHHS S., COLLINGE J., DE DEYN P. P., M. A. MANN D., PICKERING-BROWN S. M. and VAN BROECKHOVEN C.

No association of PGRN 'UTR rs5848 in frontotemporal lobar degeneration.

Neurobiology of aging, In Press. **Impact Factor: 5,900.**

Universiteit Gent

Prof. Dr. Frans VAN ROY

VANDEPOELE K., ANDRIES V. and VAN ROY F.

The NBPF1 promoter has been recruited from the unrelated EVI5 gene before simian Radiation.
Mol. Biol. Evol., Vol. 26, pp. 1321-1332.. **Impact Factor: 7,280.**

Université Mons

Dr. Laurence RIS

RIS L., VILLERS A. and GODAUX E.

Synaptic capture-mediated long-lasting long-term potentiation is strongly dependent on mRNA translation.

Neuroreport, Vol. 20, pp. 1572-1576. **Impact Factor: 2,600.**

DEWACHTER I., RIS L. SEYMOUR C.M., JAWORSKI T., KREMER A., BORGHGRAEF P., DE VIJVER H., GODAUX E. and VAN LEUVEN F.

GSB3 β , a centre-staged kinase in neuropsychiatric disorders, modulates long term memory by inhibitory phosphorylation at serine-9.

Neurobiology of Disease, Vol. 35, Nr. 2, pp. 193-200. **Impact Factor: 4,500.**

DEWACHTER I., FILIPKOWSKI R.K., PRILLER C., RIS L., NEYTON J., CROES S., TERWEL D., GYSEMANS M., LEVIJVER H., BORGHGRAEF P., GODAUX E., KACZMAREK L. HERMS J. and VAN LEUVEN F.

Deregulation of NMDA-receptor function and down-stream signaling in APP{V717I} transgenic mice.

Neurobiology of Aging, Vol. 30, Nr. 2, pp. 241-256. **Impact Factor: 5,900.**

Vrije Universiteit Brussel

Prof. dr. Yvette MICHOTTE

DE BUNDEL D., SMOLDERS I., RUI YANG, ALBISTON ANTHONY L., SIE YEEN CHAI and MICHOTTE Y.

Angiotensin IV and LVV-haemorphin 7 enhance spatial working memory in rats: effects on hippocampal glucose levels and blood flow.

Neurobiology of Learning and Memory, Vol. 92, pp. 19-26. **Impact Factor: 3,479.**

DE MAEGDT H., LUKASZUK A., DE BUYSER E., DE BACKER J. P., SZEMENYEI E., TÓTH GÈZA, T G., CHAKRAVARTHY S., PANICKER M., TOURWÉ D., VAUQUELIN G. and MICHOTTE Y.

Selective labeling of IRAP by tritiated AT₄ receptor ligand {³H}angiotensin IV and its stable analog {³H}AL-11.

Molecular and Cellular Endocrinology, Vol. 311, pp. 77-86. **Impact Factor: 3,503.**