



Geneeskundige Stichting Koningin Elisabeth
Fondation Médicale Reine Elisabeth
Königin-Elisabeth-Stiftung für Medizin

PUBLICATIONS OF THE RESEARCH GROUPS

***Prof. dr. Bart De Strooper, MD, PhD
(KU Leuven)***

***Prof. dr. Luc Leybaert, MD, PhD
(UGent)***

***Prof. dr. Vincent Timmerman, PhD
(UAntwerpen)***

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2019

VOLUME I

Prof. dr. Bart De Strooper, MD, PhD – Publications 2019

RENZO MANCUSO, JOHANNA VAN DEN DAELE, NICOLA FATTORELLI, LEEN WOLFS, SRIRAM BALUSU, OLIVER BURTON, ADRIAN LISTON, ANNERIEKE SIERKSMA, YANNICK FOURNE, SURESH POOVATHINGAL, AMAIA ARRANZ-MENDIGUREN, CARLO SALA FRIGERIO, CHRISTEL CLAES, LUTGARDE SERNEELS, TOM THEYS, V HUGH PERY, CATHERINE VERFAILLIE, MARK FIERS, BART DE STROOPER

“Stem cell derived human microglia transplanted in mouse brain to study human disease.”

Nat Neurosci. 2019 Dec;22(12):2111-2116. doi: 10.1038/s41593-019-0525-x. Epub 2019 Oct 28

Impact Factor: 17.810.

AMAIA MENDIGUREN-ARRANZ, BART DE STROOPER

“The role of astroglia in Alzheimer’s disease: pathophysiology and clinical implications.”

Lancet Neurol. 2019 Apr;18(4):406-414. doi: 10.1016/S1474-4422(18)30490-3.

Impact Factor: 25.940.

RICE HC, DE MALMAZET D, SCHREURS A, FRERE S, VAN MOLLE I, VOLKOV AN, CREEMERS E, VERTKIN I, NYS J, RENAIVISON FM, COMOLETTI D, SAVAS JN, REMAUT H, BALSCHUN D, WIERDA KD, SLUTSKY I, FARROW K, DE STROOPER B, DE WIT J

“Secreted amyloid- β precursor protein functions as a GABA_BR1a ligand to modulate synaptic transmission.”

Science. 2019 Jan 11;363(6423). pii: eaaa04827. doi: 10.1126/science. aao4827

Impact Factor: 20.570.

SALA FRIGERIO C, WOLFS L, FATTORELLI N, THRUPP N, VOYTYUK I, SCHMIDT I, MANCUSO R, CHEN WT, WOODBURY ME, SRIVASTAVA G, MÖLLER T, HUDRY E, DAS S, SAIDO T, KARRAN E, HYMAN B, PERRY VH, FIERS M, DE STROOPER B.

“The Major Risk Factors for Alzheimer’s Disease: Age, Sex, and Genes Modulate the Microglia Response to A β Plaques”.

Cell Rep. 2019 Apr 23;27(4):1293-1306, e6. doi: 10.1016/j.celrep.2019.03.099.

Impact Factor: 7.700.

Prof. dr. Luc Leybaert, MD, PhD - Publications 2019 and accepted in 2020

FREITAS-ANDRADE M, WANG N, BECHBERGER JF, DE BOCK M, LAMPE PD*, LEYBAERT L*, NAUS CC. ***“Targeting MAPK phosphorylation sites of the Connexin43 C-terminus provides neuroprotection in stroke”***,

Journal of Experimental Medicine, <https://doi.org/10.1084/jem.20171452>

Impact factor: 10.790, category: Medicine, Research & Experimental, rank: 6/133, Vigintile: 1 (top 5%).

GIAUME C, NAUS CC, SAEZ JC AND LEYBAERT L.

“Glial connexins and pannexins in healthy and diseased brain”,

Physiological Reviews, 2021, 101: 93–145,

Impact factor: 24.014, category: Physiology, rank: 1/83, Vigintile: 1 (top 5%).

Prof. dr. Vincent Timmerman, PhD – Publications 2019

Haidar M, Asselbergh B, Adriaenssens E, De Winter V, Timmermans J-P, Auer-Grumbach M, Juneja M. and Timmerman V.

“Neuropathy-causing mutations in HSPB1 impair autophagy by disturbing the formation of SQSTM1/p62 bodies autophagy”.

Autophagy, (I.F.: 11.1)

Autophagy. 2019 Jun;15(6):1051-1068.

doi: 10.1080/15548627.2019.1569930. Epub 2019 Jan 31.

PMID: 30669930

Impact Factor: 11.059

NATHALIE BERNARD-MARISSAL, GERBEN VAN HAMEREN, MANISHA JUNEJA, CHRISTOPHE PELLEGRINO, LAURI LOUHIVUORI, LUCA BARTESAGHI, CYLIA ROCHAT, OMAR EL MANSOUR, JEAN JACQUES MÉDARD, MARIE CROISIER, CATHERINE MACLACHLAN ' OLIVIER POIROT, PER UHLÉN, VINCENT TIMMERMAN, NICOLAS TRICAUD, BERNARD L. SCHNEIDER, and ROMAN CHRAST

“Altered interplay between endoplasmic reticulum and mitochondria in charcot–marie–tooth type 2a neuropathy”

PNAS Latest Articles 1 of 10 www.pnas.org/cgi/doi/10.1073/pnas.1810932116

Proc Natl Acad Sci U S A. 2019 Feb 5;116(6):2328-2337.

doi: 10.1073/pnas.1810932116. Epub 2019 Jan 18. PMID:30659145

Impact Factor: 9.580

MANISHA JUNEJA, JOSHUA BURNS, MARIO A SAPORTA and VINCENT TIMMERMAN

“Challenges in modelling the Charcot-Marie-Tooth neuropathies for therapy development Juneja M, et al.”

J Neurol Neurosurg Psychiatry; 90:58–67. doi:10.1136/jnnp-2018-318834

Impact Factor: 8.234

INGXIA WU, SICONG MA, ROGER SANDHOFF, YANAN MING, AGNES HOTZ-WAGENBLATT, VINCENT TIMMERMAN, NATHALIE BONELLO-PALOT, BEATE SCHLOTTER-WEIGEL, MICHAELA AUER-GRUMBACH, PAVEL SEEMAN, WOLFGANG N. LO´SCHER, MARKUS REINDL, FLORIAN WEISS, ERIC MAH, NINA WEISSHAAR, ALAA MADI, KERSTIN MOHR, TILO SCHLIMBACH, RUB´I M.-H. VELASCO CA´RDENAS, JONAS KOEPPPEL, FLORIAN GRUENSCHLAGER,¹ LISANN MUELLER, MAREN BAUMEISTER, BRITTA BRUEGGER, MICHAEL SCHMITT, GUIDO WABNITZ, YVONNE SAMSTAG and GUOLIANG CUI

“Loss of Neurological Disease HSAN-I-Associated Gene SPTLC2 Impairs CD8T Cell Responses to Infection by Inhibiting T Cell Metabolic Fitness”

Cell Press 2019, Immunity 50, 1–14 - <https://doi.org/10.1016/j.immuni.2019.03.005>

Impact Factor: 21.522

BEIJER D, SISTO A, VAN LENT J, BAETS J, TIMMERMAN V.

“Defects in Axonal Transport in Inherited Neuropathies”.

Journal of Neuromuscular Disorders 2019;6(4):401-419. PMID: 31561383

Impact Factor: 2.638

OPEN ACCESS PUBLICATIE: DOI: 10.3233/JND-190427.

T. REID ALDERSON, ELIAS ADRIAENSSENS, BOB ASSEMBERBERGH, IVA PRITISANAC, HEIDI Y. GASTALL, MURIELLE WATTI, VO-INCENT TIMMERMAN, ANDREW J; BALDWIN and JUSTIN L. P. BENESCH

“Dysregulation of HSP27 oligomerization and interactions by a neuropathy -causing mutation in the IPV motif”

BioRxiv, Jul 19: pp. 1-28, doi: <http://dx.doi.10.1101/708180>

LEEN VENDREDT, ELIAS ADRIAENSSENS and VINCENT TIMMERMAN.

“Small heat shock proteins in neurodegenerative diseases”

Chapter X

ELIAS ADRIAENSSENS, BARARA TEDESCO, LAURA ASSELBERGH, VALERIE CRIPPA, FRANCESCO ANTONIANI, SERENA CARRA, ANGELO POLETTI and VINCENT TIMMERMAN

BAG3 PRO 2019 mutants associated with myopathy and neuropathy sequester chaperones of CASA-complex in aggresomes

BioRxiv, Nov 19: pp. 1-19, doi: <http://dx.doi.10.1101/852804>