



## PUBLICATIONS DES ÉQUIPES DE RECHERCHE

### UA

*Prof. dr. Vincent Timmerman, PhD*

### UGent

*Prof. dr. Luc Leybaert, PhD*

*Prof. dr. Geert van Loo & Prof. dr. Rudy Beyaert*

### VUB

*Prof. dr. Dimitri De Bundel, PhD*

*Prof. dr. Ann Massie & prof. dr. Ilse Smolders*

## SUBVENTIONNÉES AVEC DES CRÉDITS DE LA FONDATION MÉDICALE REINE ÉLISABETH

**2018**

## VOLUME II

**Universiteit Antwerpen**  
**(UA)**

**Prof. dr. Vincent Timmerman, PhD – Publications 2018**

BOUHY D, JUNEJA M, KATONA I, HOLMGREN A, ASSELBERGH B, DE WINTER V, HOICHEPIED T, GOOSSENS S, HAIGH JJ, LIBERT C, CEUTERICK-DE GROOTE C, IROBI J, WEIS J. and TIMMERMAN V.

**A knock-in/knock-out mouse model of HSPB8-associated distal hereditary motor neuropathy and myopathy reveals toxic gain-of-function of mutant Hspb8.**

***Acta Neuropathologica*, 2018;135:131-148. Impact Factor: 12.21**

JUNEJA M, AZMI A, BAETS J, ROOS A, JENNINGS MJ, SAVERI P, PISCIOTTA C, BERNARD-MARISSAL N, SCHNEIDER BL, VERFAILLIE C, CHRAST R, SEEMAN P, HAHN AF, DE JONGHE P, MAUDSLEY S, HORVATH R, PAREYSON D. and TIMMERMAN V.

**PFN2 and GAMT as common molecular determinants of axonal Charcot-Marie-Tooth disease.**

***Journal of Neurology Neurosurgery and Psychiatry*, 2018;89(8):870-878**

doi: 10.1136/jnnp-2017-317562. Epub 2018 Feb 15. PMID: 29449460

**Impact Factor = 8.272**

KROLS M, ASSELBERGH B, DE RYCKE R, DE WINTER V, SEYER A, MULLER FJ, KURTH I, BULTYNCK G, TIMMERMAN V. and JANSSENS S.

**Sensory neuropathy-causing mutations in ATL3 affect ER-mitochondria contact sites and impair axonal mitochondrial distribution.**

***Human Molecular Genetics*, Epub: 18-Oct-2018 (PMID: 30339187)**

**Impact Factor.: 4.902 - (Impact Factor: 4.900)**

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*. 2019 Jun;15(6):1051-1068. Revised November 2018.**

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 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 TIMMERMAN1

**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 Accepted in June 2018**

**Impact Factor: 8.272.**

**Vrije Universiteit Brussel**  
**(VUB)**

**Prof. dr. Dimitri De Bundel-Publications 2018**

GIULIA ALBERTINI, LAUREN DENEYER, SIGRID OTTESTAD-HANSEN, YUN ZHOU, GAMZE ATES, LAURA WALRAVE, THOMAS DEMUYSER, EDUARD BENTEA, HIDEYO SATO, NIZLS C. DANBOLT, ANN MASSIE, ILSE SMOLDERS and DIMITRI DE BUNDEL

**Genetic deletion of xCT attenuates peripheral and central inflammation and mitigates LPS-induced sickness and depressive-like behavior in mice**

*Glia Wily*, 2018, 05 april, pp. 1- 17, DOI: 10.1002/glia. 23343

**Impact Factor: 5.829**

BONGAERTS J, DE BUNDEL D, MANGELINGS D, SMOLDERS I, VANDER HEYDEN Y. and VAN EECKHAUT A.

**Sensitive targeted methods for brain metabolomics studies in microdialysis samples.**

*J Pharm Biomed Anal.* 2018 Nov 30; 161:192-205. doi: 10.1016/j. jpba.2018.08.043.

Epub 2018 Aug.23. Review.

**Impact factor: 2.983**

DE PRINS A, MARTIN C, VAN WANSEELE Y, TÖMBÖLY C, TOURWÉ D, CAVELIERS V, HOLST B, VAN EECKHAUT A, ROSENKILDE MM, SMOLDERS I. and BALLEET S.

**Synthesis and in Vitro Evaluation of Stabilized and Selective Neuromedin U-1 Receptor Agonists. ACS**

*Med Chem Lett.* 2018 Apr 23;9(5):496-501. doi: 10.1021/acsmchemlett.8b00105.

eCollection 2018 May 10.

**Impact Factor: 3.737**

**Prof. dr. Ann MASSIE and Prof dr. Ilse SMOLDERS -Publications 2018**

G. ALBERTINI, L. DENEYER, S. OTTESTAD-HANSEN, Y. ZHOU, G. ATES, L. WALRAVE, T. DEMUYSER, E. BENTEA, H. SATO, D. DE BUNDEL, N.C. DANBOLT, A. MASSIE\*, I. SMOLDERS\*.

**Genetic deletion of xCT attenuates peripheral and central inflammation and mitigates LPS-induced sickness and depressive-like behavior in mice.**

*GLIA* (2018), pp. 1-17. DOI 10.1002/glia.23343

**5-year impact factor = 6,151**

## Universiteit Gent (UGent)

### Prof. Dr. Luc Leybaert, MD, PhD -Publications 2018

DELVAEYE T, VANDENABEELE P, BULTYNCK G, LEYBAERT L\* and KRYSKO DV (\*shared senior authorship).

**“Therapeutic Targeting of Connexin Channels: New Views and Challenges.”**

*Trends Mol Med* 24(12):1036-1053, 2018.

Impact factor: 11.0, category: MEDICINE, RESEARCH & EXPERIMENTAL, rank: 5/133, Vigintile: 1 (top 5%).

MAATOUK L, YI C, CARRILLO-DE SAUVAGE MA, COMPAGNION AC, HUNOT S, EZAN P, HIRSCH EC, KOULAKOFF A, PFRIEGER FW, TRONCHE F, LEYBAERT L, GIAUME C. and VYAS S.

**“Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity”**

*Cell Death Differ* 26(3):580-596, 2018.

Impact factor: 8.00, category: BIOCHEMISTRY & MOLECULAR BIOLOGY, rank: 26/292, Decile: 1 (top 10%).

WALRAVE L, PIERRE A, ALBERTINI G, AOURZ N, DE BUNDEL D, VAN EECKHAUT A, VINKEN M, GIAUME C, LEYBAERT L\* and SMOLDERS I (\*shared senior authorship).

**“Inhibition of astroglial connexin43 hemichannels with TAT-Gap19 exerts anticonvulsant effects in rodents”**

*Glia* 66(8):1788-1804, 2018.

Impact factor: 5.846, category: NEUROSCIENCES, rank: 33/261, Quartile: 1 (top 25%).

### Prof. Dr. Geert van LOO, PhD – Publications 2018

VOET, S., MC GUIRE, C., HAGEMEYER, N., MARTENS, A., SCHROEDER, A., WIEGHOFER, P., DAEMS, C., STASZEWSKI, O., VANDE WALLE, L., COSTA JORDAO, M.J., SZE, M., VIKKULA, H., DEMEESTERE, D., VAN IMSCHOOT, G., SCOTT, C.L., HOSTE, E., GONÇALVES, A., GUILLIAMS, M., LIPPENS, S., LIBERT, C., VANDENBROUCKE, R., KIM, K.W., JUNG, S., CALLAERTS-VEGH, Z., CALLAERTS, P., DE WIT, J., LAMKANFI, M., PRINZ, M. AND VAN LOO, G. (2018)

**A20 critically controls microglia activation and inhibits inflammasome-dependent neuroinflammation.**

*Nature Communications*, 9 (1), 2036.

Impact Factor:13.100.

SLOWICKA, K. AND VAN LOO, G. (2018)

**Optineurin functions for Optimal immunity.**

*Frontiers Immunology*, 9, 769.

Impact Factor: 6.420.

CATRYSSSE, L. AND VAN LOO, G. (2018)

**Adipose tissue macrophages and their polarization in health and obesity.**

*Cellular Immunology*, 330, 114-119.

Impact Factor: 3.170.