



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

PUBLICATIONS OF THE RESEARCH GROUPS

*Prof. dr. An Goris, PhD
(KU Leuven)*

*Prof. Laurent Nguyen and dr. Brigitte Malgrange
(ULiège)*

*Prof. dr. Peter Vangheluwe, PhD
(KU Leuven)*

*Prof. dr. Catherine Verfaillie
(KU Leuven)*

*Prof. dr. Thomas Voets
(KU leuven)*

*Prof. dr. Kristl Vonck
(UGent)*

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2019

VOLUME II

Prof. dr. An GORIS, PhD - Publications in 2019

VAN HOREBEEK L.* , HILVEN K.* , MALLANTS K., VAN NIEUWENHUIJZE A., KELKKA T., SAVOLA P., MUSTJOKI S., SCHLENNER S.M., LISTON A., DUBOIS B., GORIS A

“A robust pipeline with high replication rate for detection of somatic variants in the adaptive immune system as a source of common genetic variation in autoimmune disease.”

Human Molecular Genetics, 2019, 28:1369-1380.

Impact Factor: 4.540

Prof. Laurent NGUYEN and Dr. Brigitte MALGRANGE – Publications 2019

TELLEY*†, G. AGIRMAN†, J. PRADOS, N. AMBERG, S. FIÈVRE, P. OBERST, G. BARTOLINI, I. VITALI, C. CADILHAC, S. HIPPENMEYER, L. NGUYEN, A. DAYER, D. JABAUDON* TELLEY ET AL.,

“Temporal patterning of apical progenitors and their daughter neurons in the developing neocortex “

Science 364, 547 (2019) 10 May 2019.

Impact Factor: 41.885

CARLA G. SILVA, ELISE PEYRE and LAURENT NGUYEN

“Cell migration promotes dynamic cellular interactions to control cerebral cortex morphogenesis “

Nature Reviews Neuroscience, <https://doi.org/10.1038/s41583-019-0148-y>

Impact Factor: 33.162.

EVEN, A., MORELLI, G., BROIX, L., SCARAMUZZINO, C., TURCHETTO, S., GLADWYN-NG, I., LE BAIL, R., SHILIAN, M., FREEMAN, S., MAGIERA, M.M., HASSAN, B., A.S., J. KRUSY, N., MALGRANGE, B., BRÔNE, B., DIETRICH, P., DRAGATIS, I., JANKE, C., SAUDOU, F., WEIL, M., * and NGUYEN, L.

“ATAT1-enriched vesicles promote microtubule acetylation via axonal transport.”

Science Advances (2019) 5(12):eaax2705

Impact Factor 2019: 13.111.

Prof. dr. Peter Vangheluwe, PhD – Publications 2019 and accepted in 2019

VAN VEEN S, MARTIN S, VAN DEN HAUTE C, BENOY V, LYONS J, VANHOUTTE R, KAHLER JP, DECUYPERE JP, GELDERS G, LAMBIE E, ZIELICH J, SWINNEN JV, ANNAERT W, AGOSTINIS P, GHESQUIÈRE B, VERHELST S, BAEKELANDT V, EGGERMONT J, VANGHELUWE P.

“ATP13A2 deficiency disrupts lysosomal polyamine export”.

Nature. 2020 Feb;578(7795):419-424.

IF (2019) 42.778.

WAUTERS F, CORNELISSEN T, IMBERECHTS D, MARTIN S, KOENTJORO B, SUE C, VANGHELUWE P, VANDENBERGHE W.

“LRRK2 mutations impair depolarization-induced mitophagy through inhibition of mitochondrial accumulation of RAB10. “

Autophagy. 2020 Feb;16(2):203-222.

IF (2019) 9.777.

Prof. Dr. Catherine Verfaillie – Publications 2019

CLAES C, VAN DEN DAELE J, BOON R, SCHOUTEDEN S, COLOMBO A, MONASOR LS, FIERS M, ORDOVAS L, NAMI FA, BOHRMANN B, TAHIROVIC S, DE STROOPER B. and VERFAILLIE CM.

“Human stem cell-derived monocytes and microglia-like cells reveal impaired amyloid plaque clearance upon heterozygous or homozygous loss of TREM2”.

Alzheimer's & Dementia. 2019 Mar;15(3):453-464. doi: 10.1016/j.jalz.2018.09.006. Epub 2018 Nov 12.

Impact Factor: 17.127(Citations =20)

MANCUSO R, *VAN DEN DAELE J, FATTORELLI N, WOLFS L, BALUSU S, BURTON O, LISTON A, SIERKSMA A, FOURNE Y, POOVATHINGAL S, ARRANZ-MENDIGUREN A, SALA FRIGERIO C, CLAES C, SERNEELS L, THEYS T, PERRY VH, VERFAILLIE C, FIERIS M, DE STROOPER B.

“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: 21.126 - Joint 1st authorship. (citations = 20)

Prof. dr. Thomas Voets – Publications 2019

THOMAS VOETS, JORIS VRIENS and RUDI VENNEKENS

“Targeting TRP Channels – Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?”

Trends in Pharmacological Sciences, September 2019, Vol. 40, No. 9 <https://doi.org/10.1016/j.tips.2019.07.004>

Impact Factor: 13.503

LAURA VANGEEL and THOMAS VOETS

“Transient Receptor Potential Channels and Calcium Signaling”

Cold Spring Harbor Laboratory Press November 25, 2019

<http://cshperspectives.cshlp.org/>

Impact Factor: 7.640

JORIS VRIEN and THOMAS VOETS

“Heat sensing involves a TRIPlet of ion channels “

The British Pharmacological Society 2019;176:3893–3898.

Impact Factor: 7.730.

Prof. dr. Kristl Vonck – PhD-publications received September 2019 and abstracts in 2019.

LATOYA STEVENS, KRISTL VONCK, LARS EMIL LARSEN, WOUTER VAN LYSBETTENS, CHARLOTTE GERMONPRE, VEERLE BAEKELANDT, CHRIS VAN DEN HAUTE, EVELIEN CARRETTE, WYTSE JAN WADMAN, PAUL BOON and ROBRECHT RAEDT.

“A feasibility study to investigate locus coeruleus functioning by means of chemogenetic modulation and single unit activity.”

Neuroscience 14 – Article 182

Impact Factor: 3,810

Onderstaande abstracts betreffen abstract die enkel werden gepresenteerd tijdens congressen en meetings en die dan op die manier werden voorgesteld via poster en of mondelinge presentaties.

Geen pdf.

LATOYA STEVENS, KRISTL VONCK, WOUTER VAN LYSBETTENS, VEERLE BAEKELANDT, CHRIS VAN DEN HAUTE, PAUL BOON and ROBRECHT RAEDT.

Genetic modification of locus coeruleus NE cells for chemogenetic activation remains challenging.

Abstract presented and published in frontiers at *Belgian Society of Neuroscience*, Brussels, Belgium; May 2019

LATOYA STEVENS, KRISTL VONCK, WOUTER VAN LYSBETTENS, VEERLE BAEKELANDT, CHRIS VAN DEN HAUTE, PAUL BOON and ROBRECHT RAEDT.

Genetic modification of locus coeruleus NE cells for chemogenetic activation remains challenging.

Abstract presented at *21th annual international symposium Epilepsy, Sleep and Neurocognition*, Heeze, The Netherlands; June 2019

LARS EMIL LARSEN, LATOYA STEVENS, ANIRUDH ACHARYA, CHARLOTTE BOUCKAERT, ERINE CRAEY, JANA DESLOOVERE, MARIE-GABRIELLE GOOSSENS, CHARLOTTE GERMONPRE, SILKE PROESMANS, PAUL BOON, KRISTL VONCK, CHRIS VANHOVE, PIETER VAN MIERLO and ROBRECHT RAEDT.

Evoked hippocampal seizures are associated with bursts of locus coeruleus neuronal activity in the anaesthetized rat: a mechanism of 'pathological memory formation' in epilepsy?

Abstract presented and published in frontiers at Belgian Society of Neuroscience, Brussels, Belgium; May 2019

LATOYA STEVENS, KRISTL VONCK, WOUTER VAN LYSBETTENS, VEERLE BAEKELANDT, CHRIS VAN DEN HAUTE, PAUL BOON and ROBRECHT RAEDT.

Presumed subclinical doses of clozapine not useful as selective ligand for chemogenetic activation of locus coeruleus neurons in rat.

Abstract presented at Sectie Wetenschappelijk Onderzoek, Amsterdam, The Netherlands; Jan2019

LATOYA STEVENS, KRISTL VONCK, WOUTER VAN LYSBETTENS, VEERLE BAEKELANDT, CHRIS VAN DEN HAUTE, PAUL BOON and ROBRECHT RAEDT.

Presumed subclinical doses of clozapine not useful as selective ligand for chemogenetic activation of locus coeruleus neurons in rat.

Abstract presented and oral presentation at Research Day and student symposium, Ghent, Belgium; April 2019