

**PUBLICATIONS OF THE RESEARCH GROUPS OF**

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## Univeriteit Antwerpen (UA)

**Prof. dr. Marc CRUTS**

### Articles in International Journals

**GIJSELINCK,I., VAN MOSSEVELDE,S., VAN DER ZEE,J., SIEBEN,A., PHILTJENS,S., HEEMAN,B., ENGELBORGH,S., VANDENBULCKE,M., DE BAETS,G., BÄUMER,V., CUIJT,I., VAN DEN BROECK,M., MATTHEIJSENS,M., PEETERS,K., ROUSSEAU,F., VANDENBERGHE,R., DE JONGHE,P., CRAS,P., DE DEYN,P.P., MARTIN,J-J., **CRUTS,M.**, VAN BROECKHOVEN,C., BELGIAN NEUROLOGY (BELNEU) CONSORTIUM:**

**“Loss of TBK1 is a frequent cause of frontotemporal dementia in a Belgian cohort”.**

*Neurology* , Vol. nr. 85, pp. 2116-2125 (2015) Epub: 18-Nov-2015 (PMID: 26581300).

**Impact Factor: 8.166.**

**GIJSELINCK,I., VAN MOSSEVELDE,S., VAN DER ZEE,J., SIEBEN,A., ENGELBORGH,S., DE BLEECKER,J., IVANOIU,A., DERYCK,O., EDBAUER,D., ZHANG,M., HEEMAN,B., BÄUMER,V., VAN DEN BROECK,M., MATTHEIJSENS,M., PEETERS,K., ROGAEVA,E., DE JONGHE,P., CRAS,P., MARTIN,J-J., DE DEYN,P.P., VAN BROECKHOVEN,C., **CRUTS,M.**, BELNEU CONSORTIUM:**

**“The C9orf72 repeat size correlates with onset age of disease, DNA methylation and transcriptional downregulation of the promoter”.**

*Molecular Psychiatry* 21: 1112-1124 (2016) Epub: 20-Oct-2015 (PMID: 26481318).

**Impact Factor: 13.314.**

KLEINBERGER,G., CAPELL,A., BROUWERS,N., FELLERER,K., SLEEGERS,K., **CRUTS,M.**, VAN BROECKHOVEN,C., HAASS,C.:

**“Reduced secretion and altered proteolytic processing caused by missense mutations in progranulin”.**

*Neurobiology of Aging* , Vol. nr. 39. 220.e17-2.6 Epub: 29-Dec-2015 (PMID: 26811050)

**Impact Factor: 5.153.**

### Articles in Books

**CRUTS,M.**, ENGELBORGH,S., VAN DER ZEE,J., VAN BROECKHOVEN,C.:

**“C9orf72-related amyotrophic lateral sclerosis and frontotemporal dementia”.**

In: GeneReviews® Edited by Edited by Roberta A Pagon, Editor-in-chief, Margaret P Adam, Holly H Ardinger, Thomas D Bird, Cynthia R Dolan, Chin-To Fong, Richard JH Smith, and Karen Stephens. (Seattle (WA): University of Washington, Seattle; 1993-2015;

**GeneReviews** (2015): Internet Publication <http://www.ncbi.nlm.nih.gov/books/NBK268647>)

**CRUTS,M.**, VAN BROECKHOVEN,C.:

**“Genetics of frontotemporal dementia and related disorders”**

In: Hodges’ Frontotemporal Dementia second edition Edited by Bradford C.Dickerson (Cambridge University Press)

**Prof. dr. Stefanie DEDEURWAEDERE.**

AMHAOUL H, HAMAIDE J, BERTOGLIO D, REICHEL SN, VERHAEGHE J, GEERTS E, VAN DAM D, DE DEYN PP, KUMAR-SINGH S, KATSIFIS A, VAN DER LINDEN A, STAELENS S, DEDEURWAERDERE S.

**“Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis”.**

***Neurobiology of Disease***, 2015, Vol Nr. 82, pp. 526-539.

**Impact Factor= 4.856, 5-Year Impact Factor: 5.148**

**Universiteit Gent**  
**(UGent)**

**Prof. dr. Jan GETTEMANS**

VAN OVERBEKE W, WONGSANTICHON J, EVERAERT I, VERHELLE A, ZWAENEPOEL O, DE GANCK A, HOICHEPIED T, HAIGH J, CUVELIER C, DERAIVE W, ROBINSON R, JAN GETTEMANS.

**“An ER-directed nanobody targets the first step in amyloid formation in a hereditary gelsolin amyloidosis mouse model by protecting mutant plasma gelsolin from furin proteolysis”.** 2015.

***Human Molecular Genetics***. Vol. nr. 24, pp. 2492-507. **Impact Factor:5,985.**

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**“A nanobody-based approach to amyloid diseases, the gelsolin case study.**

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<http://dx.doi.org/10.5772/63981>

**Impact Factor: unknown because the chapter 13 in “*INTECH – open science*”, has no IF.**

VERHELLE, A., VAN OVERBEKE, W., PELEMAN, C., DE SMET, R., ZWAENEPOEL, O., LAHOUTTE, T., VAN DORPE, J., DEVOOGDT, N., GETTEMANS, J.

**“Non-invasive imaging of amyloid deposits in a mouse model of AGel using <sup>99m</sup>Tc-modified nanobodies and SPECT/CT”.** Epub ahead of print

***Molecular Imaging and Biology***, Vol. 18, **Impact Factor: 2,569**

**Prof. dr. Geert van LOO & Prof. dr. Rudi BEYAERT**

CATRYSSSE, L., FUKAYA, M., SZE, M., MEYEROVICH, K., BEYAERT, R., CARDOZO, A.K. AND VAN LOO, G. (2015) **A20 deficiency sensitizes pancreatic beta cells to cytokine-induced apoptosis *in vitro* but does not influence type 1 diabetes development *in vivo*.**

***Cell Death Dis.***, 6, e1918. **Impact Factor: 5,000**

**Université de Liège**  
**(ULg)**

**Prof. dr. Pierre MAQUET & Dr. Christophe PHILIPS**

COPPIETERS D, MUTO V., GIAGGIONI G., JASPAR MATHIEU, CHELLAPPA S., MEYER C., VANDEWALLE G., MAQUET P. and PHILLIPS C.

**“Automatic artifacts and arousals detection in whole-night sleep EEG recordings”.**

***Journal of Neuroscience Methods***, Vol. Nr. 248, pp. 124-133. **Impact Factor: 2,150.**

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LAGUESSE, S., CREPPE, C., NEDIALKOVA, D., PREVOT, P.-P., BORGS, L., HUYSEUNE, S., FRANCO, B., DUYSSENS, G., KRUSY, N., LEE, G., THELEN, N., THIRY, M., CLOSE, P., CHARIOT, A., MALGRANGE, B., LEIDEL, S., GODIN, J., AND, **NGUYEN, L.**

**“A dynamic unfolded protein response contributes to the control of cortical neurogenesis”.**

***Developmental Cell*** (2015), Vol. nr.35, Art 5, pp. 553-567. **Impact Factor 2014: 9.708**

PEYRE, E., SILVA, C., AND **NGUYEN, L.:**

**“Crosstalk between intracellular and extracellular signals regulating interneuron production, migration and integration into the cortex”.**

***Frontiers in Cellular Neuroscience*** (2015), Vol.nr.9, (#129), pp. 1-18. **Impact Factor 2013= 4.175.**

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**“MicroRNA-124 regulates cell specification in the cochlea through modulation of Sfrp4/5”.**

***Cell Reports*** (2015), Vol. nr. 13, pp. 31-42. **Impact Factor 2014=8.358.**

**Vrije Universiteit Brussel**  
**VUB**

**Prof. dr. Ann MASSIE and Prof dr. Ilse SMOLDERS**

A. MASSIE, S. BOILLÉE, S. HEWETT, L. KNACKSTEDT, J. LEWERENZ.

**“Main path and byways : non-vesicular glutamate release via system  $x_c^-$  as an important modifier of glutamatergic neurotransmission”.**

***Journal of Neurochemistry***, Vol. nr. 135, pp. 1062-1070. **Impact factor: 3,842**

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*Neurochemistry International*, Vol. nr 88, pp. 88-96. **5-year Impact factor = 3,298**

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*Neuroscience Letters*, Vol. nr. 593, pp. 124-128. **5-year Impact factor = 2,107.**

E. BENTEA\*, M.D. SCONCE\*, M.J. CHURCHILL, J. VAN LIEFFERINGE, H. SATO, C.K. MESHUL, A. MASSIE,  
**"MPTP-induced parkinsonism in mice alters striatal and nigral xCT expression but is unaffected by the genetic loss of xCT"**.  
*Neuroscience Letters*, Vol. nr. 593, pp. 1-6. (\* equally contributing authors). **5-year impact factor = 2,107.**

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**"Absence of system  $x_c^-$  in mice decreases anxiety and depressive-like behavior without affecting sensorimotor function or spatial vision"**.  
*Progress in Neuro-psychopharmacology & Biological Psychiatry*, Vol. nr. 59, 49-58. (\* equally contributing authors). **5-year Impact factor = 4,361.**

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**"Trans-Modulation of the Somatostatin Type 2A Receptor Trafficking by Insulin-Regulated Aminopeptidase Decreases Limbic Seizures"**.  
*The Journal of Neuroscience*, Vol. nr. 35(34), pp. 11960-11975. **5-year impact factor = 5,924**