

# Curriculum Vitae - Nancy Gerits

## 1. Personalia

*Name : Nancy Gerits*

Date of birth : 29.01.1979

Place of birth : Hasselt (Belgium)

Sex : Female

Nationality : Belgian

Civil status : Married

e-mail : nancy@sigtrans.org

**Languages :** Dutch (mothertongue), English (fluent), Norwegian (intermediate), German (intermediate), French (basic)

## 2. Education

- \* 1997-2002 : Master in Biomedical Sciences (Vrije Universiteit Brussel - Belgium) with “Great Distinction”
- \* 2002-2003 : One-year program Master of Science in Molecular Biology and Biotechnology (Vrije Universiteit Brussel - Belgium) with “Great Distinction”.
- \* 2004-2007 : PhD program in Medical Biology (University of Tromsø- Norway). Doctor in Medical Biology on December 7th 2007.

## 3. Employment

### 3.1 Overview of employers

- \* Post-doc funded by Mohn at the “Department for Host Microbe Interactions” (University of Tromsø- Norway); from 01/11/2009 until 31-10-2011. Subject : Functionally characterize agnoprotein of BK virus in terms of virus-host interactions
- \* Post-doc at the “Department of Physiology” (University of Basel - Switzerland); from 01/02/2008 until 31/10/2008. Subject : EU project Development and Anxiety (DEVANX)
- \* PhD from the Norwegian Research Council at the “Department for Microbiology and Virology” (University of Tromsø); from 01/01/2004 until 31-01-2007. Subject : Functionally characterize the protein kinase MK5
- \* OZR Research Grant at the University of Brussels (Belgium) at the department for Microbiology and Hygiene from 01/10/2002 until 31/01/2003. Subject : Investigate the replication cycle of TME Virus

### 3.2 Teaching, presentations and research visits

1. Lectures/Laboratory exercises on :

- \* “The MAPK and PKC signaling pathways” in the course of “Eukaryotic transcription factors and signal transduction in 2005 und 2006 at the University of Tromsø (Norway);
- \* “Single-stranded RNA viruses” in the course of “Virology” at the University of Tromsø in 2006;
- \* “Genetics” at the University of Tromsø in 2005 and 2006;
- \* “Neurophysiology” at the University of Basel in 2008;

2. Project presentation at :

- \* the “Université Libre de Bruxelles” in December 2005 : “MK5 looking for playmates”;
- \* the “German Mouse Clinic - GSF (Helmholtz Zentrum)” in München in May 2007 : “MK5<sub>L337A</sub> mice”;
- \* “Biozentrum - Universität Basel ” in Basel, November 2007 : “Exploring the world of MK5”;
- \* the University of Zürich in November 2009 : “BK agnoprotein and its cellular companions”;

3. Co-supervision of Bachelor students at the University of Tromsø:

- \* Izaskun Muruzábal Lecumberri : “BK virus agnoprotein does not change the expression levels of its cellular interaction partners  $\alpha$ -SNAP and PCNA” (December 2009)
- \* Eukene Velaz : “Can BK virus or an Agno-deficient BK virus interfere with secretion ?” (December 2009)

4. Research visits hosted by :

- \* Dr. Marc Lensink (University of Brussels - Belgium) from 24-02-2006 until 06-03-2006.
- \* Prof. Dr. Anne Spang (Biozentrum Basel - Switzerland) from 01-04-2009 until 30-06-2009.
- \* Prof. Dr. Ulrich Hübscher (University of Zürich - Switzerland) from 01-11-2009 until 31-01-2010.

## Publications

1. *Review* : Inhibitors of signal transduction protein kinases as targets for cancer therapy. Theresa Mikalsen, **Nancy Gerits**, and Ugo Moens. *Biotechnology Annual Review* 2006:153-223. Published by Elsevier.
2. *Review* : In vivo functions of mitogen-activated protein kinases: conclusions from knock-in and knock-out mice. **Nancy Gerits**, Sergiy Kostenko and Ugo Moens. *Transgenic Research* 2007;16(3):281-314. Published by Springer.
3. *Original Research* : Confidence Intervals on Microarray Measurement of Differentially Expressed Genes: A Case Study on the effects of MK5, TAF4 and FKRP on the transcriptome. Werner Van Belle, **Nancy Gerits**, Kirsti Jakobsen, Vigdis Brox, Marijke Van Ghelue and Ugo Moens. *Gene Regulation and Systems Biology* 2007;1:57-72 . Published by LA Press.
4. *Review* : Protein kinase inhibitors. **Nancy Gerits** and Ugo Moens. *Encyclopedia of Molecular Pharmacology*. 2007;1:1009-1012. ISBN: 978-3-540-38921-7.
5. *Original Research* : Modulation of F-actin rearrangements by the cyclin AMP/PKA pathway is mediated by MAPKAP kinase 5 and requires PKA-induced nuclear export of MK5. **Nancy Gerits\***, Theresa Mikalsen\*, Sergiy Kostenko, Alexey Shiryaev, Mona Johannessen and Ugo Moens. *Journal of Biological Chemistry* 2007;282 (51):37232-43.
6. *Original Research* : Transgenic mice expressing constitutive active MK5 display gender-dependent differences on exploration and locomotion. **Nancy Gerits**, Werner Van Belle and Ugo Moens. *Behavioral and Brain Functions* 2007;3:58.
7. *Review* : Relations between the mitogen-activated protein kinase and the cAMP-dependent protein kinase pathways: Comradeship and hostility. **Nancy Gerits**, Sergiy Kostenko, Alexey Shiryaev, Mona Johannessen, Ugo Moens. *Cellular signalling* 2008;20(9):1592-607
8. *Review* : The roles of mammalian mitogen-activated protein kinase-activating protein kinases (MAPKAPKs) in cell cycle control. Sergiy Kostenko, Alexey Shiryaev, **Nancy Gerits** and Ugo Moens. *Progress in cell cycle control* 2008; Chapter 11, p1-25. ISBN: 978-1-60456-797-7. Nova Science Publishers.
9. *Original Research* : The transcriptional regulation and cell-specific expression of the MAPK-activated protein kinase MK5. **Nancy Gerits**, Alexey Shiryaev, Sergiy Kostenko, Helle Klenow, Olga Shiryaeva, Mona Johannessen, Ugo Moens. *Cellular and Molecular Biology Letters* 2009; 14(4):548-74.
10. *Review* : Emerging polyomaviruses in the human population. Ugo Moens, Mona Johannessen, Ana Barcena-Panero, **Nancy Gerits** and Marijke Van Ghelue. *Reviews in Infection* 2010;1(2):59-93
11. *Poster session* at the congress of the European Society for Virology in April 2010 : “BK viral agnoprotein interacts with host cell protein PCNA and affects DNA replication”.