

## **CURRICULUM VITAE**

Marie Mulier

### **RESEARCH INTERESTS:**

- Calcium imaging of peripheral nerve endings in the skin
- Combining optical and electrophysiological  $Ca^{2+}$  recordings over time, Patch Clamp – Total Internal Reflection Microscopy
- Transient Receptor Potential (TRP) channels

### **EDUCATION:**

KULeuven University, Leuven, Belgium. 2010 – 2015

Biophysics and biotechnology

Minor, Biology

*Magna cum laude*

### **CURRENT POSITON:**

Phd Student, KULeuven, Laboratory of ion channel research

Leuven, Belgium

October 2015 – present

Thesis: Transport and activity of TRPM3 channels in neuronal cells

Advisor: prof. Thomas Voets

The Laboratory of Ion Channel Research aims to obtain novel insight into the structure, function and physiological role of transient receptor potential (TRP) channels, and to translate this knowledge into a better understanding of the etiology of certain human diseases and ultimately into the development of novel therapies. The aim of my PhD-project is to study the mechanisms and functional relevance of cellular transport and functionality of thermosensitive TRP channels.

### **PUBLICATIONS:**

- A. Janssens, M. Gees, B. I. Toth, D. Ghosh, M. Mulier, R. Vennekens, J. Vriens, K. Talavera, and T. Voets, "Definition of two agonist types at the mammalian cold-activated channel TRPM8," *Elife*, vol. 5, Jul. 2016.
- L. Marbelia, M. Mulier, D. Vandamme, K. Muylaert, A. Szymczyk, and I. F. J. Vankelecom, "Polyacrylonitrile membranes for microalgae filtration: Influence of porosity, surface charge and microalgae species on membrane fouling," *Algal Res.*, vol. 19, 2016.
- M. Mulier, J. Vriens, and T. Voets, "TRP channel pores and local calcium signals," *Cell Calcium*, 2017.
- I. Vandewauw, K. De Clercq, M. Mulier, K. Held, S. Pinto, N. Van Ranst, A. Segal, T. Voet, R. Vennekens, K. Zimmermann, J. Vriens, and T. Voets, "A TRP channel trio mediates acute noxious heat sensing," *Nature*, vol. 555, no. 7698, pp. 662–666, Mar. 2018.