

# Postdoctoral Position - Study of the interplay between autophagy, cell death and inflammation

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Posted On

27 Aug 2018

Department

VIB-UGent Center for Inflammation  
Research

Division

Mathieu Bertrand Lab

Positions

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Location

Ghent

Type

Post-doctoral

## DESCRIPTION

### Job description

Receptor interacting protein kinase 1 (RIPK1) has emerged as an important component of the immune response downstream of several immune receptors, where it promotes inflammation either through kinase-independent or -dependent mechanisms.

As a scaffold molecule, RIPK1 directly promotes inflammation by facilitating activation of the MAPK and NF- $\kappa$ B signaling pathways. Instead, as a kinase, RIPK1 indirectly promotes inflammation by inducing cell death. Interestingly, RIPK1 has also been reported to interact with components of the autophagy machinery, but the exact functional consequences of these interactions remain unclear.

We are looking for an **enthusiastic and extremely motivated postdoctoral fellow** to study the role of RIPK1 in autophagy, and to characterize the interplay between RIPK1's functions in autophagy, cell death and inflammation.

Recent publications from the group:

- Dondelinger, Delanghe et al. Nature Cell Biology 2017
- Rojas-Rivera et al., Cell Death and Differentiation 2017
- Aguilera et al., Cell Death and Differentiation 2016
- Ting and Bertrand, Trends Immunology 2016
- Dondelinger et al., Molecular Cell 2015.

### Profile

- PhD degree in the fields of sciences, biomedical sciences, biotechnology and biochemistry, or bioengineering.
- Strong publication records.
- Excellent communication skills and a strong passion for life sciences.
- The candidate is expected to work both independently and in a team spirit.
- Experience in the study of RIPKs, cell death, inflammation, infection and/or autophagy is an advantage.
- Good knowledge of English (oral and written).

## We offer

The group of Prof. Bertrand currently consists of 1 postdoctoral researcher and 3 PhD students. Together with the groups of Prof. Vandenabeele and Prof. Declercq, we form a research unit consisting of around 35 persons working in the fields of cell death and inflammation.

We provide close guidance, (inter)national collaborations, and access to several core facilities with high-tech equipment (FACs, Microscopy, MS, screening platforms, ...). VIB/Ghent University provides excellent and international research environment with young and motivated scientists.

The position is partially funded by the Belgian Excellence of Science (EOS) program to perform research in the framework of the MODEL-IDI (MOlecular mechanisms of cellular DEath and Life decisions in Inflammation, Degeneration and Infection), a research consortium made of biologists, immunologists, chemists and physicians that aims at performing fundamental research on the biology of cell death modalities and their consequences on the onset/progression of diseases.

## How to apply

Please send us your CV, a 500 word (max.) personal statement and contact info of two references. Please compile these documents in one PDF document and submit your application online.

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