Welcome to the VIB-UGent Center for Inflammation Research

Director: Prof. Dr. Bart LAMBRECHT

The VIB Center for Inflammation Research (IRC) is active within VIB and the Universities of Ghent and Brussels (VUB).

Inflammation is the first response of the immune system to infection or tissue injury, leading to protection of the body against these insults. However, chronic inflammation forms the basis of several diseases such as asthma, rheumatoid arthritis, colitis, multiple sclerosis and even certain forms of cancer.

The IRC labs study the molecular mechanisms of inflammation. At the heart of this research is the investigation of molecular signaling pathways in inflammatory cells and structural cells of the skin, lung, gut and brain. We particularly focus on NF-κB, ER stress and cell death pathways and study how these are altered by disease. Research is multidisciplinary with molecular biologists, cell biologists, and bioinformaticians collaborating with clinicians.

It is the IRC's ambition to translate our basic research into innovative ways for diagnosis and therapy of human inflammatory diseases. To complement the mechanism-oriented research, IRC therefore actively supports R&D of innovative molecular biotechnological platforms. These tools offer new approaches to study the mechanisms of inflammation, and form the essential basis for novel diagnostics and therapeutics. The IRC has a track record of advanced translational biotechnology research, with several products now in clinical development. These products will soon benefit patients with Crohn's disease, allergies and lysosomal storage diseases.

- Calendar: seminars, PhD defences and visits
- Jobs, PhD projects and project calls

At IRC, our research spans a broad range of disciplines aimed at unraveling molecular and cellular mechanisms of inflammation in pathologies. Learn more about our ongoing projects, the methodologies that underpin them, and the profiles of our group leaders, all on our **public site**. Explore who we are, what we re working on, and how to get in touch.

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