The INCREASE university hospital federation studies autoinflammatory and autoimmune diseases, as well as complex diseases with an inflammatory component such as atherosclerosis, kidney failure or certain psychiatric disorders.

It combines the expertise and skills at the clinical services of the Besançon and Dijon CHU University Hospital Centers, research laboratories, technology platforms and clinical investigation centres.

6 major goals

- Developing diagnostic and therapeutic research and working to make innovations available.
- Promoting an integrated approach to research programmes combining skills in immunology, technology, microbiology, physiology and biostatistics.
- Sustaining the continuum of fundamental research, clinical research and care.
- Promoting excellence in healthcare, notably through early access to innovations.
- Setting up special training actions.
- Strengthening the attractiveness and visibility of medical research in Bourgogne and Franche-Comté.

Autoinflammatory and autoimmune diseases

These diseases are determined by an inappropriate response by the innate immune system to a danger signal (autoinflammatory diseases), or an uncontrolled T-cell and/or B-cell response to autoantigens (autoimmune diseases).
The INCREASE FHU brings together expertise and has research tools in several of these diseases including inflammatory bowel disease, hypersensitivity pneumonitis, multiple sclerosis and rheumatic fever.
The research strategy is based on a transdisciplinary approach taking advantage of the skills of each individual at the FHU.

Inflammatoire Complex diseases with inflammatory components

Chronic inflammation is one of the triggering and/or aggravating factors in many complex multifactorial conditions such as atherosclerosis, chronic kidney disease or certain psychiatric conditions. These different conditions are extremely common and comprise a public health challenge.
The diversity of the expertise present at INCREASE is the perfect response to the complexity of the comprehensive therapeutic approach to these diseases.
For these diseases we are developing a strategy similar to that adopted for inflammatory diseases.

Teaching

Knowledge transfer is a major objective at the INCREASE FHU. The goal is to constitute a centre of excellence in inflammatory disease education. This academic programme will be closely linked to the development of our research. It is based on the development of academic teaching and the organisation of seminars. Our ambition is to develop our attractiveness for students and to encourage exchanges between universities.

Excellence in healthcare

Excellence in healthcare is INCREASE's ultimate goal. Achieving this goal goes hand-in-hand with high-performance research and quality teaching. Beyond the transfer of innovations and products from research, the geographic structure of the care units dedicated to inflammatory diseases is one of INCREASE's major challenges.

Figures

16 clinical services with **300** hospital beds
6 research laboratories **1** clinical investigation centre **4** technological integration platforms in **3** LABEXs **97** clinicians, **60** researchers and teachers

InCREASe members

Besançon University Hospital Center (CHU): rheumatology, neurology, nephrology, cardiology, pulmonology, gastroenterology, hepatology, psychiatry, postoperative intensive care, diabetes, CIC-IT, CIC-BT

Dijon University Hospital Center (CHU): nephrology, immunology, neurology, Ferdinand Cabanne Biological Resource Center.

University of Franche-Comté: UMR1098 Inserm EFS Host-transplant-tumour interactions and cell and tissue engineering, UMR6174 CNRS/ENSMM/UTBM, Institut FEMTO-ST (Franche-Comté thermal and optical mechanical electronics sciences and technologies), UMR6249 CNRS Chrono-environment, UMR6623 CNRS Mathematics Laboratory, EA4267 Epithelial functions and dysfunctions (FDE), EA3920 Prognostic markers and regulatory factors of cardiac and vascular diseases and the ISIFC Franche-Comté Higher Institute of Engineers

University of Bourgogne, French Blood Establishment of Bourgogne Franche-Comté, Centre de lutte contre le cancer Georges, François Leclerc, Biomonitoring Platform, Cellular and Genic Therapy Platform, Bourgogne/Franche-Comté Interregional Proteomics Platform (CLIPP), Aviesan (Alliance nationale pour les sciences de la vie et de la santé National Alliance for Life and Healthcare Sciences)

InCREASe
Fédération hospitalo-universitaire

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Assessor:
Prof Céline Demougeot (EA 4267)

Research Coordinator:
Prof Philippe Saas (UMR1098)

Assessor:
Prof Emmanuel Haffen (psychiatry - Expertise Centre at the Fondation FondaMental; Labex Biopsy)

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Conception graphique : cellule communication du CHU - R&I édition 2018

InCREASe
Fédération hospitalo-universitaire

An FHU (Fédération Hospitalo-Universitaire University Hospital Federation) dedicated to integrated, synergistic care for inflammatory diseases

Integrated Center for Research in inflammatory diseASes

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Research and innovation