

IAB - GRENOBLE

INSTITUTE FOR ADVANCED BIOSCIENCES

Group CHAPEROT

Immunobiology and immunotherapy in chronic diseases



Fabrice Cognasse
EFS Scientific Director
Fabrice.Cognasse@efs.sante.fr



Laurence Chaperot
EFS team representative
Laurence.Chaperot@efs.sante.fr



R&D OFFER

- R&D collaborative projects
- Sponsored research agreements
- CIFRE PhD Thesis (French Industrial agreement of training through research)
- Internship in public-private cotutorship (Master, engineer or other students)
- Consulting / Expertise / Training
- Access to Technical platforms
- Access to biological collections, plasmacytoid dendritic cell lines (pDC)

PLATFORMS & TECHNICAL RESSOURCES

- IAB TECHNICAL PLATFORMS:
 - Imaging (optical and confocal microscopy, cell imaging)
 - Multiparametric flow cytometry
 - Epimed (medical and bioinformatic epigenetic)
 - InGéProt (protein engineering)
 - Gemeli: Metabolomic, proteomic, and lipidomic
- ACCESS TO BIOLOGICAL COLLECTIONS: Samples from healthy donors, patients (tissues, fluids, PBMC) & cell lines (plasmacytoid dendritic cell, melanoma & other cancer), in collaboration with CHUGA clinical departments and CRB.

RESEARCH AREA & OBJECTIVES

- Role of plasmacytoid dendritic cells (pDC) & innate immune cells (NK, iNKT, gdT cells) in chronic diseases
- Immuno-monitoring & immuno-interventions in chronic diseases
 - Active immunotherapy (dendritic cell-based vaccine Genius-VAC)
 - Adoptive Immunotherapy (GEN-Adopt)
 - Cell therapy based on cells modified by photochemistry
- Personalised medicine for the treatment of melanoma
- Epigenetic, metabolism and immunosuppression in cancers & liver diseases

KEYWORDS:

Immunotherapy, dendritic cell lines, oncology, infectious diseases, clinical trials, blood diseases

DOMAINS OF EXPERTISE

- ONCOLOGY, IMMUNOLOGY, VIROLOGY
- CELL THERAPY

SKILLS

- CELL CULTURE (Hematopoietic Stem Cells, Cryopreservation)
- HUMAN CELL CULTURE (in-vivo & in-vitro)
- MURINE, AND HUMANIZED MICE MODELS
- MOLECULAR BIOLOGY AND GENETICS (qPCR, sequencing)
- IMMUNOLOGY AND IMMUNOMONITORING (flow cytometry, functional assays, luminex)
- BIOSTATISTICS AND BIOINFORMATICS
- PRECLINICAL AND CLINICAL STUDIES: translational research

RESEARCH RECOGNITION - 2019

- 3 ACTIVE PATENTS
- 1 SPIN-OFF
- > 3 PATENT FAMILIES
- 5 LICENCE AGREEMENTS
- > 2 R&D CONTRACTS WITH INDUSTRIAL PARTNERS
- MANY NATIONAL, EUROPEAN AND INTERNATIONAL GRANTS
- 30 PUBLICATIONS (2014-2019) incl. *scientific articles & book chapters*
- PARTICIPATION IN NATIONAL AND INTERNATIONAL CONGRESSES
- 4 PHD STUDENTS, 2 POST-DOCS & 12 MASTER STUDENTS (2014-2020)