



UMR1098 RIGHT
BOURGOGNE FRANCHE COMTE

HOST GRAFT INTERACTIONS – TUMOR & CELL AND GENE ENGINEERING



Philippe SAAS
EFS representative
Philippe.saas@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 and databases (under conditions)

RESEARCH RECOGNITION - 2019

- LIPSTIC LABEL (LABORATORY OF EXCELLENCE)
- MEMBER OF CARNOT INSTITUTES
- MEMBER OF INCREASE FHU (Integrated Centre for research in inflammatory diseases)
- MEMBER OF ECELL FRANCE – Consortium for regenerative medicine
- 14 ACTIVE PATENTS, 2 LICENCE AGREEMENTS
- > 10 R&D CONTRACTS WITH INDUSTRIAL PARTNERS
- MANY NATIONAL, EUROPEAN, AND INTERNATIONAL GRANTS
- > 100 PUBLICATIONS PER YEAR *SCIENTIFIC ARTICLES & BOOK CHAPTERS*
- UMR1098 IS CERTIFIED ISO9001
- > 25 PHD STUDENTS PER YEAR

RESEARCH AREA & OBJECTIVES

- **Team ATI:** Autoimmunity, Transplantation and Inflammation (Biotherapies)
 - Modulation of immune responses, immunoregulation & immunopathologies
 - Inflammation, transplantation, graft-versus-host disease, residual diseases, clinical study of humoral responses in transfusion
- **Team TIM-C:** Immuno-Molecular Therapy of cancers (cell engineering)
 - Antitumor T-cell immunity
 - T-cell based immunotherapies (**Car-T cells, UCPVax vaccines**)
 - Biomarkers for cancer immunotherapy
- **Both teams :**
 - Biomarker identification
 - Biotherapy development

KEYWORDS:

Graft-host interactions, Immunotherapies, TCR, CAR-T cells, vaccines, biotherapies, transplantation and inflammation

DOMAINS OF EXPERTISE

- HEMATOLOGY & TRANSFUSION MEDICINE
- HOST-GRAFT INTERACTIONS
- ONCOLOGY, CELL THERAPY (*TCR, CAR-T cells, UCPVax vaccine*)

SKILLS

- CELL CULTURE (Immune cells)
- GENETICS, MOLECULAR BIOLOGY (qPCR, Sequencing)
- IMMUNOLOGY
- FLOW CYTOMETRY
- IN-VITRO MODELS (Skin substitutes)
- ANIMAL MODELS
- CLINICAL STUDIES

PLATFORMS & TECHNICAL RESSOURCES

- UMR1098 platforms (Besançon, Dijon):
 - BIOMONITORING PLATFORM
 - CELL & GENE THERAPY PLATFORM
 - SKIN ENGINEERING PLATFORM
- BIOPRODUCTION PLATFORM PIBT (“Grand Défi” label)
- ACCESS TO BIOLOGICAL SAMPLES: healthy donors, patients & other biological samples (EFS, CHU, AVIESAN...)
- MEMBER OF MIMEDI CONSORTIUM FOR INNOVATIVE MEDICINES
- PARTNERSHIP WITH FEMTO-ST INSTITUTE (engineering and applied physics)