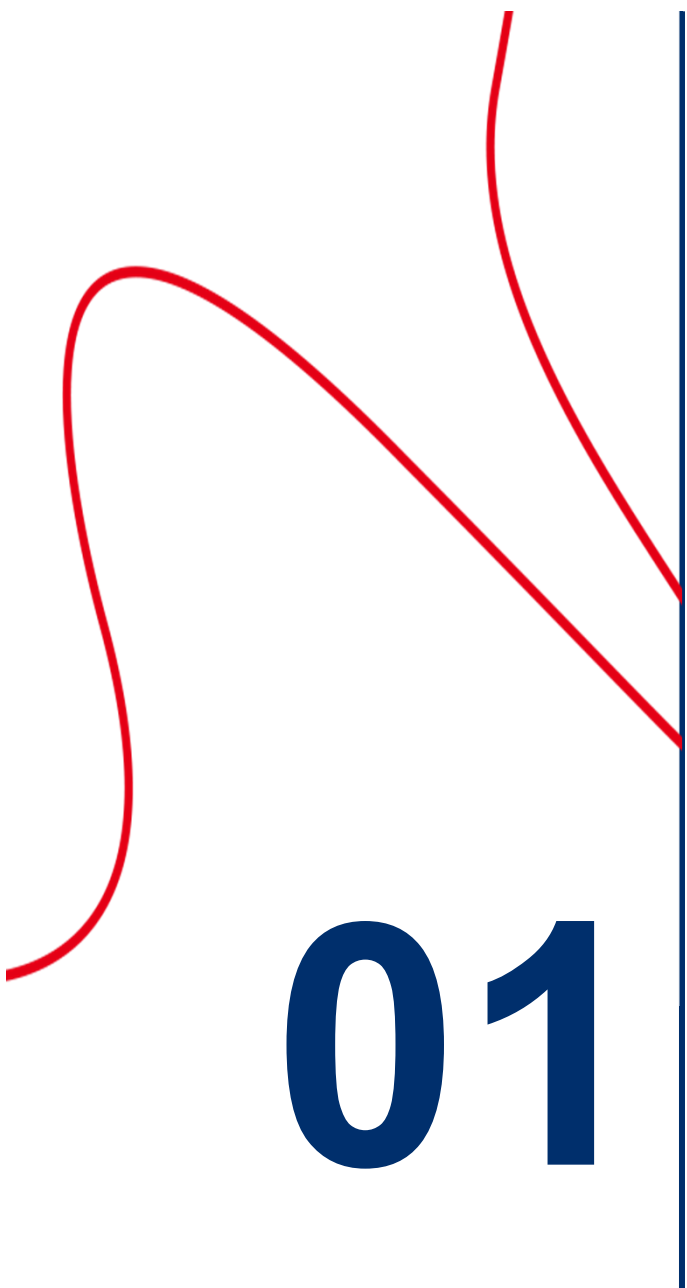




**Donnons
au sang**
*le pouvoir
de soigner*

ÉTABLISSEMENT FRANÇAIS DU SANG

RESEARCH & TECHNOLOGY TRANSFER OFFICE



01

EFS PRESENTATION & RESEARCH AREAS

EFS, GIVING MORE THAN JUST BLOOD



Established on January 2000, EFS is the public blood service in France, and operates under the authority of the French Ministry of Health

- Ensure self-sufficiency in blood products nationwide
- Guarantee the safety of the transfusion chain, from donor to patient
- Prepare and anticipate scientific and medical developments (evolution of transfusion towards ATMP)
- Ensure the highest level of transfusion-associated medicine for the benefits of patients

EFS, GIVING MORE THAN JUST BLOOD

BIOMEDICAL ANALYSIS LABORATORY

18 Regional laboratories

± 500 M medical biology
tests/year

CELL & TISSUE THERAPY PRODUCTS

18 processing platforms

8 Multi-tissue banks

2 Placental blood banks

2 Cornea banks

ADVANCED THERAPY MEDICINAL PRODUCTS

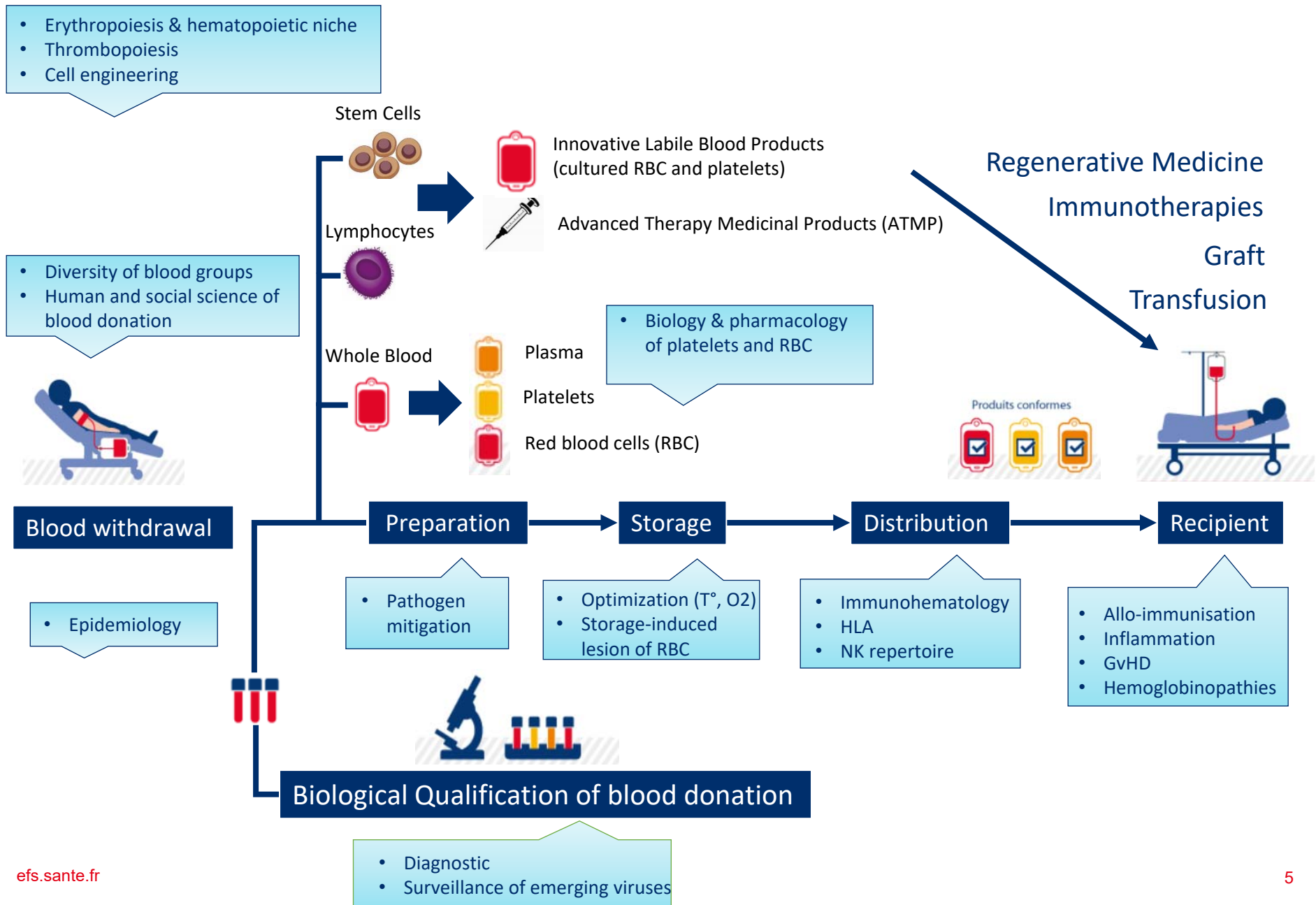
4 GMP Bioproduction platforms

- Nantes
- Besançon
- Grenoble
- Créteil

3 Focus

- Mesenchymal stem cells
- CAR-T cells
- Pluripotent stem cells

RESEARCH AREAS ALONG THE BLOOD TRANSFUSION PATHWAY



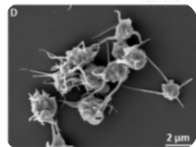
TRANSFUSION & LABILE BLOOD PRODUCTS

LBP & Transfusion Medicine



Red Blood Cells

*Sickle cells/ thalassemias
Hemochromatosis
Blood group genetics*



Platelets

*Hemostasis, thrombosis
Inflammation*



Immunological Risks

*Alloimmunisation
Transfusion-related acute
lung injury*

Infectious Risks & Diagnostic



*Diagnostic
Prion
Emerging pathogens*

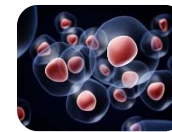
Blood & Society



*Sociology of donation
Donors health
Biobanks
Immunogenetics of
populations*

CELL & TISSUE ENGINEERING

Hematopoietic Stem Cells Graft



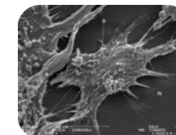
*Conservation/expansion
HLA
Immune Reconstitution
Graft versus host*

LBP of Tomorrow



*In vitro red blood cells
In vitro platelets*

Mesenchymal Stem Cells & Regenerative Medicine



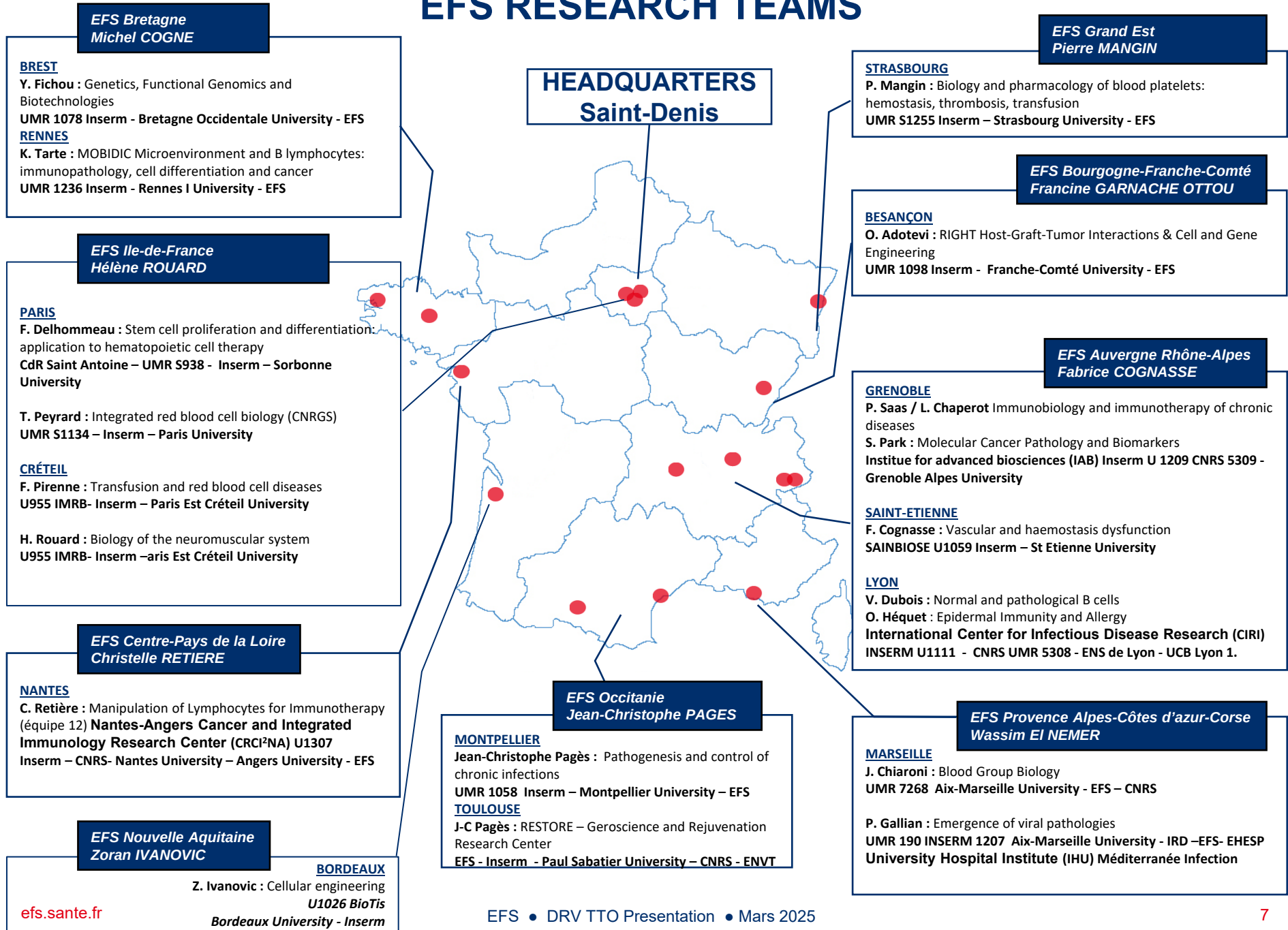
Cellular engineering

Immunotherapies & Gene Therapy



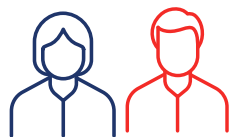
*Dendritic cells
CAR-T cells
TI Lymphocytes*

EFS RESEARCH TEAMS



EFS RESEARCH - FIGURES

As of 2025



18

Research
teams



121

Full-time
equivalent



214

Scientific
publications



16.6

M€ Research
budget



5

LabEX

EFS TECH TRANSFER DEPARTMENT - FIGURES

As of 2025



71
Patent families

4
Priority filing



4
Spin-off



5
Signed patent
or know-how
licences in
2022



14
Technology
offers portfolio



02

TECHNOLOGY OFFERS PORTFOLIO

EFS TECHNOLOGY TRANSFER OPPORTUNITIES

THERAPEUTICS

- HDL as a therapy and companion diagnostic for acute GVHD and CRS
- Antibody-drug conjugate for the treatment of venous thromboembolism
- Tailored therapeutic B lineage cells to treat immunodeficiencies

BIOTECHNOLOGIES

- No wash/injectable solution for stem cells preservation
- Preservation method for cord blood units that optimizes differentiation and engraftment potency
- Multiple Myeloma model from patient-derived bone marrow organoid
- Bone marrow organoid
- Method for the production of human brown and beige adipocytes

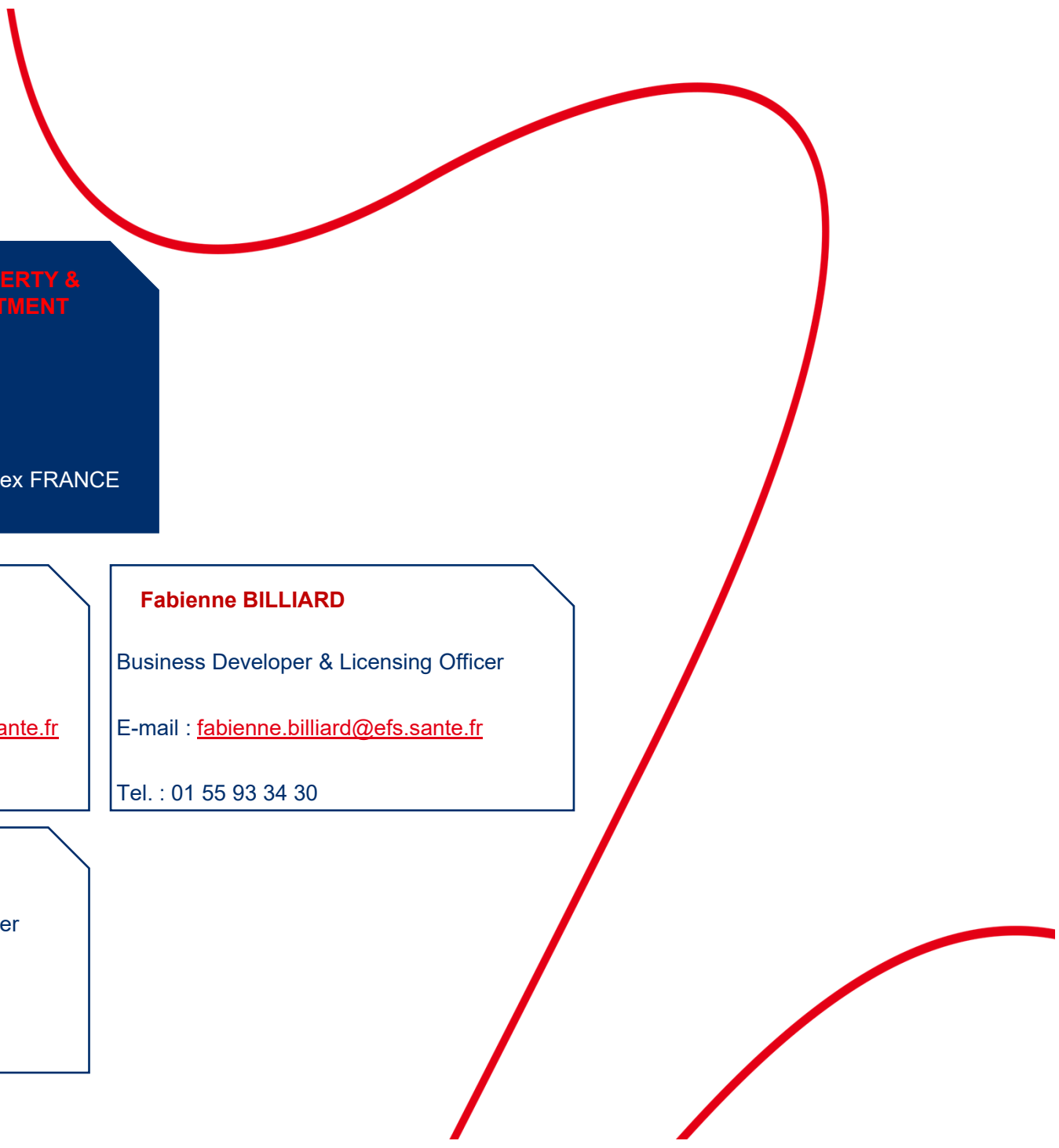
DIAGNOSTIC

- Innovative diagnostic tools for nucleic acid detection based on ultrasensitive polythiol probes
- Central Thrombocytopenia diagnosis through young platelet detection
- Diagnostic test for platelet activation detection
- Detection of infectious agent based on isothermal RPA amplification combined with a magnetic field-enhanced agglutination readout

DEVICES & EQUIPMENTS

- Device for homogenous and 96-well format DNA sample fragmentation through ultrasonic waves
- Turbulent flow-based platelet release systems

CONTACTS

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RESEARCH, INTELLECTUAL PROPERTY & TECHNOLOGY TRANSFER DEPARTMENT

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