



Donnons
au sang
le pouvoir
de soigner

ÉTABLISSEMENT FRANÇAIS DU SANG

RESEARCH & TECHNOLOGY TRANSFER OFFICE

EFS : WE ARE THE PUBLIC BLOOD SERVICE

Under the supervision of the Ministry of Health and Prevention

Established in 2000, EFS celebrated its 25th anniversary

OUR MISSIONS

- **Caring** for more than 1 million patients every year: those requiring transfusion or transplantation, by providing the blood products, tissues and cells they need
- **Diagnose** diseases thanks to our expertise in medical biology and transplantation
- **Innovate** by capitalizing on our expertise in cells to develop cutting-edge medical procedures, treatments and scientific breakthrough
- **Train** healthcare professionals in France and around the world



FOCUS ON : INNOVATION AT EFS

We have BIOLOGICAL RESOURCES that cannot be used for transfusion, but which are needed for scientific research



+ than 300
Biological resources

Blood samples are essential for:

- ✓ Fundamental research to improve the understanding of physiological and pathological mechanisms
- ✓ The development of new therapeutic strategies

We contribute to the fight against disease through SCIENTIFIC RESEARCH.



19
research teams

- ✓ A large proportion of transfused or transplanted patients suffer from chronic diseases, genetic disorders, or certain cancers. To help combat these diseases, our institution has gradually built an entire ecosystem dedicated to research and innovation and is a key player in scientific research.

We are in a position to bring innovative therapies to life in our ATMP MANUFACTURING PLATFORMS.

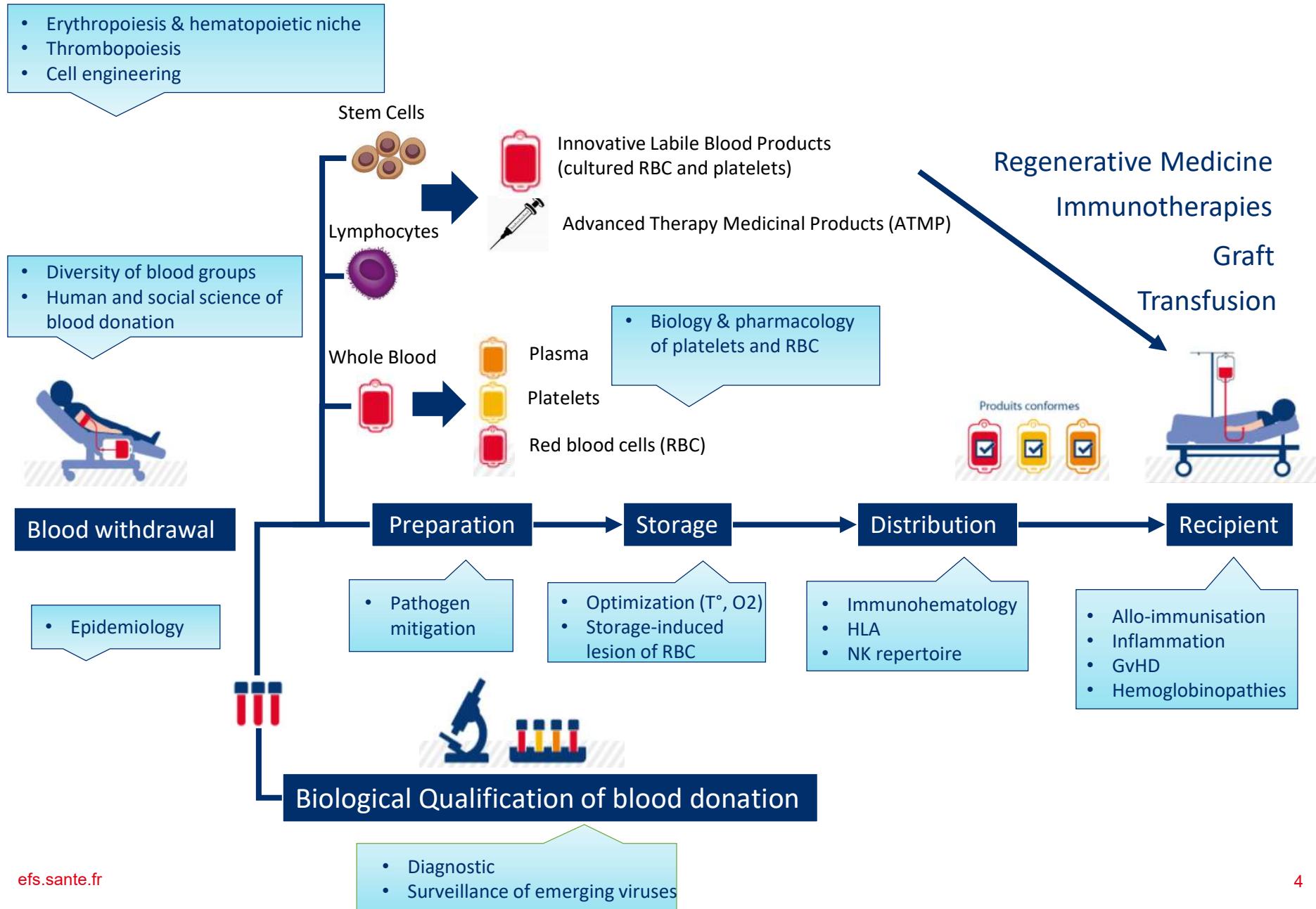


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Pharmaceutical ATMP platforms

- ✓ We produce drugs derived from cells, tissues or genes known as "**advanced therapy medicinal products**" for researchers and clinicians, with a view to clinical trials (phases 1 and 2).

RESEARCH AREAS ALONG THE BLOOD TRANSFUSION PATHWAY



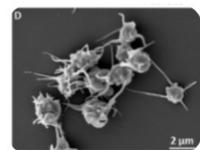
TRANSFUSION & LABILE BLOOD PRODUCTS

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



Sociology of donation
Donors health
Biobanks
Immunogenetics of populations

CELL & TISSUE ENGINEERING

Hematopoietic Stem Cells Graft



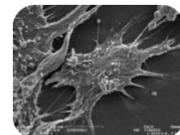
Conservation/expansion
HLA
Immune Reconstitution
Graft versus host

LBP of Tomorrow



In vitro red blood cells
In vitro platelets

Mesenchymal Stem Cells & Regenerative Medicine



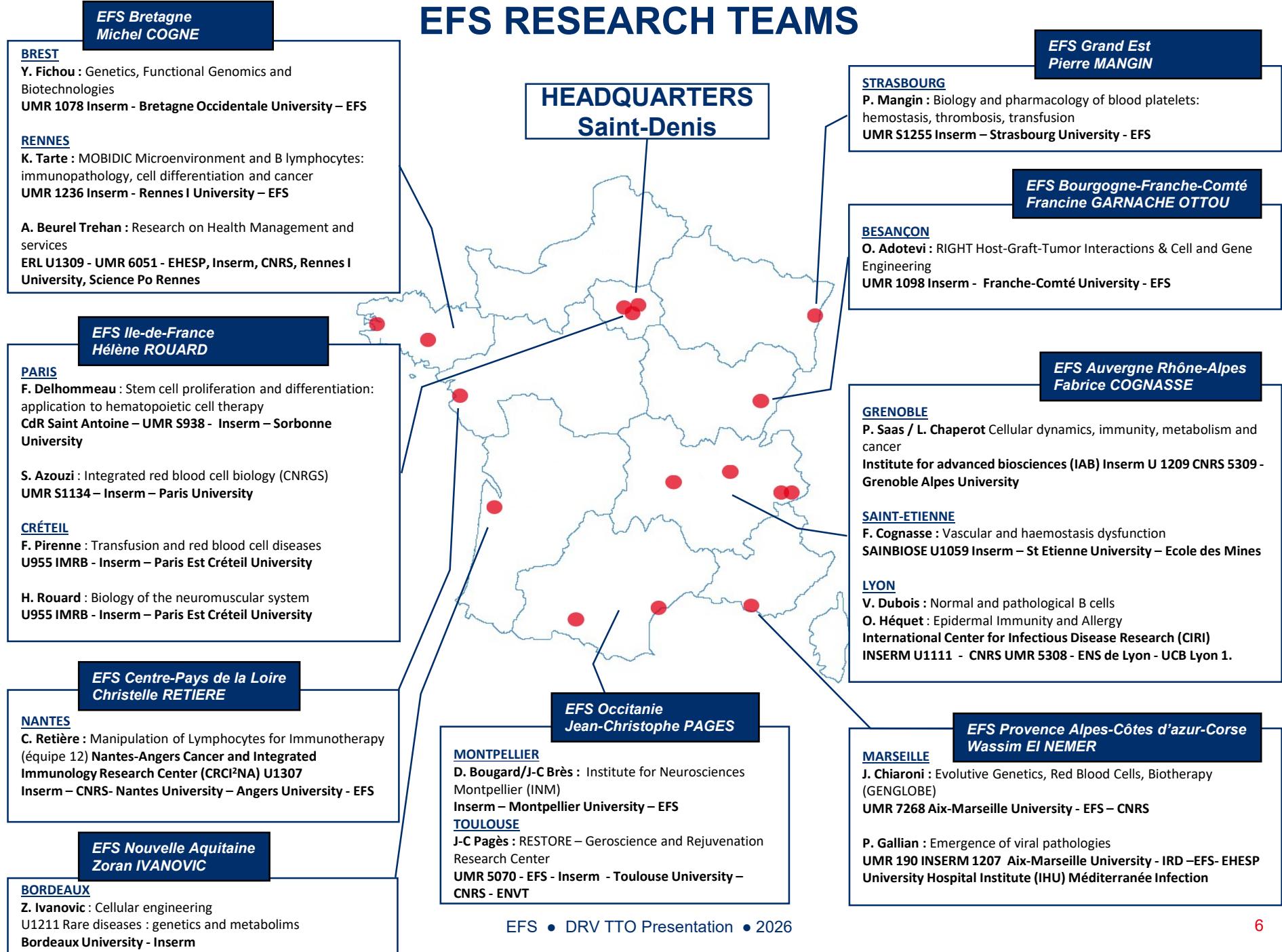
Cellular engineering

Immunotherapies & Gene Therapy



Dendritic cells
CAR-T cells
T1 Lymphocytes

efs research teams



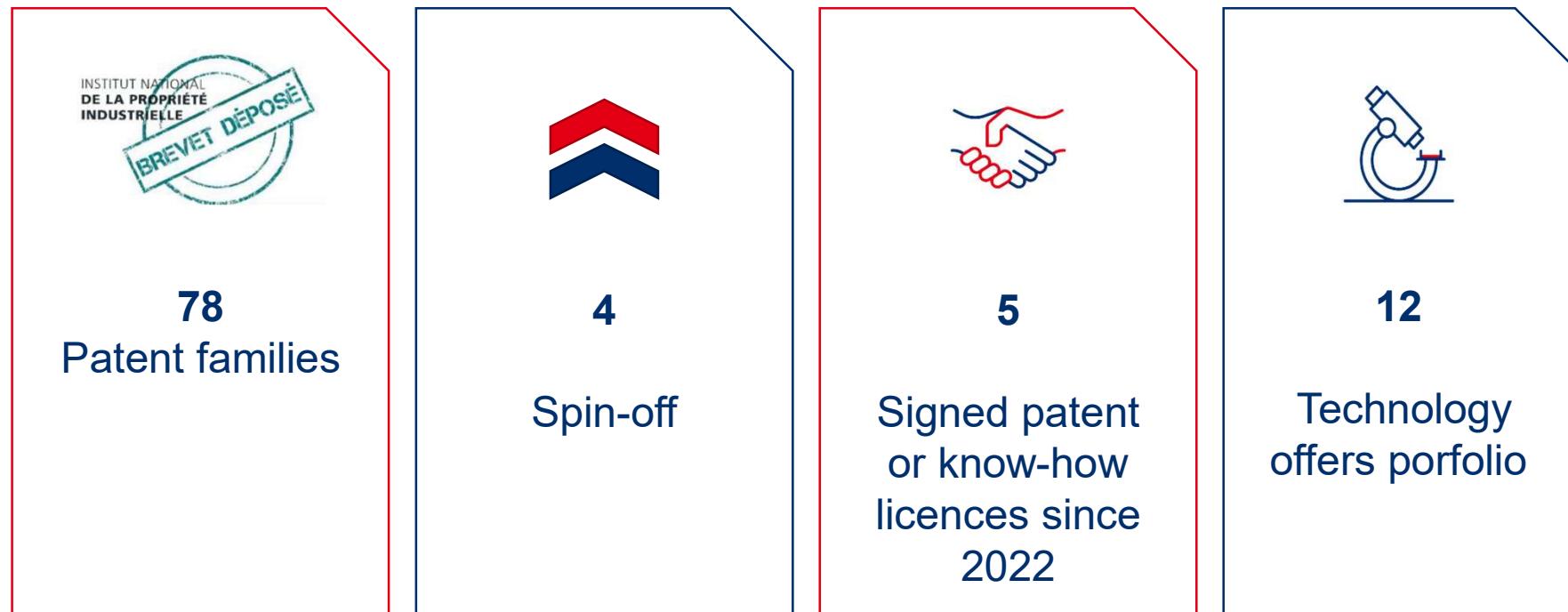
EFS RESEARCH - FIGURES

As of 2026



EFS TECH TRANSFER DEPARTMENT - FIGURES

As of 2026



EFS TECHNOLOGY TRANSFER OPPORTUNITIES

THERAPEUTICS

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

BIOTECHNOLOGIES

- Injectable solution for stem cells preservation
- Multiple Myeloma model from patient-derived bone marrow organoid
- Bone marrow organoid
- Method for the production of human brown and beige adipocytes

DIAGNOSTIC

- Central Thrombocytopenia diagnosis through young platelet detection
- Diagnostic test for platelet activation detection

DEVICES & EQUIPMENTS

- Device for homogenous and 96-well format DNA sample fragmentation through ultrasonic waves
- Devices for platelet release based on turbulent flow

CONTACTS

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