

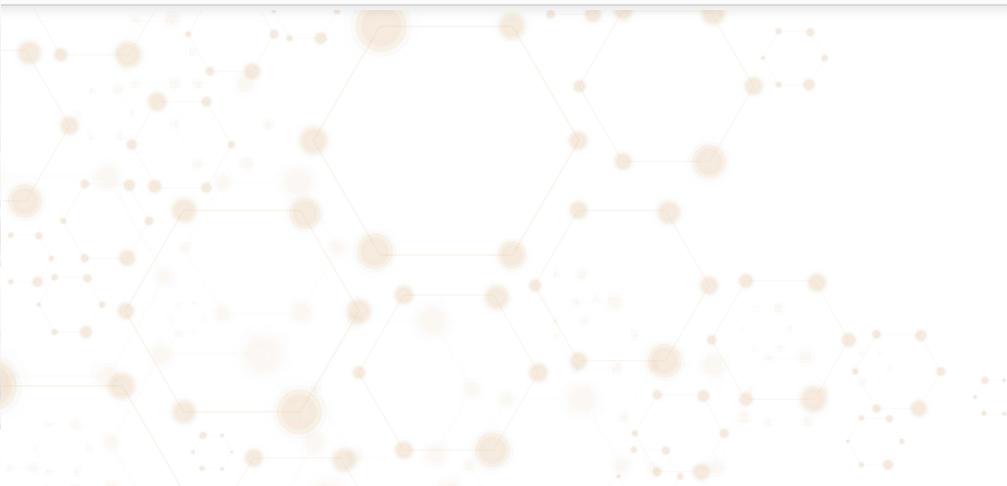


**INSTITUT CURIE**



A TREATMENT AND  
RESEARCH CENTER  
THAT'S UNIQUE IN THE WORLD

TOGETHER, LET'S BEAT CANCER



# INSTITUT CURIE, THE FRENCH LEADING CANCER CENTER



Created for Marie Curie in **1909**

A non-profit foundation authorized to receive donations and bequests



## 3 missions



Research



Care



Teaching

## 3 entities



An internationally-renowned  
**Research Center**



A state-of-the-art  
**Hospital Group**



**A Head Office**

**3,829**

employees\* spread  
over **3 sites**:



Paris



Saint-Cloud



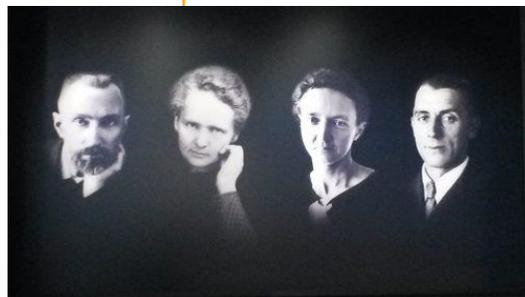
Orsay

# A UNIQUE HISTORY, CONNECTED TO THE DESTINY OF AN INCREDIBLE FAMILY



An iconic founder:  
**Marie Curie**

A family that won  
**5 Nobel Prizes**



**1903**

Pierre and Marie Curie (along with Henri Becquerel) won the Nobel Prize for physics for the discovery of natural radioactivity.

Marie Curie receives the Nobel Prize for chemistry for her work on radioactivity.

**1911**

**1935**

Irène and Frédéric Joliot-Curie won the Nobel Prize for chemistry for their discovery of artificial radioactivity.

A UNIQUE HISTORY, PEPPERED WITH GREAT DISCOVERIES  
THAT BENEFIT HUMANITY,  
SCIENCE AND THE FIGHT AGAINST CANCER



Creation of the  
Fondation Curie

1921



Discovery of **artificial**  
radioactivity

1934



Installation and commissioning  
of a **synchrotron** in Orsay

1957



1909

Creation of the **Institut  
du Radium**



1927

Creation of the **1st  
laboratory to study the  
genetics of  
cancer**



1939

**Discovery of Francium**  
by Marguerite Perey, a chemist  
and one of Marie Curie's  
collaborators



1965

Opening  
of an 8-storey hospital  
center  
**(183 beds)**  
located at 26 rue d'Ulm,  
hôpital Claudius Regaud

# A UNIQUE HISTORY, PEPPERED WITH GREAT DISCOVERIES THAT BENEFIT HUMANITY, SCIENCE AND THE FIGHT AGAINST CANCER



**Ewing's sarcoma** (a rare bone cancer affecting children and young adults): **discovery of the genetic anomalies** that cause the tumor, then, in 2004, of proof of 86 epigenetically deregulated genes

1984



Opening of the new **Center for Proton therapy**

2010



Awarded **Comprehensive Cancer Center** certification by the OECI

2018



Institute of **Women Cancers**

1977

Creation of the **Pediatric Oncology Department**



2008

Creation of the **Developmental Biology of Cancer Division** after the 1995 opening of an International cellular biology division



2017

Opening of the **Immunotherapy center**



2023

Creation of the Hospital-University Institute (IHU) **Women's Cancer Institute**

# INSTITUT CURIE TODAY

## Leading

- European center for breast cancer treatment
- French cancer center in terms of number of patients treated
- French cancer research center  
**Certified Comprehensive Cancer Center** since 2018 by the OCEI



**3,829**  
Employees

**2,434** at the Hospital Group

**1,242** at the Research Center

**153** at the Head Office



**563**

PhD students, residents,  
nursing students



**€76.2 M**

donated by the  
public



**239,000**

active donors



**1,111**

Patents



**31 start-ups**

since 2002



**95 contracts**

For R&D collaboration  
with companies signed  
in 2023

# STRONG ROOTS IN THE ÎLE-DE-FRANCE REGION



Saint Cloud

University partnership

université PARIS-SACLAY



Paris

University partnership



Orsay

University partnership



## OUR INSTITUTIONAL PARTNERS AND SUPERVISORY BODIES



# GOVERNANCE OF INSTITUT CURIE

Bodies

## Supervisory Board

Chair: Daniel Thierry

18 members with voting rights  
(+ 7 members in an advisory capacity)



**International Scientific  
Advisory Board**  
Chair:  
**Prof. Edith Heard**  
14 members

### Remuneration Committee

Chair: Geneviève Berger

### Audit and Finance Committee

Chair: Frédéric Donnedieu de Vabres

### Ethics Committee

Chair: Marc Joliot

## Executive Board

Chair: Prof. Alain Puisieux  
Coralie Chevallier, Eric Nicolas

Entities

## Hospital Group

Director: Prof. Steven Le Guill

## Head Office

xxx

## Research Center

Director : Dr. Claire Rougeulle

# A RECOGNIZED PUBLIC INTEREST FOUNDATION

## Involvement and generosity, the drivers of the fight against cancer

Public generosity is essential to Institut Curie's fight against cancer. Thanks to donors and patrons, researchers, doctors and health professionals have the resources they need to accelerate their innovative projects for the benefit of patients, with a single goal in mind: to cure more women, men and children.



**239,000**

donors



**60**

acts of generosity



**70**

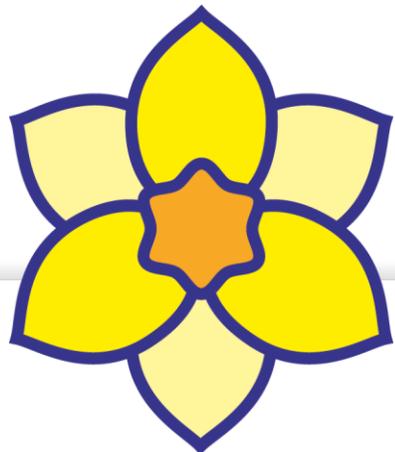
patron companies



### To benefit medical research and innovation:

- Innovative research projects
- State-of-the-art equipment
- Research teams
- Innovative patient support programs

## CAMPAIGN ACTIONS AS PART OF PUBLIC GENEROSITY



### Une Jonquille Contre le Cancer

A national fundraising and awareness campaign held each year in March to support research and innovation.

Over 1 million euros raised in 2023



### Pink October

A month of pink to support breast cancer patients.

And a team challenge in 2023 that collected over 30,000 pouches and small bags to support patients treated at Institut Curie



### “Course des Lumières” Night Run

Lighting up the night against cancer and to support all patients

Over 11,000 runners took part in 2023  
€213,000 raised

## REAL-ESTATE PROJECT: AN AMBITIOUS PLAN FOR INSTITUT CURIE'S DEVELOPMENT

Institut Curie's real-estate plan, through its constructions and renovations, is in line with the key issues to **meet the challenges of oncology, offer patients high quality of care and boost its appeal.**

**212.8 million  
euros invested**

### Saint-Cloud

- Extension and renovation of the current Saint-Cloud hospital
- 148 beds and spaces for patients in a 34,000 sq. m. space, 14,000 of its new construction,
- 2,100 sq. m. of laboratory space

### Paris

- "Coursaget" extension to the hospital to increase and improve patient admissions and offer the best possible working conditions to the teams.
- On the research side, extension of the Claudius Regaud building and renovation of the Pasteur pavilion, with 1,500 sq. m. of laboratory space and an area dedicated to support services.

## THE CARE-RESEARCH CONTINUUM

**A model**, inherited from **Marie Curie** and Dr Claudius Regaud, more relevant than ever.

**A scientific and medical approach** that's at the heart of daily practices of all those at Institut Curie: researchers, physicians, health professionals and all who help in the fight against cancer.

**A deep-seated desire** to constantly offer the most innovative therapies to all patients.



# CANCER, A MAJOR PUBLIC HEALTH THREAT

## IN FRANCE



(Source INCa)

**433,000**

new cancer cases in France in 2023

**157,000**

deaths each year in France

Today, one in two people recover from cancer.

**1,800** children and adolescents affected each year.

## AND THROUGHOUT THE WORLD

**10 million**

deaths in 2020

(Source WHO)

**400,000**

children and adolescents diagnosed each year.

Institut Curie remains committed to curing more men, women and children

# INSTITUT CURIE, COMMITTED ON ALL FRONTS TO THE FIGHT AGAINST CANCER

Involved in the treatment of all types of cancer:



**In adults:** breast cancer, respiratory system cancers, eye cancers, gynecological cancers, digestive cancers, ENT cancers and sarcomas.



**Pediatric cancers** from newborn to young adults

Institut Curie remains committed to curing more men, women and children

**Top oncology experts and the most high-performance techniques** for comprehensive and continuous treatment of patients.

→ **The third most important Proton Therapy center in the world, in terms of the number of patients treated since it opened.**

**Therapeutic innovations** that improve courses of treatment, cure ever more patients and reduce side effects

→ **2021: Marketing authorization for Trodelvy**, a promising treatment against an aggressive form of triple negative breast cancer tested during the phase-3 international clinical trial ASCENT, coordinated in France by Institut Curie.

**Scientific breakthroughs** from the normal cell to the tumor cell to help further knowledge

→ **More than 1,000 international scientific articles** published each year in the most prestigious journals.

## A LOOK AT THE INNOVATIONS OF THE FUTURE



### Flash Therapy

Very large doses of radiation over a very short period of time, making it possible to spare healthy tissue



### Single-Cell Technology

It allows researchers to study the heterogeneity of tumors to understand why some of them are resistant to treatments or to study how a normal cell acquires properties of a tumor.

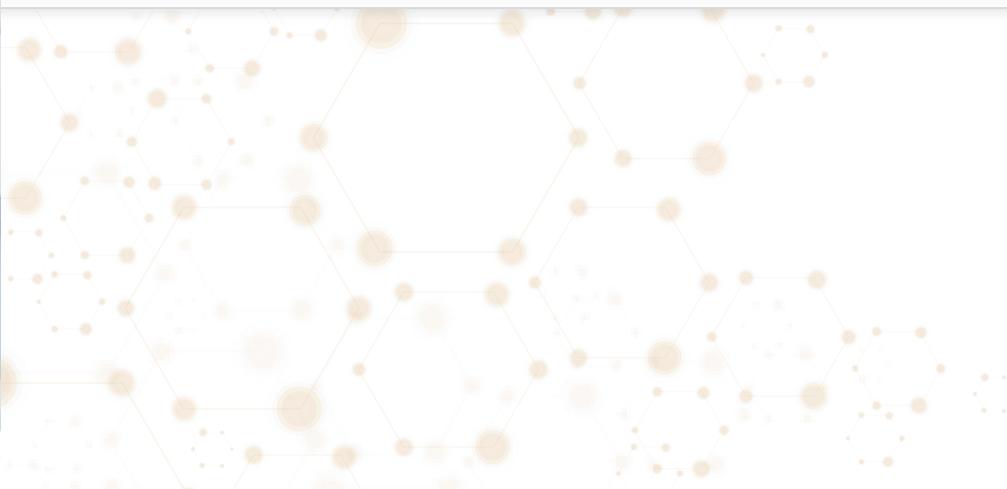


### Chemical Biology

This approach lets us study the intra-tumoral heterogeneity and plasticity of cancer cells, with the objective of identifying new therapeutic targets.



AN INTERNATIONALLY-RENOWNED  
**RESEARCH CENTER**  
TOGETHER, LET'S BEAT CANCER



# THE RESEARCH CENTER



## SITE 2: Systems medicine

- Units: U900 ; U1288
- Themes:
  - Biomarkers and Precision Medicine
  - Molecular Imaging



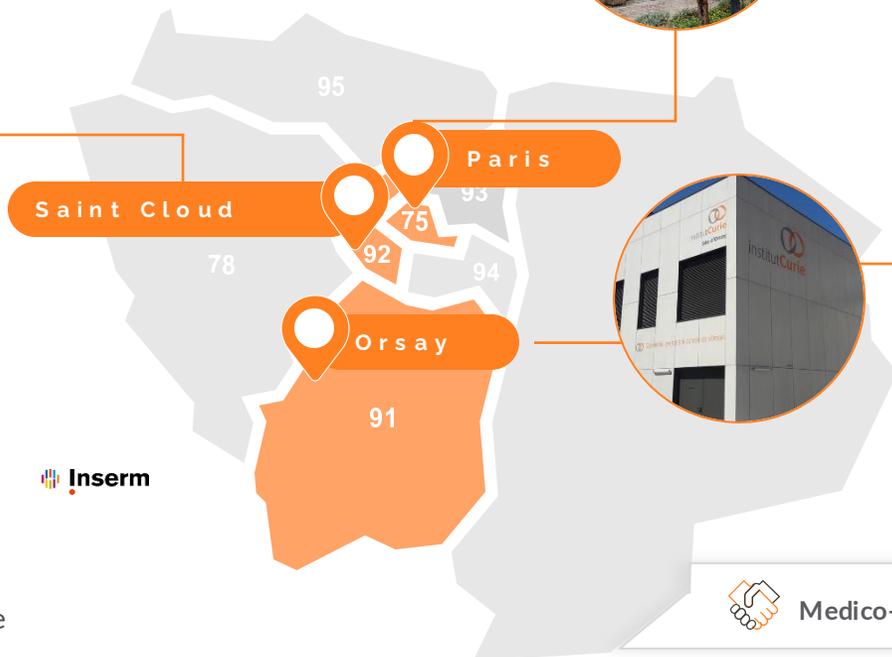
## SITE 1: Integrative biology

- Units: UMR3215/U934 ; UMR3664; UMR3244 ; U932 ; U830 ; UMR144 ; UMR168 ; UMR3666/U1143 ; U900
- Translational Research Department
- Themes:
  - Epigenetics and Genome Dynamics
  - Cell Biology and Developmental Biology
  - Immunology and Biology of Tumors
  - Physics of living systems and Chemical Biology
  - Computational Biology and Systems Biology



## SITE 3: Genome Integrity and Biology of Radiation

- Units: UMR3348 ; UMR3347 / U1021 ; UMR9187 / U1196
- Themes:
  - Cell Signaling and Responses to DNA Damage
  - Biology and Chemistry of Nucleic Acids
  - Radiobiology



Medico-Scientific Program



Technological Platform



Teaching

# THE RESEARCH CENTER

## 2023 KEY FIGURES



13

Mixed units

Team  
86



1,242

Employees



Technological platforms

19



385

Publications  
Average IF = 11,58

ERC Grants obtained since 2007

66



€54.32 M

research contracts

Start-ups in business

24



€137.6 M

Budget

# THE RESEARCH CENTER

## 2023 KEY FIGURES

### 13 MIXED RESEARCH UNITS

- Dynamics of Genetic Information  
● UMR3244 IC / CNRS / Sorbonne Univ.  
**Dir. Antonin Morillon**
- Nuclear dynamics - UMR3664  
● IC/ CNRS /Sorbonne Univ.  
**Dir. Angela Taddei**
- Genome integrity, RNA and Cancer  
● UMR3348 - IC/ CNRS/Paris Saclay  
**Dir. Stéphane Vagner**
- Developmental Biology and Genetics  
● UMR3215/U934  
IC/ CNRS/Inserm/Sorbonne Univ.  
**Dir. Pierre Leopold**

### 86 RESEARCH TEAMS

- Cell Biology and Cancer unit - UMR144  
● IC/ CNRS /Sorbonne Univ.  
**Dir. Franck Perez**
- Physical chemistry - UMR168  
● IC/ CNRS /Sorbonne Univ.  
**Dir. Pascal Hersen**
- Cellular and Chemical Biology  
● UMR3666/U1143  
IC/ CNRS /Inserm  
**Dir. Ludger Johannes**
- Chemistry and Modelling for Biology of  
● Cancer unit - UMR9187/U1196  
IC/ CNRS/ Inserm/ Paris Saclay  
**Dir. Florence Mahuteau-Betzer**
- Laboratory of Translational Imaging in  
● Oncology  
  
U1288 - IC/ Inserm  
**Dir. Irène Buvat**



- Immunity and Cancer  
● U932 - IC/ Inserm  
**Dir. Ana-Maria Lennon**
- Signaling, radiobiology and cancer  
● UMR3347/U1021  
IC/ CNRS/ Inserm / Paris Saclay  
**Dir. Arturo Londono-Vallejo**
- Cancer, Heterogeneity, Instability and  
● Plasticity unit - U830  
IC/ Inserm  
**Dir. Olivier Delattre**
- Cancer and Genome: Bioinformatics,  
● Biostatistics and Epidemiology of  
Complex Systems - U900  
IC/ Inserm/ Mines Paris PSL  
**Dir. Emmanuel Barillot**

### 6 RESEARCH THEMES

- Epigenetics, RNA, and Genome Dynamics
- Cell Biology and Developmental Biology
- Tumor Biology and Immunology
- Radiobiology and Molecular Imaging
- Physics of living systems and Chemical Biology
- Computational Biology and Systems Biology

# THE RESEARCH CENTER

## 2023 KEY FIGURES

### TECHNOLOGICAL PLATFORMS



#### Small Molecules

- Bioinformatics
- Chemical Library
- Chemical Imaging



#### Genome

- Bioinformatics
- Next Generation Sequencing
- Genomics
- CRISPR'IT



#### Proteome Metabolome

- Bioinformatics
- Mass Spectrometry
- Protein Expr. & Purific.
- Metabolomics
- Tab-IP & Rec. Abs



#### Cells & Tissues

- Bioinformatics
- Flow Cytometry
- Extracellular Vesicles
- Custom Single Cell Omics
- Optical Microscopy
- Electron Microscopy
- Chemical imaging
- Biophenics



#### Animal models & humans

- Bioinformatics
- Small animal facility
- Preclinical Investigation
- RadExp
- Histology



# AN INTERNATIONAL RESEARCH CENTER OF EXCELLENCE

## Significant and high-quality international scientific production

	Number of publications	Publications with IF > 10		Publications with IF > 20		Average IF
2023	385	139	36.1%	41	10.6%	11.58

13 units  
86 teams

78 nationalities

PhD students: foreign/French:  
**118 / 184**  
Post-doctoral fellows: foreign/French:  
**118 / 66**



4 ERC Grants obtained

45% of our team leaders are/have been ERC awardees

Since 2007, Institut Curie obtained 11% of ERC Grants in France in the Life of Sciences

## Main networks and certifications

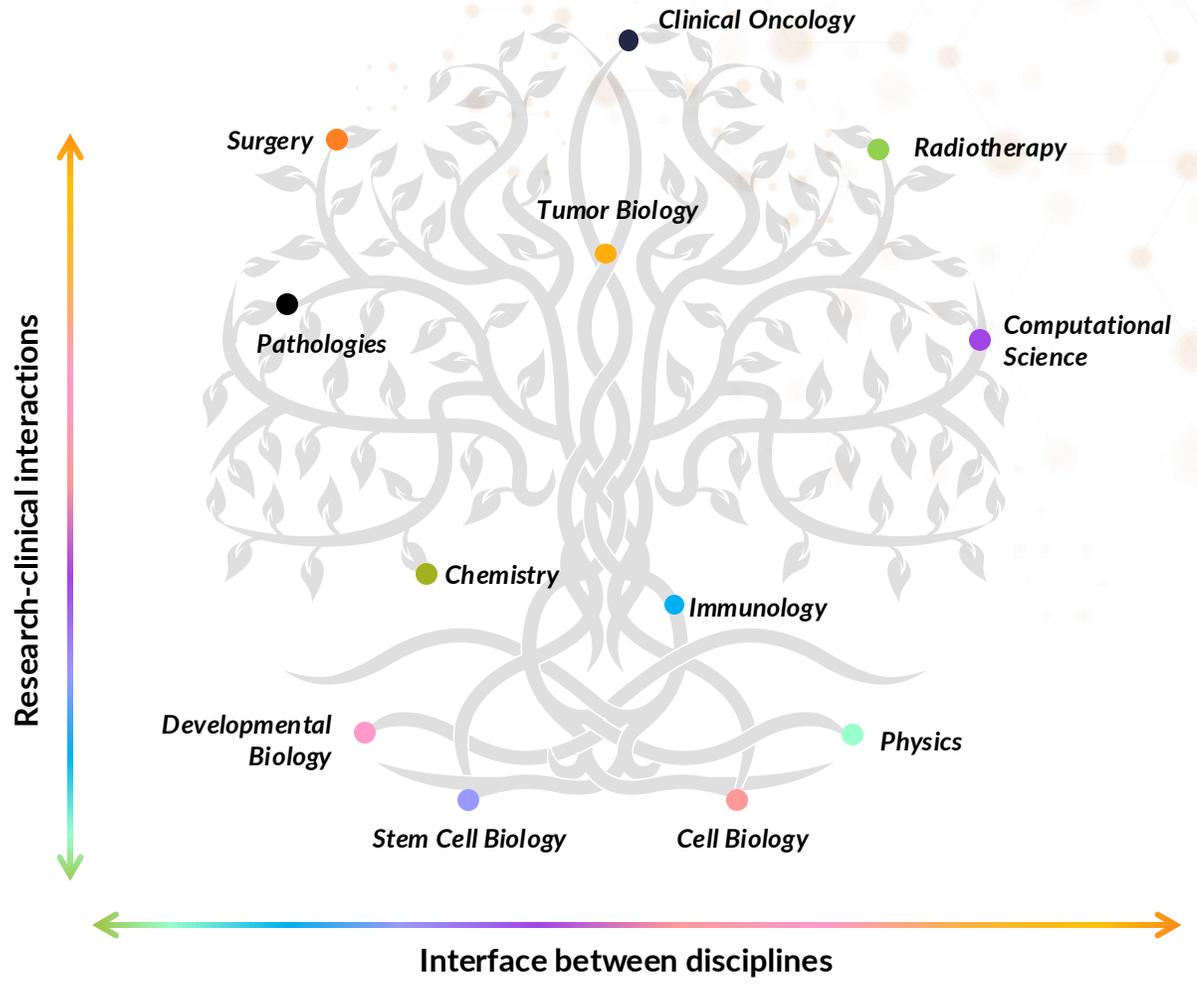


# THE CELTIC TREE, A SYMBOL OF INTERDISCIPLINARITY AND OF THE CARE-RESEARCH CONTINUUM



Marie Curie planting a tree at the Radium Institute in Warsaw, 1932

**Celtic tree:**  
*Symbol explaining how the forces of nature combining to create balance and harmony*



# AN INNOVATIVE STRATEGIC PLAN

## 1 To stimulate innovation within the context of the Comprehensive Cancer Center

- ① To promote interdisciplinarity and development of institutional partnerships
- ② To attract and develop talent
- ③ To anticipate the emergence of new themes and technological innovations

## 2 To strengthen the level of the Research Center in terms of basic research

- ① To strengthen ties with the Hospital Group through the medical and scientific program
- ② To review the missions and organization of the translational research department
- ③ To provide institutional support to translational research

## To offer infrastructures effective to research and researchers

- ① To guarantee a favorable technical environment
- ② To promote the transfer of scientific research
- ③ To boost the feeling of belonging to Institut Curie's scientific and medical community

## To promote the Curie model

- ① To develop excellence in teaching
- ② To strengthen partnerships and the international positioning of the Research Center
- ③ To play a role in society



3

1

2

3

4

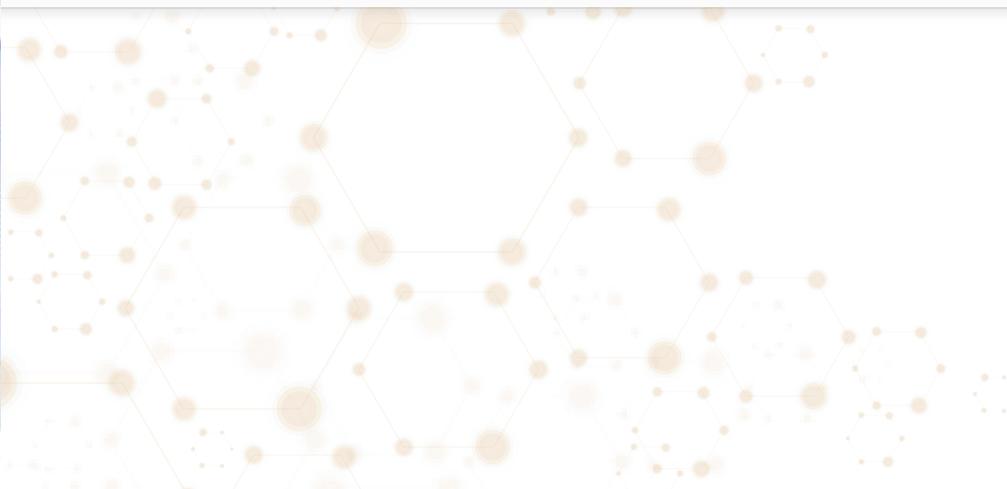
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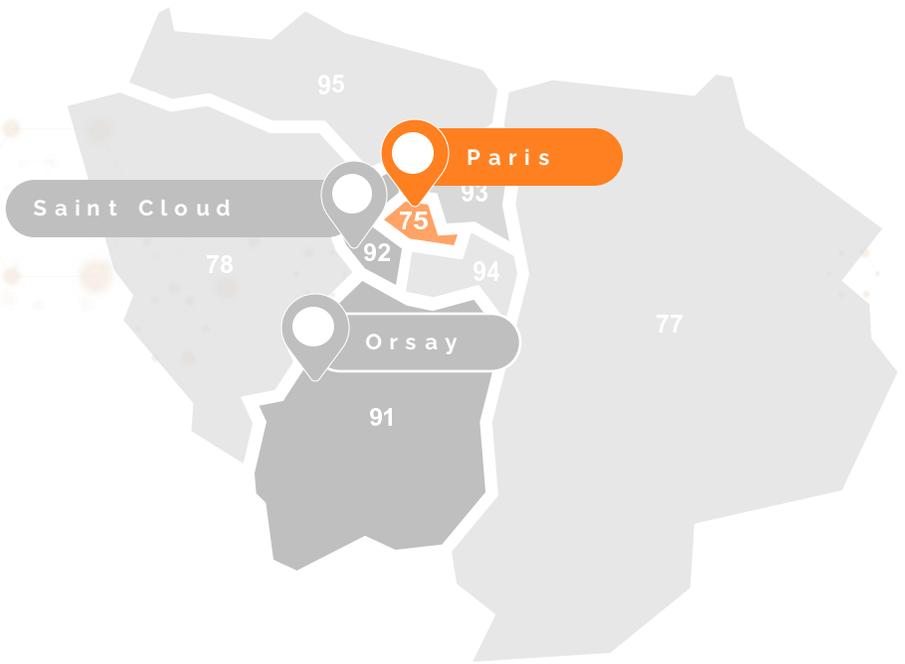
3



A STATE-OF-THE-ART  
HOSPITAL GROUP  
TOGETHER, LET'S BEAT CANCER



# PARIS SITE



- SITE 1: PARIS**
- Oncological Surgery
  - Medical Oncology
  - Pediatric Oncology
  - Radiotherapy
  - Early-stage Trials
  - Genetics
  - Nuclear Medicine
  - Diagnostic and Theranostic Medicine
  - Hematology



Medico-scientific Program

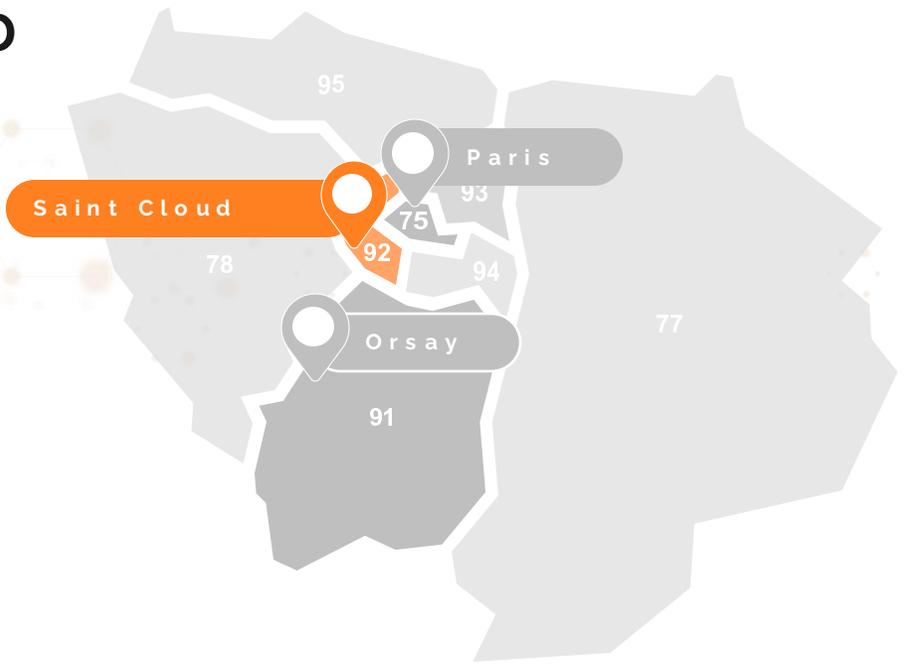


Technological platform



Teaching

# SAINT-CLOUD SITE



**SITE 2: SAINT-CLOUD**

- Oncological Surgery
- Medical Oncology
- Radiotherapy
- Nuclear Medicine
- Early-stage Trials
- Genetics and Translational Research
- Hematology



Medico-scientific Program

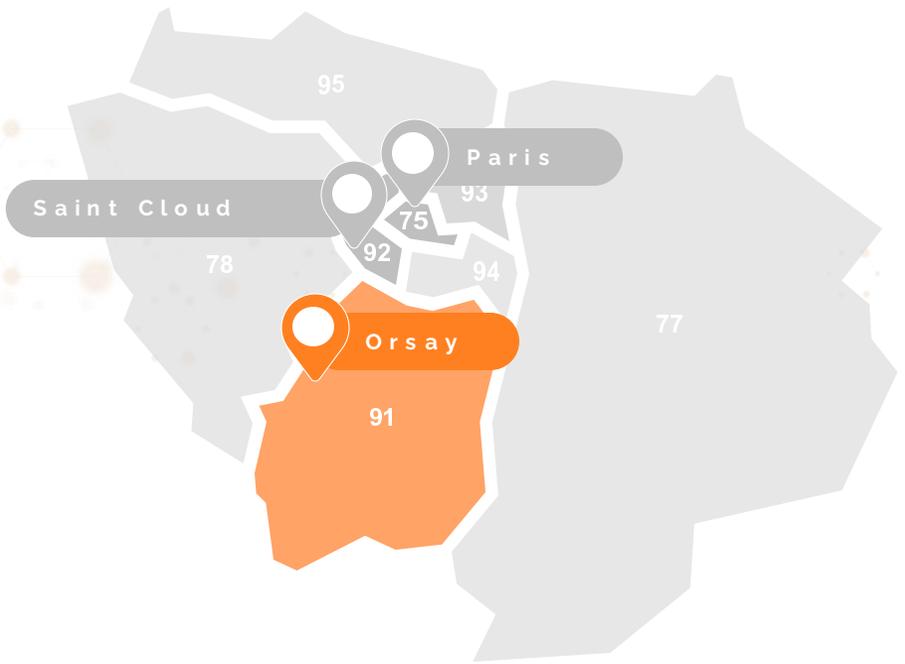


Technological platform



Teaching

# ORSAY SITE



**SITE 3: ORSAY**

- Radiotherapy
- Early-stage trials
- Proton therapy:
  - A world leader in ophthalmology (no. 1) and in pediatrics (no. 3)



Medico-scientific Program



Technological platform



Teaching

# THE HOSPITAL GROUP IN FIGURES

**2,434**

employees, of which:  
424 state-certified nurses (IBODE, IADE, childcare certified)  
102 caregivers  
412 physicians (including 5 physician-lecturers - MCU-PH - and 16 physician-professors - PU-PH)  
50 nationalities  
198 nursing students and nurses  
63 residents

**53,864**

patients, (73% women and 27% men) of which:

**11,668**

new patients  
411 international patients  
17,442 patients currently receiving treatment

**100,197**

consultations

**171,136**

hospitalizations, of which:  
160,990 in outpatient hospitalizations (of which 62,109 for day-care)  
10,940 inpatient hospitalizations of 4.3 days (mean length of hospitalization)

**49,505**

Chemotherapy sessions

**98,881**

Radiotherapy sessions



**670**

Scientific publications of which  
→ 27% with IF > 10  
and 12% with IF > 20  
→ 7 with A+ ranking and 173 with A ranking

# CLINICAL AND TRANSLATIONAL RESEARCH



**1,966**

patients included in a clinical trial

**197**

clinical trials currently recruiting



**1**

translational research department



**5**

SIRIC-certified research teams



**4**

translational research groups

**40**

clinical trials promoted by Curie

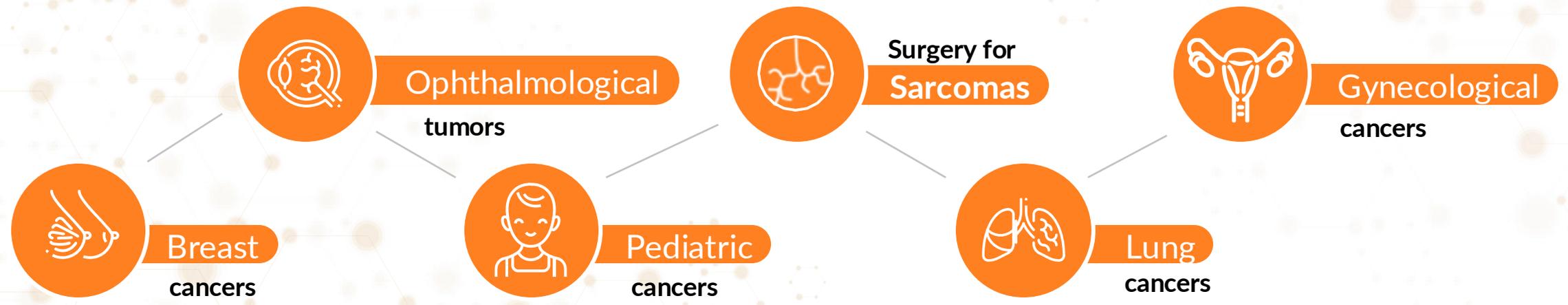
**150**

phase I, II, and III trials

**34**

clinical studies involving 97 children and adolescents

# AN EXPERT CENTER FOR THE TREATMENT OF ALL TYPES OF CANCER:



# A STRUCTURE AND TECHNOLOGICAL PLATFORMS THAT PROMOTE CARE



- Medical Oncology
- Surgery
- Radiotherapy
- Pediatrics
- Proton Therapy
- Oncogenetics
- Medical Imaging
- Interventional Radiology
- Anatomopathology
- Clinical Investigation
- Supportive Care
- Pharmacy

# PATIENTS TREATED FOR ALL TYPES OF CANCER OR TUMOR

## Leading

- European center for breast cancer treatment
- French cancer center in terms of number of patients treated
- French center in terms of number of patients in clinical trials



**7,229**  
for breast cancer



**1,219**  
for cancer of the respiratory system



**1,068**  
for gynecological cancer



**1,027**  
for cancer of the male genitalia



**913**  
for an eye tumor



**881**  
for digestive cancer



**719**  
for blood or bone-marrow cancer



**609**  
for skin cancer



**505**  
for ENT cancer



**495**  
for pediatric tumors



**448**  
for a sarcoma or complex tumor



**155**  
for cancer of the thyroid



**147**  
for cancer of the urinary tract



**130**  
for cancer of the central nervous system

# HOPE FOR PATIENTS FROM OVERSEAS



Internationally recognized for its **expertise in oncology**, each year, several hundred international patients call on Institut Curie.

### Different types of requests:

-  A medical **opinion**
-  A sample **analysis**
-  Medical **treatment**

A **dedicated team** made up of physicians, course of care coordinators and supervisors.

**Dedicated support** at all stages of the treatment *(before, during and after any stay in the Hospital Group).*

# NATIONAL AND INTERNATIONAL QUALITY ACCREDITATIONS



HAS certification (*Haute Autorité de santé*) - accredited with a commendation for “high quality care” in 2022



NF EN ISO 20 387 biobank certification



Accreditation for Medical Biology (*COFRAC, NF EN ISO 15189*)



NF EN ISO 9001 certification for Clinical Research



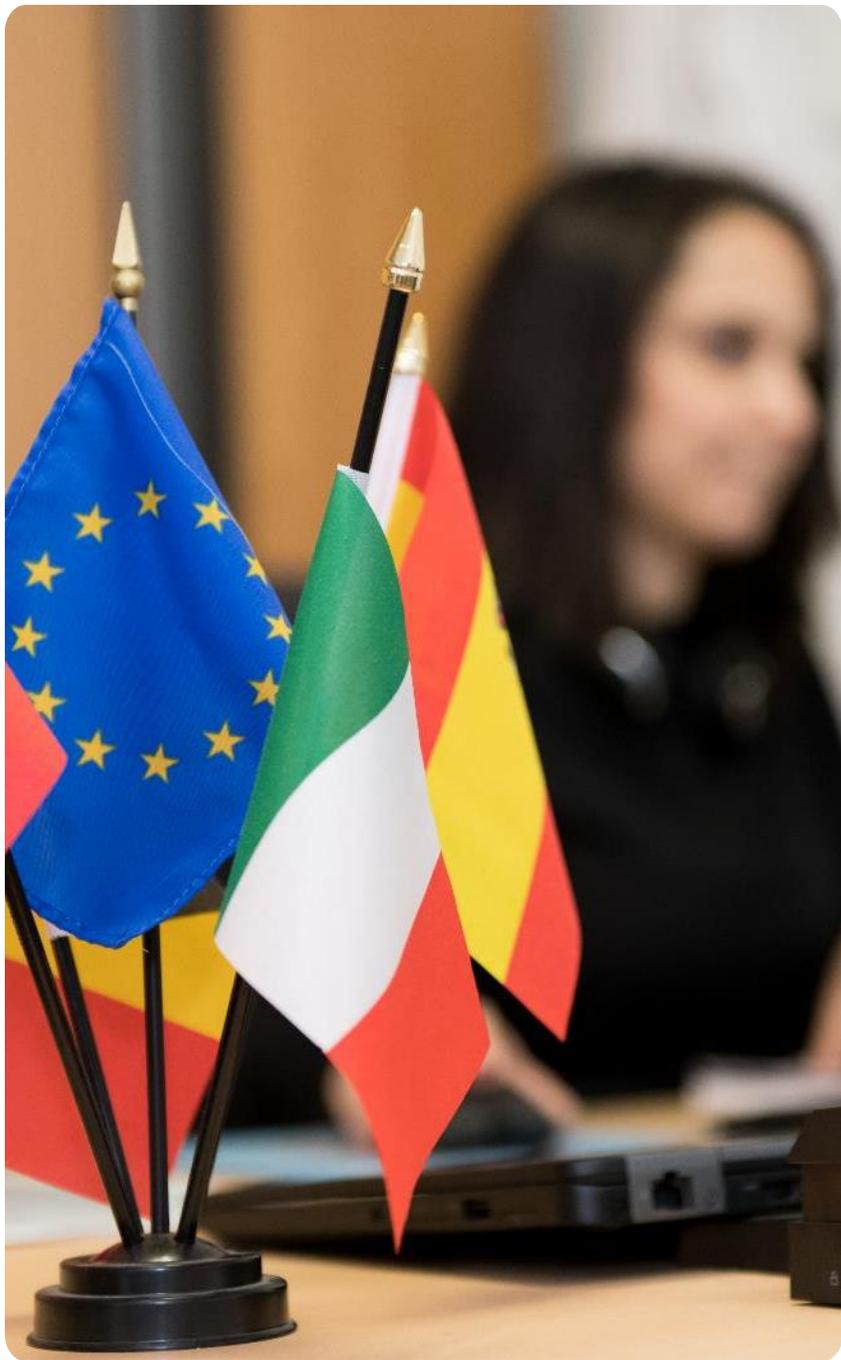
Accreditation Comprehensive Cancer Center since 2018



Reference Center for Rare Cancers at European level from ERN since 2016, EuroBloodNet, PaedCAN, Euracane Genturis

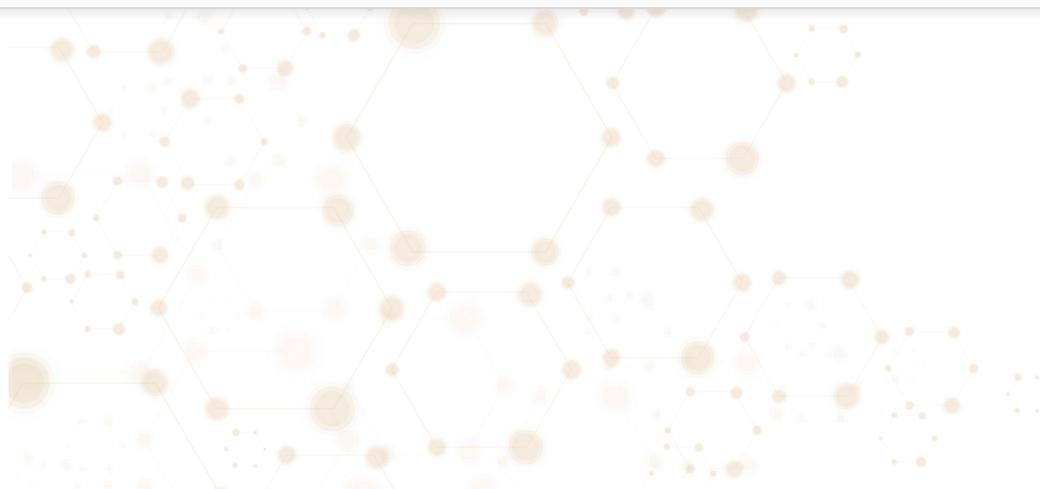


Center accredited by INCa (*French National Cancer Institute*) for early phase (CLIP<sup>2</sup>)



**AN INSTITUTE  
THAT ENGAGES WITH THE  
WORLD**

TOGETHER, LET'S BEAT CANCER



# TEACHING

## APPROPRIATE TRANSFER OF KNOWLEDGE

Since it was created, Institut Curie has trained French and international researchers and physicians.

- An active recruitment and supervision policy for high-level PhD students and post-doctoral fellows.
- An international appeal with a portfolio of classes appropriate for these high-potential recruits

## THE RESEARCH CENTER

**302** PhD students, including  
**118** foreign PhD students  
**184** post-doctoral fellows, including  
**118** foreign post-doctoral fellows

## THE HOSPITAL GROUP

**198** nursing students  
and nurses  
**63** medical residents



**Beneficiary of 3 COFUND programs** allocated by the European Commission to finance doctoral of medical theses.

# INTERNATIONAL: SHARED EXPERTISE

A humanist tradition that provides its human and technical know-how to the populations that most need it.



## Welcoming foreign patients to Institut Curie

**411** patients from outside France and its overseas departments in 2023

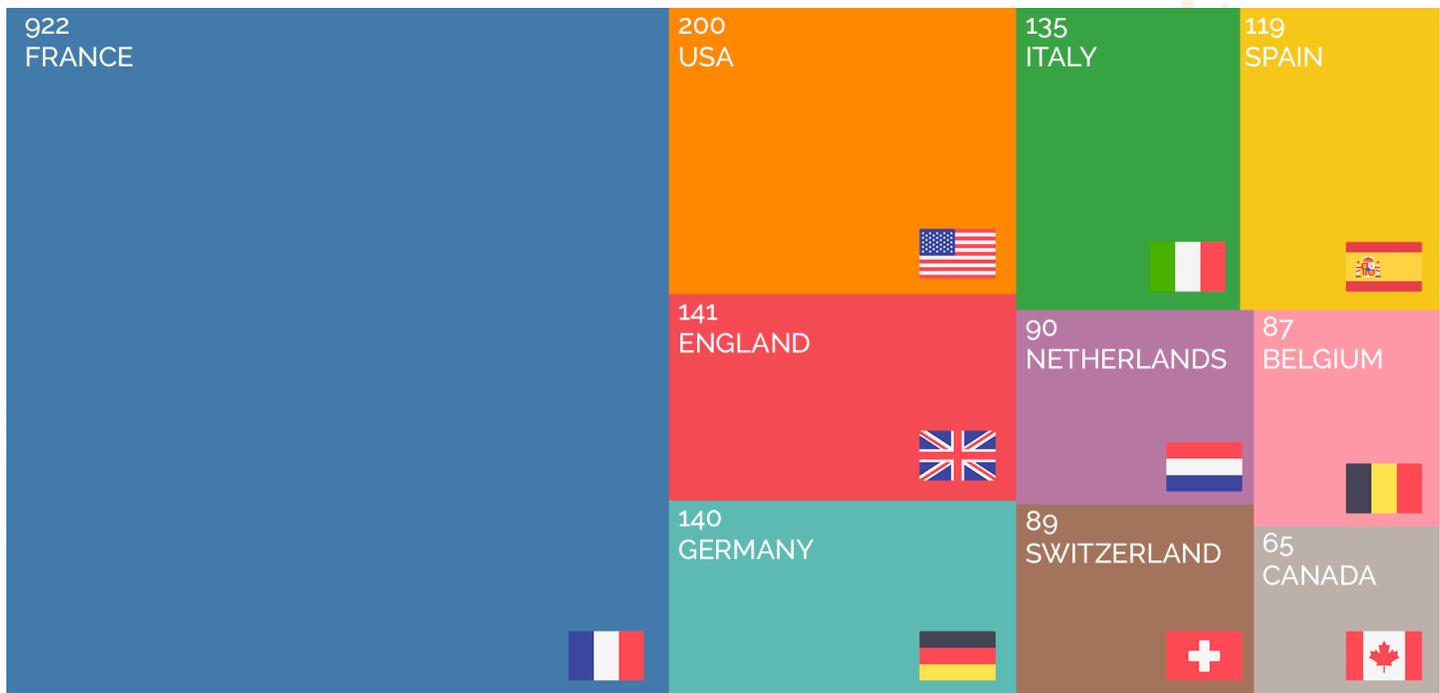
## Transfer of knowledge

- Organization of master classes by Institut Curie’s physicians and health professionals in Lebanon, Tanzania and Kazakhstan, to train local medical staff in new practices and new technologies.
- Consulting on large-scale humanitarian projects such as the Tanzania Comprehensive Cancer Project.
- Curie Fellowship: an ambitious program to bring 6 young Lebanese doctors to Institut Curie for 12 months to complete their oncology training with expert teams (surgery, radiotherapy, medical oncology, diagnosis, etc.)

# INTERNATIONAL COLLABORATIVE PUBLICATIONS

**53,1%**  
of scientific production  
is international

This means **490** of the **922** collaborative publications produced in 2023 will be with foreign partners from **83** countries.



Source: web of science  
List of Institut Curie articles (CdR + EH)

# THE STRENGTH OF A NETWORK OF INSTITUTIONAL AND ACADEMIC PARTNERSHIPS



**Regional hospital partnerships** to ensure broad access for all to quality care



**Research collaborations** all over the world with the most prestigious institutes to further knowledge in the fight against cancer

- NCBS-inStem, in Bangalore (*India*)
- NCI-NIH, in Bethesda (*USA*)
- Weizmann Institute, in Rehovot (*Israel*)



**International university partnerships** for young researchers, such as the ITN (International Training Networks) in the Research Center units.

# AN AMBITIOUS AND DYNAMIC TECH TRANSFER POLICY

## OBJECTIVES

To accelerate development of innovations to make them accessible to patients quickly

- To intensify the identification and maturation of innovations with high socio-economic potential
- To promote industrial partnerships
- To support the creation of start-ups

## DEVELOPMENT OF RESEARCH IN 2023

A portfolio of **1 111** patents filed

**31** start-ups created since 2002

Almost **€10 M** generated by the signature of **95** R&D contracts



# CARNOT CURIE CANCER, A CERTIFICATION OF EXCELLENCE



## OBJECTIVES

to offer industrial partners the opportunity to implement research collaborations from identification of a therapeutic target to clinical approval of a drug.

- Carnot Curie Cancer brings together teams in cognitive research, translational and clinical research, that are vital to the care-research continuum.
- Carnot Curie Cancer guarantees a special framework that promotes exchange of expertise and know-how for implementation of multidisciplinary projects.
- Carnot Curie Cancer facilitates the financing of bold projects with high innovative potential for the oncology of the future.

# THE MUSÉE CURIE, A LIVING MEMORY OF THE CURIE FAMILY

Just like research, treatment and education, the preservation and development of historic heritage are among the essential missions of Institut Curie.

Musée Curie is a support and research unit (CNRS UAR 6425 CNRS/Institut Curie "Museum and Archives of the Institut du Radium: Pierre and Marie Curie, Irène and Frédéric Joliot-Curie"),



Its missions are:

- to collect and preserve documents, objects, devices and testimonies connected to the history of the Curie family, to the history of research in radioactivity

and the first medical applications of radiation

- to catalog and develop tools to facilitate access to, study and scientific and cultural development of this historic heritage
- to present and disseminate a variety of knowledge to the general public

The Musée Curie is a member of ICOM (International Council of Museums) and follows the museum code of ethics.



It received the "Maison des Illustres" accreditation from the Ministry of Culture in 2013.



## KEY FIGURES



**6,000** iconographic works



**95%** of photographic works are digitized



Up to **36,000** visitors a year



## JOIN US!

Institut Curie

26, rue d'Ulm

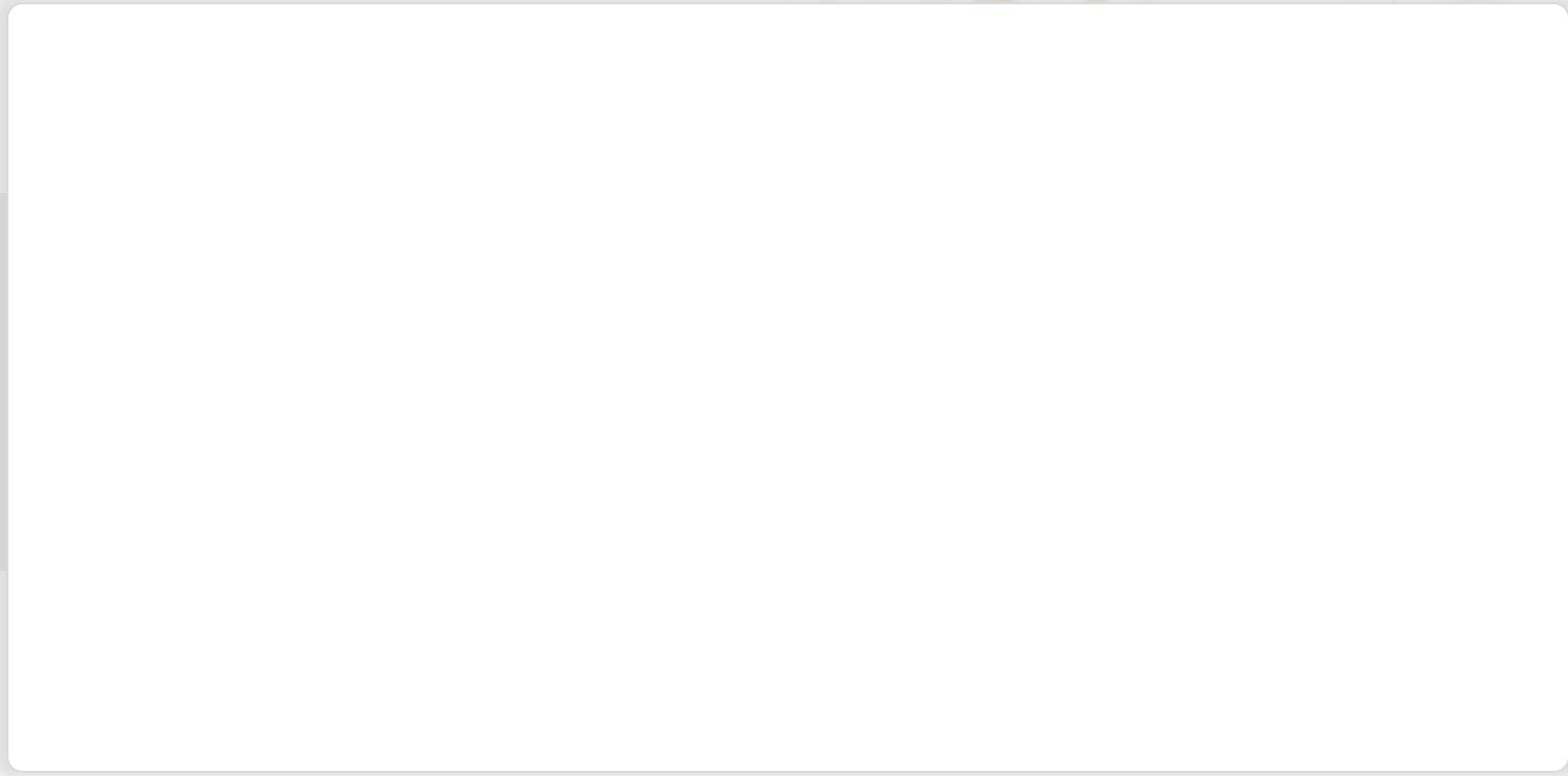
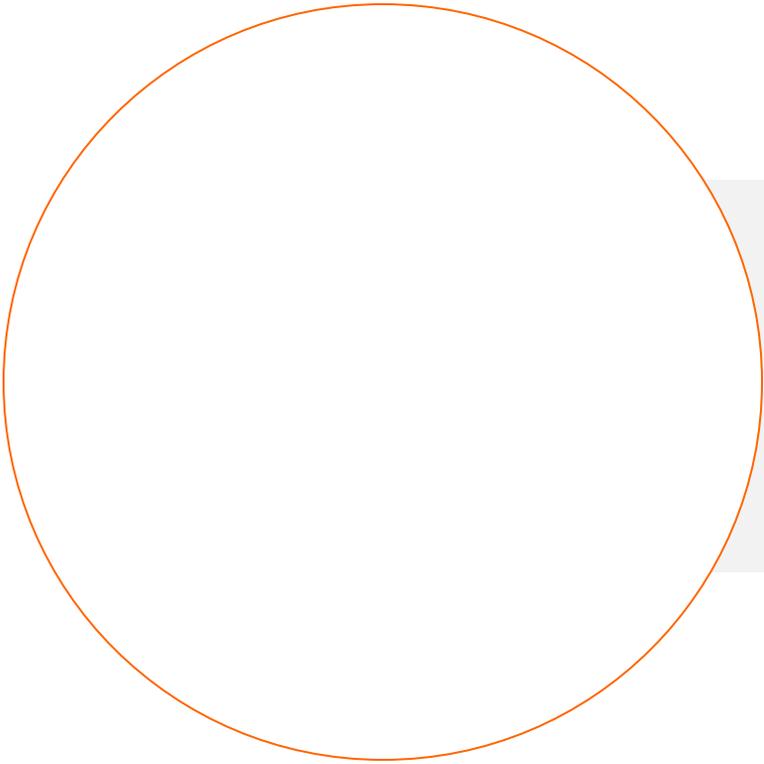
75 248 Paris Cedex 05

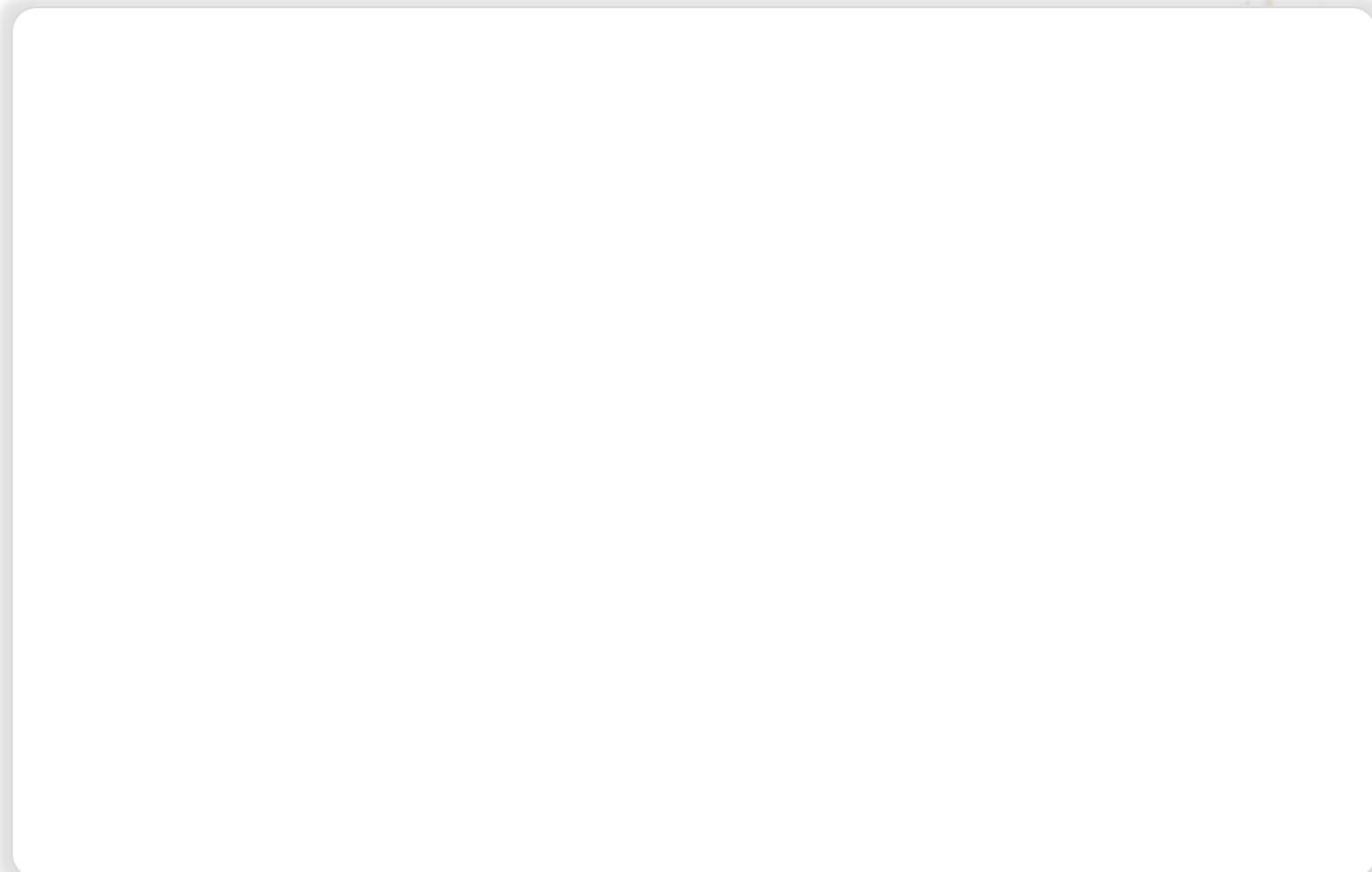
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## CHIFFRES CLÉS

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