



institut**Curie**



Patient

Care

Innovation

Research

Commitment

Achievement

Discovery

Share

Development

Hope **Teaching**

Accompany

Training *Mobilization*

Transfer

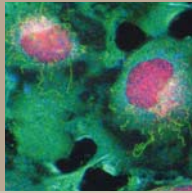
Dissemination

Future

Together,
let's beat cancer

The Institut Curie:

a leading center for
research, patient care
and teaching



The Institut Curie was founded in 1909 and became a registered charity in 1921. Based on a model initiated by Marie Curie - “from fundamental research to innovative patient care” - a model which is just as forward thinking now as it was in 1909, the Institut Curie operates one of the largest cancer research centers in Europe as well as two hospitals providing state-of-the-art cancer care.

■ Key figures 2009-2010 data



3,000 staff

625 articles published in international scientific and medical journals in 2009

Total 2010 budget (estimate):
€298 million, including
9% from public donations

105,000 square meters of hospital facilities and laboratory space

Everyone at the Institut Curie – researchers, physicians and medical staff – is committed to our motto “Together, let’s beat cancer”. The Institute’s resources are used to create an innovation-friendly environment which allows patients to benefit from high-quality healthcare as rapidly as possible.

Research and innovation

The multidisciplinary, fundamental research performed at the Institut Curie seeks to understand the complex mechanisms which operate in both normal and cancer cells. The ultimate goal is to improve cancer prevention, diagnosis and treatment. The Institut Curie’s research groups have access to cutting-edge imaging, bioinformatics, genomics and proteomics facilities.

Translational research ensures that scientific discoveries are turned into medical innovations. Our researchers and medical staff work from validated concepts to develop new diagnostic techniques and safer, more effective therapeutic approaches.

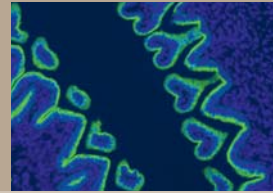
Patient care

The Institut Curie is a leading center for the treatment of breast cancer, eye tumors and pediatric cancers. In parallel, the Institute continues to diversify its cancer care activities.

By always adopting a multidisciplinary approach, the Institut Curie uses the best available skills and high-performance techniques to continuously provide



Three strategic objectives



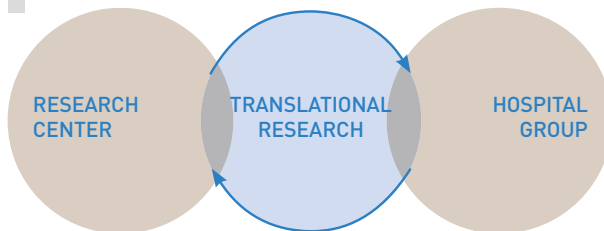
comprehensive, individualized patient care at all stages of the disease with the ever-present goal of improving the patient's quality of life.

As the birthplace of radiotherapy and a pioneer in conservative treatment and pain management, the Institut Curie continues to innovate in complex techniques and treatment procedures as well as to develop its clinical research activities.

Teaching and training

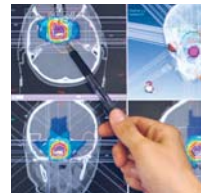
Teaching and training, high-priority activities at the Institut Curie, contribute to progress in scientific research and medicine by actively integrating the latest knowledge generated worldwide. Dissemination of this knowledge is essential for keeping society at large informed about our activities and furthering our commitment to medical progress and innovation.

- The Curie model:
- from basic research to innovative treatments
-



Promoting partnerships between physicians and researchers, rapidly translating scientific discoveries into clinical applications and improving the quality of routine care are key assets to the Institut Curie's development strategy.

With 320,000 new cases diagnosed every year in France¹, cancer is a major public health issue. The number of cancers, which has risen by 12% over the last 5 years², will continue to increase in the immediate future.



Discoveries in biology provide us with a better understanding of cancer and enable us to develop treatments which are more effective, more personalized and less toxic with a progressive move towards "made-to-measure" patient management.

Turning scientific discoveries into improved healthcare

The Institut Curie has an ambitious policy to rapidly translate scientific advances into better cancer care. As a major cancer center, the Institut Curie is developing novel research programs and medical expertise in cancer management - from the most common to the rarest tumors. It is also developing innovative therapies, such as high-precision radiotherapy, oncogenetics and conservative treatment.

1. 2008 estimate from IVS (the French National Institute for Public Health Surveillance).
2. Estimate based on 2007 data from INCa (French National Cancer Institute).



Four development axes



Reaching out to share knowledge

The Institut Curie disseminates its scientific and medical advances and participates in the creation of high-level scientific clusters. Collaborative projects are run within the framework of international programs including hospitals, universities, research centers and companies worldwide. The Institut Curie also helps to develop relationships between office-based and hospital physicians as well as from one center to another throughout the Paris area, to ensure that our patients receive high-quality care once they leave us. In addition, the Institut Curie is involved in training cancer healthcare specialists as part of the French National Federation of Cancer Centers.



Attracting and retaining top talent

The Institut Curie is committed to recruiting and retaining high-level staff and thus underpins its attractiveness through a variety of measures: hosting PhD students, postdocs and senior researchers from around the world; maintaining a high carer/patient ratio; providing fellowships for clinical staff so that they can devote time to research, innovation and teaching.

With a view to becoming a major player in basic, translational and clinical research, the Institut Curie cultivates crossdisciplinarity by bringing together scientists and medical staff and enabling them to share their skills and attain a high level of excellence. We believe that this approach will increase the cure rate and give rise to a greater life expectancy and fewer side effects.

The Institut Curie is committing its human and financial resources to four major development axes:

- **Boosting our technological and human resources in fundamental research**, to better understand how cancer develops and to promote innovation.
- **Reinforcing the research-care-teaching model within the institute**, so that patients benefit sooner from scientific progress through better diagnosis and optimized care.
- **Transforming the hospital**. To be able to accommodate more patients, allow greater focus on individualized patient care and define new patient pathways.
- **Promoting medical innovation** by extending the Institut Curie's international outreach so that more patients can benefit from our expertise.

Private-and public-sector funding



The Institut Curie attracts funding from a diverse range of private-and public-sector sources. This particular funding structure gives the Institute the financial independence it needs to pursue its missions of public interest.

As a registered charity, the Institut Curie is accredited to receive donations and legacy gifts. The public's generosity helps to accelerate innovation in research and patient care.

Donations from the general public

In 2009, the Institut Curie received €27.3 million in donations from the general public (i.e. 13% of its resources) but managed to limit its fundraising costs to €3.3 million. Hence, over 77% of each donation is channeled directly to the Institut Curie's social missions: cancer research, patient care, teaching and training.

The generosity of private donors is essential and helps initiate projects that would not otherwise be possible. By acting as a catalyst for innovative research programs, private donations accelerate our scientific discoveries and thus the development and implementation of new diagnostic and therapeutic approaches.

Each year, over 100 legacy gifts are made to the Institut

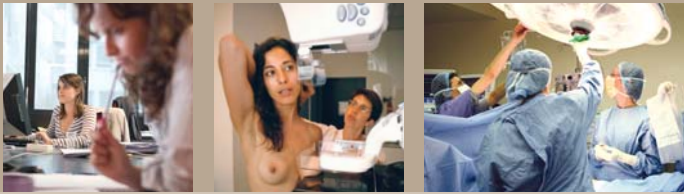
Curie which also has 150,000 regular donors. Of these, 13,000 have committed to long-term, direct-debit donations and thus have become *Friends of the Institut Curie*. The regularity of direct-debit donations means that we can plan our activities several years ahead and perform work which requires significant time and financial resources.



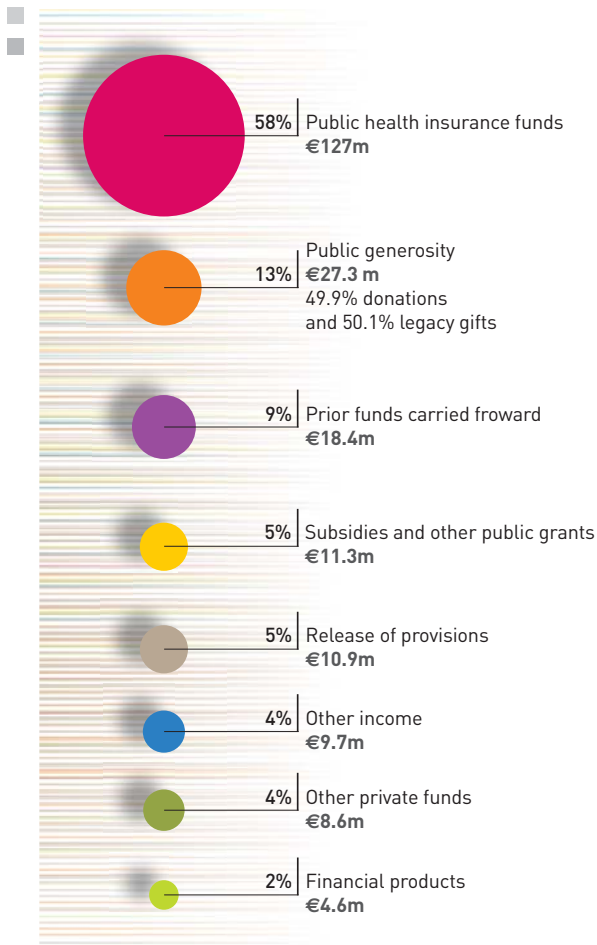
The Institut Curie organizes fundraising events throughout France. Every year, dozens of Courir pour la Vie, Courir pour Curie (*Run for Life, Run for Curie*) charity runs are organized to raise money for research. Over the last 20 years, this event has raised more than €4.3 million.

Corporate donations

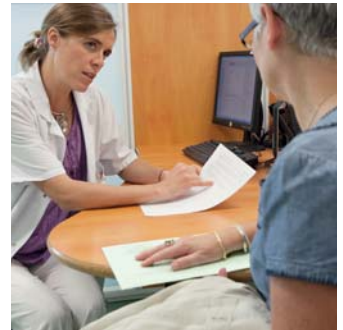
The Institut Curie is fortunate to receive donations from long-term corporate partners. By becoming corporate donors, companies can see the impact of their financial commitment. Thanks to its corporate partners, the Institute can offer additional resources to researchers and physicians - resources which directly benefit patients. This loyalty is fundamental for fulfilling the Institut Curie's missions.



■ The Institut Curie's funding sources 2009 data



■ Most medical care activities are funded by public and private health insurers.



■ Research costs (salaries, operating costs and investments) are funded by the Institut Curie, the French National Center for Scientific Research (CNRS), the French National Institute for Health and Medical Research (Inserm) and universities. The Institut Curie's own research costs are sourced from public donations, a grant-in-aid from the French Department of Education and Research and private-and public-sector research contracts (usually won through calls for tender).



RESEARCH

Generating knowledge



To improve cancer prevention, diagnosis and treatment, our researchers and physicians have joined forces in a multidisciplinary fight against cancer. The Institut Curie deploys fundamental, translational and clinical research programs for the benefit of cancer patients.

The Institut Curie strives for excellence by designing innovative concepts and cutting-edge techniques. By bringing together expertise and innovation-focused resources, the institute's Research Center constitutes a favorable environment for scientific progress.

One of the largest cancer research centers in Europe

Understanding the complexity of life

By involving biologists, chemists, physicists, computational biologists and physicians, the Institut Curie's research aims at improving cancer prevention, diagnosis and treatment by seeking to understand how both normal and cancer cells work in the following disciplines:

- Cell biology and developmental biology
- Immunology
- Human genetics and oncogenesis
- Epigenetics and genotoxicology
- Pharmacochimistry
- The physical chemistry of living systems
- Molecular mechanisms and oncogenesis
- Cellular and molecular imaging
- Bioinformatics and systems biology

Key figures 2009-2010 data

- **84 research teams** organized into 15 joint CNRS/Inserm/University units
- **962 people:** researchers, technicians and administrative staff
- **45 nationalities**
- **36 average age**
- **€63m** in research expenditure in 2009
- **€31m in multiyear research contracts** obtained in 2009

Technical platforms made available to the scientific community at large

- High-throughput genome and DNA sequencing
- Proteomics/mass spectrometry
- Histology
- Bioinformatics
- Chemolibrary (library of compounds)

One of the highest-spec imaging facilities in Europe

(the Nikon Imaging Center@Institut Curie-CNRS and the Pict-IBiSA Cell and Tissue Imaging Facility)

- 30 photon microscopy workstations
- 5 atomic force microscopes
- 4 electron microscopes
- 1 ion microscope
- 1 research-dedicated MRI system

TRANSLATIONAL RESEARCH & TECHNOLOGY TRANSFER

Essential bridges to medical progress



By combining the expertise of scientific researchers and oncologists, translational research leverages fundamental scientific discoveries and accelerates the development of diagnostic & prognostic tools, medical devices and therapeutics. This is a priority at the Institut Curie.

Providing physicians with novel, research-derived medical procedures is at the heart of the Institut Curie's mission. To be able to offer high-performance, personalized treatments, we need to find new drug targets, establish diagnostic criteria and identify factors which predict treatment response.

The "Curie model" in action

The Institut Curie's translational research is based on:

- a dedicated translational research Department
- the Research Center's research groups
- the care teams in the Hospital Group

The clinical research programs performed in the Institut Curie's hospitals target both the most common and the rarest types of cancer.



- **Key figures** 2009-2010 data
- **More than 40 researchers, physicians, engineers and technicians** dedicated to translational research
- **1 000 m² of lab space** for translational research
- **Around 120 patent families**
- **Over 50 licensing agreements**
- **More than 100 ongoing industrial partnerships**
- **10 spin-off companies**

The **development** of inventions and innovations at the Institut Curie, relies on cutting-edge technical facilities, biological resource centers and compound libraries.



Research outcomes for better patient care:

- New pain treatment.
- The first genetic test for Ewing's tumor in children.
- Improved diagnosis of predisposition to breast and ovarian cancers.

PATIENT CARE

Excellence in cancer care



The Institut Curie operates two cancer centers on three sites (Paris and nearby Saint-Cloud and Orsay). The Proton Therapy Center is located in Orsay.

Hospitals combining human and technical expertise

The Institut Curie's Hospital Group is an internationally renowned center for the diagnosis and treatment of breast cancer, eye tumors and pediatric cancers, as well as sarcoma, lymphoma and prostate, head & neck, gynecological, digestive tract, bronchopulmonary, skin and nervous system cancers. It is also a reference center for innovative treatments such as high-precision radiotherapy, oncogenetics and conservative treatments. The Institut Curie also conducts numerous clinical studies.



Thanks to a consistently multidisciplinary approach between specialists in oncology, pain control and supportive care with an ever-present concern for the patient's quality of life, the Institut Curie is able to treat cancer patients at all stages of their disease.

Key figures 2009-2010 data

- **2,100 people:** carers, engineers, technicians and administrative staff
- **3 sites** in the Paris area: Paris, Orsay and Saint-Cloud
- **10,900 patients** treated each year (new and ongoing)
- **6,000 patients** treated for breast cancer each year
- **160,000 consultations** per year
- **356 beds** and places
- **€207m** spent on medical care in 2009

Caring for children and adults with cancer

- Medical imaging
- Biological assays and genetic testing
- Surgery
- Radiotherapy
- Oncological medicine
- Supportive care



The Hospital Group interacts with several healthcare networks and signs agreements with other establishments when a particular technology and/or complementary skills are required.

TEACHING & TRAINING

Sharing knowledge and know-how



Teaching and training are priorities at the Institut Curie; they help develop scientific research and medicine by actively integrating the latest knowledge generated worldwide.

Teaching and training courses offered by the Institut Curie

- International, multidisciplinary courses
- Foundation courses
- Multidisciplinary graduate and postgraduate courses in medicine and paramedical
- University modules



The Institut Curie organizes high-level courses for graduate and postgraduate students interested in all aspects of cancer research, from the most fundamental work through to clinical applications.

The Institut Curie's dynamic, international and integrated environment creates synergy and offers a unique setting for novel teaching and training initiatives defined in partnership with universities, postgraduate programs and national research institutes.

Key figures December 2009 data

- 50 masters students
- 200 PhD students
- 100 third-year medical students
- 70 postdoctoral residents (sometimes on inter-university programs)
- 40 physicians working as residents in teaching hospitals
- 45 nationalities

Raising awareness is part of the fight against cancer



The Institut Curie organizes monthly seminars for the general public. The question & answer sessions provide members of the public with an opportunity to dialogue with the institute's researchers and physicians on topical issues in biology, medicine and physics.

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www.curie.fr

An extraordinary history



- 2010** Merger between the Institut Curie and the René Huguenin Cancer Center.
- Inauguration of the new Proton Therapy Center.
- 2008** Creation of the cancer biology and developmental biology research department.
- 2003** Implementation of conformational 3D radiotherapy («sculpted» to match the shape of the tumor) for the first time in France.
- 1998** Implementation of brachytherapy for localized prostate cancer.
- 1995** Creation of the cancer biology research department.
- 1991** Inauguration of the Proton Therapy Center. The first oncogenetic consultations in France.
- 1989** Inauguration of the Irène Joliot-Curie Parent House, after a public fundraising campaign.
- 1977** Creation of the Pediatric Oncology Service (one of the first in France).
- 1970** Merger between the Curie Foundation and the Radium Institute: the Institut Curie is born.
- 1959** Creation of the René Huguenin Cancer Center.
- 1958** The first successful bone marrow transplants in irradiated subjects.
- 1935** Irène and Frédéric Joliot-Curie win the Nobel Prize in Chemistry for the discovery of artificial radioactivity.
- 1922** Development of innovative combinations of surgery and radiotherapy.
- 1921** Granted charitable status.
- 1920** Creation of the Curie Foundation, France's first ever center for cancer treatment.
- 1911** Marie Curie wins the Nobel Prize in Chemistry for her work on radioactivity.
- 1909** Following the award of the 1903 Nobel Prize in Physics for her discovery of natural radioactivity, Marie Curie (with Professor Claudius Regaud) founds the Radium Institute (research on ionizing radiation and its medical applications in cancer treatment).

The Curie Museum

The Curie Museum displays the Institut Curie's rich scientific heritage. The museum recounts the personal and professional history of "the family with five Nobel Prizes" and highlights the major steps in the discovery of radioactivity, the fight against cancer and the Institut Curie's history. Marie Curie's private office and chemistry laboratory constitute the historic heart of the Institut Curie.

The Curie Museum is temporarily closed (until the second half of 2011) while its facilities and exhibits are being refurbished and updated. All the refurbishment work is funded by a legacy gift from Eve Curie-Labouisse, Pierre and Marie Curie's youngest daughter who died in New York in 2007. Eve always felt very close to the Institut Curie and wanted the Curie Museum to be renovated in her mother's memory. The work will improve access to the Curie Museum's collections of objects, documents and archives and will enhance its international profile. The objective is to conserve and display the collections more effectively. The functional characteristics of the available exhibition space have been optimized to meet the public's expectations.

- **The Curie Museum**
- Tel. +33 (0)1 56 24 55 33 Web site: musee.curie.fr
-

The museum is scheduled to reopen the second half of 2011

Corporate governance at the Institut Curie

The Institut Curie's governance is overseen by a Board of Directors, which ensures compliance with the Institute's charitable objectives, and a Scientific Advisory Board providing guidance on scientific strategy.

■ ■ ■ The Board of Directors

The members of the Institut Curie's Board of Directors have a wide range of skills and come from a variety of backgrounds guaranteeing the independence and ethical nature of the Institute's strategic choices and the rigor of its management procedures (particularly the approval of the Institute's budget and annual accounts). The President, **Professor Claude Huriot**, was reelected in 2007 for another six-year term of office.

■ ■ ■ The Scientific Advisory Board



From left to right: Prof. James Spudich, Prof. Thierry Boon-Falleur, Prof. Denis Duboule, Prof. Iain Mattaj, Prof. Nicole Le Douarin, Prof. Marc Van De Vijver, Prof. Paul Nurse, Prof. Ian F. Tannock.

The Institut Curie's Scientific Advisory Board is composed of internationally renowned researchers and cancer research center directors from around the world. It provides strategic advice on all the Institute's policy decisions and activities. The President, Nobel Prize winner **Professor Paul Nurse**, was re-elected in 2009 for another two-year term of office.

How to make a donation to the Institut Curie

As a registered charity, the Institut Curie is authorized to receive donations and legacy gifts.



At the beginning of the 20th century, several well-known figures (like the bankers Henri de Rothschild and André Lazard) helped Marie Curie to found the institute. Their descendants continue to support the Institut Curie to this day, along with 150,000 other donors.

■ Our donors' generosity is crucial for making essential progress in cancer treatment and research.

■ Become part of this wonderful chain of generosity and invest in innovation to help support the fight against cancer - a major public health issue.

To support the Institut Curie, you can:

■ donate

Contact

■ Yves Congal

Donor Relations Manager
Tel. +33 (0)1 56 24 55 66
yves.congal@curie.fr

■ make a donation

Contact

■ Isabelle Le Roi

Legacies Relations Manager
Tel. +33 (0)1 56 24 55 01
isabelle.leroi@curie.fr

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Institut Curie
26 rue d'Ulm 75248 PARIS CEDEX 05 - FRANCE



Institut Curie

An accredited charitable foundation

26 rue d'Ulm, 75248 PARIS CEDEX 05, FRANCE

Tel. +33 (0)1 56 24 55 00

www.curie.fr

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Do not litter