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Institut Curie partners with Google to advance cancer research and treatment using AI

On the occasion of the Artificial Intelligence Action Summit, Dr. Anne-Vincent Salomon, pathologist and director of the IHU Institute of Women's Cancers, welcomed Sundar Pichai, CEO of Google, to Institut Curie, to formalize a new partnership aimed at using AI to advance research for the benefit of women with breast and gynecological cancers.



Objectives of this partnership with Google:

- **Combining the world-renowned expertise of Institut Curie with Google's advanced AI capabilities** to advance research in order to better understand and treat women's cancers.
- **Contribute to prevention** by disseminating science-based, accessible, understandable and culturally relevant health information.
- **Foster collaboration with the academic community** by supporting the work of postdoctoral researchers.

A little more than 61,000 breast cancers are diagnosed each year in France. Around the world, certain gynecological cancers, such as cervical cancer, are among the most common female cancers. In order to respond to the urgency of the challenge and reduce mortality rates, it is crucial to better understand these complex diseases.

The Women's Cancer Institute, co-founded by Institut Curie, PSL University and Inserm, bring together the cutting-edge expertise of researchers, clinicians, mathematicians, bioinformaticians, sociologists, and economists. As such, it is particularly well positioned to conduct large-scale research in order to explore the origins of tumors, their evolution over time, the specific characteristics of the rarest and most complex cancers, and the associated societal issues.

"Combining our research expertise with Google's advanced technological capabilities offers hope for significant progress in our mission to improve the understanding and prediction of the evolution of cancer, and to develop more effective treatments," explains Dr. **Anne-Vincent Salomon**.

The teams of the Women's Cancer Institute will thus develop AI tools in partnership with Google **to help better diagnose cancers and predict each patient's response to treatment.**

These technologies will also be used in order to **identify new biomarkers capable of predicting which patients will be able to benefit from certain specific therapies**, especially for patients whose tumors are resistant to treatments.

Accessing the right information at the right time is a key factor when it comes to health. That's why YouTube Health and Institut Curie are working together to **be able to provide reliable information on the Institut Curie channel**. This prevention approach is part of a common

objective to fight against misinformation, raise awareness of risk factors, and increase screening and monitoring rates.

Through Google.org, the philanthropic branch of Google, funding of more than \$2 million will be granted to PSL University to accelerate scientific research applied to AI. In addition to the research partnership with the Women's Cancer Institute, the program will fund the research of postdoctoral researchers from PSL University using AI to improve the understanding and prevention of women's cancers. The initiative will also allow teams from the Women's Cancer Institute, PSL University, and Google Research to work on joint projects in order to advance state-of-the-art technologies in these fields.

The postdoctoral researchers will also benefit from the experiences and case studies shared by Google researchers under the supervision of Joelle Barral, Senior Research Director at Google DeepMind, and Cedric Denis-Rémis, Vice-President of Innovation and Entrepreneurship Development at PSL University.

"We are pleased to partner with Institut Curie, to combine their world-class research with our cutting-edge AI. Our goal is to improve outcomes for women with a number of rare and fatal cancers, in particular by identifying predictive biomarkers for certain uterine cancers, or by better predicting how breast cancer patients will respond to specific therapies. We are honored to work with Institut Curie on this topic," says **Sundar Pichai**.





About the Women's Cancer Institute

The Institut des Cancers des Femmes is an IHU (university hospital institute) accredited in 2023, founded by Institut Curie, PSL University and Inserm, with the aim of strengthening the research-care continuum by bringing together the scientific, medical and paramedical expertise of Institut Curie alongside that of the co-founders and patient associations. The Institut des Cancers des Femmes concerns all projects relating to breast and gynecological cancers, and aims to improve cancer prevention for women, cure more and more female cancer patients, and limit relapses and their impact on quality of life. The project is structured around four major pillars, with an unprecedented contribution from the human and social sciences: a better understanding of the biology of women's cancers, to better prevent and detect cancers, particularly in at-risk patients, and avoid relapses; the development of new personalized therapeutic options to reduce mortality rates, particularly in rare forms; the adaptation of cancer management to women's quality of life, and the provision of comprehensive support for patients; better training for professionals in the specific challenges of these cancers.

About Institut Curie

Institut Curie, the first French center for the fight against cancer, combines an internationally renowned research center and a state-of-the-art hospital group that takes care of all cancers, including the rarest kinds. Founded in 1909 by Marie Curie, Institut Curie has 3 sites (Paris, Saint-Cloud and Orsay) and employs more than 3,800 researchers, doctors and caregivers in its 3 missions: care, research and teaching. Institut Curie is a charitable foundation authorized to receive donations and bequests. Thanks to the support of its donors, Institut Curie is able to speed up discoveries, thereby improving treatments and the quality of life of patients. To learn more: [curie.fr](https://www.curie.fr), [Facebook](#), [LinkedIn](#), [Instagram](#), [BlueSky](#)

Institut Curie has been certified as "Institut Carnot Curie Cancer" since 2011. The Carnot certification is a recognition of excellence awarded to academic research organizations who demonstrated high quality and involvement in partnership research. Curie Cancer offers industrial partners to set up research collaborations using the expertise of the Institut Curie's research teams to develop innovative therapeutic solutions against cancer, from therapeutic target to clinical approval. The Carnot Curie Cancer Institute is a member of the Carnot FINDMED network, which brings together thirteen Carnot institutes, in order to facilitate access to their technological platforms and their innovations for VSES and SMEs in the pharmaceutical industry. To learn more: <http://www.instituts-carnot.eu/fr/institut-carnot/curie-cancer> - <https://findmed.fr>

About PSL

Université PSL brings together all areas of knowledge, innovation and creation in the sciences, humanities and social sciences, engineering and the arts. Selective and committed to equal opportunity, it trains researchers, artists, entrepreneurs and leaders keenly aware of their individual and collective social responsibilities. With 2,900 teacher-researchers, 17,000 students, 140 laboratories and a dozen incubators, fablabs and coworking spaces, PSL is a university on a human scale. It ranks among the world's top 50 universities in the Shanghai, THE (Times Higher Education), CWUR and QS (Quacquarelli Symonds) rankings, and is ranked 1st among universities with under 50 years of age in THE's Young ranking. PSL University: Conservatoire National Supérieur d'Art dramatique – PSL, Dauphine – PSL, École nationale des chartes – PSL, École nationale supérieure de Chimie de Paris - PSL École normale supérieure – PSL, École pratique des hautes études – PSL, ESPCI Paris: – PSL, Mines Paris: – PSL, Observatoire de Paris: – PSL, Collège de France, Institut Curie, CNRS, Inserm, Inria. To learn more: <https://psl.eu/>

About Inserm

Inserm is the only French public research organization entirely dedicated to health. Our goal: to advance knowledge about living things and diseases and develop innovation to improve the health of everyone. To learn more: <https://www.inserm.fr/>

Press contacts :

Catherine GOUPILLON-SENGHOR - 06 13 91 63 63- catherine.goupillon@curie.fr

Elsa CHAMPION - 07 64 43 09 28 - elsa.champion@curie.fr