

**Hitachi and Centre Léon Bérard cancer center in Lyon to launch a research collaboration in the fight against cancer with AI**

**Lyon, France, 6 November, 2019** --- Hitachi, Ltd. (TSE:6501, “Hitachi”) and Centre Léon Bérard (CLB), a leading French Comprehensive Cancer Center in Lyon-France, announced today that they have entered into an agreement to jointly promote research and development aimed at improving the efficiency of diagnosis and treatment of cancer and established a new research laboratory called Hitachi Lyon Lab on the CLB site, starting November 5th.

In this collaboration, Hitachi and CLB will conduct research and development of novel technologies to detect and diagnose cancers exploiting medical images such as CT/MRI using artificial intelligence (AI) and to predict response to radiation therapy using tumor genomic and transcriptomic data.

According to statistics from the Organization for Economic Co-operation and Development (OECD), Japan has the largest number of CTs and MRIs per million people. With the improvements of diagnostic imaging equipment, the number of images read by radiologists is increasing, and technologies that reduce the burden on radiologists using artificial intelligence are being actively developed. In addition, as a result of dramatic progress in gene analysis technology in recent years, it has become possible to analyse individual genome information at low cost, and personalized medicine that provides medical care suitable for each individual has been a key concern mainly in developed countries.

Hitachi provides solutions that improve the quality and efficiency of medical care, from diagnostic/clinical fields such as diagnostic imaging equipment and particle therapy systems to informatics fields such as IT and AI. In addition, Hitachi has been contributing to maintaining and improving people’s quality of life by delivering particle therapy systems to a number of world-renowned hospitals, where more than 60,000 people have been treated with Hitachi’s systems so far.

CLB is a Comprehensive Cancer Center in Lyon - Auvergne-Rhône-Alpes region, France, whose missions are care, research and education. It is affiliated to UNICANCER, the French Comprehensive Cancer Centers federation, counting twenty other cancer centers. CLB provides state-of-the-art diagnosis and treatment for cancer patients such as innovative therapies and radiation therapy. Images, as well as molecular data from tumors, are collected and stored overtime for research purpose, upon consent from patients.

Hitachi and CLB will conduct joint research at Hitachi Lyon Lab to improve the efficiency of diagnosis and treatment of cancer, by combining CLB's clinical expertise and patient data related to cancer treatment with Hitachi's know-how in diagnostic imaging and IT/AI. Specifically, they will jointly develop diagnostic imaging technologies to detect potential cancer sites and assist radiologists' diagnosis from image data such as CT and MRI using AI. Identification of biomarkers exploiting genomic data in the context of resistance will allow to predict responses and prognoses upon radiation treatment.

Hitachi will continue to accelerate global R&D with advanced medical institutions and universities in the healthcare field, and will work with partners in joint research to create new value and contribute to improving the quality and efficiency of care.

**About Hitachi, Ltd.**

Hitachi, Ltd. (TSE: 6501), headquartered in Tokyo, Japan, is focusing on Social Innovation Business combining its operational technology, information technology and products. The company's consolidated revenues for fiscal 2018 (ended March 31, 2019) totaled 9,480.6 billion yen (\$85.4 billion), and the company has approximately 296,000 employees worldwide. Hitachi delivers digital solutions utilizing Lumada in five sectors including Mobility, Smart Life, Industry, Energy and IT, to increase our customer's social, environmental and economic value. For more information on Hitachi, please visit the company's website at <https://www.hitachi.com>.

**About Hitachi Medical Systems Europe**

Hitachi Healthcare in Europe is represented by Hitachi Medical Systems Europe Holding AG, Zug, Switzerland. The company is a first-choice supplier of open and powerful high-field MRI systems, multi-slice CT systems as well as medical ultrasound, endoscopic and optical topography systems. Ultrasound expertise encompasses clinical applications such as radiology, cardiology, internal medicine, obstetrics/gynecology, gastroenterology, urology and surgery. Hitachi Medical Systems Europe offers a complete range of solutions to address a wide range of medical challenges. For more information about Hitachi Medical Systems Europe Holding AG. For more information, please visit <http://www.hitachi-medical-systems.eu>.

### **About Centre Léon Bérard**

The Centre Léon Bérard (CLB) is part of the twenty French Comprehensive Cancer Centres in France, providing a global management of cancer patients on a unique area, from diagnosis to treatment and beyond. The Centre is a regional, national and international recognized reference cancer Centre assigned with three essential missions: Care, Research and Education, in constant pursuit to improve the quality and accessibility of innovative care for cancer patients.

<http://www.centreleonberard.fr/>

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Information contained in this news release is current as of the date of the press announcement, but may be subject to change without prior notice.

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