

STEM RESEARCH FOR CANCER

Science, Technology, Engineering & Mathematics

The University of Cambridge conducts world-leading research in Science, Technology, Engineering and Mathematics (STEM) that could be applied to enable earlier detection of cancer and improve patient outcomes. The aim of these infographics is to increase awareness of the STEM strengths and capabilities to stimulate new collaborations between clinicians and STEM researchers.



CANCER RESEARCH UK

CAMBRIDGE CENTRE

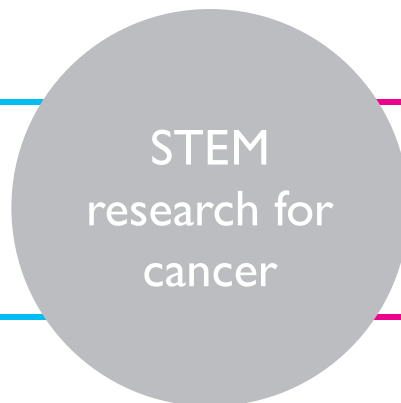
Technology & tools



SENSING & DETECTION



IMAGING & ANALYSIS



STEM research for cancer

Biological insight



CELLS & PROTEINS



CELLULAR MICRO-ENVIRONMENT



STEM infographics

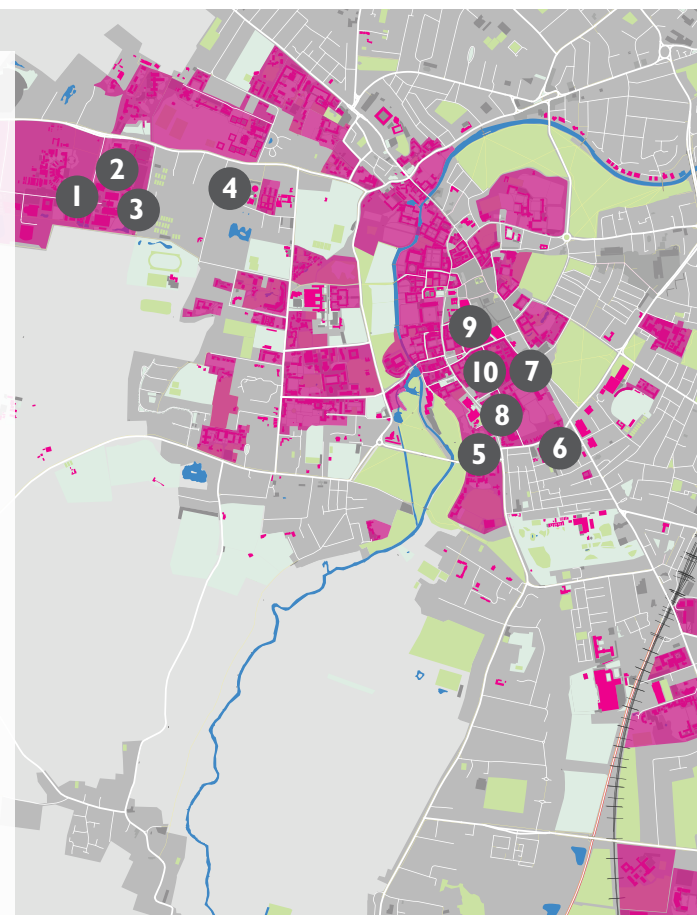
These infographics give an introduction to key STEM capabilities that could be applied in early detection of cancer and highlight examples of a number of exciting projects that are already underway. Individual infographics focus on Biological Insight, Technology & Tools and their potential for clinical application. One aim of these infographics is to connect clinicians and researchers on the Cambridge Biomedical Campus with STEM

scientists working within the University. The work of a number of research groups within several University departments is described. The research groups represented are multi-disciplinary in nature and typically include biologists and biochemists as well as STEM researchers. Research is focused on answering a number of fundamental biological questions through the application of innovative technologies and tools with the aim of satisfying unmet clinical needs.



University STEM departments*

- 1 Department of Physics - Cavendish Laboratory & Physics of Medicine
- 2 Department of Engineering - Electrical Engineering Division
- 3 The Nanoscience Centre
- 4 Faculty of Mathematics
- 5 Department of Engineering - Main Department
- 6 Department of Chemistry
- 7 Department of Physiology, Development and Neuroscience (PDN) including Cambridge Advanced Imaging Centre (CAIC)
- 8 Cambridge Stem Cell Institute
- 9 Department of Chemical Engineering and Biotechnology (CEB)
- 10 Department of Biochemistry



*Science in STEM here refers to the physical sciences; hence Radiology and some biological departments do not appear.

To discuss opportunities contact EDadmin@hermes.cam.ac.uk