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# Cancer and Light: How optical sciences and engineering impact cancer research and patient care

*Wednesday 9 June 2021 11:00 (30 minutes)*

The multiple interactions of light with biomolecules, cells and tissues enable established and emerging techniques and technologies used in cancer research and patient care. These approaches range from simple, point-of-care devices to complex, multifunctional platforms combined with complementary non-optical methods, including nanotechnologies, robotics, bioinformatics and machine learning. This seminar will use specific examples from current research to illustrate the biophysical and biological principles underlying the emerging fields of "onco-photonics"or "photo-oncology".

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