

Dr. David Jaffray

Executive Vice President, Technology and Innovation at University Health Network

Toronto, ON, CA

Focusing on the development of novel approaches of targeting & applying radiation therapy & translating these advances to clinical practice

Description

Following graduation, Dr. Jaffray took a position as staff physicist in the Department of Radiation Oncology at William Beaumont Hospital, Royal Oak, Michigan, where he instigated a direction of research that garnered funding from the National Institutes of Health (NIH) and from congressionally directed funding programs. Dr. Jaffray became a Board Certified Medical Physicist (ABMP – Radiation Oncology) in 1999. In 2002, Dr. Jaffray joined the Princess Margaret Hospital as Head of Radiation Physics and a Senior Scientist within the Ontario Cancer Institute. He holds the Fidani Chair in Radiation Physics and is a principal in the STTARR Innovation Centre and Guided Therapeutics (GTx) Group of the University Health Network. He is the interim director of the recently established Institute of Health Technology Development at the University Health Network. He is a professor in the Departments of Radiation Oncology, Medical Biophysics, and Institute for Biomaterials and Biomedical Engineering at the University of Toronto.

Dr. Jaffray's primary area of research over the past 10 years has been the development and application of image-guided radiation therapy. He has over 5 patents issued and several licensed, including kilovoltage cone-beam computed tomography for image-guided radiation therapy. Dr. Jaffray has in excess of 120 peer-reviewed publications in the field, in excess of 100 invited lectures, and holds numerous peer-review and industry sponsored research grants. He sits on numerous scientific and research boards and has contributed to the NIH and CIHR grant review process for several years. He is a member at large of the Science Council of the American Association of Physicists in Medicine and has an active teaching role in workshops and annual meetings of the American Society of Therapeutic Radiation Oncology. He has an active interest in commercialization and led the development of a variety of commercial products, including software and hardware for quality assurance and the development of small-animal irradiator systems for basic research. He has successfully supervised over 20 graduate students and fellows. Dr. Jaffray has won each of the major prizes in the field of medical physics, including the Sylvia Sorkin-Greenfield Award, the Farrington Daniels and the Sylvia Fedoruk Award. In 2004, Dr. Jaffray was identified as one of Canada's Top 40 Under 40 and was recognized by the University of Western Ontario with its Young Alumni Award in 2004.

Industry Expertise

Health and Wellness, Research, Health Care - Services, Health Care - Providers

Topics

Radiation Physics, Staarr Facility, Technology Transfer, Image-Guidance, Radiation Therapy, Cone-Beam Ct, X-Ray Imaging

Affiliations

Head, Radiation Physics Department, Princess Margaret Hospital, University Health Network , Director, Techna Institute, University Health Network, Fidani Chair in Radiation Therapy Physics, University of Toronto, Senior Scientist, Ontario Cancer Institute, Vice Chair and Professor, Departments of Radiation Oncology and Medical Biophysics, University of Toronto

Education

University of Alberta
BSc Physics

University of Western Ontario
PhD Department of Medical Biophysics

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