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## IN VIVO DOSIMETRY FOR BRACHYTHERAPY

Within the last three decades, a lot of interest focused on the development of plastic scintillators as new detectors for clinical applications for radiation therapy. During the period of 1990-2000, following the thesis work of Beddar [1], most of the studies focused on a further and deeper characterization of these new detectors, including optical light guides and the mechanisms of the light generated in these media. Between 2010-2020, the interest shifted to refining the designs of these detectors for specific application geared towards radiotherapy treatment machine calibrations, small field dosimetry, low and high dose rate brachytherapy and small field dosimetry. During this decade, studies using scintillators focused on in vivo dosimetry and this seminar will present some of the work using these detectors for brachytherapy.