



Contribution ID: 247

Type: **oral (invited speaker)**

Cancer Stem Cells in Radiation Oncology: From Biology to the Patient

Friday, 19 October 2012 11:00 (30 minutes)

The field of cancer stem cell biology has a very short steep career from its infancy into the stage of clinical impact. Radiation oncologists are among the first to have recognised the importance of this field linking locoregional control with effective treatment of cancer stem cells with radiation. Better understanding of cancer stem cell biology in solid tumours is hypothesised to lead to a higher proportion of curative treatments. The challenges of the cancer stem cell concepts and current hot topics, e.g. phenotypic plasticity of stemness and impact and dynamics of microenvironmental niches will be discussed. This will be taken to project the pathway for future applications of stem cell biology and clinic.

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Session Classification: Stem Cells Radiobiology

Track Classification: Stem Cells Radiobiology