

MICROS 2013

...on the tracks to biological effects...

16th International Symposium on Microdosimetry

*An Interdisciplinary Meeting on
Ionising Radiation Quality, Molecular Mechanisms,
Cellular Effects, and Their Consequences for
Low Level Risk Assessment and Radiation Therapy*

**October 20-25, 2013
Treviso – Italy**



Treviso, Palazzo dei Trecento, Piazza dei Signori - Amore e Psiche stanti, A. Canova – plaster cast - Susegana-Treviso

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Continuing in the spirit of its successful previous editions, the Symposium is intended to provide an exciting forum for scientists of different disciplines to exchange and discuss recent data and findings on relevant basic physical and biological mechanisms of radiation action and their consequences for risk assessment on Earth and in Space and for radiation therapy, including proton and carbon ion therapy.

Presentations and intensive interdisciplinary discussions of progress in radiation physics, radiation chemistry, molecular and cellular biology, modelling and radiation carcinogenesis and epidemiology are expected.

The Symposium will provide an opportunity to discuss the current status of topical low-dose non-linear phenomena, such as non-targeted and delayed effects, including radiation-induced bystander effects, genomic instability, adaptive response and hyper-radiosensitivity.

Emphasis will be laid on the recent technical developments in radiation detection, in particular in micro- and nano-dosimeters, as well as on novel irradiation techniques, in particular on the current state of the art of microbeam technology for single cell irradiation and of its biological applications.

Importance will also be given to reviewing the progress made in modelling the multi-step process of radiation induced cancer and its application to epidemiological data, in particular for the better quantification of low dose and low dose rate risk.

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