

9th International LOWRAD Conference
**“The Effects of Low Doses and Very Low Doses of
Ionizing Radiation on Human Health and Biotopes”**
13 - 15 December 2010, Barcelona, Spain

www.lowrad.org
www.marie-curie-prize.org

CALL FOR PAPERS

ORGANIZED BY

Escola Universitària d'Enginyeria Tècnica Industrial de Barcelona
WONUC- España
Low Radiation International Network
World Council of Nuclear Workers

Dear Sirs,

On the behalf of the organizing committee of the 9th LOWRAD International Conference on “The Effects of Low and Very Low Doses of Ionizing Radiation on Human Health and Biotopes”, which will be held in Barcelona, Spain, from 13-15 December 2010, I cordially invite you to take part of the most important International Conference dedicated to low doses of ionizing radiation. Let's visit the website: www.lowrad.org or www.marie-curie-prize.org for many more information about abstract submission, attending conditions, lodging and social program.

We be looking forward to seeing you in Barcelona.

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Pr. Carmel Mothersill (Canada)

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[e-mail:lowrad2010@wonucspain.org](mailto:lowrad2010@wonucspain.org)

MAIN TOPICS

- Adaptive response
- Biological effect of environmental and extraterrestrial UV radiation
- Biomarkers of low dose exposure
- Bystander effects
- Cell cycle control and apoptosis
- Childhood radiation exposure
- Charge migration in DNA/Proteins
- Computer simulation and modelling for low dose radiation risk
- Delayed and epigenetic effects of ionising radiations
- Long term effects of radiation of the medical application of radiation
- Low dose effects, protracted dose effects
- Microdosimetry and nanodosimetry
- Microenvironment modulation of radiation response
- Micro-array and proteomic analysis
- Models for radiation induced carcinogenesis
- Models for estimation of radiation risk
- Modification of radiation effects on mammalian tissues
- Molecular biophysical approaches of radiation effects
- Molecular and cellular responses
- Mutagenesis, carcinogenesis
- Novel biomarkers for population screening in low dose exposures
- Non genotoxic effects of radiation and degenerative diseases
- Non-targeted effects of ionising radiation
- Occupational and environmental low dose and protracted exposure
- Origin of chromosome aberration formation with low- and high-LET radiation
- Oxygen effect revisited: ROS–antioxidants–hypoxia–O2 effect–radiosensitiser – NO
- Photo-dermatology, photo-carcinogenesis
- Radiation carcinogenesis
- Radiation effects on non-human biota
- Radiation epidemiology
- Radiation Induced Bystander Effects, Adaptive Response, and Genomic Instability
- Radiation-induced inter- and intracellular signalling
- Radiation risk and its significance in the total risk structure
- Radiation-induced clustered DNA damage; biological relevance
- Radiation protection
- Radiation physics and chemistry
- Radiation quality: differences and similarities
- Radioecology and dosimetry of biota
- Radioprotectors and radiosensitizers
- Radon exposure and remediation
- Repair of radiation induced DNA double strand breaks in cells, repair pathways, new aspects
- Residue management
- DNA repair and misrepair after irradiation, Signal transduction
- DNA repair and mutagenesis
- Epidemiology
- Genetic susceptibility
- Genomic and/or chromosomal instability
- Bystander effects and adaptive response-mechanisms
- Hormesis and adaptive response
- Hyperthermia
- Impact of dose rate on radiation effects
- Immunological effects of radiation
- Signalling and DSB repair
- Stem cells and radiation
- Threshold approaches: praises and critics
- Tumor angiogenesis, cytokines, chemokines
- Validity of the linear non-threshold model
- Use of probes to detect DNA damage processing in cells
- UV-irradiation and nucleotide excision repair
- Validity of the linear – non-threshold model
- Dosimetric aspects of high and low LET radiation energy deposition
- On the intrinsic radiation sensitivity of stem cells and tissues
- Cellular signalling and Low dose and low dose rate effects
- Induction of secondary cancers by ionizing radiation
- Detection and genotoxic consequences of complex radiation damage
- Oxidative metabolism and the radiation response
- The microenvironment and tissue responses to radiation
- The bridge between radiobiology and epidemiology in predicting health risks
- Radioecology
- Water radiolysis: simulations towards understanding biological responses
- DNA repair signalling: cross talk between survival and repair pathways
- Non cancer effects
- Role of the microenvironment in tissue/tumor response to irradiation: Inflammation/Stroma
- Cell cycle modulation for radiosensitization
- Cell adhesion/migration in response to irradiation
- Chromatin modifications and DNA damage response
- Stem cell biology: relevance for radiation response of normal and tumor tissue
- Autophagy: a double-edged sword in cellular radiation response; The relative roles of autophagy, apoptosis, necrosis, and senescence in the radiation response of normal tissues and tumours: dependence on dose, dose protraction, mutations.

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**Abstract Submission to
lowrad2010@wonucspain.org**

Deadline: October 31st 2010 - Notification of Acceptance: November 15th 2010

Abstract Instructions

Maximum 400 word text in English, Word document format, Times New Roman font size 12

Organize abstract by paragraphs: Objectives, Methods, Results and Conclusions

Title, authors' names and affiliation

Authors' names (first initial and last name) separated by commas; Underline presenting author

Affiliation address, phone, fax and E-mail.

Accepted authors should register for conference attendance.

Selected papers will be published by the International Journal of Low Radiation, a SCI indexed publication

REGISTRATION FEE

Delegates : Eur 470

Students : Eur 220

Accompanying person : Eur 250

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For more information:

Dr Joan Martínez Sánchez

Escola Universitària d'Enginyeria

Tècnica Industrial de Barcelona

Universitat Politècnica de Catalunya

Comte d'Urgell, 187

lowrad2010@wonucspain.org