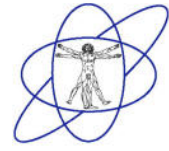




7th International Meeting on the
Effects of Low Doses of Radiation in Biological
Systems: New Perspectives on Human Exposure



LOWRAD

LOWRAD 2008

LISBON, NOVEMBER 27-29, 2008

Preliminary Oral Presentation

Session 1 - Population Based Studies

Plenary lecture:

Ludwig E. Feinendegen *Systems Biology applied to Radiobiology in Low-Dose Risk Assessment*

Oral presentations:

- O1.1** *Lung cancer risk at low exposures and low exposure rates among Czech uranium miners, L. Tomasek.*
- O1.2** *Therapeutic administration of ¹³¹I for differentiated thyroid cancer, radiation dose to ovaries and outcome of pregnancies, Jérôme-Philippe Garsi, Martin Schlumberger, Carole Rubino, Marcel Ricard, Martine Labbé, Claudia Ceccarelli, Claire Schvartz, Michel Henri-Amar, Stéphane Bardet, Florent de Vathaire.*
- O1.3** *Implementing Fuzzy Algebra for Uncertainty Analysis in Epidemiology, D. Datta and H.S. Kushwaha.*
- O1.4** *Biological Monitoring of Chromosomal Damage in Subjects Occupationally Exposed to Low Levels of Ionizing Radiation using Cytokinesis-Blocked Micronucleus Assay, Wanwisa Sudprasert, Amornrat Jungtanasombut and Pannee Pakkong.*
- O1.5** *Cytogenetic and Epidemiologic Effects in Liquidators the Accident at Chernobyl NPP, E.A.Domina, M.V. Domina.*
- O1.6** *Influence of XRCC1 polymorphisms on the Frequencies of Spontaneous and Radiation-induced Chromosome Aberrations in Peripheral Blood Lymphocytes, F. Gil, A. Dias, H. Louro, O. Monteiro-Gil, P. Painço, T. Teixeira, C. Sousa, P. Costa, M.G. Boavida, M.J. Silva.*

Session 2 - Radiation Protection

Plenary lecture:

Oral presentations:

- O2.1** *Concentration of ¹³⁷Cs in the seawater and marine biota collected from the near shore environment of Kudankulam Coast, Gulf of Mannar, India, S.Godwin Wesley, M. Feroz Khan, M. Kumar, Y. Lenin Raj, and E.Mahiban Ross.*
- O2.2** *Performance Assessment of a Nuclear Waste Repository Using Fuzzy Measure, D. Datta and H.S. Kushwaha*
- O2.3** *The Level of Doses Due to Unnecessary Irradiation of Tissues and Organs Outside the Target Volume During Common Radiotherapeutic Procedures, Ibrahima Diallo, Iannis Alziar, Nathalie Perret, André Bridier, Guillaume Bonniaud, Jean Chavaudra, Jean-Bernard Ruaud, Valérie Rousseau, Hanna Kafrouni, Dimitri Lefkopoulos, Florent de Vathaire.*
- O2.4**
- O2.5** *Implementation of the ICRP 2007 Recommendations in Korea, Kun-Woo Cho*
- O2.6** *Evolutionary Perspectives of Low Level Radiation Exposure with Special References to Neutral Theory, A.L. Bhatia.*
- O2.7** *Short-term Radon Inhalation Induces a Significant Survival Adaptive Response in Balb/c Mice, S.M.J. Mortazavi, M.A. Mosleh-Shirazi, S. Mehdizadeh, M.S. Rouintan, J. Ebrahimi, M. Tamaddon and M. Koshnevis.*

Session 3 - Biomolecular studies

Plenary lecture:

Carmel Mothersill

Oral presentations:

- O3.1** *Unusual cellular effects of small doses of radiation: a massive, persisting, dose-independent increase of yield of ultrastructural pathology in the rat nephrocyte population, R.F.Fedortseva, R.P. Stepanov, O.V. Kirik, and I.B. Bychkovskaya.*
- O3.2** *Low doses of amifostine protect from chromosomal inversions in spleen in vivo when administered after an occupationally relevant X-radiation dose, P. Sykes, A. Hooker, D. Grdina, J. Murley, B. Blyth, E. Bezak, K. Giam, R. Ormsby.*
- O3.3** *Bystander Signalling In Vivo: Rising above the noise, B. Blyth, R. Ormsby, A. Staudacher and P. Sykes.*
- O3.4** *The Problem of the Transgenerational Phenomenon of Genomic Instability in Children with Different Diseases after the Chernobyl Accident, I. Suskov, A. Aghajanyan, N. Kuzmina, L. Tskhovrebova.*
- O3.5** *Bystander Factors from Blood Samples of Chernobyl Victims Induce Damage In In Vitro Cell*

Culture, **P. Marozik**, I. Mosse, C. Seymour, C. Mothersill.

- O3.6** *Modification of Radiosensitivity By 6-Pamitoyl-Ascorbic Acid-2-Glucoside and Its Silver Nanoparticle Complex*, **C.K.K. Nair**, K.C. Dhanya, P.K.Khanna, T.V. Kagiya.
- O3.7** *Intercellular communication and signaling in low-dose radiation hypersensitivity*, **Sudhir Chandna**, Priyadarshini Srivastava and Sadaf Bashir.
- O3.8** *Delayed apoptosis is induced by extremely low doses of X-radiation in vivo*, **A Staudacher**, B Blyth, R Ormsby, G Bauer, P Sykes.
- O3.9** *In Vivo Skin Response After low Dose of 14 MeV Neutron Irradiation*, **R. Amendola**, E. Fratini, M. Piscitelli, D. E. Sallustio, M. Angelone, E. Pasquali, M. Pillon, F. Chiani, V. Licursi, M. T. Mancuso, R. Negri.
- O3.10** *Transcriptional Modulation by X Rays and Neutron Irradiated Human Huvec Endothelial Cells*. F. Chiani, C. Iannone, V. Lanza and **R. Negri**.
- O3.11** *Radiation-Induced Bystander Response of the Human Epithelial Cell Line Hacat by Using Medium Transfer and Co-Culture Conditions*, Maria Balduzzi, Silvia Paradisi, Andrea Matteucci, **Anna Giovanetti**.

Session 4 - Computational Modeling

Plenary lecture:

Hooshang Nikjoo and *Spectra of DNA damage induced by ionising radiations*
Ritsuko Watanabe

Oral presentations:

- O4.1** *Evaluation of Dose to the Fetus in Pregnant Women Undergoing Diagnostic Radiology Using Mcnp4c Monte Carlo Code and TI Dosimetry*, **S. Mehdizadeh**, R. Faghihi, M. Zehtabian, S. Sina, S. Derakhshan, M. Nili.
- O4.2** *The Physical Meaning of Low Dose and Their Importance in Radiobiology*, **A. D. Oliveira**
- O4.3** *Analysis of Shape of Dose Response Curves for Radiation-induced Tumors at Different Dose-Rates*, **H. Tanooka**.
- O4.4** *Estimation of the Radiation Induced Cancer Risk and the Linear Non-Threshold Model*, I.L.Shafransky, **A.R.Tukov**.
- O4.5** *Dose and Risk Evaluation in Intra-Oral Radiography Using Female and Male Voxel Phantoms*, **Edmilson M. de Souza**, Samanda C. A. Correa, Marco A. F. Lima, Ademir X. Silva, Alphonse G. A. C. Kelecom.
- O4.6** *U-shaped Dose-Responses at Low Doses: Explanation with a New Model for in vitro Neoplastic Transformation*, **H. Schöllnberger**, R. Mitchel.
- O4.7** *A System Biology Approach to Radiation Effects as Molecular Models for Pathophysiology and Diseases Pathways*, **S. Volovyk**, D. Bazyka, K. Loganovsky, V. Bebesko.

- O4.8** *Development of a Complex Mechanistic Radon Induced Lung Cancer Risk Model*, **I. Balásházy**,
Á. Farkas, I. Szőke, W. Hofmann, B.G. Madas.

Session 5 -Non genetic effect

Plenary lecture:

Oral presentations:

- O5.1** *Radiation-induced Cardiovascular Disease*, **S. Tapio**.
- O5.2** *Cardiovascular Diseases Mortality Following Cancer During Childhood: Long Term Risk, Role of Chemotherapy and of Radiation Dose to Heart and Brain*, Markhaba Tukenova, Catherine Guibout, Odile Oberlin, Françoise Doyon, Abdedaid Moussannif, Nadia Haddy, Hélène Pacquement, Mike Hawkins, Dave Winter, Jean Bourhis, Dimitry Lefkopoulos, Ibrahima Diallo, **Florent de Vathaire**.
- O5.3** *Radiation response modification approaches*, **R.Georgieva**.
- O5.4** *Hormetic and Adaptive Perspectives of Low Level Tritium Exposure: Neuromotor Observations*, **A.L. Bhatia**
- O5.5** *Vascular Alterations Studies in Irradiated Heart of Wistar Rats*, **A. Ribeiro**, C. Andrade, A. Nascimento, V. da Silva, N. Tuler, F. dos Passos, R. Siqueira, C. Mandarim-de-Lacerda, J. de Carvalho, C. E. de Almeida.