

Detailed Program

Wednesday, August 25, 2004

9.00-18.00 Registration

14.00-14.15 Opening Ceremony, Welcome Address **Lecture Hall**

14.15-14.55 Jenő Ernst Award Lecture; G. Köteles: Through the hills and valleys of radiobiology in Hungary **Lecture Hall**

14.55-15.15 Coffee Break *Hall*

15.15-17.25 Radiation protection and radiobiology of human and non-human biota **Lecture Hall**

Chairpersons: C. Seymour, S. Pellet

15.15-15.35 C. Mothersill and C. Seymour: Implications of radiation-induced bystander effects and other non-targeted radiation effects for protection of non-human biota and for regulation of multi pollutant environmental exposures

15.35-15.55 S. Salomaa: Non-targeted effects of ionizing radiation - implications for radiation protection

15.55-16.10 S. Sundell-Bergman, K.J. Johanson, C.-M. Larsson: The problem of defining weighting factors for the absorbed dose to biota in view of non-targeted effects

16.10-16.25 Dublineau I., Grison S., Baudelin C., Dudoignon N., Linard C., Souidi M., Marquette C. and Aigueperse J.: Short-term effects of uranium on mucosal immunity in rat intestine

- 16.25-16.40 G. Diósi, I.B. Beech, A. Al-Adawi, V. Zinkevich, Gy. Farkas, L.G. Gázsó: Detection and examination of bacterial biofilms and their effect on the materials of nuclear waste containers
- 16.40-16.55 V.A. Sushko, V.P. Tereshchenko, L.I. Shvayko, T.P. Segeda, and A.S. Riazhska: Radiation-induced pathomorphosys of COPD in liquidations of Chernobyl catastrophe
- 16.55-17.10 C. Fournier, M. Heiss, M. Scholz, S. Ritter and G. Taucher-Scholz: Studies on the cellular bystander response after exposure to low fluences of heavy ions
- 17.10-17.25 O.V. Syvak, D.I. Gudkov, A.B. Nazarov: Chromosome aberrations in cells of the snail (*limnea stagnalis* L.) embryos form water bodies within the Chernobyl NPP exclusion zone

15.15-17.25 Radiobiology for ion beam radiotherapy

Room B

Chairperson: G. Kraft, K. Ando

- 15.15-15.35 G. Kraft, M. Kromer, M. Scholz, W.K. Weyrather: Radiobiology for ion beam therapy
- 15.35-15.55 G. Simone, F. Antonelli, M. Belli, V. Dini, G. Esposito, E. Sorrentino, M.A. Tabocchini: Phosphorylation of histone H2AX in human cells after exposure to γ -rays and carbon ions
- 15.55-16.15 M. Müller, W.K. Weyrather, D. Schardt: Proton RBE at low energies
- 16.15-16.30 M.R. Edgren, A.E. Meijer, A.R.M. Jernberg, S.A. Holgersson, L.M. Persson, T. Heiden and B.K. Lind: Decreased difference in radiosensitivity between different human cell lines after exposure to high LET radiation
- 16.30-16.45 S. Ritter, L. Melnikova, M. Winter, E. Nasonova, S. Berger, C. Fournier: Relationship between cell cycle arrest and aberration yield in normal human fibroblasts after X-ray and C-ion exposure

- 16.45-17.05 A.E. Meijer, C. Glackner, J. Bodennec, C. Rodriguez-Lafrasse, S. Czene and M.R. Edgren: Different molecular pathways for apoptosis in cells exposed to high and low LET radiation
- 17.05-17.25 K. Ando, T. Kanai, N. Matsufuji, Y. furusawa, M. Aoki, J. Mizoe and H. Tsujii: Experimental and clinical biology of carbon-ion therapy at HIMAC; an overview

17.25-19.25 Cell cycle control and apoptosis

Lecture Hall

Chairpersons: A. Almasan, E.J. Hídvégi

- 17.25-17.50 Y. Hong and P.J. Stambrook: DNA damage, cell cycle control and apoptosis in somatic cells and ES cells: Evolutionary implications.
- 17.50-18.10 S. Mazumder, E. Dupree, M. Kintner, and A. Almasan: Proteolytic cleavage of cyclin E during apoptosis reveals a p18-kD derivative fragment that binds to Ku70 and releases Bax to induce apoptosis
- 18.10-18.25 J.-P. Truman, Liao W-C., Ehleiter D., Kolesnick R., Lavin M., Leibel S., Fuks Z. and A. Haimovitz-Friedman: Transcriptional down-regulation of ataxia-telangiectasia mutated protein (ATM) radiosensitizes human prostate cancer cells
- 18.25-18.40 Y. Fujiwara, Q.L. Zhao, T. Kondo: Role of Bax/VDAC1 interaction in ir-induced apoptosis
- 18.40-18.55 K.L.A. Burr, A.G. Smith and Y.E. Dubrova: Germline mutation rates at ESTR loci in P53 deficient mice
- 18.55-19.10 C. Linard, O. Gremy, M. Benderitter: Inflammatory events after gamma-irradiation: pivotal role of PPARS
- 19.10-19.25 L. de Saint-Georges, J. Verheyde, A. Benomante and M. Megeay: Radiation induced apoptosis in the E15 day embryonic mouse brain

17.25-19.25 Radiation and cancer: epidemiology, molecular carcinogenesis
Room B

Chairpersons: A. Páldy, R.R. Wick

- 17.25-17.40 Páldy A., Nádor G., Török Sz., Borgulya G., Jakab Zs.: Space and time cluster analysis of morbidity from childhood leukaemia in Hungary
- 17.40-17.55 Török Sz., Borgulya G., Lobmayer P., Jakab Zs.: Childhood leukaemia incidence in Hungary. Impact of the Chernobyl accident
- 17.55-18.10 Bezdrobna L.K., Tsyganok T.V., Klimkina L.A., Tarasenko L.V., Romanova O.P.: Cytogenetic effects in blood lymphocytes of people residing or working in Chernobyl NPP exclusion zone
- 18.10-18.25 R.R. Wick, E.A. Nekolla, W. Gessner: Risk of somatic late effects in humans after therapeutical injection of the short-lived α -emitter radium-224
- 18.25-18.40 L. Hieber, K. Unger, C. Peddie, C.V. Briscoe, L. Gray, A. Riches, H. Zitzelsberger: Identification of candidate genes in radiation-transformed human breast epithelial cells (B42) by positional cloning
- 18.40-18.55 A. Saran, M.T. Mancuso, S. Pazzaglia, M. Tanori, S. Leonardi, S. Rebessi, V. Di Majo, V. Covelli: Multistep model for radiation induced BCC tumorigenesis in Ptch1^{neo67/+} heterozygous mice
- 18.55-19.10 Novakova P., Dörr W.: Effects of irradiation with 25 kV or 200 kV X-rays in mammary epithelial cells 184A1
- 19.10-19.25 L. Manti, G.A.P. Cirrone, M. Durante, G. Gialanella, G. Grossi, M. Lattuada, P. Scampoli, M.G. Pugliese, M.G. Sabini, L. Valastro: No effect of modelled microgravity on the chromosome aberration dose-response curve following low-LET irradiation

19.30 Welcome Reception

Hotel Agro

Thursday, August 26, 2004

09.00-11.00 EULEP WP4 Workshop: Latent times to deterministic late effects after radiation exposure **Room A**

Chairpersons: W. Dörr, A. Van der Kogel

09.00-09.20 W. Dörr: Introduction: Validity of the latent time concept

09.20-10.05 H. Jung: Probability for late normal tissue reactions

10.05-10.50 M. Rezvani: Dose dependence of latent times after radiotherapy

09.00-11.00 Radiation emergency medical preparedness and response **Room B**

Chairpersons: I. Turai, G. Wagemaker

09.00-09.25 G. Wagemaker: Radiation emergency medical diagnosis and treatment entering the post-genomics era

09.25-09.40 T.J. MacVittie and A.M. Farese: Defining the full potential of supportive care and cytokine therapy in the post radiation accident environment

09.40-09.55 T. Grande and J.A. Bueren: New approaches to predict the severity of the hematopoietic syndrome after acute irradiation

09.55-10.10 M. Benderitter, A. Van der Meeren, V. Holler, M.H. Gaugler, N. Griffiths and D. Thierry: Contribution of the vasculature response to the acute radiation syndrome: possible therapeutic window

10.10-10.25 J. Lamartine, N. Franco, G. Waksman, P. Leminter, X. Gidrol and M.T. Martin: High throughput analysis and new indicators of radiation exposure in human skin cells.

10.25-10.40 V.G. Bebeshko, D.A. Belyi, A.N. Kovalenko: System of medical rehabilitation for persons, who had suffered in radiation accidents

10.40-11.00 I. Turai: International co-operation for, and the lessons to be learnt from the medical management of recent radiation accidents

11.00-11.20 *Coffee Break*

Hall

11.20-12.20 EULEP WP4 Workshop: Latent times to deterministic late effects after radiation exposure **Room A**

Chairpersons: M. Verheij, J. Wondergem

11.20-11.50 R. U. Peter: Advances in diagnosis and pathophysiological understanding of radiation injuries. Progress of the NAIMORI Project of the EC

11.50-12.20 J. W. Hopewell: Factors influencing the latent period for acute radiation damage to the skin and implications for so called consequential late effects in cutaneous tissues

11.20-12.20 Molecular biophysical, biochemical approaches to radiation effects **Room B**

Chairpersons: M. Staub, M. Harms-Ringdahl

11.20-11.35 Svoboda P., M. Harms-Ringdahl: Influence of chromatin structure on yields of radiation induced 8-oxo-dG and DNA strand breaks

11.35-11.50 Kiefer J., Witzemberger H., Pils S.: Mutation induction in human cells by ⁶⁰Co gamma rays and 30 kV X-rays

11.50-12.05 Z. Deng, M. Imhoff, M.A. Huels: Low energy (0.5-500 eV) ion damage to DNA Bases

12.05-12.20 Keszler, T. Spasokoukotskaja, Z. Csapó, M. Sasvári-Székely, G. Sáfrány and M. Staub: Activation of deoxycytidine kinase by gamma-irradiation

12.20-13.20 *Lunch*

12.20-13.20 ESRB Council Meeting

13.20-14.20 Poster Session

Hall

14.20-15.20 EULEP WP4 Workshop: Latent times to deterministic late effects after radiation exposure

Room A

Chairpersons: H. Jung, M. Rezvani

14.20-14.50 J. Jaal, W. Dörr: Radiation-induced changes in protein expression in the urinary bladder: a continuum

14.50-15.20 M. Verheij: Radiation-induced kidney damage: pathogenesis and interventional strategies

15.20-16.20 Mechanisms of radiation effects

Room A

Chairpersons: F. Darroudi, F.J. Burns

15.20-15.50 F. Darroudi, M. Meijers, J. Fornine, V. Bezrookove, M. Hill, A.T. Natarajan, J.R.K. Savage and D. Harder: Mechanisms of chromosomal aberration formation with low and high LET radiation: state of art

15.50-16.05 P. Kundrat, H. Hromcikova, M. Lokajicek: Probabilistic two-stage model of cell inactivation by light ions

16.05-16.20 Burns F.J., Wu F., Uddin a.N. and Zhang R.H.: Gene expression changes in rat skin at cancer inhibiting levels of dietary retinyl acetate after exposure to a 56Fe ion beam

14.20-16.20 Genomic Instability, Bystander Effects and Adaptive Response- Mechanisms and Link **Room B**

Chairpersons: M. Kadhim, O. Niwa

14.20-14.55 E.G. Wright: Genomic instability and bystander effects: related manifestations of untargeted radiation responses

14.55-15.10 Y.E. Dubrova, R.C. Barber, D.L.F. Kelly, N. Topchiy, G. Johnson, T. Hatch and P. Hickenbotam: Ionising radiation and transgenerational instability in mice

15.10-15.25 R.I. Goncharova, N.I. Ryabokon: Mutation process in chronically irradiated bank vole populations indicates the transgenerational genomic instability induced by Chernobyl fallout

15.25-15.50 K.M. Prise, M. Folkard, B.D. Michael, G. Schettino, L. Wu, and B. Vojnovic: Bystander and adaptive responses in targeted cells

15.50-16.05 S.R. Moore, D.A. Macdonald, S. Marsden, S. Mitchell, M. Folkard, K.M. Prise and M.A. Kadhim: Involvement of cytokines in the initiation of radiation induced genomic instability in primary human lymphocytes

16.05-16.20 P. Maguire, C. Mothersill and F. Lyng: An adaptive response in unirradiated HPV-G cells initiated by a bystander signaling mechanism

16.20-16.40 *Coffee Break* *Hall*

16.40-18.40 EULEP WP4 Workshop: Latent times to deterministic late effects after radiation exposure **Room A**

Chair: J. W. Hopewell, R. U. Peter

16.40-17.10 A. Van der Kogel: The latent time for cellular and tissue responses in the spinal cord

17.10-17.40 J. Wondergem, J. J. C. M. Kruse, M. Boerma: Time course of molecular and structural changes in the rat heart after local irradiation.

17.40-17.55 W. Dörr: Concluding remarks

16.40-18.40 Radiation-induced bystander effects following low dose radiation exposure **Room B**

Chairpersons: C. Mothersill, A. Dám

16.40-17.15 W.F. Morgan: Delayed effects of radiation exposure

17.15-17.50 C. Mothersill, M. Moriarty and C. Seymour: Radiotherapy and the potential exploitation of bystander effects

17.50-18.10 O.V. Belyakov: Studies of radiation induced bystander effects in 3D tissue models

18.10-18.20 Dám A.M., Drahos Á., Bogdándi E.N., Sárdy M., Polonyi I., Balásházy I., Fehér I.: Cellular responses to non-targeted effects of low dose radiation

18.20-18.30 Chapman, S. Griffin, S. Townsend, S. Smyth, M. Kadhim, K. Carr: Changes in cytoplasmic organelles following irradiation or medium-transfer treatment

18.30-18.40 S.H. Smyth, D.A. Bowler, K.E. Carr, M.A. Kadhim: Comparison of radiation-induced bystander effects in neurons and fibroblasts

18.45 **ESRB General Assembly** **Room A**

Friday, August 27, 2004

09.00-11.00 Biological dosimetry

Room A

Chairpersons: F. Darroudi, P. Voisin

09.00-09.30 F. Darroudi: Assessment of FISH-translocation assay for biological dosemetry: state of the art and current views

09.30-10.00 Voisin P., Roy L., Benderitter M., Bertho J.M., Souidi M., Vozenin M.C.: Biological indicators of radiological accident for the present and the future

10.00-10.15 H. Schroeder, C. Humblet, F. Hubin, Z. Belaid, K. Almohamad, J. Boniver, M.P. Defresne: Bone marrow VEGFs and VEGF receptors mRNA expression after radiation-induced aplasia in mice

10.15-10.30 S. Sommer, I. Buraczewska, M. Wojewodzka, E. Bouzyk, I. Szumiel, A. Wojcik: Analysis of the frequencies of exchange type aberration in chromosomes 2, 8 and 14 in lymphocytes of seven donors by chromosome paintings

10.30-10.45 J.M. Muderhwa, A.C. Miller, P.G.S. Prasanna, W.F. Blakely: Radiation dose assessment by fluorescent microsphere-based immunoassays

10.45-11.00 K. Hempel, J. Graw, S. Vershenya, J. Biko, R. Lorenz, Chr. Reiners: Evaluation of the reticulocyte micronucleus assay in peripheral blood of patients treated with radioiodine

09.00-11.00 Signalling and DSB repair

Lecture Hall

Chairpersons: C. Blattner, Y. Shiloh

09.00-09.45 Y. Shiloh: ATM: new insights into the DNA damage response **the EMBO Lecture**

- 09.45-10.15 S.C. West: Double-strand break repair by homologous recombination - mechanisms and control
- 10.15-10.30 R. Kulikov and C. Blattner: Regulation of P53 in response to ionizing irradiation
- 10.30-10.45 Pirzio L., Desmaze C., Murnane J.P., Sabatier L.: Role of telomeres in the formation and the transmission of radiation-induced chromosomes damages
- 10.45-10.50 M. Plumb: Aberrant genomic DNA methylation and radiation-induced genetic instability

11.00-11.20 *Coffee Break* *Hall*

11.20-12.05 Bacq & Alexander Award Lecture; A. T. Natarajan: Recent advances in radiation cytogenetics **Lecture Hall**

12.05-13.05 *Lunch*

13.05-14.00 Poster Session **Hall**

14.00-16.00 DNA double-strand break repair: new aspects **Room A**

Chairpersons: M. Frankenberg-Schwager, G. Iliakis

- 14.00-14.20 M.Z. Zdzienicka: Role of homologous recombination in providing protection against radiation-induced DNA double-strand breaks and DNA cross-links in mammalian cells
- 14.20-14.30 A. Wojcik, L. Stoilov, I. Szumiel, R. Legerski G. Obe: BrdU and radiation-induced sister chromatid exchanges (SCE): the role of interstrand crosslinks (ICL) and Rad51C
- 14.30-14.50 M. Kühne, E. Riballo, N. Rief, M. Löbrich, P.A. Jeggo: A subpathway of non-homologous end - joining repair involves factors of the ATM signalling pathway

- 14.50-15.20 G. Iliakis: Radiation induced DNA double strand break signaling and cell cycle response
- 15.20-15.30 P.P.W. van Buul, and A. van Duijn-Goedhart: Role of homologous recombination in the production of X-ray-induced chromosome aberrations during the G₁ and G₂ phase of the cell cycle
- 15.30-16.00 P. Slijepcevic: Telomere maintenance and DNA double strand break repair

14.00-16.00 Pharmacological modulation of radiation damage to mammalian organism

Room B

Chairpersons: M. Hofer, Gy. Horváth

- 14.00-14.15 M.H. Whitnall, T.B. Elliott, G.D. Ledney, T.M. Seed, J.M. Frincke, D.R. Stickney, and C. Dowding: 5-androstenediol: a long-acting natural systemic radioprotectant with low toxicity
- 14.15-14.30 D.R. Stickney, C. Dowding, A. Garsd, M.H. Whitnall, and J.M. Frincke: HE2100 and HE3204 protect rhesus macaques from radiation-induced myelosuppression
- 14.30-14.45 M.R. Landauer, V. Srinivasan, and T.M. Seed: Radioprotection by the soy isoflavone genistein
- 14.45-15.00 Joseph F. Weiss, Michael R. Landauer: Radioprotection by natural and synthetic antioxidants
- 15.00-15.15 Gy. Horváth, G. Veszely, J. Fűrész, B. Horkay: Characterization of the WR-2721 induced hemopoietic stem cell mobilization in mice
- 15.15-15.30 M. Hofer, M. Pospíšil, A. Vacek, L. Weiterová, V. Znojil: Modulation of haematopoiesis by activation of adenosine cell surface receptors: a new possibility for treatment of radiation-induced myelosuppression?

15.30-15.45 J. Vávrová, M. Řezáčová, D. Vokurková, J. Osterreicher: Caffeine-increased radiosensitivity is dependent on prevention of G2/M arrest and induction of apoptosis in HL-60 cells

15.45-16.00 C. Laurent, P. Voisin and J.P. Pouget: Radio-induced DNA damage in skin fibroblasts treated by the combination of pentoxifylline and α -tocopherol

16.00-16.20 *Coffee Break*

Hall

16.20-18.00 Low dose effects - protracted dose effects

Room A

Chairpersons: I. Balásházy, S. Chevillard

16.20-16.35 I. Balásházy: Dose as a key parameter and the LNT hypothesis in radiation research

16.35-16.50 C. Prapunsri, C.M. Fleck: Radiation hormesis in the Russian population after the Chernobyl accident by using the Random Coincidence Model

16.50-17.05 Á. Drahos, M. Sárdy, A.M. Dám: DNA damage after low dose ionizing radiation

17.05-17.10 N. Ugolin, V. Abalea, O. Rigaud, K. Bishay, M.F. Olivier, J. Lebeau, K. Ory, C. Levalois, E. Zuber, R. Maximilien, S. Chevillard: Changes in gene expression in human lymphoblastoid cells exposed to either 0.02 or 2 Gy gamma radiation

17.10-17.35 U. Oestreicher, H. Braselmann, and G. Stephan: Cytogenetic analyses in peripheral lymphocytes of persons living in houses with increased levels of indoor radon concentrations

17.35-17.50 J. Skopek, G. Hildebrandt, J. Jahns, J. Österreicher, L. Navratil, T. reinert, A. Fiedler, J. Tanner, J. Vogt, T. Butz: The bystander effect in cells; small doses and medium transfer

17.50-18.0 A. Cheda, E.M. Nowosielska, J. Wrembel-Wargocka, E. Lisiak, M. Marciniak, and M.K. Janiak: Low-level exposures to ionising radiation modulate the anti-tumour activity of murine NK cells

16.20-18.00 Electromagnetic radiations**Room B**

Chairpersons: G. Thuróczy, I. Belyaev

- 16.20-16.40 G. Thuróczy, P. Ravazzani: EU FP6 Coordination Action - EMF-NET “Effects of the Exposure to Electromagnetic Fields: from Science to Public Health and Safer Workplace”
- 16.40-17.00 G. Mezei: Extremely low frequency magnetic field exposure and childhood leukemia - a review of epidemiologic studies
- 17.00-17.15 I. Belyaev, E. Markova, L. Hillert, L. Malmgren, B. Persson: Microwaves from mobile phones affect human lymphocytes from normal and hypersensitive persons
- 17.15-17.30 Gy. Kubinyi, Z. Salamon, J. Bakos, G. Thuróczy, H. Sinay: Evaluation of DNA damage by alkaline comet assay after in vitro exposure to ELF magnetic field and ionising radiation
- 17.35-17.45 E. Markova, L. Hillert, L. Malmgren, B. Persson, I. Belyaev: Microwaves from mobile phone affect 53BP1/ γ -H2AX foci in human lymphocytes dependent on carrier frequency
- 17.45-18.00 J. Szabó, Gy. Thuróczy: Pilot survey of ELF magnetic field personal exposure in Budapest

19.00 Congress Dinner**Boat trip on the Danube**

Saturday, August 28, 2004

09.00-10.30 New radiotherapeutic approaches

Room A

Chairpersons: K. Lumniczky, R. Sanderson

09.00-09.15 K. Lumniczky, G. Huszty, Sz. Désaknai, M. Staub, M. Sasvári-Székely, G. Sáfrány: Combined treatment of murine gliomas with radiotherapy, radiosensitizing and chemosensitizing gene therapy

09.15-09.30 R. Sanderson, T.E. Wheldon, C. Deehan: Radiobiological modelling of the conformal radiotherapy of infiltrative tumours based on clonogenic cell density

09.30-09.45 K. Szluha, R. Poka, A. Der, E. Pintye, A. Horvath: Radiobiological effect of neoadjuvant brachytherapy in stage one endometrial carcinoma

09.45-10.00 E. Lisiak, M. Dziekiewicz, V. Meineke, M. Bilski, M.K. Janiak: Effect of various doses of X-rays on pro-angiogenic parameters of murine endothelial cells

10.00-10.15 H.D. Sarma, B.N. Pandey and K.P. Mishra: Enhancement of tumour radiosensitivity by electroporation a promising strategy for cancer radiotherapy

10.15-10.30 L. Balogh, D. Máthé, J. Thuróczy, J. Szilágyi, E. Perge, A. Polyák, R. Király, K. Bodó, Gy.A. Jánoki: Whole body and spect examinations in oncological dog patients by TC-99M DMSA(V) injection

09.00-10.30 Biological effect of environmental and extraterrestrial UV radiation

Room B

Chairpersons: G. Rontó, D. Jenssen

09.00-09.15 G. Rontó: Solar UV radiation - extension to the Earth's orbit and beyond

- 09.15-09.30 A. Fekete, K. Módos, M. Hegedűs, G. Kovács, Gy. Rontó, H. Lammer, C. Panitz: The effect of simulated extraterrestrial conditions on bacteriophage and DNA thin films
- 09.30-09.45 A. Kolonics, C.S. Ábrahám, P. Literati-Nagy, K. Tory: Modification of UV response: a novel photoprotective mechanism
- 09.45-10.00 D. Jenssen, F. Johansson, A. Lagerqvist, G. Olsson, J. Torudd, M. Harms-Ringdahl, K. Erixon: The influence of DNA replication bypass on the lethal effects of UV and γ radiation
- 10.00-10.15 É. Remenyik, T. Szalóczi, A. Balogh, G. Emri, I. Horkay: Susceptibility to UVB carcinogenesis
- 10.15-10.30 H. Hegyesi, G. Sáfrány, J. Tímár, L. Colombo, V. Molnár, Z. Pós, A. Falus: Investigation of tumor progression marker expression in HDC KO mice on experimental dermatofibrosarcoma model

10.30-10.50 *Coffee Break*

Hall

10.50-13.15 Stem cells and radiation

Room A

Chairpersons: M.T. Martin, J. Gidáli

- 10.50-11.15 Martin M.T., Larderet G., Lemaitre G., Gobin S., Vaigot P., Bensidhoum M., Gidrol X., Waksman G.: Human epidermis stem cells and radiation damage
- 11.15-11.40 Coppes R.P., Lombaert I., Visser W., Wierenga P.K., Kampinga H.H., de Haan G.: Bone marrow derived stem cells reduce radiation-induced damage to salivary gland
- 11.40-12.00 S. Francois, M. Bensidhoum, M. Mouiseddine, C. Mazurier, S. Bouchet, J. Frick, C. Demarquay, L. Fouillard, M. Lopez, N. Gorin, D. Thierry, A. Chapel: Human mesenchymal stem cells home specifically to radiation injured tissues and evidenced phenotypical variation in a NOD/SCID mouse model
- 12.00-12.20 G. Wagemaker, K. Peters, M.MA Verstegen and M.H Brugman: Signaling pathways involved in hematopoietic stem cell

proliferation, differentiation and reconstitution following whole body irradiation

- 12.20-12.40 M. Rezvani and S. Ray: Radiation-induced CNS damage in rats and its amelioration by stem cell transplantation
- 12.40-13.00 P.C. Lucchesi, B. Jacquelin, P. Vaigot, G. Gruel, T. Kortulewski, X. Gidrol D. Tronik-Le Roux: Understanding the radiosensitivity/radioresistance of stem cells by microarrays transcription profiling
- 13.00-13.15 J.M. Bertho: Application of autologous cell therapy in the context of accidental heterogeneous irradiation.

10.50-13.15 Radiation therapy: therapeutic effect and normal tissue injury
Room B

Chairpersons: T.N. Teslow, E. Kis

- 10.50-11.10 T.N. Teslow, D.J. Lee: Radiobiological models of tumor control and normal tissue complication probability facilitate quality management of IMRT for head and neck cancer
- 11.10-11.25 Z. Lengyel, G. Sáfrány, L. Trón, Á. Kovács Jr., F. Lakosi, Y. Al-Farhat, O. Ésik: Pet investigations in fully or partially reversible radiation myelopathy
- 11.25-11.40 Zs. Póti, Cs. Nemeskéri, Á. Mayer, G. Sáfrány, L. Trón, O. Ésik: Medium-dose-rate (MDR) interstitial partial breast irradiation results in frequent grade 3 or 4 toxicity
- 11.40-11.55 E. Kis, G. Bognár, K. Lumniczky, O. Ésik and G. Sáfrány: Individual radiation sensitivity in cancer patients undergoing radiotherapy
- 11.55-12.15 M. Udart and R.U. Peter: M-fish-analysis of radiation-induced chromosome aberrations in primary cultured human skin fibroblasts from an accidentally irradiated patient
- 12.15-12.30 K. De Ruyck, M. Van Eijkeren, K. Claes, A. De Paepe, A. Vral, L. De Riddr and H. Thierens: Chromosomal radiosensitivity and SNP

analysis in the XRCC1 and XRCC3 genes in patients with radiation induced damage to normal tissues following radiotherapy for gynaecological cancers

- 12.30-12.45 J.D. Robb, R. Xin, V. Gadag, P.K. Ganguly and T. Smith: PP06/0258: overexpression of epidermal growth factor predicts reduced survival in patients with stage III and IV head and neck cancer
- 12.45-13.00 J. Lövey, J. Lukits, E. Remenár, K. Koronczay, M. Kásler, G. Németh, J. Tímár: Antiangiogenic effects of radiotherapy predicts survival of inoperable head and neck squamous cell carcinoma
- 13.00-13.15 J. Österreicher, J. Pejchal, J. Skopek, J. Morky, Z. Vilasová, J. Psutka, J. Vávrová: Role of type II pneumocytes in pathogenesis of radiation pneumonitis

13.30 Closing Ceremony

Room A