

# **RBC-NIRS International Symposium**

## **"Frontier Radiation Biology, Now and In the Future"**

Day 1 (February 20, 2015)

**Opening session** (Chaired by M. Takata)

10 : 00 ~ 10 : 30 Promotion of research & education by cooperation between CEA & RBC. (Paul-Henri Romeo, CEA, France)

**Molecular & cellular response to genome stress (I)** (Chaired by T. Ikura )

10 : 30 ~ 11 : 00 Radiobiology of Charged Particles. (Tom K. Hei, Columbia University, U.S.A.)

11 : 00 ~ 11 : 30 NBS1 initiates UV damage tolerance. (Hiromi Yanagihara, Hiroshima University, Japan)

11 : 30 ~ 12 : 00 Comprehensive proteomic profiling of chromatin environment surrounding stressed replication fork. (Kyosuke Nakamura, University of Copenhagen, Denmark)

Lunch 12 : 00 ~ 13 : 30

**Effect of low dose radiation** (Chaired by J. Kobayashi)

13 : 30 ~ 14 : 00 Low doses of irradiation result in premature ageing of Hematopoietic Stem Cells. (Paul-Henri Romeo, CEA, France)

14 : 00 ~ 14 : 30 An experimental approach for analysis of biological effect of low dose radiation and factors affecting DSB repair fidelity. (Hiroshi Tauchi, Ibaraki University, Japan)

**Presentations by young scientists** (Chaired by K. Furuya)

14 : 30 ~ 14 : 50 Dose-dependent regulation of two rejoining pathways for DNA double-strand breaks. (Yuichiro Saito, Kyoto University, Japan)

14 : 50 ~ 15 : 10 Asparagine 326 in the extremely C-terminal region of XRCC4 is essential for the cell survival after irradiation. (Rujira Wanotayan, Tokyo Institute of Technology, Japan)

15 : 10 ~ 15 : 30 Smarcal1 Promotes Double-Strand Break Repair by Nonhomologous End Joining. Islam Shamima Keka (Kyoto University, Kyoto)

Coffee Break 15 : 30 ~ 16 : 00

**Response to radiation in nervous system** (Chaired by K. Komatsu)

16 : 00 ~ 16 : 30 Maintaining Genome Stability in the Nervous System.

(Peter J McKinnon, St. Jude Children's Research Hospital, U.S.A.)

16 : 30 ~ 17 : 00 The role of apurinic/aprimidinic endonuclease 1 in neural development. (Mikio Shimada, St. Jude Children's Research Hospital, U.S.A.)

18 : 00 ~ Reception

Day 2 (February 21, 2015)

**Molecular & cellular response to genome stress (II)** (Chaired by M. Ishiai)

10 : 00 ~ 10 : 30 The impact of defects in proteins required for DNA non-homologous end-joining in humans and mice. (Penny A. Jeggo, University of Sussex, UK)

10 : 30 ~ 11 : 00 In vivo analysis of multiple cellular responses during radiation induced tumorigenesis. (Asako Nakamura, Ibaraki University, Japan)

11 : 00 ~ 11 : 30 Role of senataxin in protecting against DNA damage.

(Martin Lavin, Royal Brisbane Hospital, Australia)

11 : 30 ~ 12 : 00 The coupling of epigenetic regulation with metabolism in cancer. (Tsuyoshi Ikura, Kyoto University, Japan)