

Program of the 7th Japan-France Workshop on Radiation Biology

Day 1: Tuesday, October 14, 2008

Opening ceremony

9:00-9:30	Welcoming remarks	Yoshiharu Yonekura (NIRS)
	Opening remarks	Pierre Legrain (CEA)
	Opening remarks	Ryuichi Okayasu (NIRS)
	Greetings	Jean-Louis Armand (Embassy of France)
	Greetings	Pierre-Yves Cordier (Embassy of France)
	Group photography	

Session1: Radio-carcinogenesis

Chair : Ryuichi Okayasu (NIRS)
Bernard Lopez (CEA)

9:45-10:10	Methods in differential phosphoproteomics: potential application to radio-carcinogenesis	Eric Quéméneur (CEA-IBEB)
10:10-10:35	Specific gene expression profiles in post-radiotherapy-induced-thyroid tumors	Sylvie Chevillard (CEA-IRCM)
10:35-10:50	Coffee break	
10:50-11:15	Cellular and molecular characterization of pre-lymphoma cells developing in the atrophic thymus of gamma-irradiated mice	Ryo Kominami (Niigata Univ.)
11:15-11:40	p53 dependent S checkpoint and avoidance of mutation /cancer during embryonal development of mice	Ohtsura Niwa (NIRS)
11:40-13:30	Lunch break	

Session 2: Heavy ions for cancer therapy

Chair: Iwao Kanno (NIRS)
Eric Quéméneur (CEA)

13:30-14:15	Keynote lecture Current status and future plans of carbon ion radiotherapy at NIRS	Hirohiko Tsujii (NIRS)
14:15-14:40	Carbon ion radiotherapy in bone and soft tissue sarcomas	Tadashi Kamada (NIRS)
14:40-15:05	Biological effects of heavy ions near the Bragg peak	Teruaki Konishi (NIRS)
15:05-15:20	Coffee break	
15:20-15:45	Antiarrhythmic effect of single heavy-ion irradiation for ventricular fibrillation of diseased rabbit heart	Mari Amino (Tokai Univ.)
15:45-16:10	Cytogenetic alterations induced by heavy ions	Laure Sabatier (CEA-IRCM)
17:30 -	Welcome reception	

Day 2: Wednesday, October 15, 2008

Session 3: DNA damage and repair

Chair: Ohtsura Niwa(NIRS)
François Boussin (CEA)

- 9:00- 9:25 Identification and characterization of interaction sites of Mlh1 protein, an essential factor from Mismatch repair associated with frequent colon cancer Jean-Baptiste Charbonnier (CEA-IBITEC-S)
- 9:25- 10:10 **Keynote lecture**
Responses of base excision repair proteins to oxidative stress Pablo Radicella (CEA-IRCM)
- 10:10-10:35 Xpc-deficiency results in tissue-specific genomic instability in mice Tetsuya Ono (Tohoku Univ.)
- 10:35-10:45 Coffee break
- 10:45-11:10 DNA double strand break repair under high and low LET radiation Ryuichi Okayasu (NIRS)
- 11:10-11:35 Dynamics of higher order nuclear architecture upon DNA damage Satoshi Tashiro (Hiroshima Univ.)
- 11:35-11:45 Coffee break
- 11:45-12:10 Double strand break repair in mammalian cells: The alternative non-homologous end-joining Bernard Lopez (CEA-IRCM)
- 12:10-12:35 Proteasome assembly chaperones: new tools for cancer therapy? Anne Peyroche (CEA-IBITEC-S)
- 12:35-14:10 Lunch break

Session 4: Low dose effects

Chair: Kazuo Sakai (NIRS)
Sylvie Chevillard (CEA)

- 14:10-14:35 Regulation of the $p21^{WAF1}$ gene promoter in response to clinically relevant doses of radiation Mitsuru Neno (NIRS)
- 14:35-15:00 Adaptive response and high-LET radiation Guillaume Vares (NIRS)
- 15:00-15:10 Coffee break
- 15:10-15:55 **Keynote lecture**
"RISC-RAD " improving science behind radioprotection: one example of consequences of single DSB near telomere in human cells Laure Sabatier (CEA-IRCM)
- 15:55-16:20 *gpt* delta transgenic mice for in vivo genotoxicity assays: application to analysis of combined effects of radiation and chemicals Takehiko Nohmi (NIHS)
- 19:00- French reception

Day 3: Thursday, October 16, 2008

Session 5: Stem cells

Chair: Sadayuki Ban (NIRS)
Pablo Radicella (CEA)

9:30-9:55	Selective segregation of chromosomes in neural stem cells: Re-examination of the immortal strand hypothesis	Seiji Kodama (Osaka Prefecture Univ.)
9:55-10:20	Clustered gonocyte apoptosis in cultured fetal rat testes Induced by accelerated heavy-ion-irradiations and its possible mechanisms	Bing Wang (NIRS)
10:20-10:45	Effect of radiation on protein expression along the crypt-villus axis in mouse intestinal epithelial cells	Misao Hachiya (NIRS)
10:45-11:00	Coffee break	
11:00-11:25	Regulation of human hematopoietic normal and leukemic stem cells by SCL/TAL1 and NOTCH	Françoise Pflumio (CEA-IRCM)
11:25-11:50	Neural stem and progenitor cells response to ionizing radiation	François Boussin (CEA-IRCM)
11:50-13:20	Lunch break	

Session 6: Radio-toxicology

Chair: Masashi Kusakabe (NIRS)
Laure Sabatier (CEA)

13:20-13:45	Homologous recombination is involved in the repair response of mammalian cells to low doses of tritium contamination	Bernard Lopez (CEA-IRCM)
13:45-14:10	Uranium-affine proteins : screening, characterization and perspectives	Eric Quéméneur (CEA-IBEB)
14:10-14:35	Uranium-induced renal toxicity in immature rats: Uranium dynamics and distribution in kidney	Shino Takeda (NIRS)
14:35-14:50	Coffee break	
14:50-15:15	Effects of ionizing radiation on bacterial community	Nobuyoshi Ishii (NIRS)
15:15-15:40	<i>Deinococcus deserti</i> : Radiation tolerance and adaptation to harsh environmental conditions	Thierry Heulin (CEA-IBEB)

Discussion time for collaboration

15:40	Mobility of researchers (postdoctoral level): identification of specific profiles and scientific topics; NIRS and CEA propositions	
	- Group 1: Stems cells	
	- Group 2: DNA damage / Repair and checkpoints	
	- Group 3: Radio-carcinogenesis, Low dose effects and Radio-toxicology	

abbr.

CEA----- Commissariat à l'Énergie Atomique

IBEB----- Institut de biologie environnementale et de biotechnologie

IBITEC-S---- Institut de biologie et de technologies de Saclay

IRCM----- Institut de radiobiologie cellulaire et moléculaire

NIRS-----National institute of radiological sciences

NIHS-----National institute of health sciences