

**The 75th Seminar of the Global Strategic Center for Radiation Health Risk Control
- The 6th Reports on Recent Research -**

Date: 13:00-17:37, September 30, 2010

Venue: the Conference room in RI center, Nagasaki University School of Medicine

Opening remarks (13:00-13:05) COE leader: Shunichi Yamashita

Section 1: Research for thyroid cancer Chairman: Masahiro Nakashima

1. (13:05-13:17) Detection of radiation-induced late-onset DNA damage response in thyroid follicular cells of adult rat
Tomomi Kurashige
2. (13:17-13:29) Expression of DNA damage response molecules in rat thyroid glands after external irradiation
Mutsumi Matsuyama
3. (13:29-13:41) Identification of thyroid cancer stem cells
Mika Shimomura, Norisato Mitsutake, Yuji Nagayama
4. (13:41-13:53) Generation of mBraf transgenic mice using Cre-loxp system
Mami Nakahara, Norisato Mitsutake, Yuji Nagayama
5. (13:53-14:05) Analysis of the genes involved in PTC carcinogenesis and the development of molecular-targeted therapy
Michiko Matsuse
6. (14: 05-14:17) Distinction of thyroid follicular neoplasms through array CGH and 53BP1 expression.
Mussazhanova Zhanna
7. (14: 17-14:29) Thyroid cancer research: Involvement of VHL tumor suppressor gene in thyroid cancer development and combination of drugs treatment for thyroid cancer
Boban Stanojevic

8. (14:29-14:41) Molecular epidemiology study of radiation-induced thyroid cancer and molecular mechanisms of thyroid carcinogenesis

Tatiana Rogounovitch

Section 2: Research for atomic bombing disease medicine

Chairman: Koichiro Yoshiura

9. (14:41-14:53) Analysis of delayed induced genomic instability in adult stem cells in the atomic bomb survivors

Kazuhiro Nagai (Transfusion and Cell Therapy Unit, Nagasaki University Hospital),
Keiji Suzuki, Shuyan Yu, Mio Kataoka, Kunihiro Tsukazaki, Yasushi Miyazaki,
Shun-ichi Yamashita, Masao Tomonaga

10. (14:53-15:05) Multiple myeloma screening test for Nagasaki Atomic bomb survivors: Survival and cause of death in patients with Monoclonal Gammopathy of Undetermined Significance

Takeshi Tsuchiya, Masako Iwanaga, Mari Sakai, Kunihiro Tsukasaki,
Shimeru Kamihira, Mariko Mine, Ken-ichi Yokota, Masao Tomonaga,
Shunichi Yamashita, Tatsuki Matsuo, Yasushi Miyazaki

Break (15:05-15:20)

Section 3: Research for molecular genetics

Chairman: Koichiro Yoshiura

11. (15:20-15:32) Performance optimization for large scale genome data processing using a key-value store

Hiroyuki Mishima

12. (15:32-15:44) Maternal uniparental isodisomy and heterodisomy on chromosome 6 encompassing a CUL7 gene mutation causing 3M syndrome

Kensaku Sasaki

13. (15:44-15:56) Genetic factors in nonsyndromic cleft lip and palate

Masanori Hikida

14. (15:56-16:08) G100S mutation in surfactant protein C gene (SFTPC) causes familial pulmonary fibrosis in one Japanese kindred

Shinji Ono, Takeshi Tanaka, Akira Kinoshita, Koya Ariyoshi, Koh-ichiro Yoshiura, Konosuke Morimoto

Section 4: Research for radiation basic life science Chairman: Yuji Nagayama

15. (16:08-16:20) Mitochondrial dysfunction induced by gamma-ray irradiation

Takako Yoshida, Shinji Goto, Miho Kawakatsu, Yoshishige Urata, Hiromi Setoguchi

16. (16:20-16:32) A role of mitochondrial dysfunction in radiation-induced genomic instability

Miho Kawakatsu, Shinji Goto, Takako Yoshida, Yoshishige Urata, Hiromi Setoguchi

17. (16:32-16:44) Screening for novel DNA damage response factors induced by ultraviolet and ionizing irradiation

Nakazawa Yuka

18. (16:44-16:56) Activation of cohesin depends on NIPBL foci formation at DNA double-strand breaks

Yasuyoshi Oka

19. (16:56-17:08) Cell cycle analysis in the process of ionizing radiation-induced senescence-like growth arrest using live-cell imaging with FUCCI-system

Masatoshi Suzuki, Keiji Suzuki, Shunichi Yamashita

20. (17:08-17:20) Recognition of chromosome translocation by ATM

Motohiro Yamauchi

21. (17:20-17:32) Radiation induces delayed oxidative stress coupled with mitochondrial morphological change in human fibroblast cell

Shinko Kobashikawa, Keiji Suzuki, Shunichi Yamashita

Closing remarks

(17:32-17:37) COE leader: Shunichi Yamashita