

The Seminar of the Global Strategic Center for Radiation Health Risk Control
– The 7th Reports on Recent Research –
Date: 13:00–18:25, March 14, 2011
Venue: Sensai Hall, Ryojun Auditorium, Nagasaki University School of Medicine

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

Section 1: Thyroid cancer research Chairman: Yuji Nagayama

1. (13:05–13:15)

Michiko MATSUSE

Analysis of the genes involved in PTC carcinogenesis

2. (13:15–13:25)

Mika Shimomura, Norisato Mitsutake, Yuji Nagayama

Identification of thyroid cancer stem cells

2. (13:25–13:35)

Mami Nakahara, Norisato Mitsutake, Masahiro Nakashima, Yuji Nagayama

Generation of mBraf transgenic mice using Cre-loxp system.

4. (13:35–13:45)

Tatiana Rogounovitch

Molecular epidemiology study of radiation-induced thyroid cancer and molecular mechanisms of thyroid carcinogenesis.

5. (13:45–13:55)

Mutsumi Matsuyama

Response to external X-ray irradiation in adult and immature rat thyroid gland

6. (13:55–14:05)

Tomomi Kurashige, Mutsumi Matsuyama, Kazuko Shichijo, Keiji Suzuki, Masahiro Nakashima

Detection of radiation-induced late-onset DNA damage response in thyroid follicular cells of adult rat

7. (14:05–14:15)

Zhanna Mussazhanova

Calcitonin-negative neuroendocrine carcinoma of the thyroid: A rare case of radiation-associated cancer

8. (14:15–14:25)

Boban Stanojevic

Clinical and pathological studies of Serbian PTC samples; VHL and FOXE1 genes implications in thyroid cancer

Section 2: Molecular Genetics Chairman: Koichiro Yoshiura

9. (14:25–14:35)

Hiroyuki Mishima

Human exome sequencing and genomic variation analyses using the next generation sequencer

10. (14:35–14:45)

Shinji Ono, Naohiro Kurotaki, Taeko Kikuchi, Norio Niikawa, Akira Kinoshita, Koichiro Yoshiura
Mutation and copy number analysis in paroxysmal kinesigenic dyskinesia families

Section 3: Radiation basic life science I

Chairman: Koichiro Yoshiura

11. (14:45–14:55)

Takako Yoshida, Shinji Goto, Yoshishige Urata, Miho Kawakatsu, Hiromi Setoguchi
Mitochondrial dysfunction induced by gamma-ray irradiation

12. (14:55–15:05)

Miho Kawakatsu, Shinji Goto, Takako Yoshida, Yoshishige Urata, Hiromi Setoguchi
A role of mitochondrial dysfunction in radiation-induced genomic instability

13. (15:05–15:15)

Yuka Nakazawa
Molecular cloning and characterization of a novel gene responsible for UV sensitive syndrome (UVsS)

Break: 15:15–15:30

Section 4: International radiation health care research

Chairman: Noboru Takamura

14. (15:30–15:40)

Naomi Hayashida
The long-term risk of cancer development with thyroid nodules in irradiated individuals around Chernobyl Nuclear Power Plant

15. (15:40–15:50)

Yasuyuki Taira
Evaluation of radiation doses around contaminated areas: Current concentration of artificial radionuclides and estimated radiation doses from ¹³⁷Cs around the Chernobyl Nuclear Power Plant, the Semipalatinsk Nuclear Testing Site, and in Nagasaki

16. (15:50–16:00)

Sumiko Irie
Assessment of PET/CT images among patients with benign liver diseases

17. (16:00–16:10)

Toshihiko Kamasaki
Assessment of FDG-uptake in painful shoulder analyzed with PET/CT.

18. (16:10–16:20)

Miwa Miura, Naoki Matsuda
An approach from social science for establishment of radiation literacy – Perception of radiation risk by radiation professionals and by general public

19. (16:20–16:30)

Naoki Matsuda, GM Brahmanandhan, Masahiro Yoshida, Noboru Takamura, Akihiko Suyama, Yasuhiro Koguchi, Norimichi Juto, YL Raj, G Winsley, S Selvasekarapandian
Assessment of individual dose in high background radiation area of Tamil Nadu, India

20. (16:30–16:40)

Rika Koshimoto, Hideyuki Nakane, Hyun Kim, Hiroyuki Kinoshita, Akira Ohtsuru, Yoshisada Shibata, Hiroki Ozawa, Shunichi Yamashita
Mental health conditions in Korean atomic bomb survivors

Section 5: Atomic bombing disease medicine

Chairman: Yasushi Miyazaki

21. (16:40–16:50)

Ohtsuru A, Akita S, Kumagai A, Nemoto T, Isomoto H, Suzuki K, Takamura N, Yamashita S.
Clinical Studies of Radiation-related Disease in Hibakusha

22. (16:50–17:00)

Atsushi Kumagai
Hibakusha Medicine Building-Efforts, Translational Medicine of Thyroid Cancer and Emergency Radiation Medicine

23. (17:00–17:10)

Katsuya Matsuda
Double staining for p53-binding protein 1 and Ki-67: A useful technique to discriminate between severe dysplasia and carcinoma in situ of uterine cervical lesions

24. (17:10–17:20)

Shinya Sato, Hideki Tsushima, Koji Ando, Hidehiro Itonaga, Yoshitaka Imaizumi, Daisuke Imanishi, Jun Taguchi, Takuya Fukushima, Tomoko Hata, Yasushi Miyazaki
(dm06190h@cc.nagasaki-u.ac.jp)
Gene mutations as clinical prognostic factor in acute myeloid leukemia with normal karyotype

25. (17:20–17:30)

Takeshi Tsuchiya, Mio Kataoka, Masako Iwanaga, Kazuhiro Nagai, Kunihiro Tsukasaki, Yasushi Miyazaki
Data bank of 'Hibakusha'

Section 6: Radiation basic life science II

Chairman: Keiji Suzuki

26. (17:30–17:40)

Keiji Suzuki
New advances in radiation biology research 2010

27. (17:40–17:50)

Motohiro Yamauchi
Genetic determinants for the frequency of chromosome translocation

28. (17:50–18:00)

Masatoshi Suzuki

Ionizing radiation triggers mitosis skipping in mammary carcinoma cells

29. (18:00–18:10)

Yasuyoshi Oka

Elucidation of the mechanism of NIPBL accumulation at DSBs

30. (18:10–18:20)

Shinko Kobashikawa

Ionizing radiation induces Drp1-dependent mitochondrial fission which involves delayed mitochondrial ROS induction in normal human fibroblast-like cells.

Closing remarks (18:20–18:25)

COE leader: Shunichi Yamashita