List of Scientific Lectures, Seminars, Colloquia and Workshops

Scientific Lectures and Seminars Presented at RERF
1 April 2017—31 March 2018

The following presentations were made during the fiscal year by researchers internal and external to RERF at the Hiroshima Laboratory. They appear in chronological order.

4 April 2017, Noemi Castelletti, Department of Radiation Sciences, Institute of Radiation Protection, Helmholtz Zentrum München, Germany: “Two distinct molecular pathways for the risk of lung adenocarcinoma from smoking and radiation”

5 April 2017, Katsushi Tokunaga, Professor, Department of Human Genetics, Graduate School of Medicine, The University of Tokyo: “Changes in the medical research ethical guidelines associated with the revised Private Information Protection Law and current medical genome research”

12 April 2017, Makoto Noda, Professor, Department of Molecular Oncology, Graduate School of Medicine, Kyoto University: “The roles of RECK gene in tumor suppression - involvement of non-cell-autonomous mechanisms”

17 April 2017, Alina V. Brenner, Staff Scientist, Radiation Epidemiology Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute (NCI): “Cohort studies of thyroid cancer and other thyroid diseases following the Chernobyl accident: updates and progress”

25 May 2017, Osamu Tanabe, Professor, Department of Integrative Genomics, Tohoku Medical Megabank, Tohoku University: “Protective Effects of NRF2 against Oxidative Stress Injury and Potentially against Radiation Genotoxicity”

12 July 2017, Hiroaki Kiyokawa, Professor, Department of Pharmacology, Northwestern University Feinberg School of Medicine: “Control of the Cell Cycle and Genome Stability”

24 August 2017, Elisabeth Cardis, Professor, Radiation Programme, ISGlobal, Barcelona, Spain: “Recommendations and procedures for preparedness and health surveillance of populations affected by a radiation accident”

25 September 2017, Norie Kanzaki, Graduate School of Health Sciences, Okayama University: “Application of Information Mathematics to Analysis of the Medical Information: Evaluation of Radiation Health Effects Using a Fuzzy Description”

4 October, 2017, Noriaki Yoshida, Research Fellow, Department of Medical oncology, Dana-Farber Cancer Institute, USA: “Molecular characterization of peripheral T-cell lymphoma”

5 October, 2017, Asao Noda, Assistant Department Chief, Department of Molecular Biosciences, RERF: “Towards the Development of Better Quantification of Radiation-Induced Damages and Mutations—Accomplishments to the Present Date—”

12 October, 2017, Akane Kondo, Medical Director of Maternity Ward, Shikoku Medical Center for Children and Adults: “Genetic counselling and education of medical genetics; experience in UK and Japan”
2 November, 2017, **Aparecido D. da Cruz**, Master Program in Genetics, Laboratory of Cytogenetics and Molecular Genetics, Pontifical Catholic University of Goiás, Goiânia, Brazil: "Genetic follow up of the population exposed to ionizing radiation: The Goiânia study"

13 November, 2017, **Matthias Port**, Director, Institute of Radiobiology of the Bundeswehr, affiliated to the University of Ulm: "The Bundeswehr Institute of Radiobiology - recent research activities ranging from follow up of Chernobyl victims to early and high-throughput diagnostics of acute health effects occurring after radiation incidents"

14 December, 2017, **Gertraud Maskarinec**, Professor (Researcher) and Full Member, Cancer Epidemiology Program, University of Hawaii Cancer Center: "Diet Quality Patterns and Chronic Disease Risk: The Multiethnic Cohort"

20 March, 2018, **Markus Eidemüller**, Head of Research Group "Radiation Risk", Department of Radiation Sciences, Institute of Radiation Protection, Helmholtz Zentrum München, Germany: "Using LSS data to assess relationship between cancer and radiation, and to estimate individual late health risks after breast cancer radiotherapy"

**RERF Colloquia**

1 April 2017 — 31 March 2018

Rather than formal seminars, RERF Colloquia are presentations mainly focused on preliminary or ongoing studies, with the aim of obtaining constructive ideas from RERF researchers.

21 April 2017, **Ikuno Takahashi**, Associate Senior Scientist, Department of Clinical Studies, “An introduction to the study of arteriosclerosis in the AHS members”

19 May 2017, **Kotaro Ozasa**, Chief, Department of Epidemiology, “LSS, at present and in the future”


15 September 2017, **Yoichiro Kusunoki**, Department Chief, Department of Molecular Biosciences, “Studies on Mechanisms of T-cell Immunosenescence Following Radiation Exposure”


17 November 2017, **Ritsu Sakata**, Assistant Chief, Department of Epidemiology “Incidence of lymphoma among LSS subjects”

15 December 2017, **Akira Hashizume**, Executive Director, “Experimental Epidemiology ~ Infant mortality improvement in Wakayama prefecture~”

**Workshops**
*1 April 2017 – 31 March 2018*

1. **RERF-ICRP Joint Meeting: New RERF Organ Dose Calculations for Atomic Bomb Survivors**
   **Date:** November 30, 2017
   **Place:** RERF Auditorium, Hiroshima

   **Guest Presentations (Presentation order):**
   - **Steve Egbert**, Leidos Inc., Reston, USA
     “The DS86/DS02 Calculation of Energy and Angle-specific Fluences Including Creation of a 240-angle Quadrature from 2-D Transport Calculations”
   - **Nolan Hertel**, Georgia Institute of Technology, USA
     “The DS86/DS02 Phantoms and Adjoint Organ Dose Calculations – Providing an Efficient Upgrade to DS02 by Creation of Tabulated Angle and Energy-specific Response Functions for Upgraded Phantoms”
   - **Akira Endo**, JAEA, Japan
     “Forward Calculations with Isotropic DS02 Fluences and Adult Male and Female Phantoms: Stylized, ICRP Voxel, and JAEA Japanese Voxel”
   - **Choonsik Lee**, National Cancer Institute, USA
     “Neutron Dose Conversion Coefficients for Idealized Irradiation Geometries with the ICRP Pediatric Phantom Series”
   - **Wes Bolch**, University of Florida, USA
     “Development of a New Pregnant Woman Phantom for in utero-Exposed Survivors”

   **RERF Presentations:**
   - **Harry Cullings**, Chief, Department of Statistics
     “Plans for an Initial Evaluation of New Organ Dose Calculations to Estimate the Improvements That Could Be Realized in a New Organ Dose Module for DS02”

   **Other Guest Participants:**
   - **John Harrison**, Oxford Brookes University, UK
   - **Nina Petoussi-Henss**, Helmholtz Zentrum München, Germany
   - **Derek Jokisch**, Francis Marion University, USA
   - **Maria Zankl**, Helmholtz Zentrum München, Germany
   - **Tatsuhiko Sato**, JAEA, Japan
   - **Daiki Satoh**, JAEA, Japan
   - **Kimiaiki Saito**, JAEA, Japan
   - **Haruyuki Ogino**, ICRP, Canada
   - **Isaf Al-Nabulsi**, DOE, USA

2. **Joint RERF-ICRP-JHPS Workshop on Recent Progress in Radiation Dosimetry for Epidemiology and Radiological Protection**
   **Date:** December 2, 2017
   **Place:** The University of Tokyo

   Organized by the International Commission on Radiological Protection (ICRP), Radiation Effect Research Foundation (RERF), and Japan Health Physics Society (JHPS) Co-organized by Japanese Society of Radiation Safety Management (JRSM)
**Guest Presentations (Presentation order)**

**Wes Bolch**, University of Florida, USA
“Modern phantoms and their applications”

**John Harrison**, Oxford Brookes University, UK
“Dosimetric quantities and risk”

**Daiki Satoh**, JAEA, Japan
“External doses to the public from contaminated land”

**Yusuke Koba**, JHPS, Japan
“CT dosimetric calculator, WAZA-ARI”

**Kentaro Manabe**, JHPS, Japan
“Modeling of internal dose from an insoluble cesium”

**RERF Presentations:**

**Harry Cullings**, Chief, Department of Statistics
“DS02R1 used for the latest LSS studies”

**Guest Participants (Random order):**

**Hiroko Yoshida**, JHPS, Japan

**Michiaki Kai**, JHPS, Japan

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Date: March 22-23, 2018
Place: RERF Auditorium, Hiroshima

**Session 1:** Introduction to RERF studies

**Session 2:** Mechanistic modeling of carcinogenesis I

**Hiroshi Haeno**, Kyushu University, Fukuoka, Japan

**Christian Kaiser**, Helmholtz Center, Munich, Germany

**Session 3:** Mechanistic modeling of carcinogenesis II

**Georg Luebeck**, Fred Hutchinson Cancer Research Center, Seattle, USA

**Giorgios Stathopoulas**, Helmholtz Center, Munich, Germany

**Noemi Castelletti**, Helmholtz Center, Munich, Germany

**Session 4:** Biological modeling

**Cristian Tomasetti**, Johns Hopkins University School of Medicine, Baltimore, USA

**Nori Nakamura**, Radiation Effects Research Foundation, Hiroshima, Japan

**Richard Wakeford**, The University of Manchester, Manchester, UK

**Session 5:** Young age at exposure; why is it radiosensitive?

**Nori Nakamura**, Radiation Effects Research Foundation, Hiroshima, Japan

**Mary-Helen Barcellos-Hoff**, University of California, San Francisco, USA

**Daisuke Iizuka**, QST-National Institute of Radiological Sciences, Chiba, Japan

**Yoshiya Shimada**, QST-National Institute of Radiological Sciences, Chiba, Japan