

## 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 Goias, Goiania, Brazil: "Genetic follow up of the population exposed to ionizing radiation: The Goiania 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"

21 July 2017, **John B. Cologne**, Senior Scientist, Department of Statistics, "Causal Modeling Based on Markers of Latent Factors: Two AHS Studies with Analyses Utilizing Structural Equations"

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

17 November 2017, **Jaeyoung Kim**, Visiting Research Fellow, Department of Epidemiology, "Urothelial cancer incidence among the Life Span Study of atomic bomb survivors: 1958 to 2009"

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~"

19 January 2018, **Ayumi Hida**, Acting Chief, Dept. Clinical Studies, Nagasaki, "HTLV-I related diseases among Nagasaki AHS Subjects"

## **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 Munchen, Germany

**Derek Jokisch**, Francis Marion University, USA

**Maria Zankl**, Helmholtz Zentrum Munchen, Germany

**Tatsuhiko Sato**, JAEA, Japan

**Daiki Satoh**, JAEA, Japan

**Kimiaki 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-ARF”

**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

**3. International Workshop: Filling a gap between epidemiology and biology ---Biologically-based modeling of radiation-induced carcinogenesis**

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 Stathopoulos**, 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