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## HICARE/IAEA International Workshop on Biological and Internal Dosimetry; Development and Clinical Application of Biological Dosimetry Technology (Ref.No:2407100)

Hiroshima, Japan, Feb 10-14,2025

### Course Director:

(IAEA) Oleg BELYAKOV Consultant Radiation Biologist, International Atomic Energy Agency (IAEA)

(HICARE) Satoshi TASHIRO Professor, Hiroshima University, Research Institution for Radiation Biology and Medicine (RIRBM)

### Venue:

The course will take place at; Hiroshima University

### Objective:

To develop the ability to use mature and novel techniques in biological dosimetry for the estimation of radiation effects by medical exposure.

### Learning outcomes:

At the completion of the workshop, the participants will be able to:

- Discuss standard classic techniques in biodosimetry.
- Apply currently accepted techniques for dose estimation.
- Compare advantages and weaknesses of standard techniques.
- Discuss about the clinical applications of biodosimetry techniques.

### Day 1(Monday)

08:30 – 09:00	Registration		
09:00 – 09:30	HICARE IAEA	Welcome Remarks	
09:30 – 10:00 (Lecture)	Oleg BELYAKOV	IAEA	Biological Dosimetry Research Program in IAEA
10:30 – 11:30 (Lecture)	Satoshi TASHIRO	Hiroshima Univ.	Clinical application of biological dosimetry
11:30 – 12:00	Discussion/Questions		
12:00– 13:00 (Lunch)			
13:00– 14:00 (Lecture)	Oleg BELYAKOV on behalf of Sergey SHINKAREV(FMBC)	IAEA	Monitoring and dosimetry for first responders after a major accident
14:00– 15:00 (Lecture)	Osamu KURIHARA	QST	Internal dosimetry
15:30– 16:30 (Lecture)	Kimio TANAKA	Res. Inst. Radiat Biol. & Med. Hiroshima Univ.	Biological effects on low-dose and low-dose-rate radiation and biodosimetry
16:30 – 17:00	Discussion/Questions		

### Day 2(Tuesday)

09:00 – 10:00 (Lecture)	Oleg BELYAKOV on behalf of Sergey SHINKAREV(FMBC)	IAEA	Assessment of internal doses from monitoring measurements
10:30 – 11:30 (Lecture)	Tomisato MIURA	Hiroshima Univ.	Protection of physicians from medical exposure
11:30 – 12:00	Discussion/Questions		
12:00– 13:00 (Lunch)			
13:00– 14:00 (Lecture)	Nobuki IMANO	Hiroshima Univ.	Radiation Oncology

14:00– 15:00 (Lecture)	Kanya HAMASAKI	RERF	Chromosome study of A-bomb survivors -Consider the impact of the therapeutic exposure-
15:30– 16:30 (Lecture)	Sakae KINASE	JAEA, Ibaraki, Japan	Monitoring for Occupational Intakes of Radionuclides
16:30 –17:00	Discussion/Questions		

### Day 3 (Wednesday)

09:00 –10:00 (Lecture)	Takashi KUDO	Nagasaki Univ.	Nuclear Medicine
10:30 –11:30	Hiroshima University Hospital Tour		
11:30 –12:00	Discussion/Questions		
12:00– 13:00 (Lunch)			
13:00 –14:00 (Lecture)	Masatoshi SUZUKI	IRIDeS, Tohoku University	Overview of the Fukushima Daiichi nuclear power plant accident
14:00 –15:00 (Lecture)	Yuko NAKAMURA	Hiroshima Univ.	Radiation exposure in diagnostic radiology with a focus on CT
15:30 –16:30	Peace Memorial Museum		

### Day 4 (Thursday)

9:00-10:00 (Lecture)	Masatoshi SUZUKI	IRIDeS, Tohoku University	Assessment of radiation dose and biological Effects on environmental organisms related to the Fukushima Daiichi nuclear power plant accident
10:30-11:30 (Lecture)	Ritsu SAKATA	RERF	Epidemiological Studies on Late Health Effects among A-bomb Survivors
11:30 –12:00	Discussion/Questions		
12:00- 13:00 (Lunch)			
13:00 –15:00 (Practice)	Report from participants Presentation about each participant's work and research 6 min/participant		
15:00 –15:30	IAEA		Evaluation
15:30– 16:30	Hiroshima University Laboratory tour		

### Day 5 (Friday)

9:00-10:00 (Lecture)	Kazunori KODAMA	RERF	Radiation Effects Research Foundation
10:00-10:30	Closing remarks		