

# NIRS-CEA –IRSN WS program 28, 29th Oct

*Monday October 28*

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**10:00**

## Opening Remarks

Koji Noda, Executive Director in QST

Opening address: Purpose and Perspective in this WS

Tetsuo Nakajima (QST-NIRS)

Photo

**10:30**

Introduction and Researches of QST-NIRS, CEA & IRSN

Chairs: Shizuko Kakinuma (QST-NIRS), Tetsuo Nakajima (QST-NIRS)

- Shizuko Kakinuma (QST-NIRS)

**QST-NIRS research activities in the fields of radiobiology and radiotherapy**

- Christophe Carles (CEA)

**CEA research activities in the fields of radiobiology and radiotherapy**

- Jean-Christophe Gariel (IRSN)

**An overview of IRSN research strategy and activities in the radiation protection domain**

**12:00**

Lunch Time

**13:30**

HIMAC visit

(poster viewing)

**14:30**

Basic and Applied Radiation Biology (Radiation tissue effects -differences among tissues-)

Chairs: Paul-Henri Romeo (CEA) and Tatsuhiko Imaoka (QST-NIRS)

- Paul-Henri Romeo (CEA)

**The yin and yang effects of low doses of irradiation on hematopoietic stem cells**

- Tatsuhiko Imaoka (QST-NIRS)

**Response of rat mammary stem/progenitor cells preceding radiation- induced carcinogenesis**

- Gabriel Livera (CEA)

**Radiosensitivity of small and growing mouse oocytes**

- Dominique Laurier (IRSN)

**Vascular effects of radiation exposure: epidemiological and toxicological approaches**

**16:30** Short presentation by poster presenters

Chairs: Guillaume Vares (OIST), Kazuhiro Daino (QST-NIRS)

**17:15** Moving

**18:00** Social events

*Tuesday October 29*

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**09:30**

(Characterization of Radiation induced Cellular Responses for therapies)

Chairs: Bing Wang (QST-NIRS), Radia Tamarat (IRSN)

- Michèle Martin (CEA)  
**EMT is driven by very low level of DNA damage in human keratinocyte precursor cells during epidermis generation**
- Masumi Abe (QST-NIRS)  
**Genetic instabilities associated with genome reprogramming**
- Radia Tamarat (IRSN)  
**Cellular therapies for treatment of radiation injury**

**11:00**

(Radio-sensitizing procedure for therapies)

Chairs: Christophe Carles (CEA), Masumi Abe (QST-NIRS)

- Romain Grall (CEA)  
**High Z nanoparticles and radiotherapy : real time intratumoral radiation dosimetry together with enhancer radiation effect**
- Mayumi Fujita (QST-NIRS)  
**Role of nitric oxide in the invasive pancreatic cancer cells**
- Sumitaka Hasegawa (QST-NIRS)  
**Development of radiopharmaceuticals for targeted alpha-particle therapy**

**12:30**

Lunch Time

Poster viewing

**14:30**

Preparation for Nuclear Accident and Medical Application

(Dose dosimetry and radiation effects in Radiation Emergency Therapies)

Chairs: Jean-Christophe Gariel (IRSN), Osamu Kurihara (QST-NIRS)

- Marc Benderitter (IRSN)  
**Iodine thyroid blocking : What is PRIODAC research program teaching us ?**
- Osamu Kurihara (QST-NIRS)  
**Experiences of individual monitoring for internal exposure in the 2011 Fukushima nuclear disaster**
- Isabelle Clairand (IRSN)  
**Physical dosimetry in case of radiological accident**
- Gaëtan Gruel (IRSN)  
**Relation between DNA damage and radiation characteristics : Beyond the concept of absorbed dose in radiobiology and biodosimetry**

**16:30**

Concluding remarks Dr.Shimada, President Advisor in QST