

ITCCIR-2021 Program



1.Introduction

History of CIRT	Hirohiko Tsujii	QST *
J-CROS activities	Hiroshi Tsuji	QST *
Cost effectiveness of CIRT	Tatsuya Ohno	Gunma University

2.Biology

Characteristics of Carbon ion Radiotherapy in cancer therapy	Marco Durante	GSI Helmholtzzentrum für Schwerionenforschung
Role of heavy-ion-induced free radicals	Ryoichi Hirayama	QST *
Harnessing heavy ions to improve immunotherapy	Takashi Shimokawa	QST *
Rationale for hypofractionation	Yukari Yoshida	Gunma University
DNA damage and cell killing effects by high-LET particle beams	Atsushi Shibata	Gunma University
Immune Radiotherapy	Noriyuki Okonogi	QST *
Targeted Radionuclide Therapy	Sumitaka Hasegawa	QST *
FLASH Particle Therapy	Taku Inaniwa	QST *

3.Physics

Accelerators for CIRT inc. Quantum Scalpel	Toshiyuki Shirai	QST *
Beam delivery, QA and Radiation protection	Shunsuke Yonai	QST *
Biological models for CIRT	Naruhiko Matsufuji	QST *
Treatment planning and Range uncertainty in CIRT	Nobuyuki Kanematsu	QST *
Motion management	Hideyuki Mizuno	QST *
IGRT with in-room CT	Makoto Sakai	Gunma University
Facility design of Yonsei Cancer Center Korea	Jin Sung Kim	Yonsei Cancer Center
Facility commissioning at Osaka	Masaaki Takashina	OSAKA HIMAK
Facility commissioning at Yamagata	Hikaru Souda	Yamagata University
What Particle Therapy Can Learn from IMRT and Other High- Precision Radiotherapies	Arnold Pompos	UTSouthwestern Medical Center

4.Clinical aspects

Head & Neck (including Skull base & Lacrimal gland)	Masashi Koto	QST *
Eye	Masaru Wakatsuki	QST *
Lung	Mio Nakajima	QST *
Liver	Kei Shibuya	Gunma University
Pancreas	Makoto Shinoto	QST *
Bone & Soft tissue Sarcoma	Reiko Imai	QST *
Genitourinary tumors (prostate, kidney)	Hitoshi Ishikawa	QST *
Locally recurrent Rectal cancer	Hirotohi Takiyama	QST *
Gynecological	Kazutoshi Murata	QST *
Breast	Yasumasa Mori	QST *

5.Diagnosis

Molecular diagnosis for radiotherapy	Ryuichi Nishii	QST *
--------------------------------------	----------------	-------

Diagnostic imaging for radiotherapy

Riwa Kishimoto

QST *

6.Topics

Overview of Proton Therapy

Hideyuki Sakurai

Tsukuba University

Rationale and Indications for CIRT at Mayo
Clinic USA

Robert L. Foote

Mayo Clinic

Overview of BNCT

Yoshihiro Takai

Southern Tohoku BNCT Research
Center

Radiation Emergency Medicine

Hideo Tatsuzaki

QST *

7.Vendor presentation

Toshiba Corporation

Hitachi, Ltd.

Sumitomo Heavy Industries

RaySearch Laboratories

B dot Medical Inc.

8.Introduction of facilities

QST *

Gunma University Heavy Ion Medical Center

Kanagawa cancer center

Osaka Heavy Ion Therapy Center

Hyogo Ion Beam Medical Center

Saga Heavy ion Medical Accelerator in Tosu,

SagaHIMAT

Yamagata University East Japan Heavy Ion Center

*) QST : National Institutes for Quantum and Radiological Science and Technology