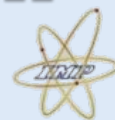


NIRS-IMP Joint Symposium on Carbon Ion Therapy



August 14 & 15, 2009
Institute of Modern Physics
Lanzhou, China



14 August (Friday)

8:30 Registration

Opening Ceremony

8:40 Opening Remarks

8:45 Opening Remarks

8:50 Group Photo

Present Status of IMP Project and Other Plans

9:00 Present Status of IMP Therapy Project and Particle Therapy in China

9:20 Brief Introduction of Plans in Japan

Clinical Experiences at NIRS and IMP

9:40 NIRS Introduction

9:50 Overview of the Carbon Ion Therapy at NIRS

10:20 Discussion

10:30 *Coffee Break*

10:45 Skull Base Tumor

11:00 Head & Neck Tumor

11:15 Lung Cancer

11:30 Bone & Soft Tissue Sarcoma

11:45 Discussion

11:55 *Lunch*

13:55 Hepatoma

14:10 P/O rec Rectal Cancer

14:25 Uterine Cancer

14:40 Prostate Cancer

14:55 Discussion

15:05 *Coffee Break*

15:20 Results of Carbon Ion Radiotherapy for Skin Carcinomas in 45 Patients

15:45 About Particle Clinical Study

16:10 Discussion

Ion Beam Biology

16:30 Repair of DNA Double Strand Breaks Induced by Heavy Ion Irradiation

16:45 Biological Effectiveness of Mammalian Cells Exposed to Heavy Ion Beams

17:00 Effects of Heavy Ion Radiation on Cancer Stem Cells of Xenograft Tumor in Nude Mice

17:15 Effect of Hypofractionation on RBE and Estimation of Therapeutic Dose

17:30 Discussion

Guoqing Xiao, IMP
Hirohiko Tsujii, NIRS

Chair: G. Xiao and H. Tsujii

G. Xiao, IMP

H. Tsujii, NIRS

Chair: H. Zhang and T. Kamada

A. Kitagawa, NIRS
H. Tsujii, NIRS

A. Hasegawa, NIRS
K. Jingu/ J. Mizoe, NIRS

N. Yamamoto/ M. Baba, NIRS
S. Sugahara, NIRS

H. Imada/ S. Yasuda, NIRS

S. Yamada, NIRS
S. Kato, NIRS
H. Tsujii, NIRS

H. Zhang, IMP

T. Kamada, NIRS

Chair: G. Zhou and R. Okayasu

R. Okayasu, NIRS

Y. Furusawa, NIRS

S. Sai, NIRS

Y. Matsumoto, NIRS

15 August (Saturday)

Ion Beam Biology

8:30 Radiosensitivity in Mesothelioma Cell Lines for X rays and Carbon-ion Beams

8:45 A Novel Mechanism of Cellular Radiosensitivity

9:00 Cytometric Assessment of Histone H2AX Phosphorylation in Tumor Cells Irradiated with Carbon Ions

9:15 Discussion

Ion Beam Physics

9:30 15 Years Experience of the Carbon Ion Production; Stability and Reliability of HIMAC

9:45 New Treatment Facility Project at HIMAC

10:00 Treatment Planning for Scanned Carbon Ion Beams

10:15 Status of New Carbon Therapy Facility at Gunma University

10:30 Evaluation of Absolute Doses for Therapeutic Carbon Ion Beams

10:45 Research for the RI Beam Medical Application at HIMAC and RI Production Technique

11:00 *Coffee Break*

11:15 Therapeutic Techniques Used in the Heavy Ion Therapy Project at IMP

11:30 The Beam Monitoring Detectors for the Heavy-Ion Therapy at IMP

11:45 Accelerator Aspects of the Proposed Tumor Therapy System

12:00 Injection and Slow Extraction for Carbon Ion Therapy at IMP

12:15 Injector Linac for Heavy Ion Therapy System in Japan

12:30 Discussion

Closing Ceremony

12:40 Closing Remarks

12:55 Closing Remarks

Chair: G. Zhou and R. Okayasu

C. Liu, NIRS

G. Zhou, IMP

L. Zhou, IMP

Chair: Q. Li and K. Noda

A. Kitagawa, NIRS

K. Noda, NIRS

N. Kanematsu, NIRS

S. Yamada, Gunma University

M. Sakama, Gunma University

M. Kanazawa, NIRS

Q. Li, IMP

Z. Hu, IMP

M. Song, IMP

Y. Yuan, IMP

S. Tatsumi, Sumitomo Heavy Industries

H. Tsujii, NIRS

G. Xiao, IMP

Organized by National Institute of Radiological Sciences, Japan and Institute of Modern Physics, China

Chair organizers: Hirohiko Tsujii (NIRS) & Qiang Li (IMP)

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Registration by e-mail: webmaster@impcas.ac.cn