



Yonsei Radiation Oncology Symposium

The 100th Anniversary of the First Radiotherapy in Korea
The Next Big Leap Into The Future

2022. 04. 15 - 16

Newilhan Memorial Hall (1F), Avison BioMedical Research Center (ABMRC),
Yonsei University

Greetings

Dear Colleagues and Friends,

It is our greatest pleasure to invite you to Yonsei Radiation Oncology Symposium: The 100th Anniversary of the First Radiotherapy in Korea, which will be held on April 15-16, in Avison Biomedical Research Center, Yonsei University, Seoul, Korea.

Severance Hospital started in Kwang Hye Won, Korea's first Western-style hospital, established in 1885 by Dr. Horace N. Allen, a missionary doctor from the United States. Since then, Yonsei Cancer Center, the nation's first medical institution dedicated to cancer treatment, was established in 1969 and was followed by opening a new cancer hospital in 2014, which now ranks among the best cancer hospitals in the world. The year 2022 is significant as it marks the 100th anniversary of radiotherapy in Korea.

The Department of Radiation Oncology, Yonsei Cancer Center, has played a pioneering role in cancer treatment, introducing and distributing countless new technologies in Korea. Introduction of a high-performance linear accelerator in 1972 marks the breakthrough in modern radiation therapy and was followed by brachytherapy, intraoperative radiotherapy, radiosurgery, hyperthermia, and 3D conformal radiotherapy. In addition, we are preparing for another innovation by introducing Carbon-ion Therapy for the first time in Korea, which will begin operations in March 2023.

The main theme of the symposium is "The Next Big Leap into the Future." The program will feature distinguished presenters from Korea and abroad, and this symposium will be the perfect occasion to understand and share the latest trends and innovations in radiation oncology. Although the impact of COVID-19 is overwhelming, we will make every possible effort to make your participation scientifically rewarding and enjoyable.

We look forward to seeing you in April.

IK JAE LEE, MD, Ph.D.
Professor and Chairman
Department of Radiation Oncology,
Yonsei Cancer Center, Yonsei University College of Medicine



Program

| Day 1 | | Friday, April 15, 2022 |
|---|--|---|
| 08:30-08:33 | Yonsei RO Chair Welcome | Ik Jae Lee <i>Yonsei RO Chair</i> |
| 08:33-08:37 | Congratulatory Address | Hong-Gyun Wu <i>President, KOSRO</i> |
| 08:37-08:40 | Commemorative Address | Dong Sup Yoon <i>CEO, YUHS</i> |
| Session I. History and Evolution of Yonsei Radiation Oncology | | Kwan-Ho Cho <i>Former President, KOSRO</i> |
| 08:40-09:20 | History and Evolution of Yonsei Radiation Oncology | Gwi Eon Kim <i>Prof Emeritus, Yonsei University</i> |
| 09:20-09:50 | Special Lecture – Strategic Application of Radiotherapy for Hepatocellular Carcinoma | Jinsil Seong <i>Yonsei University</i> |
| 09:50-10:00 | Break | |
| Session II. Paradigm Changer in Radiotherapy - Artificial Intelligence | | Woo Chul Kim <i>Inha University</i> |
| 10:00-10:30 | Building Collaborative Platform and Reproducibility in AI Research | Benjamin Haibe-Kains <i>University of Toronto</i> |
| 10:30-11:00 | Individualized Radiation Medicine through Radiomics | Andrew Hope <i>University of Toronto</i> |
| 11:00-11:20 | Current and Future Perspectives of Auto-segmentation Program at Yonsei | Jee Suk Chang <i>Yonsei University</i> |
| 11:20-11:30 | Break | |
| Session III. Paradigm Changer in Radiotherapy - MR-guided RT | | Hong-Gyun Woo <i>Seoul National University</i> |
| 11:30-11:50 | Development of MR-LINAC Systems | Justin Chunjoo Park <i>UTSW</i> |
| 11:50-12:10 | 1.5T MR-LINAC and Gangnam Severance Experience | Jun Won Kim <i>Yonsei University</i> |
| 12:10-12:30 | MR-guided Gating for GI Cancers | Eui Kyu Chie <i>Seoul National University</i> |
| 12:30-13:00 | MR -guided Ultrafractionated Stereotactic Adaptive Radiotherapy | Hak Choy <i>UTSW</i> |
| 13:00-14:30 | Luncheon followed by Carbon Ion Therapy Center Tour | |
| Session IV. Carbon Ion Therapy - Current and Future Perspectives | | Ki Chang Keum <i>Director, Yonsei Cancer Center</i> |
| 14:30-15:00 | Lessons Learned from the History of Particle Therapy | Hirohiko Tsujii <i>QST</i> |
| 15:00-15:20 | Carbon Ion Therapy Program at Yonsei | Yong Bae Kim <i>Yonsei University</i> |
| 15:20-15:50 | Multidisciplinary Approach for CIRT | Tatsuya Ohno <i>Gunma University</i> |
| 15:50-16:05 | Break | |
| Session V. Carbon Ion Therapy - Clinical Aspects | | Hee Chul Park <i>Sungkyunkwan University, Woong Kyu Han <i>Yonsei University</i></i> |
| 16:05-16:35 | Carbon Ion Therapy - Prostate Cancer | Hitoshi Ishikawa <i>QST</i> |
| 16:35-17:05 | Carbon Ion Therapy - Liver | Hiroyuki Katoh <i>Kanagawa Cancer Center</i> |
| 17:05-17:35 | Carbon Ion Therapy - Pancreas and Rectal Cancer | Shigeru Yamada <i>QST</i> |
| 17:35 | Closing Remarks | |
| Day 2 | | Saturday, April 16, 2022 |
| 09:00-09:02 | Welcome Address | Ik Jae Lee <i>Chair, Yonsei RO</i> |
| 09:02-09:05 | Congratulatory Remarks | Se Byuong Lee <i>President, KSMP</i> |
| Session I. History of Yonsei Medical Physics | | Youngyih Han <i>Sungkyunkwan University</i> |
| 09:05-09:30 | History of Yonsei Medical Physics | Sung Sil Choo <i>Yonsei University</i> |
| 09:30-09:50 | Expanding Yonsei Medical Physics | Jin Sung Kim <i>Yonsei University</i> |
| 09:50-10:00 | Break & Photo Session | |
| Session II. Recent Advances in Medical Physics | | Byung Chul Cho <i>Former President, KSMP, Dong Wook Kim <i>Yonsei University</i></i> |
| 10:00-10:20 | MR-guided RT at Yonsei | Ho Lee <i>Yonsei University</i> |
| 10:20-10:50 | Cardiac Radioablation for Ventricular Tachycardia | Geoffrey Hugo <i>Washington University</i> |
| 10:50-11:20 | Advanced Adaptive Radiation Therapy | Justin Chunjoo Park <i>UTSW</i> |
| 11:20-11:40 | IMRT, IGRT at Yonsei | Jihun Kim <i>Yonsei University</i> |
| 11:40-12:00 | Carbon Ion Therapy at Yonsei | Chae-Sun Hong <i>Yonsei University</i> |
| 12:00-13:00 | Lunch | |
| Session III. Preparing for the Future | | Jong Min Park <i>Seoul National University, Min Cheol Han <i>Yonsei University</i></i> |
| 13:00-13:30 | Some Considerations on the Clinical Implementation of AI | Steve Jiang <i>UTSW</i> |
| 13:30-14:00 | Next Generation MR-guided Radiation Therapy | Taeho Kim <i>Washington University</i> |
| 14:00-14:30 | Modelling Immuno-Radiotherapy | Clemens Grassberger <i>MGH</i> |
| 14:30-15:00 | Carbon Ion Therapy with Superconducting Gantry | Takayuki Kanai <i>Yamagata University</i> |
| 15:00-15:30 | AI in Yonsei Radiation Oncology | Hojin Kim <i>Yonsei University</i> |
| 15:30 | Closing Remarks | |
| 16:00 | Carbon Ion Therapy Center Tour | |

Registration Information

Registration Dates

Welcome to the Yonsei Radiation Oncology Symposium Registration Website. Registration is required to be admitted to the venue and for the participation in all programs of the Yonsei Radiation Oncology Symposium.

Deadline of Registration **Apr. 13 (Wed), 2022**

- E-abstract book will be available on the registration website

Registration Fee

| Category | Domestic | Overseas |
|-------------------------|-------------|----------|
| Registration Fee | Free | |

*Once your registration gets accepted, you can receive the news of the symposium by e-mail.

Yonsei Radiation Oncology Symposium Secretariat
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Register Now