

[T1R] Session R. Radiation in Medicine	
Date / Time	December 8 (Thu.), 2022 / 13:00-15:20
Place	Auditorium (2F)
Chairpersons	Prof. Hwiyoung KIM (Yonsei Univ.) Dr. Wonmo SUNG (The Catholic Univ. Korea) Prof. Jimin LEE (UNIST)

T1R_01	[INVITED]	13:00-13:40
--------	-----------	-------------

End-to-End Validation of RefleXion System for Biology-Guided Radiation Therapy (BgRT)

Yang Kyun Park, Grant Gibbard, Jun Tan, Tingliang Zhuang, Bin Cai

University of Texas Southwestern Medical Center, USA

T1R_02		13:40-14:00
--------	--	-------------

The Impact of Blood Dose in the Radiation-Induced Lymphopenia and Prognosis of Hepatocellular Carcinoma Patients after Radiation Therapy

Sangseok Ha¹, Tae Hoon Lee², Jaeman Son², Chang Heon Choi², Hyun-Cheol Kang^{2,3}, Wonmo Sung¹

¹The Catholic University of Korea, Republic of Korea, ²Seoul National University Hospital, Republic of Korea, ³Seoul National University College of Medicine, Republic of Korea

T1R_03		14:00-14:20
--------	--	-------------

Synthesis of Brain Tumor Dataset via Free-Form Mask in Normal MRI Using Generative Adversarial Networks

Kyuri Kim¹, Yoonho Na¹, Jimin Lee², Sung-Joon Ye¹, Hwiyoung Kim³

¹Seoul National University, Republic of Korea, ²Ulsan National Institute of Science and Technology, Republic of Korea, ³Yonsei University College of Medicine, Republic of Korea

T1R_04		14:20-14:40
--------	--	-------------

Generation of Missing Brain Tumor MRI Sequence with GANs

Yoonho Na¹, Kyuri Kim¹, Hwiyoung Kim², Sung-Joon Ye¹, Jimin Lee³

¹Seoul National University, Republic of Korea, ²Yonsei University College of Medicine, Republic of Korea, ³Ulsan National Institute of Science and Technology, Republic of Korea

T1R_05		14:40-15:00
--------	--	-------------

Utilization of the LEM Model for Assessing the Radiation Treatment Effect in terms of DNA Damage Estimates in Critical Targets

Ali Abu Shqair, Eun-Hee Kim

Seoul National University, Republic of Korea

T1R_06		15:00-15:20
--------	--	-------------

Radionuclide Metrology in Nuclear Medicine: A Case Study with Activity Measurement of ¹⁸F-FDG

Agung Agusbudiman^{1,2}, Kyoung Beom Lee^{1,2}, Jong Man Lee^{1,2}, Sang Hoon Hwang^{1,2}, Byoung Chul Kim², Dong Hye Heo², Ka-Young Park², Eun Hee Kwon², Minji Han^{1,2}

¹University of Science and Technology, Republic of Korea, ²Korea Research Institute of Standards and Science, Republic of Korea