

WORKSHOP on Radiopharmaceutical Therapy (RPT) Normal Tissue Effects in the Clinic (TEC)
RPT-TEC-2022

September 25-28, 2022



[Mon Repos Conference Hall](#)

Corfu, Greece

We are organizing a 4-day international workshop to review the collective clinical experience in radiopharmaceutical therapy (RPT) as it relates to the relationship between toxicity and tissue absorbed dose.

The objectives of the workshop are to arrive at normal organ toxicity avoidance (NOTA) absorbed doses, expressed as two-Gy equieffective dose (EQD2) applicable to different RPT agent/radionuclide combinations. We envision a gathering whereby physicians with experience treating patients with RPT will compile/present their patient toxicity experience for different agents and administered activity (AA) schedules. These data will be used by the physics attendees to reconstruct organ absorbed dose estimates. We anticipate an iterative process whereby the physicists ask the physicians for their best estimates of potential input (e.g., clearance kinetics, localization, potential impact of prior treatment on observed tissue toxicity); some of this data may also be available from pre and post-imaging (i.e., theranostics) RPT imaging and also from the literature.

The product of this workshop will be a single or series of QUANTEC-like publications for RPT agents (RPT-TEC). We also anticipate that a metaanalysis of clinical experience in RPT will arise from the workshop. Recognizing that input into deriving NOTA absorbed doses will be a combination of rigorous published data and physician's experience from ongoing (unpublished) patient therapy experience, we will implement the NCCN categorization to rank the reliability of the evidence supporting recommended NOTA absorbed dose estimates. We anticipate that this may be the first of a series of workshops towards this goal.

Day 1; Sunday, 25 September

<i>Workshop objectives and approach</i>		
9:00	9:30	Final product and how we will get to it
<i>Clinical Experience with small molecules</i>		
9:30	10:30	labeled with beta-emitters
10:30	11:00	break/open discussion
11:00	11:45	labeled with alpha-emitters
11:45	12:00	break/open discussion
<i>Clinical Experience with peptides</i>		
12:00	12:45	labeled with beta-emitters
12:45	12:50	break/open discussion
12:50	13:30	labeled with alpha-emitters
13:30	16:30	light lunch, open discussions, beach
<i>Clinical Experience with immunoconjugates</i>		
16:30	17:20	labeled with beta-emitters
17:20	17:40	break/open discussion
17:40	18:30	labeled with alpha-emitters
18:30	19:30	Open Discussion, adjourn

Welcome reception

Day 2; Monday, 26 September

<i>Approach/formalism for reconstructing organ absorbed dose (AD) from Administered Activity (AA) data</i>		
9:00	9:45	Reconstructing initial organ uptake (% of AA); sub-organ localization
9:45	10:15	break/open discussion
10:15	11:00	Reconstructing organ pharmacokinetics (PK) (uptake/clearance half-lives)
11:00	11:30	break/open discussion
<i>Best estimates of initial uptake, sub-organ localization, PK in kidneys</i>		
11:30	12:15	small molecules, peptides
12:15	12:45	break/open discussion
12:45	13:30	antibodies
13:30	16:30	light lunch, open discussions, beach
<i>Best estimates of initial uptake, sub-organ localization, PK in red marrow and salivary glands</i>		
16:30	17:30	small molecules, peptides
17:30	18:00	break/open discussion
18:00	18:45	antibodies
18:45	19:30	open discussion, adjourn

Greek Night

Day 3; Tuesday, 27 September

<i>beta-emitter dosimetry</i>		
10:00	11:00	sub-organ scale, dose-rate
11:00	11:30	break/open discussion
<i>Initial NOTA* absorbed dose estimates for kidneys</i>		
11:30	12:30	small molecules, peptides
12:30	13:00	break/open discussion
13:00	13:30	antibodies
13:30	16:30	light lunch, discussions, beach or boat w/ lunch, discussions
<i>Initial NOTA absorbed dose estimates for red marrow and salivary glands</i>		
16:30	17:30	small molecules, peptides
17:30	17:45	break/open discussion
17:45	18:45	antibodies
18:45	19:30	Open Discussion, adjourn
<i>*NOTA = Normal Organ Toxicity Avoidance</i>		

Organizing Committee, speaker dinner

Day 4; Wednesday, 28 September

<i>Alpha-emitter dosimetry</i>		
9:00	9:45	Daughter fate
9:45	10:05	break/open discussion
10:05	11:00	RBE, sub-organ
11:00	11:30	break/open discussion
<i>Initial NOTA* absorbed dose estimates for kidneys</i>		
11:30	12:30	small molecules, peptides
12:30	13:00	break/open discussion
13:00	13:30	antibodies
13:30	16:30	light lunch, discussions, beach or boat w/ lunch, discussions
<i>Initial NOTA absorbed dose estimates for red marrow and salivary glands</i>		
16:30	17:30	small molecules, peptides
17:30	17:45	break/open discussion
17:45	18:45	antibodies
18:45	19:30	Open Discussion, meeting adjourned
<i>*NOTA = Normal Organ Toxicity Avoidance</i>		

Organizing Committee

Wesley E. Bolch, PhD wbolch@ufl.edu
J. Crayton Pruitt Family Department of Biomedical Engineering
University of Florida
Gainesville FL USA

Jacek Capala, PhD capalaj@mail.nih.gov
Radiation Research Program
National Cancer Institute
Rockville MD USA

Marta Cremonesi marta.cremonesi@ieo.it
Department of Medical Imaging and Radiation Sciences,
Istituto Europeo di Oncologia,
IRCCS, Milan, Italy

Yuni Dewaraja yuni@umich.edu
Department of Radiology
University of Michigan Medical School
Ann Arbor, MI, USA

Jonathan Gear jonathan.gear@icr.ac.uk
Joint department of Physics,
Royal Marsden NHSFT and Institute of Cancer Research
Sutton, UK

Gerhard Glatting Gerhard.Glatting@uniklinik-ulm.de
Universitätsklinikum Ulm
Nuklearmedizin | Medizinische Strahlenphysik
Ulm, Germany

Robert F. Hobbs PhD rhobbs3@jhmi.edu
Department of Radiation Oncology and Molecular Radiation Sciences
Johns Hopkins University
Baltimore MD USA

Adam Kesner kesnera@mskcc.org
Department of Medical Physics
Memorial Sloan-Kettering Cancer Center
New York NY USA

Ana P. Kiess MD, PhD akiess1@jhmi.edu
Department of Radiation Oncology and Molecular Radiation Sciences
Johns Hopkins University
Baltimore MD USA

Joseph O'Donoghue, PhD odonoghj@mskcc.org
Department of Medical Physics
Memorial Sloan-Kettering Cancer Center

New York NY USA

Daniel Pryma, MD dpryma@pennmedicine.upenn.edu
Department of Radiology
University of Pennsylvania School of Medicine
Philadelphia, PA USA

Neeta Pandit-Taskar, MD pandit-n@mskcc.org
Department of Radiology
Memorial Sloan-Kettering Cancer Center
New York NY USA

George Sgouros, PhD (Chair) gsgouros@jhmi.edu
Russell H. Morgan Department of Radiology and Radiological Science
Johns Hopkins University
Baltimore MD USA

Lidia Strigari, PhD lidia.strigari@aosp.bo.it
Direzione Fisica Sanitaria, IRCCS Azienda Ospedaliero-Universitaria di Bologna,
Bologna, Italy

Scott Tagawa, MD stt2007@med.cornell.edu
Medical Oncology
Weill Cornell Medicine
New York NY USA

Tahir Yusufaly PhD tyusufa2@jhmi.edu
Russell H. Morgan Department of Radiology and Radiological Science
Johns Hopkins University
Baltimore MD USA

Carlos Uribe carlos.uribe@bccancer.bc.ca
Department of Radiology,
University of British Columbia,
Vancouver, British Columbia, Canada

VENUE

General

The European Institute for Sciences and their Application (EISA) has hosted a large number of very successful scientific events in Corfu since 1982. The success is also due to the infrastructure and the facilities that the EISA makes available to the events' organizers and participants.

Mon Repos Conference Hall

The Conference Hall is in the Mon Repos Estate on the top of the Analipsis Hill. This is in the area of Palaiopolis at a distance of 2-3 km from the Corfu Town ([map](#)). It is located about 2km from the Kanoni area where several hotels offer special prices for the accommodation of the participants. It is easily accessible by bus and all nearby hotels are located next to a bus station.

The main conference hall can accommodate 120 participants. Smaller seminar rooms are also available for smaller and/or parallel sessions.