

EMPIR  
Joint  
Research  
Project

# Metrology for clinical implementation of dosimetry in molecular radiotherapy

## EUROPEAN WORKSHOP ON THE PRINCIPLES AND CLINICAL IMPLEMENTATION OF DOSE CALCULATION IN MOLECULAR RADIOTHERAPY

Czech Technical University, Brehova 7, Prague, Czech Republic  
26<sup>th</sup> -27<sup>th</sup> September 2018

[Venue map](#)

## Workshop agenda and details

### SCOPE

The workshop will focus on the clinical implementation and supporting principles of molecular radiotherapy (MRT) dose calculations. Emphasis is given to presentation and discussion of dose calculation methods implemented in a clinical setting and to the treatment of uncertainty in clinical calculations.

Space will be also given for an overview of the current status of the EMPIR MRTDosimetry project devoted to providing state of the art dosimetry and protocols for clinical practice. The validation and uncertainty estimates for MRT dose calculations will be discussed in the context of the planned dosimetry comparison exercise in the project.

### CALL FOR ABSTRACTS

The call for abstracts is now closed.

### REGISTRATION

The registration is now closed.

## AGENDA

Version 3 (25 Sep 2018)

<b>DAY 1: Wednesday 26<sup>th</sup> September 2018</b>	
12:00	<i>Refreshment</i>
13:00	<b>Welcome</b> Tomáš Urban (Czech Technical University) <span style="float: right;">(5 min)</span> Jiří Šuráň (Czech Metrology Institute) <span style="float: right;">(5 min)</span>
13:10	<b>Introduction to MRTDosimetry project</b> Andrew Robinson (National Physics Laboratory, United Kingdom) <span style="float: right;">(20 min)</span>
13:30	<b>Invited talk: “Dosimetry in Clinical Trial Design: Making the case”</b> George Sgouros (John Hopkins University, USA) <span style="float: right;">(50 + 10 min)</span>
14:30	<b>Invited talk: “Methods for determining uncertainty in clinical dose calculation: Theory and Practice”</b> Maurice Cox (National Physics Laboratory, United Kingdom) Jonathan Gear (Institute of Cancer Research, United Kingdom) <span style="float: right;">(50 + 10 min)</span>
15:30	<i>Coffee break</i>
15:50	<b>Invited talk: “Quantitative imaging and dose calculation comparison exercises in the MRTDosimetry project”</b> Johannes Tran-Gia (Universitätsklinikum Würzburg, Germany) Nick Calvert (The Christie NHS Foundation Trust, United Kingdom) <span style="float: right;">(50 + 10 min)</span>
16:50	<b>“PBPK/PD modelling for predicting tumour response”</b> Peter Kletting (Ulm University, Germany) <span style="float: right;">(15 + 5 min)</span>
17:10	<b>“Personal experience with dosimetry attempts”</b> Pavel Solný (National Radiation Protection Institute, Czech Republic) <span style="float: right;">(15 + 5 min)</span>
17:30	Discussion <span style="float: right;">(30 min)</span>
18:00	Group photograph
18:10	<b>End of the first day</b>
19:30	<i>Social dinner: <a href="#">Koloniál Pub &amp; Restaurant (map)</a></i>

<b>DAY 2: Thursday 27<sup>th</sup> September 2018</b>	
09:00	<b>Invited talk: “<u>Review of dose calculation methods: implications for future clinical implementation</u>”</b> Alex Vergara-Gil (INSERM, France) <span style="float: right;">(50 + 10 min)</span>
10:00	<b>“<u>Comparison between a convolution based and Monte Carlo based dosimetry software</u>”</b> Domenico Finocchiaro (AUSL-IRCCS Reggio Emilia, Italy) <span style="float: right;">(15 + 5 min)</span>
10:20	<b>“<u>Calculation methods in Hermes Medical Solutions’ dosimetry software</u>”</b> Helena McMeekin (Hermes Medical Solutions, United Kingdom) <span style="float: right;">(15 + 5 min)</span>
10:40	Discussion <span style="float: right;">(20 min)</span>
11:00	<i>Coffee break</i>
11:30	<b>Invited talk: “<u>Clinical dosimetry with 99mTc-MAA for 90Y SIRT: practical methods and results</u>”</b> Francesca Botta (European Institute of Oncology, Italy) <span style="float: right;">(50 + 10 min)</span>
12:30	<b>“<u>The experience in a single institute over two decades of individualized radiopeptide therapy: from bench to bedside</u>”</b> Georgios S. Limouris (National and Kapodistrian University of Athens, Greece) <span style="float: right;">(15 + 5 min)</span>
12:50	<b>“<u>Performing post treatment patient specific dosimetry in peptide receptor radionuclide therapy with 177Lutetium-DOTATATE, using software package by MIM Software Inc.</u>”</b> Maria Kotzassarlidou (“Theagenio” Anticancer Hospital of Thessaloniki, Greece) <span style="float: right;">(15 + 5 min)</span>
13:10	Discussion <span style="float: right;">(20 min)</span>
13:30	<i>Lunch</i>
14:30	<b>“<u>The OpenDose Collaboration</u>”</b> Maxime Chauvin (INSERM, France) <span style="float: right;">(30 + 10 min)</span>
15:10	<b>“<u>A novel segmentation method for advanced personalised 3D image-base dosimetry in Peptide Receptor Radionuclide Therapy</u>”</b> Salvatore Berenato (Cardiff University, United Kingdom) <span style="float: right;">(15 + 5 min)</span>
15:30	<b>“<u>Challenges in post-treatment dose calculations using image-based quantification of Y-90 SPECT/CT data</u>”</b> Konrad Lotter (Technische Universität Wien, Austria) <span style="float: right;">(15 + 5 min)</span>
15:50	<b>“<u>Dosimetry in Czechoslovakia - forgotten history in the light of uprising dosimetry</u>”</b> Pavel Solný (National Radiation Protection Institute, Czech Republic) <span style="float: right;">(15 + 5 min)</span>
16:10	Discussion <span style="float: right;">(20 min)</span>
16:30	<i>End of the workshop</i>

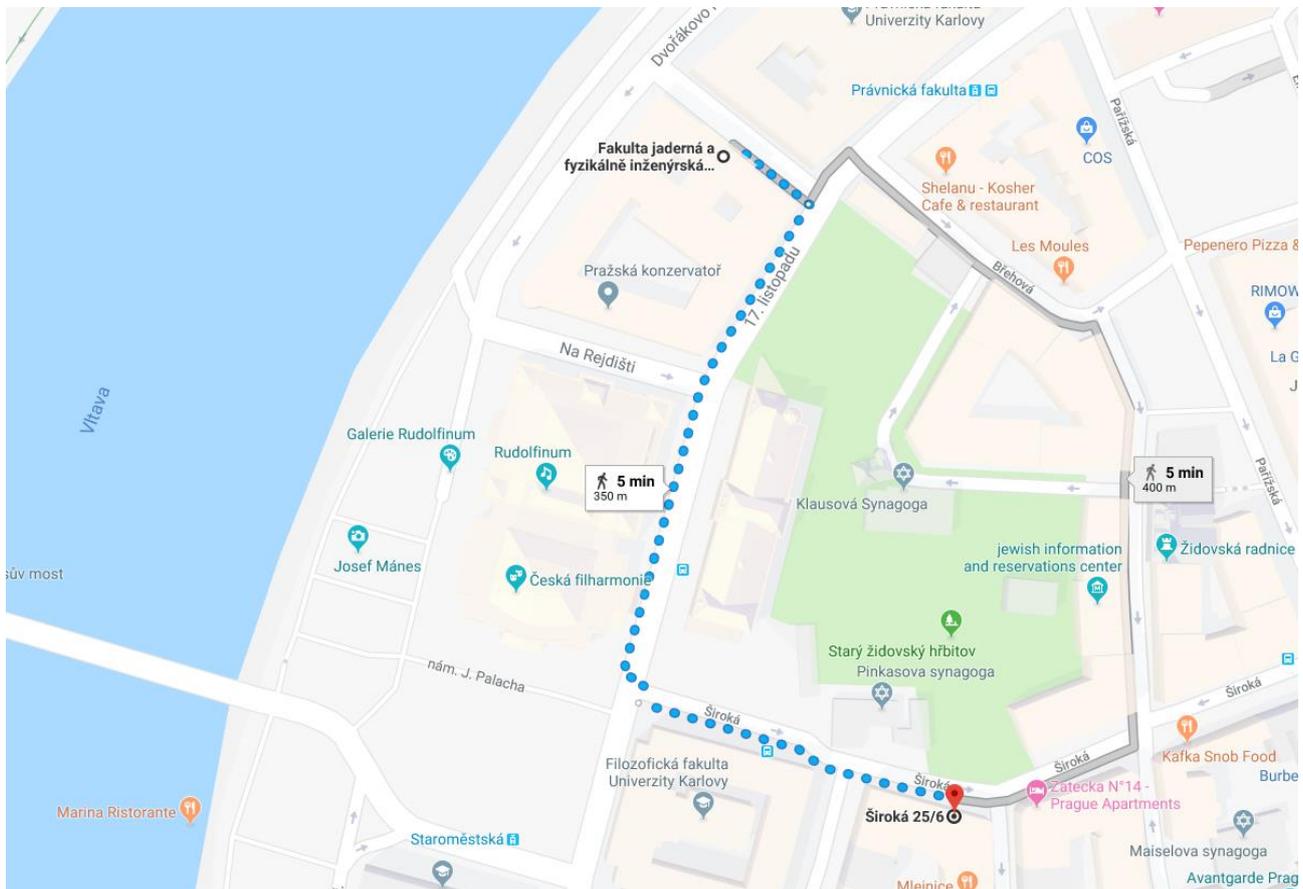
## SOCIAL DINNER

Wednesday, 26 September, 19:30

### [Koloniál Pub & Restaurant](#)

[Široká 25/6, Praha](#)

5 min walk from workshop venue (direction to metro station Staroměstská)



## HOW TO GET TO THE VENUE

Public transport timetable can be checked [here](#).

- **Station “Právnická fakulta”** - tram 17;
- **Station “Staroměstská”** – metro line A (green) and tram 18. From the station, you can go towards the bridge and then along the river. It is a 5 min walk.

## ACCOMMODATION

There is a large number of hotels in the nearby area because of a close distance to the city centre. The table below shows an example of accommodation close to the workshop venue or close to the meeting venue. The prices of the presented accommodation or an offer for another accommodation can be also checked on, e.g., [booking.com](#).

Accommodation	Price/night/ single room
<a href="#">Hotel President</a>	120 €
<a href="#">Rezidence Dlouhá 17</a>	80 €
<a href="#">Hotel Lippert</a>	150 €
<a href="#">Hotel Metamorphis</a>	120 €
<a href="#">Hotel Maximilian</a>	120 €

## PUBLIC TRANSPORT

Prague public transport is quite comfortable and cheap and one can get practically anywhere. The public transport consists of 3 metro lines, and tram and bus lines.

Connections can be searched using [Prague Public Transport search website](#) or using [general Public Transport search website](#). There is an interactive map where you a station can be chosen by mouse if the station name is not known.

30 min ticket costs 24 CZK, 90 min ticket costs 32 CZK, and 72 hour ticket costs 310 CZK. All tickets are transfer tickets. More information is available [here](#). Tickets can be bought at vending machines available nearly at any station, info centres, tobacconists, and wholesalers. In the bus they can be bought from the driver with an additional fee. More information is available [here](#)

## HOW TO GET FROM THE AIRPORT TO THE CITY CENTRE

**Taxi:** Taxi to the city centre costs roughly 500 – 750 Kč (20 – 30 €).

**Public transport:** By the public transport, the airport is achievable by buses only. There is a bus line 119 to metro station “Nádraží Veleslavín” (metro line A - green) and less frequent bus line 100 to metro station “Zličín” (metro line B – yellow). At the airport, the bus station is just in front of the arrival hall. Don’t be confused that the buses that terminate at the airport go to the same platform as the buses that start there. Carefully watch the signs on the bus and do not board the bus if the signs say “Not to city centre” or something similar.

Tickets can be bought at the [Public Transport information centre](#) in the arrival hall (from 7 am to 9 pm), vending machines at the station (cash required) or from a bus driver (cash required). More information is available also [here](#) and [here](#).

## **MONEY EXCHANGE**

In the Czech Republic the currency is the Czech crown (CZK or Kč). At present 1 € is equivalent to 25 CZK. If you do not have cash, you can withdraw the Czech currency from ATM machines located at the arrival hall at the airport, or anywhere else in Prague. If you have cash you can exchange money at any exchange office. Be aware that some of them focused on tourists may charge very high exchange fee therefore read the exchange terms in advance. The recommended exchange office is the “[eXchange - Směnárna pro Čechy](#)” located [nearby the Old Town Square](#). You can also print a “[VIP voucher](#)” to get a slightly better exchange rate.

## **PRAGUE SIGHTSEEING**

Prague is full of sightseeing. For example, you can use [this web site](#) as the first information about Prague.

## **CONTACT**

Please don't hesitate to contact me if you need any further information!

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