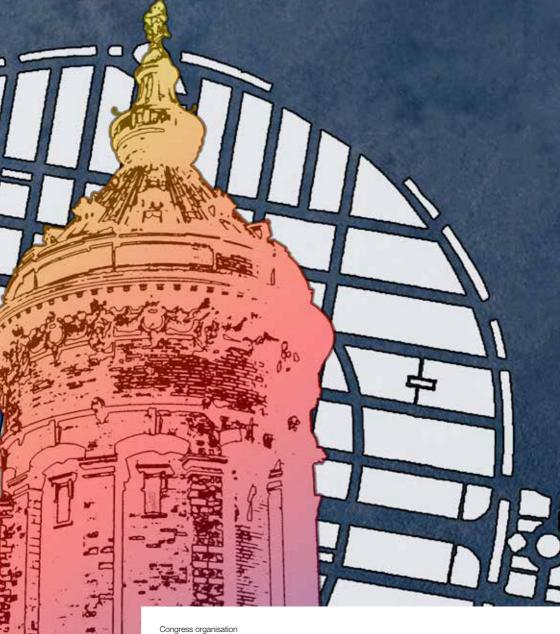


10th ISIORT Conference Mannheim July 6 / 7th 2018 · Congress Center Rosengarten, Mannheim Joint Meeting with the ILEXIUM - International LEX-IORT User Meeting



VISION INTO CONVENTIONS

www.isiort2018.org

# Welcome

#### Dear colleagues,

we want to welcome you to the 10th meeting of the international society of intraoperative radiotherapy **ISIORT**.

The historical Congress Center "Rosengarten" is located in the heart of the city of Mannheim and the metropolitan region Rhine-Neckar in the south-west of Germany only about 30 min South from Frankfurt Airport. Mannheim, a city of culture and science, is historically well known for the invention of the bicycle and the car and is today the home of outstanding innovative institutes and companies, as well as a number of renowned cultural institutions and castles.

Intraoperative radiotherapy **IORT** has evolved from an orphan method to an indispensable tool to fight cancer in more than 300 clinical centers worldwide. A rapid technological development of the radiation devices, integration of image guidance, navigation and robotic assistance and solid clinical evidence from well-designed prospective studies have moved **IORT** into the spotlight.

The **ISIORT** meeting will provide the platform for scientists and clinicians from all over the world to present newest research, developments and clinical data. Experienced **IORT** experts will share their knowledge and new or prospective users will ask the important questions to stimulate scientific and clinical exchange. A mix of Key Note lectures, scientific symposia, sessions with proffered papers, scientific debate and poster presentations will cover all aspects of **IORT**.

Together with our team, I am looking forward to welcome you to Mannheim.

**Prof. Frederik Wenz** President ISIORT - Chairman Department of Radiation Oncology University Medical Center Mannheim, University of Heidelberg



# Friday, 06. July 2018

10:00 - 12:00	Session A   Oral presentations breast
12:15 - 13:15	Industry Symposium: A glance insight Diagnostic imaging and treatment of neurooncologic Tumors
13:30 - 15:30	Opening & Keynote Lecture
15:30 - 16:00	Coffee Break & Poster & Industry Exhibition
16:00 - 17:30	Session B   Physics and Biology Session C   practical medical aspects & research
17:45 - 18:00	General Assembly (ISIORT members only)
18:00 - 20:00	Get Together

Session A – Oral presentations breast		11:20	Targeted intraoperative radiotherapy for the management of Ductal Carcinoma In-Situ of the breast
	Gustav Mahler 2, 10:00 - 12:00 Chairs: G. Fastner (Salzburg / AT), F. Calvo (Madrid / ES)		Los Angeles, CA / US: <b>D. Holmes</b>
10:00	Multicenter Phase II study of Intraoperative radiation therapy in early breast cancer in Japan <sup>Gunma / JP: T. Miyamoto</sup>	11:30	Long-term outcome of DCIS of the breast treated with intraoperative radiotherapy with electrons: experience of the European Institute of Oncology Milan / IT: M. Leonardi
10:10	The implementation of INTRABEAM at our Hospital Barcelona / ES: E. Martinez Perez	11:40 Intraoperative radiotherapy in post-neoadjuvant che therapy breast conserving surgery in triple negative a her-2 positive patients at Instituto Nacional de Enfer	
10:20	The effect of accelerated partial breast irradiation using intraoperative and external beam radiotherapy on quality of life of breast cancer patients. Leiden / NL: D. Jacobs		dades Neoplásicas from 2014 to 2016 Surquillo, Lima / PE : <b>F. Robles</b>
10:30	Acute toxicity after intraoperative electron radiotherapy (IOERT) followed by whole breast irradiation for early stage breast cancer - a retrospective analysis of 134 cases Heidelberg / DE: L. König	A glance i	Symposium nsight: Diagnostic imaging and treatment of ologic Tumors
10:40	Targeted intraoperative Radiotherapy for breast cancer the experience of Institut IMOR Barcelona / ES: I. García-Zamora		Gustav Mahler I, 12:15 – 13:15 ZEISS Carl Zeiss Meditec AG
10:50	ELIOT-BOOST Phase II trial for breast cancer: Preliminary results from a single center Bergamo / IT: <b>S. Takanen</b>	12:15	IORT in Brain cancer: Imaging challenges ahead Mannheim / DE: F. Giordano
11:00	Intraoperative Electron (IOERT) boost as current clinical practice in breast cancer patients: The italian multi- centric experience Roma / IT: A. Ciabattoni	12:35	<b>State of the art in neuro imaging</b> Los Angeles / US: <b>W.D. Pope</b>
11:10	Targeted intraoperative radiotherapy (TARGIT IORT) during breast conserving surgery for early breast cancer in patient after breast augmentation with implants		

Bottrop / DE: H. Kolberg

13:30

13:40

14:05

Chairs: F	. Wenz	(Mannheii	m / DE), I	F. SedIn	nayer (Sa	alzburg / AT)
<b>Introduc</b> Mannheim		d Welco <sub>Wenz</sub>	me to 10	th ISIO	RT conf	erence
HIOB-tri	al: Prel	iminary I	results			
Salzburg /	AT: <b>G. Fa</b>	stner				
	•	ARGIT-IC				
London / G	àB: <b>J. Vai</b>	dya				

Gustav Mahler 1 13:30 - 15:30

- 14:30
   Intraoperative radiotherapy for primary brain tumors and brain metastases

   Mannheim / DE: F. Giordano
- 14:55 An overview on the ESTRO IORT Task Force recommendations for performing intraoperative radiotherapy using electrons or low-energy x-rays for breast cancer Milan / IT: M. Leonardi
- 15:20 Conclusion of ILEXIUM Mannheim / DE: F. Wenz

# Session B – Oral presentations Dosimetry & Treatment Planning

	Gustav Mahler 1, 16:00 - 17:30 Chairs: J. Bazan (Columbus / US), F. Hensley (Heidelberg / DE)
16:00	Should in vivo dosimetry with GAFCHROMIC films during IORT for Accelerated Partial Breast Irradiation be performed for each treatment? Leidschendam / NL: A. Petoukhova
16:12	<b>Skin dose measurements in intraoperative breast treatments with radiochromic film. An update.</b> Hospitalet de Llobregat / ES: <b>P. Saldaña</b>
16:24	Real-time dosimetry for IORT procedures Wilrijk / BE: P. Stevens
16:36	Robust <sup>192</sup> Ir HDR IORT treatment planning & irradiation using the Freiburg flap Freiburg / DE: <b>M. Gainey</b>
16:48	<b>Real-time dose computation algorithm for INTRABEAM</b> Madrid / ES: <b>P. Ibáñez</b>
17:00	Total dose evaluation of a combined treatment of intraoperative and external radiotherapy. Castellón de la Plana / ES: <b>P. Monasor Denia</b>

Session C - practical medical aspects and research

16:00	Indications and clinical implications for the use of <sup>192</sup> Ir flap - IORT or IOERT Freiburg / DE: K. Henne	S
16:12	Post Operative Complication After Lumpectomy with Intra Operative Radiation Therapy Yavne / IL: H. Kadar	a
16:24	Interim Update of the Targeted Intraoperative Radio- therapy United States (TARGIT-U.S.) Phase IV Registry Trial	1
	Los Angeles, CA / US: <b>D. Holmes</b>	1
16:36	Feasibility of Intrabeam in Oncoplastic procedures in breast cancer surgery Barcelona / ES: M. Pla Farnos	1
16:48	Cosmetic results using oncoplastic surgical techniques to facilitate single dose electron based IORT. Sioux Falls / US: J. Reiland	1
17:00	Use of electrons intraoperative radiotherapy in peripheral breast tumors through round block oncoplastic technique Caracas / VE: N. Aranaga	1
17:12	Oncoplastic surgery and intraoperative radiotherapy as a joint treatment in patients with breast cancer between the years 2014 - 2018 at the National Institute of Neoplastic Diseases Peru Lima / PE: J. Galarreta	

# Session D – Oral presentations Physics & Biology

Gustav Mahler 1, 08:00 - 09:30 Chairs: J. Grecula (Columbus, OH / US)

# Saturday, 07. July 2018

08:00 - 09:30	Session D   Oral presentations Physics & Biology
09:30 - 10:00	Coffee Break & Poster & Industry Exhibition
10:00 - 11:30	Forum Debate - The most important IORT topic for the future
11:30 - 12:30	IORT - Past - Present - Future
12:30 - 13:30	Poster Viewing, Coffee Break & Industry Exhibition
13:30 - 15:30	Session E   Oral presentations various tumor sites
15:30 - 16:00	Coffee Break & Poster & Industry Exhibition
16:00 - 17:30	Session F   Clinical Trials
17:30	Closing remarks

Friday

# Saturday

#### I. Linares (Barcelona / ES)

0 <b>8:00</b>	Influence of intra-operative radiotherapy (IORT) on tumor bed protein composition of exosome in breast cancer patients Tehran / IR: H. Zali
08:12	The induction of radiation-induced subcutaneous fibrosis after intraoperative radiotherapy in breast cancer patients associates with epigenetic dysregulation Mannheim / DE: M. Veldwijk
08:24	Investigation of cellular and molecular effects of intra operative X-Ray and Electron beam treated-wound fluid in breast cancer patients Tehran / IR: J. Shakeri
08:36	Investigation of IORT- treated tumor bed modification in breast cancer via inducing biological pathways by new comprehensive approaches; Transcriptomic & Proteomic Tehran / IR: M. Shahani
08:48	IORT dedicated linac radiation protection – new methods for an innovative approach Aprilia LT / IT: G. Felici
09:00	Clinical Implementation of pelvic intra-operative radio- therapy with flat applicators: dosimetric characterisation and clinical methodology London / GB: <b>S. Stevens</b>
09:12	A new design for IORT filter to minimize backscatter and transmission dose in IORT Trento / IT: S. Yuksel

# Forum Debate - The most promising IORT topic for the future

Gustav Mahler 1, 10:00 - 11:30 Chairs: R. Krempien (Berlin-Buch / DE), F. Giordano (Mannheim / DE) 10:00

The **ESTRO** recognized that the **IORT** community is growing rapidly. Thus, they will support the **ISIORT** with 300.000 virtual Euros to fund the most promising innovative project in **IORT**. And best of all, the community is allowed to vote which project should be funded. To help you in your decision we invited the leading experts to debate the most important topics. So join the session, probe the debater and vote your favorite.

**Novel indications** Novara / IT: **M. Krengli** 

New biology Chicago / US: B. Emami

Augmented reality and robotics Mannheim / DE: S. Clausen

Treatment planning & image guidance Madrid / ES: J. Pascau

# Past - Present - Future

Gustav Mahler 1, 11:30 - 12:30 Chairs: F. Sedlmayer (Salzburg / AT)

11:30	of IORT with electrons
	Madrid / ES: F. Calvo
12:00	of IORT with low energy x-rays
	Mannheim / DE: <b>F. Wenz</b>

# Poster Viewing

Foyer, 12:30 - 13:30 Poster authors will be present for questions.

Intra-operative radiotherapy (IORT) for treatment of locally advanced esophageal cancer: preliminary results in a series of 17 patients. Novara / IT: L. Turri

Intraoperative radiotherapy optimizes conservative treatment of breast cancer with advantages in quality of life and work resumption Pavia / IT: G. IvaldI

Our intraoperative radiotherapy experience Istanbul / TR: S. Günay

Quality assurance and organ at risk dosimetry during low energy x-ray in IORT treated breast cancer Tehran / IR: M. Akbari

Intraoperative radiotherapy for breast cancer: A monocentric experience Rionero in Vulture / IT: A. Bianculli

Intraoperative Electron Radiotherapy (IOERT) in breast cancer: We analyze the toxicity and efficacy results in our institution.

Barcelona / ES: G. Oses

Experience of intraoperative radiotherapy (IORT) in an oncological institute of Peru: National Institute of Neoplastic Diseases (INEN) 2014 – 2018 Lima / PE: J. Galarreta First Case Report of the Use of the da Vinci Robotic System as an Assistant in Intraoperative High Dose Rate Remote Brachytherapy (IOHDR). Columbus, OH / US: A. Wolfe

In vivo Dosimetry of Intraoperative Radiotherapy of breast Cancer by Radiochromic Films with Comparative Dosimetry by Monte Carlo Method. Kaohsiung / TW: Y. Kao

In vivo radiobiological analysis of prostate carcinoma treated with 12 Gy single-shot IORT. Novara / IT: C. Pisani

Outcomes and toxicity of electronic superficial Brachytherapy for Non-melanoma Skin cancer in Taiwan Kaohsiung City / TW: Y. Lin

Relationship Between Local Recurrence and the Size of Ballon Applicators in Intraoperative Radiotherapy for Early Breast Cancer Kaohsiung City / TW: M. Huang

Investigation of IORT-treated tumor bed modification in breast cancer via inducing biological pathways by new comprehensive approaches; Transcriptomic & Proteomic Tehran / IR: J. Shakeri Investigation of cellular and molecular effects of intra operative X-Ray and Electron beam treated-wound fluid in Breast cancer patients Tehran / IR: M. Shahani

Single shot intraoperative radiotherapy for breast cancer, Foligno City Hospital experience Spoleto / IT: F. Fusconi

Comparison between VMAT boost after whole breast irradiation and targit as a boost in the management of breast cancer Barcelona / ES: I. García-Zamora

Frequency of whole breast irradiation (WBRT) after intraoperative radiotherapy (IORT) Córdoba / ES: M. Moreno-Manzanaro Moreno

Institutional Evaluation on the Use of Intraoperative Radiotherapy in Gynecologica Cancers Cleveland / US: E. Balagamwala

### Session E – Oral presentations various tumor sites

Gustav Mahler 1, 13:30 - 15:30 Chairs: D. Blakaj (Columbus OH / US), F. Röder (München / DE)

Intraoperative radiation therapy (IORT) in pancreatic cancer Berlin-Buch / DE: R. Krempien

Combination of perioperative chemotherapy and intraoperative radiotherapy for the treatment of resectable intrahepatic cholangiocarcinoma Moscow / RU: A. Shabunin Intraoperative high-dose-rate brachytherapy using the Freiburg flap Madrid / ES: R. Hernanz de Lucas

Local tumor control and long-term overall survival in 47 patients with anterior skull base tumors treated with intraoperative radiotherapy Salzburg / AT: M. Kopp

Feasibility of Dose Escalation Using Intraoperative Radiotherapy Following Resection of Large Brain Metastases Compared to Post-operative SRS Morgantown / US: C. Cifarelli

IOERT in locally recurrent high grade RPS: a retrospective single center analysis of 83 cases Munich / DE: L. Saleh-Ebrahimi

IOERT in primary retroperitoneal sarcoma: a retrospective single center analysis of 69 cases Munich / DE: F. Roeder

Intraoperative Radiotherapy (IORT) in the multimodality treatment of locally advanced prostate cancer Novara / IT: M. Krengli

Pase I/II trial of surface kilovoltage Brachytherapy in ocular conjuntival carcinoma: Preliminary results Lima / PE: C. M. Cabrera

IORT in Recurrent Salivary and Cervical Cancers Beirut / LB: Y. Zeidan

# **Session F – Clinical Trials**

Gustav Mahler 1, 16:00 - 17:30 Chairs: M. Haddock (Rochester / US), M. Krengli (Novara / IT)

- 16:00 IORT for sarcoma ongoing and future research München / DE: F. Röder
- 16:15 Intraoperative electron beam radiotherapy (IOERT) for locoregional peristent or recurrent head & neck carcinomas Columbus, OH / US: D. Blakaj
- 16:30 V-IORT: technical aspects. The experience at the European Institute of Oncology Milan / IT: B. Lazzari
- 16:45
   HIOB-trial: Updated results

   Salzburg / AT: G. Fastner
- 17:00 Latest update on current guidelines in breast cancer Mannheim study results Mannheim / DE: E. Sperk
- 17:15 ISIORT pooled analysis 2018: characteristics of intraoprative radiotherapy in 12,678 patients Novara / IT: M. Krengli
- 17:30 Closing remarks Mannheim / DE: F. Wenz

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## TRANSPARENCY

For disclosure of financial support of "10th ISIORT Conference" please visit: www.isiort2018.org

Saturday

#### **Scientific Committee**

ISIORT President Prof. Frederik Wenz Chairman Department of Radiation Oncology University Medical Center Mannheim University of Heidelberg

Dr. Sven Clausen Dr. Frank Schneider Dr. Elena Sperk

#### **Congress Agency**

m:con – mannheim:congress GmbH Rosengartenplatz 2 68161 Mannheim www.mcon-mannheim.de

# VISION INTO CONVENTIONS

#### **Project Management**

#### Marco Scinardo phone +49(0)621 / 41 06 - 184 fax +49(0)621 / 41 06 - 80 184 marco.scinardo@mcon-mannheim.de

#### **Event- Services - Registration**

Alexander Roßnagel phone +49(0)621 / 41 06 – 343 fax +49(0)621 / 41 06 – 80 343 alexander.rossnagel@mcon-mannheim.de

#### Travelling

#### - by car

From the A6 or A5 at the Mannheim or Heidelberg motorway intersection, continue towards "Mannheim-Mitte". You will reach the Rosengartenand the Dorint Congress Hotel via the Augustaanlage.

#### - by train & urban train

Mannheim is an ICE / IC junction station.There is a direct ICE connection from Mannheim to Basel, Berlin, Cologne, Düsseldorf, Frankfurt am Main, Frankfurt am Main Airport, Freiburg, Hamburg, Munich, Paris, Stuttgart and many other cities. You can reach the Rosengarten by taking the following tram routes:

#### Route 3:

travelling towards to Sandhofen, "Wasserturm" stop

#### Route 4:

travelling towards Käfertal / Heddesheim, "Wasserturm" stop

#### Route 5: OEG travelling towards Viernheim /

Weinheim, "Rosengarten"stop

#### by bus

Route 60: travelling towards Mannheim, Lanzvilla, "Wasserturm" stop

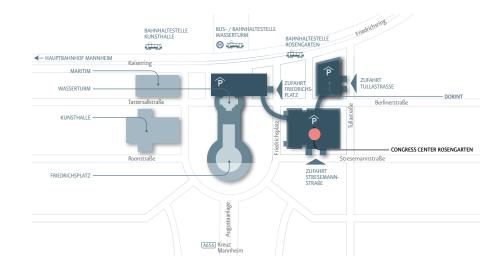
#### Route 63:

travelling towards Lindenhof, Pfalzplatz, "Wasserturm" stop

#### Route 64:

travelling towards Käfertal OEG Station, "Wasserturm" stop

#### Getting to the congress centrum



#### by plane

From Frankfurt Airport, a Lufthansa bus runs every hour to the Lufthansa Terminal. Mannheim is an ICE / IC junction station. There is a direct ICE connection from Mannheim to Basel Berlin, Cologne, Düsseldorf, Frankfurt am Main, Frankfurt am Main Airport, Freiburg, Hamburg, Munich, Paris, Stuttgart & many other cities. The Rosengarten is a five minute walk (walking towards the city centre) from the main railway station. Rhein-Neckar-Air offers several daily roundtrip flights between Mannheim and Berlin. Free parking & short distances within Mannheim city makes your arrival relaxed and easy.

