

Networking Activities Pillar and HITRI*plus* Seminars

22-23.05.2024

Manjit Dosanjh (Pillar Coordinator)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008548

Global Objectives for Networking Pillar

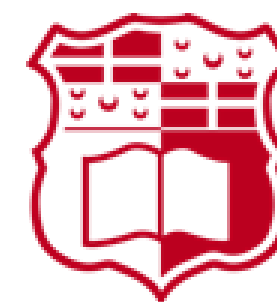
- ❖ To promote and communicate **outcome of research activities** among all HITRI*plus* partners
- ❖ To catalyse the **collaboration between the different scientific communities** (oncologists, physicists, radiobiologists, biomedical engineers.....), necessary for successful development and improvements in hadron therapy at the project and European level
- ❖ To promote hadron-therapy to the **research community all over Europe and beyond**
- ❖ To increase the **awareness** of HT to general public and the research and medical communities
- ❖ To highlight **new possibility** for cancer patients of this treatment
- ❖ To promote **transnational access** and **access to beam time** from HITRI*plus*
- ❖ To develop **training courses** for student, personnel working at the facilities and training of “end-users” (researchers that want to use the facility)

Networking Activities: WP2-WP5 Coordinators

- **WP2:** Communication and Networking: Peter Gruebling, SEEIIST
- **WP3:** Clinical Networking: Piero Fossati, MedAustron
- **WP4:** Innovation, Technology, Industry: Manuela Cirilli, CERN
- **WP5:** Education and Training: Nicholas Sammut, Uni of Malta



MedAustron ^N



L-Università
ta' Malta



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WP2 Deliverables and Milestones



Deliverable Number ¹⁴	Deliverable Title	WP number ⁹	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D2.1	Dissemination to the community about the possibility of the TA and access to clinical research with patients from EU - through out	WP2	1 - CNAO	Report	Public	3
D2.2	Dissemination and outreach activities developed and regularly updated	WP2	13 - SEEIIST	Report	Public	42
D2.3	Provide an annual activity report for the NA Pillar and final scientific achievements including the use and dissemination of foreground.	WP2	13 - SEEIIST	Report	Public	46



done



done and in progress



done and in progress

Milestone number ¹⁸	Milestone title	Lead beneficiary	Due Date (in months)	Means of verification
MS2	Project website launched	1 - CNAO	2	Realization of Project Website



done



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THE IMPACT OF DEDICATED COMMUNICATION

Raise Awareness, Build Communities, Promote Collaboration in Multidisciplinary field of Particle Therapy

Highlighting how HITRI *plus* project is doing this by providing opportunities in all aspects from fundamental research to clinics and sharing this with wider community and encouraging them to join.



WP3: CLINICAL NETWORKING

WP3: Clinical networking

WP NA3	Start Date	Month 1	End Date	Month 48		
WP Title:	Clinical Networking					
Participant no.						
Participant	<u>MEDA</u>	HIT	CNAO	MIT		
Person months	19	25	33	17		
Objectives						
<p>Task 3.1: Trial design for innovative use of heavy ion therapy</p> <ul style="list-style-type: none"> Review preclinical data to identify promising novel approaches to exploit heavy ion therapy advantage Design one trial as a template for bringing innovative heavy ion therapy approaches in the clinics <p>Task 3.2: European registry of heavy ion therapy patients</p> <ul style="list-style-type: none"> Set up a European registry to collect data on rare cancers treated with heavy ion therapy <p>Task 3.3: European agreement for OARs dose constraints with heavy ion therapy</p> <ul style="list-style-type: none"> Review existing data on OARs dose constraints in use in the clinical facilities Perform pooled data analysis to validate constraints on critical OARs 						

Task 3.1

1: Hypoxia and reoxygenation

2: Synergistic effect of CIRT and immunotherapy

3: LET based optimization

Task 3.2

Patient ID	Sex	Date of birth	Age	Type of diagnosis	Comorbidity	Previous cancer	Specify cancer	Year of diagnosis	Radiotherapy treatment	Year of radiotherapy	Specify energy	Total dose	Chemotherapy treatment?	Year

Campo Chiara:

- Primary Tumor
- Relapsed Tumor - Local (T)
- Relapsed Tumor - Regional (N)
- Relapsed Tumor - Metastatic (M)
- Radiation-induced Tumor

Campo Chiara:

- Yes
- No
- Unknown

Campo Chiara:

- Yes
- No
- Unknown

Campo Chiara:

- Carbon ions
- Protons
- Photons
- Unknown

Campo Chiara:

- Yes
- No
- Unknown

Campo Chiara:
According to MedDRA

The database has so far been used only by CNAO

In the last phase of the project the database will be used to support the activity of task 3.3.

WP3: Deliverables and Milestones



Deliverable Number ¹⁴	Deliverable Title	WP number ⁹	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D3.1	Review of promising innovative heavy ion therapy approaches to be brought to the clinics and Trial protocol for innovative heavy ion therapy concept	WP3	10 - MEDA	Report	Public	18
D3.2	Web based heavy ion therapy patient registry	WP3	1 - CNAO	Websites, patents filling, etc.	Confidential, only for members of the consortium (including the Commission Services)	
D3.3	Dose constraints of OARs in use at European heavy ion therapy facilities and Recommendations for dose constraints on one OAR based on pooled data analysis	WP3	8 - UKHD	Report	Public	
D3.4	Trial protocol for innovative heavy ion therapy concept	WP3	10 - MEDA	Report	Public	

Milestone number ¹⁸	Milestone title	Lead beneficiary	Due Date (in months)	Means of verification
MS3	Evaluation of impact on European centres OARs constraints	10 - MEDA	42	Report on the evaluation of Organ at Risk constraints on the European centres
MS14	Evaluation of web based registry development status	10 - MEDA	18	Report on the development status of the web based registry



UNIVERSITÄTS
KLINIKUM
HEIDELBERG



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WP4: Deliverables and Milestones

Deliverable Number ¹⁴	Deliverable Title	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D4.1	HITRIplus technologies and dissemination plan	4 - CERN	Report	Confidential, only for members of the consortium (including the Commission Services)	28
D4.2	Value propositions	7 - GSI	Report	Public	28
D4.3	Technology matching event	9 - INFN	Report	Public	36

Milestone number ¹⁸	Milestone title	Lead beneficiary	Due Date (in months)	Means of verification
MS4	First meeting of the Technology Overview committee	4 - CERN	8	Meeting of the Technology Overview committee, dedicated to the definition of the workplan.

January 2024  Done

September 2024  In Progress

November 2021  Done



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Results so far

- 12 HITRIplus Technologies Identified
- 3 Companies have signed the Memorandum of Understanding with the coordinator
- 19 Companies have expressed industrial interest
- 7 Value Propositions and one brochure for WP7-12 technologies have been produced targeting companies

Ongoing activities

- Communication and awareness of the HITRIplus technologies targeting companies on website and social media
- Active outreach to companies at conferences (PTCOG, and possibly ESTRO)
- Advising on usage of Technology Transfer Tools (e.g Legal Framework)

WP5: Deliverables and Milestones

Task	Deliverable	Lead	Due Date	% Completed	Status
5.1	Delivery of Specialised Training Courses	SEEIIST	M30	100%	Completed Deliverable submitted
5.2	Delivery of Masterclasses and train-the-trainer masterclasses	GSI	M47	95%	Completed Report in Progress
5.3	Provision of e-learning courses	UM	M30	100%	Completed Deliverable submitted
5.4	Organisation of secondments and internships: calendar of events	UM	M24	100%	Completed Deliverable submitted
M5.1	Specialised Courses and Masterclass Definition	SEEIIST	M18	100%	Completed Deliverable Submitted



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Networking Pillar - HITRI*plus* Seminars

Manjit Dosanjh



HITRI*plus* Seminars Overview

HITRI*plus* Monthly Seminars, organized by the Networking Pillar Coordinator, convene multidisciplinary experts to advance heavy ion therapy research, showcasing the latest developments and fostering global collaboration. Popular and well attended

With 17 seminars held to date, featuring prominent speakers like Dr. Noriyuki Okonogi and Prof. Aswin Hoffmann, these sessions have highlighted innovations such as Immuno-CIRT, FLASH radiotherapy, and MRI-guided proton therapy

Recorded seminars are accessible via the HITRI*plus* website and YouTube channel, ensuring widespread dissemination and ongoing educational opportunities.

STEADY PROGRESS: CONSISTENT SEMINAR SUCCESS AND ATTENDANCE SINCE OUR LAST MEETING



**FRANCESCA
ALBERTINI**



SCIENTIFIC
COORDINATOR, PSI



**MANJIT
DOSANJH**

PROJECT LEADER, STELLA PRO



**LAURA
VALLOW**

PROFESSOR OF RADIATION
ONCOLOGY AND THE DEPT
CHAIR FOR THE DEPARTMENT
RADIATION ONCOLOGY AT
CLINIC FLORIDA



**PAWEL
MOSKAL**



PROFESSOR,
JAGIELLONIAN
UNIVERSITY (JU)



**ASWIN L.
HOFFMANN**

HEAD OF EXPERIMENTAL
MR-PROTON THERAPY AT
ONCORAY (DRESDEN)

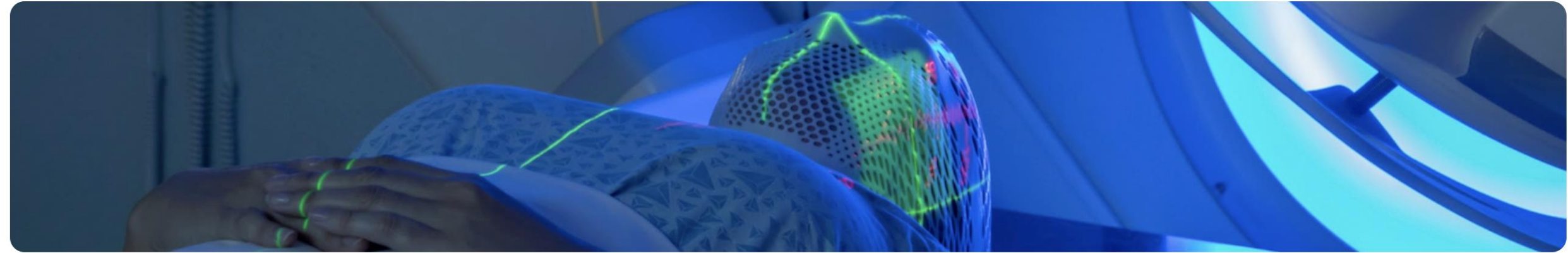
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HITRIplus



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HITRIplus is a multidisciplinary collaborative EU-funded project aiming to integrate an adva... >

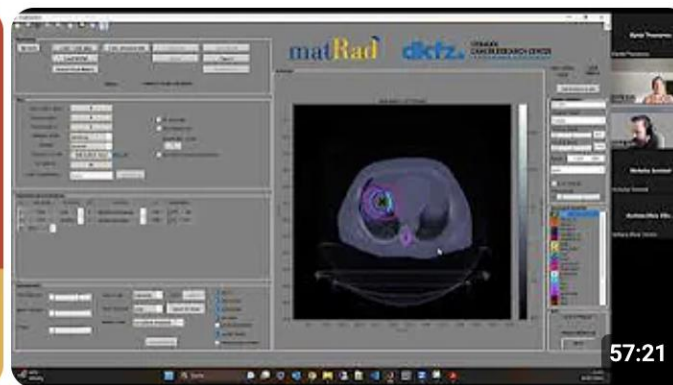
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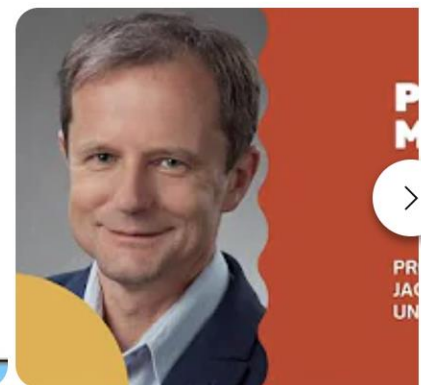
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3rd HITRIplus School: Radiobiology and General Introduction - Walter Tinganelli (GSI)
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16th Seminar of HITRIplus
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Subscriptions

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Thank you and happy to answer your questions

