



What happened since the last Newsletter?

We planned the mid-term meeting to be a face-to-face meeting in The Netherlands, January 18-19 2022 and linked to that the first training week for the fellows. Obviously, all depended on the coronavirus situation in the different countries and unfortunately, we had to revert to an online meeting instead. Despite this drawback, the meeting was a success and the PO was very satisfied with the progress of the network so far. The fellows did have two trainings online (Presentation skills/Time and project management) and the mentoring training was delayed to June (see below).

Unfortunately, after the meeting we had one fellow (Patricia Enriquez Calzada at Medlogix) who for personal reasons chose not to continue her work in the Hyperboost network. This meant we had to re-advertise this position, and we managed to recruit a new fellow: Artemis Kontogoula.

First face-to-face finally happened: the training week in June/July in the Netherlands.

For details on the program, please check our website ([Second training week \(Jun 2022\)](https://hyperboost.eu/)).

One of our fellows, Faezeh Rahimi, posted her experience on LinkedIn which she phrased very

well, so here you can read all about the training week below;

The first in-person meeting of the Hyperboost network finally happened and what a great gathering and bonding it was, with all of the other PhD students and those PIs who we found the chance to meet. The nice atmosphere was always floating in the group during the courses and social events.

Two weeks of training and networking started with the Hyperboost planned microscopy course by Dr. Przemek Krawczyk and his team and mentoring courses by prof. Mark Dewhirst in Amsterdam UMC



The week ended with a symposium on the Legacy of prof. Gerard Van Rhoon in Rotterdam which was an honor to be there and

see the reward of 45 years of dedication to science with too many achievements.



Then the ESHO school of 2022 started with the course of EM simulations for hyperthermia treatment planning in TU/e Eindhoven through presentations and training by prof. Maarten Paulides, Dr. Kemal Sumser, and Ellen van Wesel which was a real hands-on course. This course was completed by the 2nd day in Erasmus MC in Rotterdam by tracking the complete clinical process of hyperthermia treatment from RF applicator design and test, phantom making, CT scan to patient modelling, and superficial and deep hyperthermia treatment and MR thermometer, etcetera by many professional engineers, physicists and clinicians under the supervision of Dr. Sergio Curto and prof. Gerard Van Rhoon. Then it was finished with a very practical course on the HIFU treatment in UMC Utrecht. I also continued it myself by visiting the MR group in UMC Utrecht as a successful MRI group thanks to Sarah Jacobs. Thanks to Hans Crezee, Laurian Jongejan, and Hana Dobsicek Trefna for organizing these fruitful 2 weeks.

In addition, the fellows joined in a trip to the Zaanse Schans where they enjoyed a typical Dutch treat: Pannekoeken!



The third training week is also planned, in September in Sweden;

(<https://hyperboost.eu/index.php/training/third-training-week-sep-2022>). This time the fellows will start with the theoretical part of the ESHO school, in the beautiful Kajkanten located on the island Vrångö in the Gothenburg archipelago, September 12-13 2022. After that they will attend the ESHO conference and then travel to Stockholm the weekend for the RaySearch: advanced radiotherapy planning course organized by our Hyperboost partner; RaySearch Laboratories AB.

First fellows on secondments!

Secondment in Amsterdam: Sergio Mingo Barba

My first secondment within the Hyperboost programme took place in the Department of Medical Biology of the Amsterdam UMC (AMC) between January and March of 2022.

This wasn't my first time in Amsterdam (I was there one weekend at the end of 2019), so I already knew what a beautiful and interesting city Amsterdam is. However, due to this time I stayed longer there, I could get a new perspective of Amsterdam and, specially, of the Netherlands. I was able to visit lots of



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museums, to discover new places often “hidden” to the tourist and to be part of the sea of bicycles which is Amsterdam. Also, during my stay, I used to buy a daily train ticket on Sunday in order to visit 3-4 new cities. In such a way, I was able to visit around 20 different places within the Netherlands.



For more information on the network and topics/input for the next newsletter please contact the project manager (Laurian Jongejan);

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Socially, the first weeks were a bit difficult because of the lockdown which was in place in the Netherlands. But, once the restrictions were removed, I was able to meet new people from different countries with whom I shared lots of amazing new experiences.

From the scientific point of view, this secondment was very enriching for me because, as a physicist, my background in biology is quite limited and this experience allowed me to have a deeper and better understanding of the radiation oncology biology and how a biological lab works. Moreover, my colleagues in the AMC were very welcoming to me and they were always willing to help me and looking forward to start common projects to collaborate in the future.



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Consortium Member	Short Name	Dept./Division/Laboratory
<u>Beneficiaries</u>		
Academic Medical Center Amsterdam, The Netherlands	AMC	Dept Radiotherapy and Center for Experimental Molecular Medicine
Aarhus University, Denmark	AU	Dept Experimental Clinical Oncology
University of Zurich, Switzerland, grantholder for Cantonal Hospital Aarau	UZH	Radio-oncology Department
Universitäts-klinikum Erlangen, Germany	UKER	Department of Radiation Oncology
Zurich University of Applied Sciences, Switzerland	ZHAW	Institute of Applied Mathematics and Physics
Dr. Sennewald Medizintechnik GmbH, Munich, Germany	SMT	Expertise: devices for hyperthermia
Medlogix Rome, Italy	ALBA	Expertise: devices for hyperthermia
Charité - Universitäts-medizin Berlin, Germany	CUB	Department of Radiation Oncology
Chalmers University of technology Göteborg, Sweden	CUT	Signals and systems
Erasmus Medical Center Rotterdam, The Netherlands	EMC	Department of Radiation Oncology
Max-Delbrück Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany	MDC	Berlin Ultrahigh Field Facility
<u>Partner Organisations</u>		
Duke University Medical Center, USA	DUMC	Dept of Radiation Oncology
European Society for Radiotherapy & Oncology	ESTRO	Education and Science
European Society for Hyperthermic Oncology	ESHO	n/a
RaySearch Laboratories AB (publ), Stockholm, Sweden	RAY	Chief Science Officer
University of Amsterdam	UvA	Doctorate Board, Rector's Office
MRI.Tools GmbH	MRIT	Chief Science Officer



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