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MultidisciplinarY training network for ATrial fibRillation monItoring, treAtment and progression

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1. Summary

This document describes the activities of the third Winter School of the MY-ATRIA consortium. The theme of the school was: “Technology Transfer” and it was hosted digitally at University of Milan (using the platform Zoom) in Italy. The event was planned to offer more supervision for the ESRs and to practice more conference-like communication. Lectures were focused on the identification of market potential of the scientific research, the protection of research findings using patents vs trade secrets, CE certification, marketing and pitch presentation design, as well as on how to secure fundings.

The Winter School lasted for five days, with ESR presentations and discussion during the first three days and scientific lectures during the remaining two days.

An evaluation of the Winter School was performed after the school and the results will be reported in a following Deliverable D5.7.

2. Summer school objectives and agenda

The objectives of the digital Winter School in Milano were:

- For ESRs to present their project and to receive feedback from other ESRs and supervisors.
- To train the ESRs in technology transfer, Intellectual property protection and commercialization.
- To train the ESRs in project pitching and in writing grant applications.

The meeting started at 8.30 on January 11, 2021 and lasted until 12.30 on January 15, 2021, see agenda below.

Monday, 11 January 2021		
TIME	**ACTIVITY**	**RESPONSIBLE/SPEAKER**
8:30	**Winter School Opening (& technical details)**	Luca Mainardi (POLIMI) & Roberto Sassi (UMIL)
9:00	**ESR12: Effect of atrial fibrillation dynamics on the efficacy of ablation therapies**	Jennifer Riccio (UNIZAR)
9:35	**ESR11: Assessment of AF therapies targeting ion channels and neural components**	Chiara Celotto (UNIZAR)
10:10	**ESR10: Integrated and personalized computational model of atria with AF for an efficient ablation therapy**	Luca Azzolin (KIT)
10:45	**Coffee break**	
11:15	**ESR9: Evaluation of the interplay mechanism between AF and AT detected by a single lead ECG**	Guadalupe García Isla (POLIMI)
11:50	**ESR8: Assessment of the AF triggers and their role in its progression**	Francisco Javier Saiz Vivo (MEDTRONIC BRC)
12:25	**ESR7: Risk stratification and prediction of intervention outcome in AF using novel ECG-based markers of atrial remodeling**	Mostafa Abdollahpur (LUND)

Tuesday, 12 January 2021		
TIME	**ACTIVITY**	**RESPONSIBLE/SPEAKER**
8:30	**ESR6: AF screening using everyday sensors and data fusion**	Hesam Halvaei (LUND)
9:05	**ESR5: Paroxysmal atrial fibrillation: Continuous tracking of arrhythmia progression**	Ricardo Salinas Martínez (MIE)
9:40	**ESR4: Atrial complex networks in endocavitary recordings during AF**	Muhamed Vila (UMIL)
10:15	**Coffee break**	
10:45	**ESR3: Body Surface Potential Maps and ECG-signals of AF**	Giorgio Luongo (KIT)
11:20	**ESR2: Detailed 3-D computer models of human atria and torso for studying atrial fibrillation initiation and progression**	Rebecca Belletti (UPV)
11:55	**ESR1: Bottom-Up study on the implications of interatrial block in the mechanisms of atrial fibrillation**	Jordan Eliot (POLIMI)

Wednesday, 13 January 2021		
TIME	**ACTIVITY**	**RESPONSIBLE/SPEAKER**
8:30	**How to identify the scientific potentials in your own research**	Mirko De Melis (MEDTRONIC BRC), Sr. Pr. Scientist & Technical Fellow
9:20	**Design Control, CE-marking and Quality Management Systems. What do you need to legally commercialize your product?**	Marco Manduchi (MIE), RA Manager
10:10	**Coffee break**	
10:40	**Patents and Trade secrets: how to protect your ideas?**	Andrea Civera, Senior Associate Patent Attorney Reddie & Grose LLP, UK (courtesy of MIE)
11:30	**Market research: How to assess the technological and commercial potential of your ideas?**	Ryan Donlon (MIE), Senior Manager Marketing
12:20	**Lunch break**	
14:30	**Presentation & Pitch design**	Maurizio La Cava, Startup Pitch Strategist PoliHub and author of "Startup pitch"

Thursday, 14 January 2021		
TIME	**ACTIVITY**	**RESPONSIBLE/SPEAKER**
8:30	**Marketing and Entrepreneurship in Life Sciences**	Mirko de Melis (MEDTRONIC BRC) Sr. Pr. Scientist & Technical Fellow
9:30	**An update on new funding opportunities in Horizon Europe 2021-2027 & Project management**	Laura Mazzola (POLIMI), Fondazione Politecnico
10:30	**Coffee break**	
11:00	**Supervisory Board Meeting**	(MY-ATRIA Supervisory Board members only)

Friday, 15 January 2021		
TIME	**ACTIVITY**	**RESPONSIBLE/SPEAKER**
8:30	**Grant writing workshop, Part 1, The art of grantsmanship**	Alice Barbaglio (UMIL), Officina H2020
9:30	**Grant writing workshop, Part 2, Let's play! Write your own proposal (ESRs/PhD students only)**	Alice Barbaglio (UMIL), Officina H2020
11:00	**Coffee break**	
11:30	**Grant writing workshop, Part 3, Try the referee experience: evaluate your peers (ESRs/PhD students only)**	Alice Barbaglio (UMIL), Officina H2020
12:30	**End of the winter school**	

3. ESR presentations (days 1-2)

The ESR presentations were performed as conference-like talks of 20 min duration with 15 min discussions. Many of the ESRs already presented at conferences before. All ESRs and supervisors participated in the discussions and the questions and discussion were very detailed and focused on methods and results.

4. Scientific lectures (day 3-5)

The scientific program on day 3 was focused on technology transfer including how to identify scientific potential in research projects, CE-marking, commercialization, patents and trade secrets. This training came in a good time for the ESRs when they are getting closer to completing their PhD training.

On day 4, lectures focused on marketing and entrepreneurship in life sciences, on the basic of research project management, and on the new funding opportunities in Horizon Europe 2021-2027.

On day 5, the ESR training was focused on grant writing with a workshop divided in three parts, in which the ESRs interacted with the lectur and were challenged in preparing and evaluating a short summary for a project proposal.

5. Networking activities

Two digital social activities were arranged on the themes "Math & Music" followed by a "Remote drink" session.

6. Winter school evaluation

An online survey, following the guidelines described in the Deliverable D5.4 "Evaluation Questionnaries" was created with Google Forms and completed by each ESR. The results of the survey was reported in the Deliverable D5.7 "Evaluation Questionnaries M36", due in month 36th.

7. Conclusions

The objective of the digital Winter school in Milan was to guide the ESRs into technology transfer and writing of grant application and at the same time to do a conference-like digital presentation with detailed discussions. The ESRs performed a 20-minute presentation with more detailed results of their second or third project, receiving more detailed feedback from other ESRs and supervisors. Scientific lectures on a broad area of themes were delivered preparing the ESRs for the life after the PhD.