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**Evolving reversible iMmunocapture by membrane sensing peptides:
towARds scalable extracellular VEsicLes isolation**

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MARVEL Final Conference

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EXECUTIVE SUMMARY

The deliverable D6.12 MARVEL final conference summarises the aims of the final dissemination event of the MARVEL project. The final workshop entitled “Extracellular vesicles: From research to medical application and market readiness” was organised by SCITEC-CNR and AMIRES and took place on the 21st of April in Milan, Italy.

The document includes a detailed agenda, the results of the campaign that promoted the workshop, and the main conclusions.



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1. INTRODUCTION

The aim of the MARVEL final workshop was to officially present the MARVEL project in overall to a wide external audience, as well as to showcase the expertise and capabilities of the consortium. The goal was to maximise the exploitation potential of the developed results and to create a base for future networking and new partnerships. With this aim, beside scientific presentations given by all project participants, a round table discussion was organized titled **“Engage & Connect: best practices on the innovation pathway “** to gather expert opinions from panellists and audience about currents needs and trends in the EV field from the point of view of academia, translational (clinical) research and market.

The workshop was held on 21 April 2023, the next day after the MARVEL final M30 meeting, at the SCITEC - Istituto di scienze e tecnologie chimiche "Giulio Natta in Milan, Italy, which allowed a wide participation of the consortium partners and external attendees.

2. PREPARATION FOR THE WORKSHOP

The workshop entitled “Extracellular vesicles: From research to medical application and market readiness” took place at SCITEC-CNR in Milan, Italy of the 21 April, from 9 am to 2 pm. In total, the event gathered 48 experts from academia, research hospitals and from companies and was also open to young investigators working in the field of Extracellular Vesicles.

2.1. Workshop program

The MARVEL workshop program (Table 1) was designed by the Project Coordinator and Dissemination manager to optimally structure the topics and timing of the meeting.

Table 1. MARVEL final workshop program.

PROGRAM	
08:45 – 09:15	Registration
9:15 – 09:20	Welcome and Opening Marina Cretich, National Research Council of Italy at SCITEC-CNR, Milan, Italy
09:20 – 09:40	Liquid biopsy as a source of biomarkers in cancer detection: focus on urinary extracellular vesicles Riccardo Vago, Vita-Salute San Raffaele University, Milan, Italy
09:40 – 10:00	Extracellular vesicles surface antigens instrumental for clinical management of cardiovascular patients Lucio Barile, Istituto Cardiocentro Ticino, Ente Ospedaliero Cantonale, Bellinzona, Switzerland
10:00 – 10:20	Extracellular Vesicles: New Players in Primary Aldosteronism Jacopo Burrello, Istituto Cardiocentro Ticino, Ente Ospedaliero Cantonale, Bellinzona, Switzerland University of Torino, Department of Medical Sciences, Torino, Italy
10:20 – 10:40	Membrane technology for life science Loredana De Bartolo, National Research Council of Italy at ITM-CNR, Rende, Italy
10:40 – 10:50	PaperdropDx: a paper-based point-of-care testing technology for Global Health challenges Lourdes Rivas, Paperdrop Diagnostics SL, Barcelona, Spain
10:50 – 11:00	Activities and research trends in HansaBioMed Life Sciences Andres Lõhmus, HansaBioMed Life Sciences Ltd, Tallinn, Estonia
11:00 – 11:40	Coffee and networking break
11:40 – 12:00	The Membrane Sensing Peptides (MSP) toolbox in EV research Alessandro Gori, National Research Council of Italy at SCITEC-CNR, Milan, Italy
12:00 – 13:20	Round Table - Engage & Connect: best practices on the innovation pathway (<i>Brief introduction from each panellist and discussion</i>) Panelists: <ul style="list-style-type: none"> • Benedetta Bussolati, University of Torino - President of EVIta-Italian Society for Extracellular Vesicles • Yuri D’Alessandra, Bio-Techne Brands Products - Sale Specialist • Alessandro Gori, SCITEC-CNR – MARVEL Innovation Manager • Alice Gualerzi, IRCCS Fondazione Don Gnocchi - translational research in biomedicine & biotechnology • Andres Lohmus, HansaBioMed Life Sciences Ltd –Extracellular Vesicles specialized company • Ilaria Mancini, Quanterix – Field application Scientist
13:20 – 13:30	Wrap-up and Conclusive remarks Marina Cretich, National Research Council of Italy at SCITEC-CNR, Milano, Italy

2.2. Dissemination Campaign

In order to maximise the outreach of the workshop, an active online campaign was designed to promote it across different dissemination channels (Figure 4). The campaign consisted of the main banner (Figure 1), banner with the meeting place (Figure 2) and program (Figure 3) that in total led to 12 dissemination posts that were posted in the weeks leading up to the event. Overall, 51 registrations were received during the dissemination campaign.

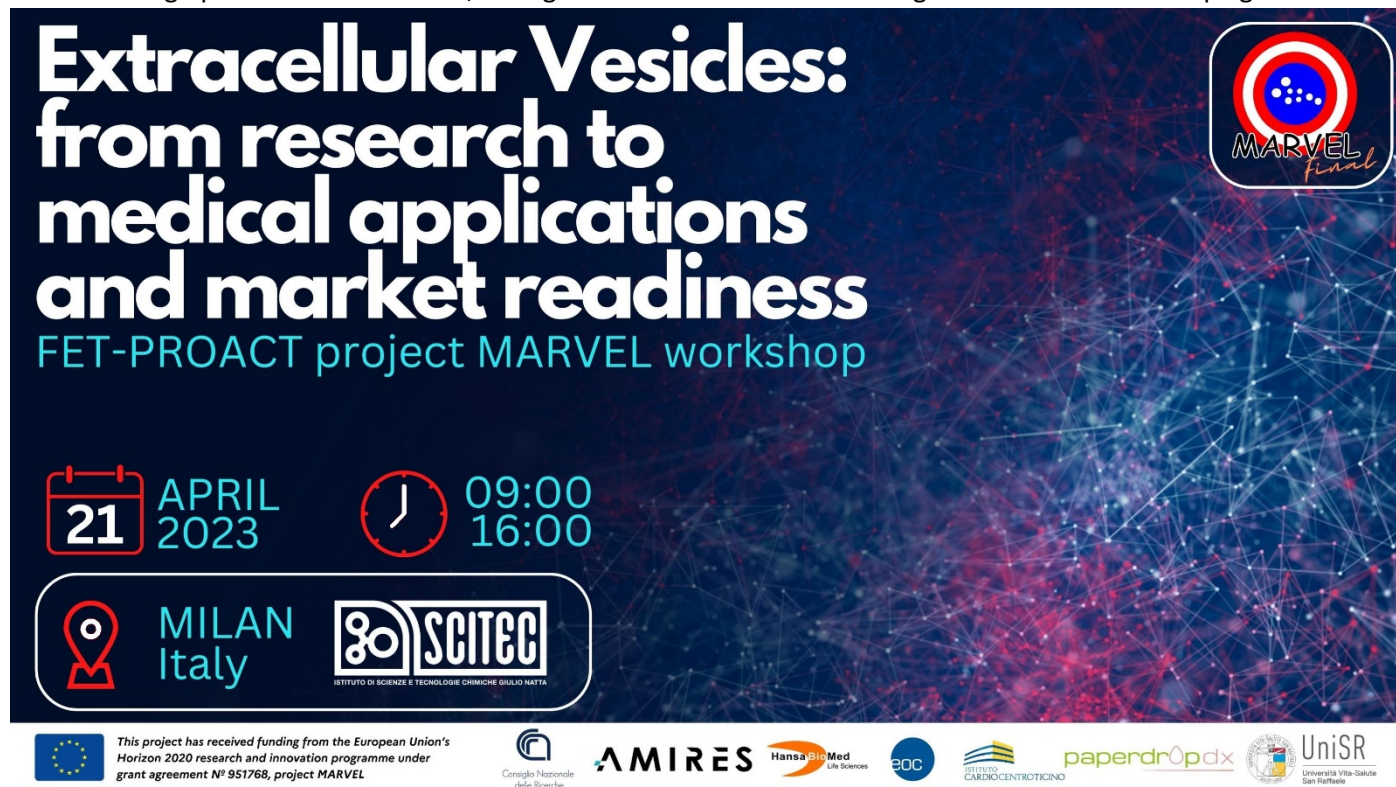


Figure 1. The main MARVEL workshop banner.

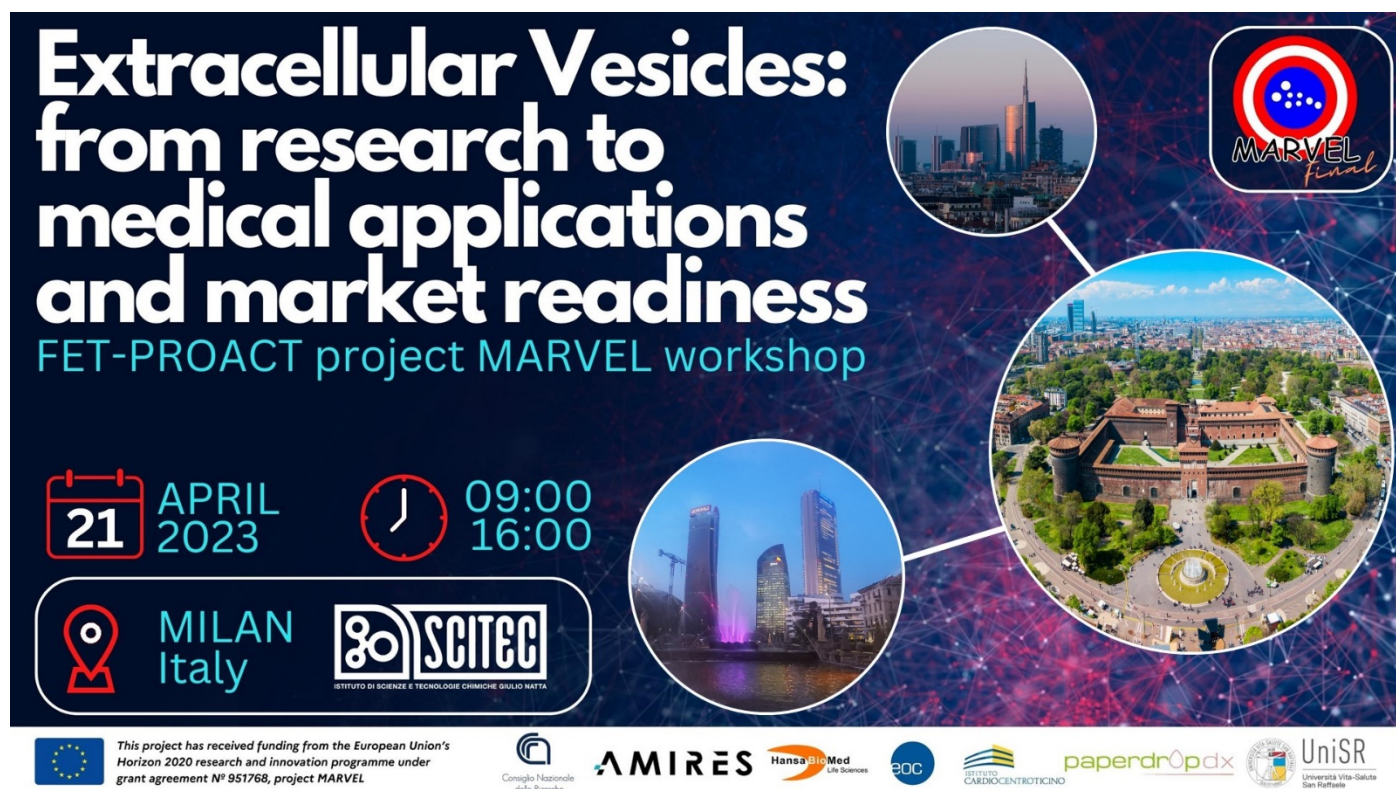


Figure 2. MARVEL workshop banner with location.

Extracellular Vesicles: from research to medical applications and market readiness

FET-PROACT project MARVEL workshop



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13:20 – 13:30	Wrap-up and Conclusive remarks Marina Cretich, National Research Council of Italy at SCITEC-CNR, Milano, Italy

MEETING ORGANIZING COMMITTEE

<i>Scientific organizing committee:</i>	Marina Cretich and Alessandro Gori (SCITEC-CNR, Milan, Italy)
<i>Local organizing committee:</i>	Paola Gagni, Greta Bergamaschi, Roberto Frigerio (SCITEC-CNR, Milan, Italy)
<i>Communication and dissemination:</i>	Yevhen Horokhovatskyi (AMIRES, Prague, Czech Republic)

Figure 3. MARVEL workshop program for the dissemination purposes.

Marvel Project • You
Evolving reversible iImmunocapture by membrane sensing peptides: to...
1mo • Edited •

Registration is open!

FET-PROACT project MARVEL workshop

Are you an industrial representative, #researcher, or young #investigator working in the expansive field of #ExtracellularVesicles? Would you like to be involved in discussions with #experts in this field and establish your new #network for future #collaborations? Register for free and join the Extracellular Vesicles dedicated workshop.

Deadline April 15!

CNR SCITEC 'Giulio Natta' - Milan, Italy

CNR SCITEC 'Giulio Natta' and AMIRES invite you to the Extracellular Vesicles (EVs) dedicated #workshop with the main slogan "Extracellular Vesicles: from research to medical applications and market readiness". It is organized in the frame of the EU-funded Marvel Project.

The workshop initiative aims to bring together experts and young investigators from different countries working in the field of extracellular vesicles. Structured around keynote presentations from invited speakers, and flash presentations from young investigators, the workshop will facilitate the exchange of views on the current and future #technology solutions, #clinical and #market needs in the expansive field of Extracellular vesicles and their applications in the #HealthcareSector. Take the opportunity, to participate, discuss, and find out the state of the art in research and technology with respect to extracellular vesicles.

Registration form is available here <https://lnkd.in/emcWMVzK>

CNR SCITEC 'Giulio Natta', CNR-ITM, USI Università della Svizzera italiana, Ente Ospedaliero Cantonale (EOC), Libera Università Vita-Salute San Raffaele, HansaBioMed Life Sciences Ltd, Paperdrop Diagnostics, AMIRES

#workshop #meeting #research #project #technology #network

Marvel Project • You
Evolving reversible iImmunocapture by membrane sensing peptides: to...
6d •

GOOD NEWS! The capacity of the registered attendees for the MARVEL #ExtracellularVesicles dedicated #workshop is almost full.

Nevertheless, we still have several places for you! Use this chance to meet with #Experts and #YoungInvestigators from different countries working in the expansive field of #ExtracellularVesicles.

Find more information in the meeting program and register by April 17. Establish your new #network for future #collaborations!

<https://lnkd.in/emcWMVzK>

CNR SCITEC 'Giulio Natta', CNR-ITM, Libera Università Vita-Salute San Raffaele, Istituto Cardiocentro Ticino - EOC Ente Ospedaliero Cantonale, HansaBioMed Life Sciences Ltd, Paperdrop Diagnostics

#workshop #meeting #research #project #technology #network #lifesciences

Figure 4. Examples of the MARVEL workshop dissemination campaign.

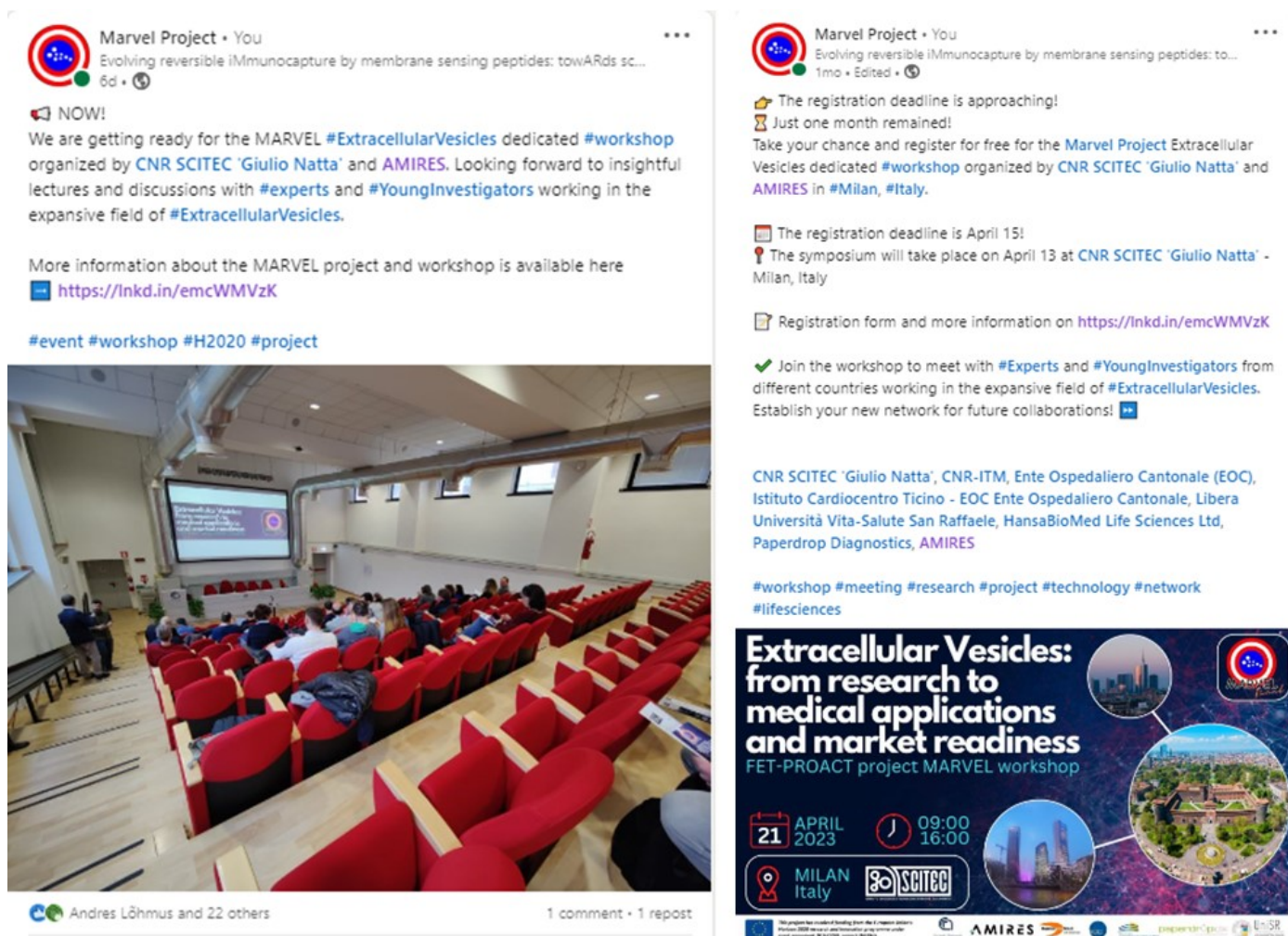


Figure 5. Examples of the MARVEL workshop dissemination campaign.

2.3. Participants list

The list of registered participants of the MARVEL workshop is presented below. Apart from external attendees, 14 partners from the consortium have been actively involved into the workshop. Overall, the workshop gathered 48 attendees.

Table 2. The list of attendees of the MARVEL workshop.

First Name	Last Name	Type	Institution
Alesandro	Haxhiu	Academia	University of Siena
Alice	Gualerzi	Hospital / Clinical researcher	IRCCS Fondazione Don Gnocchi
Andrea	Zendrini	Academia	Università degli Studi di Brescia
Angela	Marcianti	Hospital / Clinical researcher	Fondazione IRCCS Istituto Neurologico Carlo Besta
Angelo	Musica	Academia	Università degli Studi di Brescia
Anna Maria	Ferretti	Academia	SCITEC-CNR
Beatrice	Bona	Academia	Politecnico di Milano
Carlo Francesco	Morasso	Hospital / Clinical researcher	Istituti Clinici Scientifici Maugeri IRCCS
Cristina	Catoni	Hospital / Clinical researcher	Veneto institute of Oncology



Cristina	Grange	Academia	Universit� di Torino
Cristina	Chirizzi	Academia	Politecnico di Milano
Daniela	Lisini	Hospital / Clinical researcher	IRCCS Neurological Institute C. Besta Foundation
Daniela	Boselli	Hospital / Clinical researcher	San Raffaele Hospital
Dorian	Tace	Hospital / Clinical researcher	Ospedale Policlinico di Milano
Edoardo	Marchisio	Industry	DIA.PRO srl
Eleonora	Spampinato	Hospital / Clinical researcher	Fondazione IRCCS Carlo Besta
Esteban	Ortega	Industry	Wellbeing International Foundation
Federica	Panico	Academia	CNR SCITEC
Francesca	Susa	Academia	Politecnico di Torino
Francesca	Baldelli Bombelli	Academia	Politecnico di Milano
Francesco	Damin	Academia	SCITEC-CNR
Franco	Gatti	Innovation support provider	Gatti
Franco	Gatti	Industry	Caldic Italia srl
Giacomo	Pozzi	Academia	Universit� degli studi di Milano
Giulia	Lodigiani	Academia	CNR
Greta	Bergamaschi	Academia	SCITEC-CNR
Igea	Agnano	Academia	ITB-CNR
Ilaria	Prada	Industry	Axxam S.p.A.
Ilaria	Mancini	Other	Quanterix
Irma	Schabussova	Academia	Medical University of Vienna
lorenzo	arnaboldi	Academia	UNIMI DISFeB
Majeda	Muluhie	Academia	University of Milan
Marcella	Chiari	Academia	CNR
MARCO	PADOVANI	Other	Quanterix
Marta	Dossena	Industry	Bio-techne
Noemi	Elia	Hospital / Clinical researcher	Ospedale Policlinico
Paola	de Candia	Academia	Universit� degli Studi di Napoli Federico II
PAOLA	GAGNI	Academia	SCITEC-CNR
Pietro	Parisse	Academia	Istituto Officina dei Materiali - CNR
Pietro	Milesi	Academia	Politecnico di Milano
Sara	Nava	Hospital / Clinical researcher	Fondazione IRCCS Istituto Neurologico C. Besta
Silvia	Picciolini	Hospital / Clinical researcher	IRCCS Fondazione Don Carlo Gnocchi
Tania	Limongi	Academia	Politecnico di Torino
Valeria	Peli	Hospital / Clinical researcher	Irccs C� Granda Ospedale Maggiore Policlinico di Milano
VALERIO	BRIZI	Industry	AXXAM S.p.A.
Virginia	Catani	Academia	University of Modena and Reggio Emilia
Virginia	Catani	Academia	University of Modena and Reggio Emilia
Yuri	Alessandra	Industry	Bio-Techne

3. EXTRACELLULAR VESICLES: FROM RESEARCH TO MEDICAL APPLICATION AND MARKET READINESS

The Extracellular Vesicles dedicated workshop was a great success overall. Participants felt extremely welcomed at SCITEC-CNR (Figure 6, Figure 7) and were delighted they could hear more about the MARVEL project and its technology, hosting partner and other leading experts in this field. Overall, the workshop gathered 48 attendees (Figure 8). The workshop initiative aimed to bring together experts and young investigators from different countries working in the field of extracellular vesicles. During the first session of the workshop, lectures from Marvel consortium members were given on different aspects of Extracellular Vesicles research, current challenges, needs as well as innovative solutions were presented.

The whole consortium had visibility and the chance to showcase their specific expertise and activities even beyond Marvel, in view of future possibilities of collaboration. A networking coffee break was organized to facilitate discussion among all attendees in a friendly atmosphere.



Figure 6. Welcome and registration desk for the MARVEL workshop.



Figure 7. MARVEL workshop welcome and opening.



Figure 8. Participants of the MARVEL workshop.

Additionally, participants also had the chance to participate in a round-table discussion with industrial representatives and leading researchers in this field (Figure 9).

The round table titled “**Engage & Connect: best practices on the innovation pathway**” was structured around short presentations of the panellists on the current needs in their specific areas of interest and on envisioned future trends. Then, round table, moderated by Marina Cretich, Marvel coordinator, was centered around the following topics discussed by panelists and audience:

What are the needs in terms of new technologies and workflows to facilitate the use of EVs in real life scenarios in clinics and in diagnostics?

What the market is looking for from the standpoint of companies

How companies stay tuned with research and how they can engage researchers to develop new products

Can you report on successful examples of mutual collaborations

What is required to start a virtuous innovation cycle

Panelists were selected and invited to represent the academia/basic research on EVs at the national and international level (**Prof. Benedetta Bussolati**, president of **EVIta**, the Italian Society for Extracellular Vesicles and Treasurer of **ISEV**, the International Society for Extracellular Vesicle); the translational/applied clinical research that is typically performed in research hospitals (**Dr. Alice Gualerzi**, **Fondazione Don Gnocchi Hospital** and Executive Board Member of **EVIta**); the perspective and needs from leading companies operating in the development and commercialization of research products for EVs and life science in general (**Andres Lohmus** from **HansaBiomed** member of Marvel consortium, **Yuri D’Alessandra** from **BioTechne** and **Ilaria Mancini** from **Quanterix**).

Alessandro Gori (Marvel Innovation Manager) participated representing the whole consortium and gathered important insights for exploitation of Marvel results hearing on the needs originating from the different types of stakeholders and potential future clients and partners of MARVEL technologies.

Overall the round table facilitated the exchange of views on the current and future technology solutions, and clinical and market needs in the expansive field of Extracellular vesicles and their applications in the healthcare sector.



Figure 9. Round table discussion with the panellists.

We would like to express our cordial thanks to all who attended the workshop and helped make this event a success. We have much pleasure in thanking our keynote speakers, MARVEL partners and several organizations, in particular: CNR SCITEC 'Giulio Natta', CNR-ITM, Libera Università Vita-Salute San Raffaele, USI Università della Svizzera italiana, Ente Ospedaliero Cantonale (EOC), HansaBioMed Life Sciences Ltd, Paperdrop Diagnostics and Amires for their support and the very efficient help during the symposium. The organizers gladly acknowledge also many other local people from CNR SCITEC 'Giulio Natta' where the event took place, in particular scientific organizing committee (Marina Cretich and Alessandro Gori), local organizing committee (Paola Gagni, Greta Bergamaschi, Roberto Frigerio) and communication and dissemination manager (Yevhen Horokhovatskyi), who helped with the organization and ensured that in all instances the formal steps went smoothly.



4. CONCLUSIONS

This document represents the Deliverable D6.12 “MARVEL Final Conference”. The deliverable summarizes the implemented activities before and during the MARVEL final workshop that was held on 21 April 2023 at the SCITEC - Istituto di scienze e tecnologie chimiche "Giulio Natta in Milan, Italy. Overall, the MARVEL final workshop proved to be a successful end to the project, establishing a base for further cooperation, both among the project partners and outside.

5. DEGREE OF PROGRESS

This deliverable D6.12 is 100% complete and represents the outcomes of the MARVEL Final workshop.

6. DISSEMINATION LEVEL

The Deliverable D6.12 is public and therefore it will be available to download on the project’s website.