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***Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE
Back***

Research and Innovation Action

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Report**

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PP	Restricted to other programme participants (including the Commission Service)	
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2. Executive Summary

The overall objective of the Dissemination Work Package 8 in BOUNCE is to prepare future impact and exploitation by promoting awareness of the project and the foreground generated. The current document entitled “Deliverable 8.2d Dissemination & Scientific

Workshop Activities Report” refers to the third report on the dissemination activities implemented by the BOUNCE project during its fourth year.

D8.2d is a public deliverable of the BOUNCE project, part of the WP8, and consists of an update of “D8.2a,b and c: Dissemination & Scientific Workshop Activities Report & Deliverable 8.3a,b and c: Communication Activities Report” that was submitted to the European Commission in May 2021 and resubmitted December 2021. The current deliverable addresses an update of the actions and activities that were so far implemented and completed, those ongoing and those planned in order to achieve the project’s widest promotion, greatest visibility and awareness to the external audience.

3. Dissemination activities update

This section provides an overview of the BOUNCE study dissemination activities performed during November 2020 to April 2022. These activities are in continuous online update in the Dissemination Registry Table (see Appendix 1). The Table includes the following detail about each performed activity:

- the content and aim/objective of the activity
- the target audience

During this reporting period, WP8 focused its efforts on the intensification of dissemination activities, dissemination of preliminary pilot results concepts and sub studies results, update of advertising materials and expansion of the stakeholders’ network and encouragement of further engagement in the BOUNCE project activities. This was performed through various communication channels and dissemination activities.

The main objectives targeted during the reporting period were:

- Maintain and regularly update the BOUNCE Dissemination Registry Table.
- Intensify dissemination activities (organisation of events; participation in third party events, publishing activities (articles, interviews) and producing press releases;

- Perform dissemination events to increase visibility for the project to a multidisciplinary audience;
- Increase participation in third party events at national and international level to raise the awareness and the visibility for the project;
- Intensify efforts to support activities that are relevant to exploitation;
- Exploit the social media accounts for communicating messages and raise interest in a wider audience;
- Improve regularity of website update;
- Prepare, create, design and deliver newsletter issue;
- Provide the deliverables and reports corresponding to the reporting period.

3.1. *Dissemination activities intensification*

The BOUNCE consortium is fully aware of the importance of dissemination activities, and each partner is committed to taking maximum effort within this domain of activities. The project budget dedicated to dissemination activities is limited and it is therefore our goal to make the maximum outreach with the least possible costs.

3.1.1. BOUNCE dissemination events

To increase visibility and exposure of the project, the BOUNCE consortium organised a 4th and final BOUNCE Dissemination event:

The fourth dissemination event was organized by CHAMP on October 8th 2021 (M48) and was held virtually as a scientific workshop. There were approximately 62 participants attendees, which included oncologists, psychologists, nurses and patients advocates. The major aim of this event was the presentation of preliminary data from the work done on the BOUNCE project as well as the promotion of awareness on mental health in breast cancer patients, discussing multidisciplinary care path approaches concerning mental health issues as well as latest biomedical research on depression. The event covered three main topics during three sections. In the first session, entitled “Patient-Centered Care in Breast Cancer”, several health care providers perspectives were presented, highlighting the importance of multidisciplinary work in the oncology across different health professionals (oncologists, mental health care providers, nurses), as well as the patient

perspective. The aim was to demonstrate the importance of the patient-centered care model in oncology for better disease outcomes. The second session of the meeting was dedicated to Neurocognition in breast cancer (BC). The current evidence about neurocognitive deficits in this population was presented by Kathleen Van Dyk (researcher at UCLA Semel Institute & Comprehensive Cancer Center) and the emerging research on this topic was presented by Sanne Schangen (Cognition group leader, Netherlands Cancer Institute). The possible cognitive changes in breast cancer patients were then explained, including the main symptoms and diagnostic testing methods, as well as intervention programs that are now being proposed and applied to this issue. Given the comorbidity rates between cancer and mental health issues, the last session, entitled “Biomarkers of Depression in Cancer patients”, focused on new research in mental health and was devoted to the discussion of some biological factors involved in depression in the oncological population.

Attendees to Bounce workshop were also invited to a public session happening later in the same day. This session was organized by the breast unit of the Champalimaud Clinical Center as part of the annual Breast Unit open day, dedicated to external health professionals, cancer patients and general public. The topic was digital health, artificial intelligence and patient centered medicine with a roundtable discussion that included policy makers, digital health experts in academia, commercial technical providers, ethics experts and health professionals. This public session was attended by 175 Portuguese participants.

3.1.2. Participation in third party events

Bounce study's dissemination activities rely heavily on third party events and participation in conferences

Below is a list of the events and its current situation.

Partner	Activity Title	Type of activity	Description (if applicable)	Date	Location	Organiser	Target audience	Attendance	Status	Notes
FORTH	ISWC 2020	Presentation	Developing the BOUNCE Psychological Ontology	1-6 November 2020	Virtual	International Semantic Web Conference	Biomedical Engineers	N/A	Completed	
CHAMP & BOUNCE Consortium	International Congress of Psychology 2020	Hosting Symposium/special session/workshop	“Interdisciplinary approaches to assess psychological resilience in	18-23 July 2021	(Virtual) Prague	https://www.icp2020.com/	Psychologists, nurses, physicians, biologists, epidemiologists	>1000	Completed	Rescheduled due to Covid pandemic.

			breast cancer survivors"							(Original Date : 19 – 24 July 2020)
Almeida, S. et al CHAMP	Annals of Oncology	Conference Abstract	The psychological impact of the COVID-19 pandemic on patients with early breast cancer	May 2021	NA	European Society for Medical Oncology	Researchers, Clinicians	NA	Published	https://doi.org/10.1016/j.annonc.2021.03.146
FORTH	International Conference on Biomedical and Health Informatics	Presentation	Sensor-based behavioral informatics in support of Health Management and Care	27-30 July 2021	Virtual		Biomedical Researchers, Oncologists, Clinical researchers	>1000	Completed	
FORTH	IEEE, International Conference on Data Engineering	Presentation	Semantic Patches for Coupled Database-Application Evolution	19-22 April 2021	Virtual (China)		researchers, practitioners, developers	>1000	Completed	
FORTH	Scientific Journal: Computers in Biology and Medicine	Conference Paper	A machine learning-based pipeline for modelling medical, socio-demographic, lifestyle and self-reported psychological traits as predictors of mental health outcomes after breast cancer diagnosis: An initial effort to define resilience effects	April, 2021	NA	NA	Biomedical Researchers, Oncologists, Clinical researchers	NA	Completed	
FORTH	PETRA, 2021	Conference paper acceptance	Prediction of COVID-19 infection based on symptoms and social life using machine learning techniques	June, 2021	NA	NA	Biomedical Researchers	NA	Completed	https://dl.acm.org/doi/fullHtml/10.1145/3453892.3462696
FORTH	43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society	Conference paper acceptance	Prediction of Poor Mental Health Following Breast Cancer Diagnosis Using Random Forests	November, 2021	NA	NA	Biomedical Researchers, Oncologists, Clinical researchers	>1000	Completed	
Georgios Stamatakis (ICSS)	"6 th Scientific Forum: Biosciences, Innovation, Technology, and Cancer: from Prevention to Therapy",	Presentation Invitation	Bounce Project Presentation: "The BOUNCE Project: Predicting Effective Adaptation to Breast Cancer to Help Women to bounce back"	15-17 October, 2021	Athens, Greek	http://gk.gr/en/portfolio/biosciences-innovation-technology-cancer-from-prevention-to-therapy/	Medical Doctors, Engineers, Basic Scientists, Psychologists	>1000	Completed	
Panagiotis Simos (FORTH)	Health IT Conference	Presentation	Predicting Effective Adaptation to	15 - 16 June, 2021	Virtual		Biomedical Researchers,	>1000	Completed	

			Breast Cancer to Help Women to BOUNCE Back				Oncologists, Clinical researchers			
Eugenia Mylona FORTH	International Conference on Biomedical and Health Informatics (BHI'21) jointly organised with the 17 th IEEE-EMBS International Conference on wearable and implantable body sensor networks (BSN'21)	Presentation	Dynamic patterns of change in mental health following breast cancer diagnosis: A trajectory-based unsupervised clustering approach	27 - 30 July, 2021	Virtual	https://www.bhi-bsn-2021.org/?page_id=2336	Biomedical engineers, health informatics	>1000	Completed	
Evangelos Karademas FORTH	35 th Annual Conference of the European Health Psychology Society	Oral Presentation	The impact of cultural and health-care system differences on psychological adaptation to breast cancer.	23 rd – 27 th August, 2021	Virtual		Psychologists, Health Psychologists	>500	Completed	
Ketti Mazzocco IEO	IPOS Congress	Symposium	Predicting effective adaptation to breast cancer to help women to bounce back: The role of fear of recurrence and personal characteristics in the process of coping SIMPOSIO IEO	26-29 May, 2021	Virtual		Oncologists, nurses, psychiatrists, psychooncologists, clinical researchers	> 1000	Completed	
Chiara Marzorati	Congress of Italian Psychology Association	Communication	Communication to the Congress of Italian Psychology Association	6-9 September 2021	Lecce, Italy	Italian Psychology Association	Psychologists		Completed	
Nuutinen, Mikko (NHG)	15 th International Joint Conference on Biomedical Engineering Systems and Technologies	8 pages conference article and conference presentation (20 minutes)	"Impact of machine learning assistance on the quality of life prediction for breast cancer patients."	2 - 11 February, 2022	Virtual	HealthInf BIOSTEC	Researchers and practitioners interested in the specification, design, development and application of information and communication technologies (ICT) to healthcare and medicine		Completed	https://healthinf.scitevents.org/?y=2022
Dimitris Fotiadis (FORTH)	44 th Annual International Conference of IEE and IEEE Engineering in Medicine and Biology Society (EMBC'22)	Presentation	Trajectories and Predictors of Depression after Breast Cancer Diagnosis: one year longitudinal study	11-15 July 2022	Glasgow	IEE and IEEE Engineering in Medicine and Biology Society	- Biomedical engineers, health informatics	>1000	Accepted	

Ketti Mazzocco (IEO)	IPOS World Congress	Presentation	"Family resilience: early predictors and long term mental health outcomes in breast cancer patients"	29 August – 1 September, 2022	Toronto	International Psychooncology Society	Psychologists, Psychooncologists	>1000	Submitted	
ICCS in collaboration with several other BOUNCE partners	Virtual Physiological Human Conference 2022	Presentation	Artificial intelligence based in silico models for the prediction of resilience related psychological, psychiatric and functional trajectories in women with early breast cancer"	6-9 September 2022	Porto	Virtual Physiological Human Conference	- Biomedical engineers, health informatics	>1000	Submitted	
Verde, A. S. C. et al. CHAMP	European Congress of Radiology (ECR)	Oral Presentation	Detection of regional white-matter cingulum alterations in breast cancer patients	13-17 July, 2022	Vienna	>1000	Radiologists, Researchers		Accepted	

Table 1: Participation in third party events**3.1.3. Publishing activities**

A major part of the project involves research that is carried out by researchers; therefore, during this fourth year the Bounce partners submitted and published several scientific articles in peer reviewed journals related with preliminary data from clinical pilot and the development of the Bounce tool.

Partner	Activity Title	Type of activity	Description (if applicable)	Date	Organiser	Target audience	Status	Notes
Kourou et al. FORTH & Bounce partners	Comput Biol Med	Journal publication	"A machine learning-based pipeline for modeling medical, socio-demographic, lifestyle and self-reported psychological traits as predictors of mental health outcomes after breast cancer diagnosis: An initial effort to define resilience effects."	April, 2021	Comput Biol Med Journal	Biomedical Researchers, Oncologists, Clinical researchers	Completed (Published)	DOI: 10.1016/j.compbiomed.2021.104266
Evangelos Karademas (FORTH) and BOUNCE consortium	Scientific Journal: Psychooncology	Paper	"Cognitive, emotional, and behavioral mediators of the impact of coping self-efficacy on adaptation to breast cancer: An international prospective study"	May, 2021	NA	NA	Completed (Published)	DOI: 10.1002/pon.5730
FORTH	PETRA, 2021	Conference paper acceptance	"Prediction of COVID-19 infection based on symptoms and social life using machine learning techniques"	June, 2021	NA	Biomedical Researchers	Completed (Published)	https://dl.acm.org/doi/fullHtml/10.1145/3453892.3462696
Karademas et al. FORTH & Bounce partners	Psychology & Health	Journal publication	"The mutual determination of self-efficacy to cope with cancer and cancer-related coping over time: a prospective study in women with breast cancer"	February, 2022	Psychology & Health Journal	Researchers, Clinicians	Completed (Published)	doi: 10.1080/08870446.2022.2038157
Poikonen-Saksela, P. et al. HUS & ICSS	Scientific reports	Journal publication	"A graphical LASSO analysis of global quality of life, sub scales of the EORTC QLQ-C30 instrument and depression in early breast cancer"	February, 2022	Nature Scientific reports	Researchers, Clinicians	Completed (Published)	https://doi.org/10.1038/s41598-022-06138-2
Raquel Lemos et al. CHAMP	Frontiers in Psychology	Journal Publication	"Cross-Cultural Adaptation and Psychometric Evaluation of the Perceived Ability to Cope with Trauma (PACT) Scale in Portuguese Patients with Breast Cancer"	February 2022	Frontiers in Psychology	Researchers, Clinicians	Completed (Published)	DOI: 10.3389/fpsyg.2022.800285
BOUNCE Consortium	Journal of Medical Internet Research (JMIR)	Journal Publication	"Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back: study protocol for a multicenter clinical pilot"	April 2022	JMIR publications	Researchers, Clinicians	Accepted	
Karademas et al. FORTH & Bounce partners	Journal of Clinical Psychology in Medical Settings	Journal Publication	"The Interplay Between Trait Resilience and Self-efficacy to	April 2022	Journal of Clinical Psychology in Medical Settings	Researchers, Clinicians	Accepted	

			Cope with Cancer in Patients with Breast Cancer: An international Study “					
Verde, A. S. C. et al. CHAMP	European Congress of Radiology (ECR) 2021 Book of Abstracts. Insights into Imaging 12	Conference Abstract	“Assessment of subcortical brain volume changes in breast cancer patients undergoing treatment: A pilot study”		European Congress of Radiology (ECR)	Researchers, Clinicians	Completed (Published)	
Leena Vehmanen et al. HUS & Bounce partners	The Breast Journal	Journal Publication	“Associations between physical exercise, quality of life, psychological symptoms and treatment side-effects in early breast cancer”	April 2022	The Breast Journal	Researchers, Clinicians	Submitted	
Ilan Roziner et al. HUJI & Bounce partners	Stress & Health	Short Communication	“Psychological and somatic symptoms among breast cancer patients in four European countries. A cross-lagged panel model”	February 2022	Stress & Health Journal	Researchers, Clinicians	Submitted	
Ruth Pat-Horenczyk et al. HUJI & Bounce partners	Social Science and Medicine	Journal Publication	“The moderating role of coping flexibility in reports of somatic symptoms among early breast cancer patients”	January 2022	Social Science and Medicine Journal	Researchers, Clinicians	Submitted	
Mikko Nuutinen et al. NHG & Bounce partners	Artificial Intelligence in Medicine	Journal Publication	“Aid of machine learning algorithm can improve clinical predictions of patient quality of life during breast cancer treatments”	March 2022	Artificial Intelligence in Medicine	Researchers, Clinicians	Submitted	
Kourou K. et al. FORTH & Bounce partners	Breast Cancer Research and Treatment	Journal Publication	“Determining personalized psychosocial, behavioral, and biological risk factors for one-year mental health deterioration using adaptive learning algorithms: A multicenter breast cancer prospective study”	April 2022	Breast Cancer Research and Treatment	Researchers, Clinicians	Submitted	
Karademas et al. FORTH & Bounce partners	Health Psychology	Journal Publication	“Types of Change Over Time in Self-efficacy to Cope with Breast Cancer and their Relations to Patient Well-being”.	April 2022	Health Psychology	Researchers, Clinicians	Submitted	

Table 2: Publishing activities

3.1.4. Additional planned dissemination activities

Each partner involved in the BOUNCE project has the capacity to promote the project goals and concepts, and will do so at any potential opportunity, attending events, meetings, promoting the project on their website, via their own social media channels, engaging in activities with other projects.

Although the project ends in April 2022, partners will continue to disseminate the results and the tool from BOUNCE. As so, there are already planned activities for the upcoming months, namely:

Partner	Activity Title	Type of activity	Description (if applicable)	Date	Location	Organiser	Target audience	Attendance	Status	Notes
Paula Poikonen-Saksela (HUS)	HUS CCC Scientific meeting	Presentation	BOUNCE final results	29 th April 2022	HUS CCC	HUS	Oncologists, Psychiatrists, Psychologists, researchers, nurses	60	Planned	
Dimitris Fotiadis (FORTH)	44th Annual International Conference of IEEE and IEEE Engineering in Medicine and Biology Society (EMBC'22)	Presentation	Trajectories and Predictors of Depression after Breast Cancer Diagnosis: one year longitudinal study	11-15 July 2022	Glasgow	IEEE and IEEE Engineering in Medicine and Biology Society	- Biomedical engineers, health informatics	>1000	Accepted	
Ketti Mazzocco (IEO)	IPOS World Congress	Presentation	"Family resilience: early predictors and long term mental health outcomes in breast cancer patients"	29 August – 1 September, 2022	Toronto	International Psychooncology Society	Psychologists, Psychooncologists	>1000	Submitted	
ICCS in collaboration with several other BOUNCE partners	Virtual Physiological Human Conference 2022	Presentation	Artificial intelligence based in silico models for the prediction of resilience related psychological, psychiatric and functional trajectories in women with early breast cancer"	6-9 September 2022	Porto	Virtual Physiological Human Conference	- Biomedical engineers, health informatics	>1000	Submitted	
Verde, A. S. C. et al. CHAMP	European Congress of Radiology (ECR)	Oral Presentation	Detection of regional white-matter cingulum alterations in breast cancer patients	13-17 July, 2022	Vienna	>1000	Radiologists, Researchers	>1000	Accepted	
Paula Poikonen-Saksela	Nordic congress on breast cancer	Oral presentation	Predicting effective adaptation to breast cancer to help women to BOUNCE back-results from the BOUNCE project	19 Sept 2022	Helsinki	Europadonna	Europadonna members	150	Planned	

Table 2: Future participation third party events

4. BOUNCE's Dissemination Tools

Although the COVID-19 pandemic is taking a toll on dissemination activities of the study, the BOUNCE consortium is making efforts to expand media outreach mainly by reviewing and updating the website, drafting the next newsletter and writing new social media posts

4.1. BOUNCE online dissemination

4.1.1. BOUNCE Website

The BOUNCE website (<https://www.bounce-project.eu/>) has been created since the first months of the projects, in order to present BOUNCE to the public: achievements, results and updates. It has been designed to be user friendly and it directs the public to take action in the different social media channels, which will be used to promote the project.

The objectives of the website are:

- To publish any new information on the project such as meetings, events, publications, deliverables, results, and achievements.
- To encourage stakeholder to take part in the BOUNCE stakeholder community.

Because this is such an important communication channel, the project site is constantly updated with amendments/additions as well as with the latest news regarding the project and related topics in order to promote the project's concept and objectives.

Particularly, all public deliverables have been posted and are accessible for download as soon as they are accepted by the European Commission (<https://www.bounce-project.eu/downloads/deliverables/>) while publications produced and presented by the consortium are also listed (<https://www.bounce-project.eu/publications/>)



Figure 1: Project's Website (Homepage)

4.1.2. BOUNCE in Social Media

BOUNCE uses social media tools in order to create the BOUNCE stakeholder's community. Accounts have been created in several social media networks and are regularly updated: Facebook (<https://www.facebook.com/BounceProject-168419160589203/>), Twitter (<https://twitter.com/BounceProjectEU>) and LinkedIn (<https://www.linkedin.com/groups/12100133/>), in order to promote the project achievements as well as the project website and attract stakeholders. The main objectives for the social media presence are:

- Attracting members to BOUNCE community
- Encouraging discussions and interest in the BOUNCE project the main areas of research
- Enhancing the project visibility throughout social media
- Increase awareness to the project achievements and results
- Promoting events such as the final conference
- Promote intercultural sharing of breast cancer survivors (e.g. <https://www.lilith.org/articles/across-the-barrier/>)

BOUNCE consortium is disseminating the project's results in social media according to the communication strategy outlined in Deliverable 8.1. Posts are regularly shared through

all social media accounts. FORTH is responsible for posting in the social media accounts, but all partners are asked to send news/achievements/events or any other interesting posts through social media and use their own social media channels to promote and repost news.

The metrics / analytics for the period 01/09/2021– 10/04/2022 are following:



Figure 2: Website impact



Figure 3: Facebook impact



Figure 4: Twitter impact

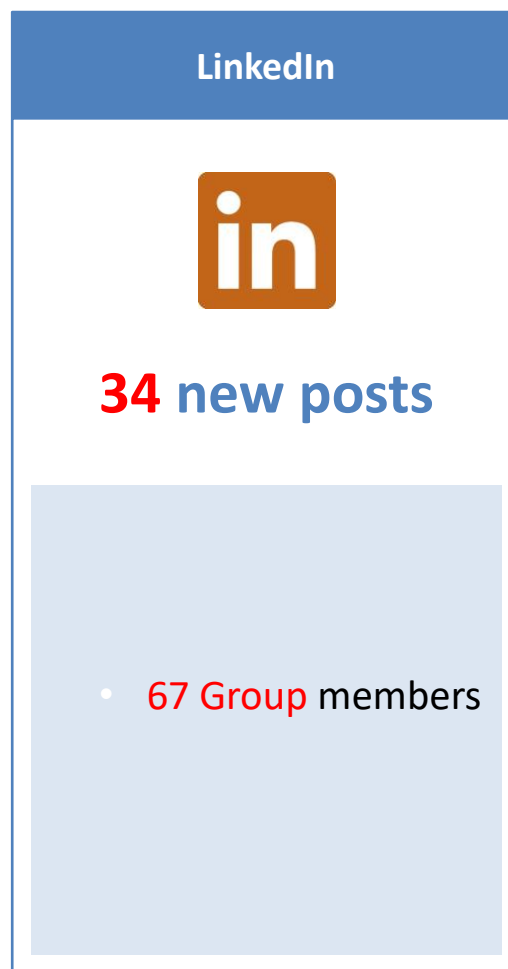


Figure 5: LinkedIn impact

4.1.3. Newsletters

News and information are published in the form of a short newsletter that is addressed to the stakeholder community. This is distributed via the social network channels and the stakeholder community and by all partners. At least five newsletters are planned during the project, approximately one every six months, after the first year of the project.

Newsletter ISSUE #4 is featuring the following articles, and was published on February 2021 (Figure 6):

- The BOUNCE project at a glance: Meeting the challenge of a multinational prospective study on resilience by Dr. Paula Poikonen-Saksela (HUS)
- BOUNCE and the Forgotten Generation: Adult Children of mothers with breast cancer by the HUJI Dissemination team

- The HUS patient support digital platform becomes fully operational by Paula Poikonen-Saksela (HUS)
- Psychosocial profiles of resilience in the era of personalized medicine By Giorgos Manikis, Konstantina Kourou, Evangelos Karademas (FORTH)
- Investigating the relationship between the COVID-19 pandemic and related parameters, and breast cancer patients' Psychological and Quality of Life outcomes by Diana Frasilho, Sílvia Almeida, Berta Sousa and Albino J. Oliveira-Maia (CHAMP)
- Future events
- Social Media

Newsletter ISSUE #5 is featuring the following articles, and was published on September 2021 (Figure 7):

- Is resilience of women with breast cancer predictable : How can computational models help health professionals optimize psychological interventions? By Konstantina Kourou and Giorgos Manikis (FORTH)
- How the BOUNCE project promotes knowledge about adaptation to breast cancer By Evangelos Karademas (FORTH)
- Personal experiences with breast cancer: family dynamics By Chariklia Tziraki
- Recent Events
- Future Events/Social Media

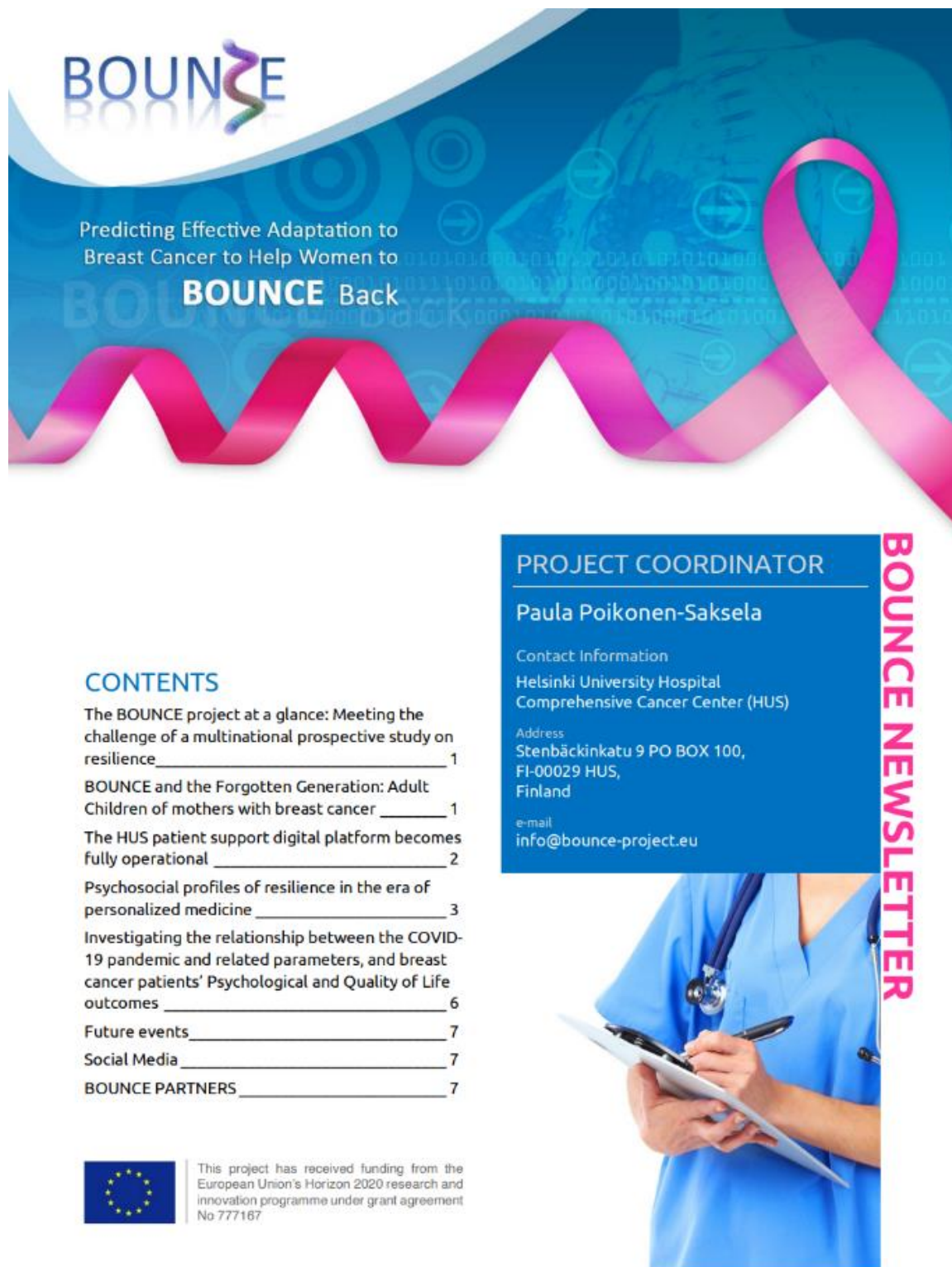


Figure 6: BOUNCE Newsletter ISSUE #4

Newsletter ISSUE #6 is featuring the following articles, and was published in the beginning of February (Figure 8):

- BOUNCE machine learning models predict one-year resilience outcomes By Konstantina Kourou, Panagiotis Simos, Evangelos Karademas & Giorgos Manikis (FORTH)
- Facing the continuous fear of cancer recurrence By Gabi Bentley, Osnat Zamir, Shlomit Perry, Rawan Dahabre & Ruth Pat-Horenczyk (HUJI)
- A pilot study of a digital exercise path at the HUS center Dr. Paula Poikonen-Saksela (HUS)
- The role of food in maintaining health in breast cancer survivors By Chariklia Tziraki (HUJI)
- Events / Social Media



Figure 7: BOUNCE Newsletter ISSUE #5

5. Conclusions

In conclusion this deliverable constitutes the last report on the project BOUNCE Dissemination & Scientific Workshop Activities.

During this reporting time, the consortium gathered efforts to minimize the effects of COVID-19 on dissemination activities, and so, participate in several third-party events that were mainly held online. The dissemination activities were also intensified in this report as a result of the need to disseminate preliminary results from the clinical pilot and sub studies related to this one.

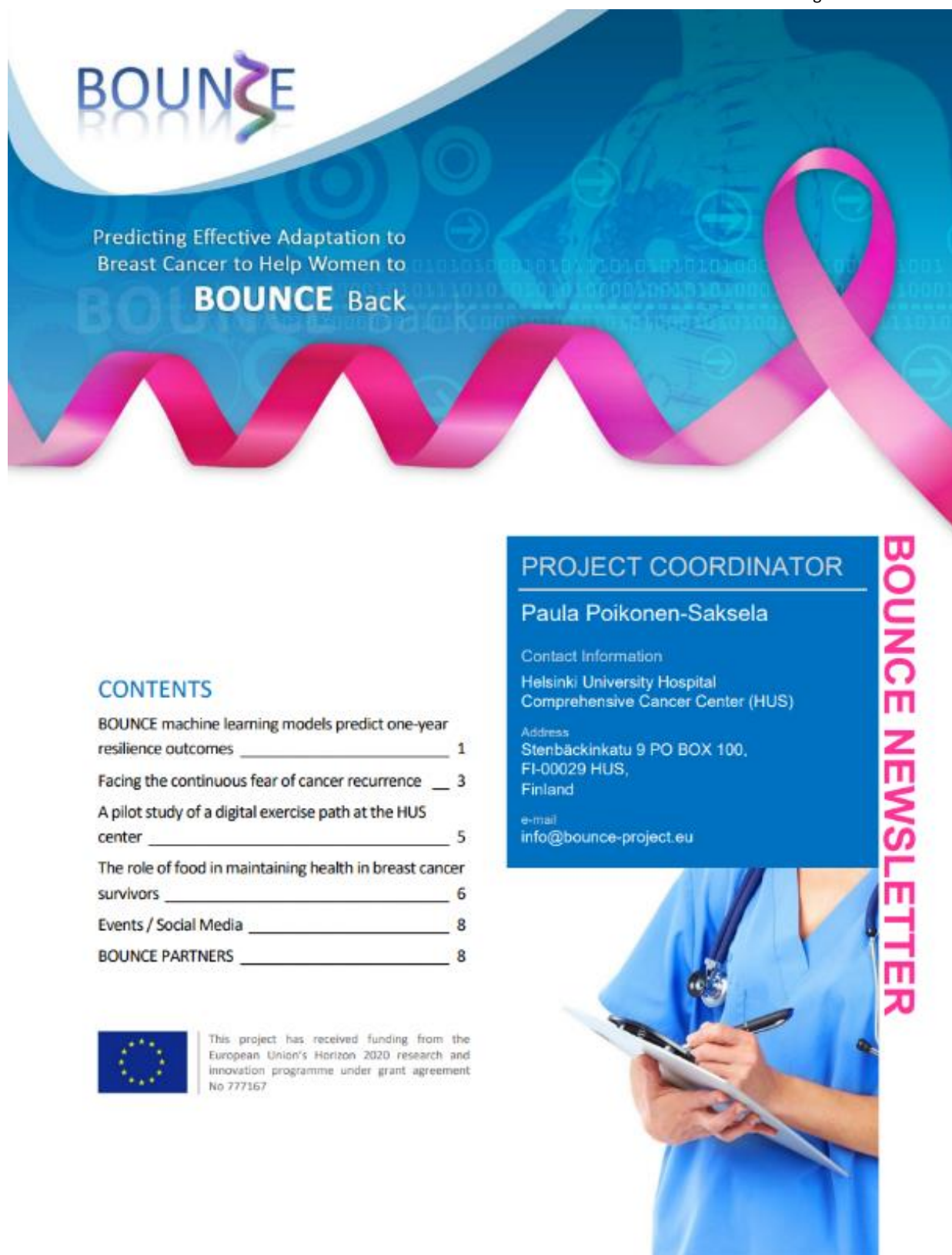


Figure 8: BOUNCE Newsletter ISSUE #6

Appendix 1

Partner	Activity Title	Type of activity	Description (if applicable)	Date	Location	Organiser	Target audience	Attendance	Status	Impact Assessment	Notes
Stavros Krasadakis, Singular Logic	4th Scientific Forum "Bioscience and cancer: From prevention to therapy"	Talk in a Scientific Forum	Presentation of a short overview of the BOUNCE project during an invited talk, under the session AI and oncology.	13 – 14 October 2017	Athens, Greece	HYGEIA Hospital, Athens, Greece	BOUNCE stakeholders (oncologists, nurses, patients, patient organizations, insurance companies)	80	Completed	Inform the care providers of some of the largest Greek hospitals about the BOUNCE approach and expected results in support of dissemination and future exploitation.	
Paula Poikonen, HUS	Interview in Mediutiset Newspaper	Newspaper Interview		1 December 2017	NA			NA	Completed	Inform healthcare professionals about BOUNCE at the start of the project in the biggest magazine for physicians in Finland.	
HUS	Coordinators Press Release	Press Release	International Press release	21 December 2017	NA	HUS			Completed	Inform the media about funded proposal at start of the project	https://www.businesswire.com/news/home/2017122006243/en
Georgios Stamatakis - ICCS, Norbert Graf, and the CHIC Project Consortium	2018 IEEE International Conference on Biomedical and Health Informatics (jointly with) Body Sensor Networks	Paper presentation	Presentation in Special Session # 6: Biomedical Informatics across the Cancer Continuum: "Clinically Specified Cancer Multiscale Hyper modelling for in Silico Oncology: The Transatlantic CHIC Project and Beyond". Conference in the	4-7 March 2018	Las Vegas, USA	IEEE (Institute of Electrical and Electronic Engineers)	Engineers, Physical scientists, clinical doctors	~600	Completed	Inform the biomedical informatics and healthcare community about BOUNCE at the start of the project. Special emphasis was put on the importance of Artificial Intelligence in modelling Quality of Life and Resilience.	https://embs.papercapt.net/conferences/conferences/BHI18/program/BHI18_ContentListWeb_4.html

			area of mHealth, health analytics and wearable computers.							
Paula Poikonen-Saksela, HUS	HUS e Health forum	Communications Oral/Poster in national Meeting	Presentation for Health care professionals and researchers of HUS about BOUNCE	14/03/2018	Helsinki, Finland	HUS	eHealth researchers in Finland	50 + web	Completed	Present the project for eHealth research forum of HUS to raise early interest and find possible collaborators.
Singular Logic	Singular Logic Press Release	Press Release	A press release informing the public about the goals of the BOUNCE project. The press release has appeared in different sites, including the Greek company of pharmaceutical management and more.	March 2018	NA	Singular Logic	General public	NA	Completed	Inform the media about funded proposal at start of the project https://portal.singularlogic.eu/article/16905/i-singularlogic-symmetehel-sti-diethni-koinopraxia-bounce-me-stohotin-enishysi-tis
FORTH	ICDE 2018 - International Conference on Data Engineering	Paper presentation	Paper presentation: Giannis Agathangelos, Georgia Troullinou, Haridimos Kondylakis, Kostas Stefanidis, Dimitris Plexousakis: RDF Query Answering Using Apache Spark: Review and Assessment. ICDE 2018: 54-59	16-19 April 2018	Paris, France	IEEE Computer Society	Data Management Researchers	500	Completed	Inform the research community about existing approaches for query answering approaches using apache spark

FORTH	ACM Petra 2018 - 11th Pervasive Technologies Related to Assistive Environments Conference	Paper presentation	Paper presentation: Michail Giannoulis, Haridimos Kondylakis, Emmanouil I. Marakakis: COSMO S: A Web-Based, Collaborative Knowledge System Using Ontologies and Managing Uncertainty. PETRA 2018: 441-448	25-29 June 2018	Corfu, Greece	ACM	Data Management Researchers	200	Completed	Inform the research community about a developed approach for collaborative knowledge management using ontologies	
FORTH	VLDB 2018 - 44th International Conference on Very Large Data Bases 2018	Paper presentation on conference	Paper presentation: Haridimos Kondylakis, Niv Dayan, Kostas Zoumpatianos, Themis Palpanas: Coconut: A Scalable Bottom-Up Approach for Building Data Series Indexes. PVLDB 11(6): 677-690 (2018)	27-31 August 2018	Rio de Janeiro, Brazil	VLDB Endowment Inc.	Data Management Researchers	1000	Completed	Inform the research community about a unique solution for managing data series data	Top conference in Data Management
NHG and HUS	Scientific Seminar of Comprehensive Cancer Center	Workshop	National dissemination event - meeting with selected stakeholder groups	13 September 2018	Helsinki, Finland	HUS + NHG	BOUNCE stakeholders (oncologists, nurses, patients, patient organizations, insurance companies)	27	Completed	Inform patients, healthcare professionals, and patient organizations about BOUNCE and consult them about existing interventions and support for BC patients and what could be done better.	
Georgios Stamatakis - ICCS, and Norbert Graf, for the CHIC Consortium	Proceedings of the V Virtual Physiological Human Conference - VPH2018	Invited talk on a Conference	"In Silico Oncology: Building and validating hypermodels and Oncosimulators as clinical decision support systems in the framework of the EU-US CHIC project"	5-7 September 2018	Zaragoza, Spain	Virtual Physiological Human Institute	Physical scientists, engineers, clinical doctors	~800	Completed	Inform the Virtual Physiological Human (VPH) society on BOUNCE and the importance of combining mechanistic models with Artificial Intelligence methods in order	http://vph-conference.org/ http://vph-conference.org/program/invited/

										to address multifactorial and long term conditions	
Gianna Tsakou, Singular Logic	Singular Logic Meeting	One-on-one meeting (e.g. policy makers)	Presentation of the project's goals and results up to that moment, during a 1-hour telephone meeting.	3 October 2018	NA	Singular Logic	Director of eHealth department of Gradiant (Gradiant is the 3rd ICT Technology Center in Spain and focuses on technological development and knowledge transfer to industry).	1 person	Completed	Inform the research community about the BOUNCE technological approach and results and create synergy with one of the largest research centers in Spain	
Georgios Stamatakis - ICCS	1st Cancer Research Workshop	Invited talk on a Workshop	"In Silico Oncology: Translating Oncosimulators to the Clinic,"	3-5 October, 2018	Limassol, Cyprus	Cyprus University of Technology	Clinical doctors, physical scientists, engineers	50	Completed	Inform the clinical community and in particular the radiation therapy community on BOUNCE and the need of exploiting artificial intelligence in order to model long term side-effects of treatment and quality of life.	https://www.cut.ac.cy/news/article/?languageId=100&amp;contentId=138210
Paula Poikonen-Saksela, HUS	Scientific meeting HUS Comprehensive Cancer Center	Oral Presentation	Presentation about the project objectives and clinical aspects	10 October 2018				30		To inform clinicians and nurses at HUS Comprehensive Cancer Center about the project just before the pilot start to increase knowledge and boost the recruitment process	
NHG	Stakeholder interviews in WP1, D1.1	Interviews	Stakeholder interviews to define the BOUNCE value	Spring 2018	Finland, Italy, Israel	NHG	BOUNCE stakeholders (oncologists, nurses, patients, patient organizations, insurance companies)	18	Completed	Better understanding for the consortium of the value stakeholders can get from BOUNCE	

Gianna Tsakou, Singular Logic	SHAFE (Smart Healthy Age-Friendly Environments) framing paper and Joint Statement presentation	Presentation to the Coordinators of the SHAFE (Smart Healthy Age-Friendly Environments) thematic network: i.e. to Caritas Coimbra and AFEdeMy and contributed to the SHAFE framing paper and Joint Statement using the experience gained so far in the BOUNCE project.	Presentation of the project's goals	October 2018		European Commission, Caritas Coimbra and AFEdeMy	European Commission, SHAFE (Smart Healthy Age-Friendly Environments) thematic network participants, other interested stakeholders related to healthy and independent ageing		Completed	Inform the research community related to elderly care about the BOUNCE approach and expected results, raise early interest and find possible collaborators	
Berta Sousa, CHAMP	National Oncology Congress	Oral Presentation	Thematic session - "Care for oncology patients beyond oncology"	22-24 November 2018	Coimbra, Portugal	Portuguese Oncology Society			Completed	Medical Oncologists awareness about cognitive function issues during chemotherapy, and presentation of Bounce to the medical oncology community as a prospective assessment of several concepts of adaptation to the process of breast cancer treatment in the early stage.	
Paula Poikonen-Saksela, HUS	Finnish oncological nurses annual seminar	Hosting seminar/conference	Presentation about the project for oncological nurses at their annual national meeting	March 3rd 2019	Helsinki, Finland		Oncological nurses	50	Completed	Inform nurses nationally about the project	
FORTH	EDBT 2019 Tutorial & Paper Presentation	Tutorial & Paper Presentation	Tutorial on summarization techniques used for data partition and query answering within BOUNCE and on techniques for recording the changes between schema versions.	26-29 March 2019	Lisbon, Portugal		Big Data Management ICT	200	Completed	Inform the research community about solutions managing big data using ontologies through summarization.	2 submissions by FORTH accepted

FORTH	Poster Presentation - "A Reference Architecture for Predicting Resilience Levels of Women with Breast Cancer" at IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI 2019)	Communication Oral/Poster in International Meeting	Presentation of the overall BOUNCE system architecture which contributes to clinical outcomes and patient well-being by taking into consideration biological, social, and lifestyle factors for resilience prediction in women with breast cancer. The proposed framework integrates several building blocks organized in three tiers: (i) the applications tier, (ii) the semantic tier and (iii) the security tier.	May 19-22, 2019	Dorin Forum, University of Illinois at Chicago, Chicago, IL, USA	Engineering in Medicine and Biology Society	Bioinformatics; Imaging Informatics; Biomedical Signal Processing Informatics; Sensor Informatics; Behavioral Informatics; Big Data Analytics and Machine Learning; Clinical Informatics; Public Health Informatics; Precision Medicine Informatics; Disease Oriented Informatics.		Completed		
FORTH	Oral presentation at the 19th annual IEEE International Conference on Bioinformatics and Bioengineering (BIBE 2019). Title of the submitted full paper "Computational modeling of psychological resilience trajectories during breast cancer treatment"	Communication Oral/Poster in International Meeting	This paper gives an overview of the project targets and on the algorithmic methods focusing on modeling the psychological resilience trajectories during breast cancer treatment.	May 19-22, 2020	Dorin Forum, University of Illinois at Chicago, Chicago, IL, USA	Engineering in Medicine and Biology Society	Bioinformatics; Imaging Informatics; Biomedical Signal Processing Informatics; Sensor Informatics; Behavioral Informatics; Big Data Analytics and Machine Learning; Clinical Informatics; Public Health Informatics; Precision Medicine Informatics; Disease Oriented Informatics.		Completed		

FORTH	International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE)	Conference	Presentation of the paper ShinyAnonymizer: A Tool for Anonymizing Health Data. Goal: to inform the research community about a tool developed for anonymization of project data	2-4 May, 2019	Heraklion		eHealth researchers	300	Completed	-	
CHAMP	Mama Help Session "Resilience: What does it take to better cope with breast cancer? What factors may determine better adaptation to the illness?"	Oral Presentation	MamaHelp is a non-profit institution that organizes free and open seminars with various professionals on the most varied topics related to the subject of breast cancer. This specific session aims to raise awareness to the topic of resilience and to inform breast cancer patients and their family members and friends and civil society about BOUNCE, its aim and methods.	22 May 2019	Lisbon, Portugal	Mama Help	Breast Cancer Patients, family members and friends, and civil society.	100	Completed		
Ketti Mazzocco, IEO	Presentation on "Resilience of the cancer patient in the P5 era" at a National Workshop.	Oral Presentation	A National workshop on the "Humanization of care in Oncology: The role of Psycho-oncology on patient empowerment", thought for health professionals.	22 May 2019	Padova, Italy	Oncological Institute of Veneto, supported by the Italian Society of Psycho-Oncology (SIPO)	Psychologists, nurses, physicians, biologists, technicians	Max 90	Completed	-	
FORTH	CMBS 2019 - International Symposium on Computer Based Medical Systems	Symposium/special session	Special session in conference, named Tech3cancer with other related cancer-focused EU projects. Goal: to present the current status of	5-7 June 2019	Cordoba, Spain	IEEE	eHealth researchers, other EU projects	300	Completed	-	FORTH's paper was also accepted https://www.tech4cancer.com/

			the project and explore collaboration opportunities with other EU projects on cancer								
HUS & NHG	BOUNCE's Opening Dissemination Event	Dissemination Event		10-11 June 2019	Helsinki, Finland	HUS			Under preparation	-	
FORTH	SIGMOD 2019 - International Conference on Management of Data	Conference	Second best conference in data management. Goal: to present the project solution for management of big data series data	June 30 - July 5, 2019	Amsterdam, 2019	ACM	Data Management Researchers	1000	Completed	-	
Suggested by Berta Sousa, CHAMP	WPC 2019 - World Psychiatry Congress	Hosting Symposium/special session/workshop	Proposed Symposium - "How will I cope with cancer?": Innovative interdisciplinary approaches to assess resilience in breast cancer survivors to allow efficient interventions and recovery.	21-24 August 2019	Lisbon, 2019	WPA - World Psychiatry Association			Submitted	-	
HUJI	Second Dissemination Event: Cross Cultural Perspective on Resilience in Breast Cancer	Dissemination event	Event for dissemination and discussion of project's specific topics of interest, inform and engage interested parties through provision of general information about the project and its outcomes	18 September 2019	School of Social Work Hebrew University of Jerusalem, Mount Scopus, Jerusalem	BOUNCE Consortium and Hebrew University of Jerusalem	International Health and social care professionals, breast cancer patients, patient organizations, researchers, media.		Completed		
Suggested by Gianna Tsakou, Singular Logic	2019's Annual Conference of Partners of the European Innovation Partnership on Active and Health	Communication Oral/Poster in International Meeting		23 September 2019		EIP on AHA			Planned		It was not completed

	Ageing (EIP on AHA)										
FORTH	15th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON 2019)	Communication Oral/Poster in International Meeting	Presentation of the paper "Computational Models for Predicting Resilience Levels of Women with Breast Cancer" to present the computational models to be developed within the project related to resilience prediction	26-28 September 2019	Coimbra, Portugal	COIMBRA UNIVERSIDADE, PORTUGUESE SOCIETY OF BIOMEDICAL ENGINEERING	eHealth researchers	400	Completed		
BOUNCE Consortium	BOUNCE Newsletter ISSUE #1	Press Release	1st BOUNCE Newsletter, includes: Predicting Effective Adaptation To Breast Cancer To Help Women To BOUNCE Back (By Dr Paula Poikonen-Saksela) Defining Resilience (By Prof. Ruth Pat-Horenczyk) Implementing A Prospective Clinical Study To Model Resilience Growth (By Dr Kettie Mazzocco) Resilience Monitoring Through An Electronic Platform The Adapted Noona Tool (Juha Salonen) Using Adaptive Algorithms To Achieve Individualized Models Of Resilience (By Prof. P. Simos and E. Karademas)"	7 October 2019		Bounce website and email	General public, health and social care professionals, breast cancer patients, patient organizations, researchers, media.		Completed	number of downloads/visits	https://www.bounce-project.eu/downloads/newsletters/

SingularLogic	News item for the social media/blog	Other	the article informs about the 1st release of the BOUNCE platform integrating all components available so far	October 2019		Bounce website and social media	General public, health and social care professionals, breast cancer patients, patient organizations, researchers, media.		Completed	number of downloads/visits	https://www.bounce-project.eu/news/bounce-integrated-platform-first-release/
FORTH	BIBE 2019 - 19th International Conference on Bioinformatics and BioEngineering	Symposium/special session	Forth submitted the organization of a special session for the BOUNCE project. Goal: to present project results and identify potential collaboration opportunities.	28-30 October 2019	Athens, Greece	FORTH	eHealth researchers, other EU projects	300	Completed	-	Deadlines for submission Workshops and Special sessions Papers - June 15th
HUJI	Oral presentation BOUNCE: Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back	Communications Oral/Poster in national Meeting	Oral presentation BOUNCE: Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back at the faculty seminar of the School of Social Work of the Hebrew University of Jerusalem.	3 November 2019	School of Social Work Hebrew University of Jerusalem, Mount Scopus, Jerusalem	School of Social Work Hebrew University of Jerusalem	faculty members including researchers, clinical lecturers, practitioners in the field of social work and psychology.	30	Completed	There were very positive comments and specific questions about the challenges in international collaboration, especially with the modeling experts, and about the future translation of the results into evidence-based interventions.	
SingularLogic	News item for the social media/blog	Other	the article informs about the BOUNCE architecture and the main components that it consists of	November 2019		Bounce website and social media (to be published in December 2019)	General public, health and social care professionals, breast cancer patients, patient organizations, researchers, media.		Completed	number of downloads/visits	to be published in December 2019
HUJI	EU EIP AHA A3 and Regional Ref Centers meeting	Oral presentation	Pre-Frailty working group meeting	December 4-5, 2019	Rome, Italy		Multidisciplinary health professionals, health administrators, patients	200+	completed		
Ketti Mazzocco, IEO	Applied research division for cognitive and psychological science: Research and clinical project – area of interests	oral presentation	IEO hosted a delegation of Chinese Oncologists from the Sun Yat-sen University of Guangzhou, Guangdong (China), to		Milan, Italy	IEO	The attendees included was a delegation of Chinese Oncologists from the Sun Yat-sen University of Guangzhou,	About 15	completed		Ketti Mazzocco, IEO

			encourage intercultural and multi-professional exchange on the most innovative topics in oncology. During the meeting, Ketti Mazzocco illustrated <i>Bounce H2020</i> as one of the most innovative research aimed at increase patients' care personalization and patients' resilience.				Guangdong (China)				
Gabriella Pravettoni, IEO	The value of research in Psycho-oncology	oral presentation	the Bounce project was presented during the Event "Research Day: together in the coming challenges" at IEO. During this event all clinical and scientific activities performed in IEO were disclosed. Bounce has been presented as one of the multidisciplinary projects implemented in IEO that proposes innovative solutions for the personalization of care.	November 26, 2019	Milan, Italy	IEO	Psychologists, nurses, physicians, biologists, oncologists and surgeons	About 100	completed		Gabriella Pravettoni, IEO
Ketti Mazzocco, IEO	Applied research division for cognitive and psychological science: Research and	Newsletter	The IEO Magazine reported a newsletter on studies and projects that develop mathematical	November 26, 2019	IEO Magazine	IEO - website	IEO working staff	IEO working staff	completed		

	clinical project – area of interests		models capable of predicting the adaptation of patients to the cancer diagnosis treatments. Within this article the Bounce Project was presented, explaining the aim and the potential outcomes: the predictive models will provide doctors with a patients' profile resulted from the interaction of different factors (biological, psychological and social), and predict resilience during the patient's care pathway.							
BOUNCE Consortium	International Congress of Psychology 2020	Hosting Symposium/special session/workshop	This symposium will focus on the most recent evidence on how to define the optimal prediction measures for understanding resilience in breast cancer throughout the disease continuum from a multidisciplinary point of view.	19 – 24 July 2020	Prague	https://www.icp2020.com/	Psychologists, nurses, physicians, biologists, epidemiologists		Submitted	
Evangelos Karademas	16th Congress of the International Society of Behavioral Medicine	Conference	The ISBM is intended to serve the needs of all health-related disciplines concerned with the integration of psychosocial behavioral and biomedical sciences. Goal: to inform health professionals	19-22 August 2020	Glasgow, Scotland	ISBM - International Society of Behavioral Medicine	Psychologists, nurses, physicians, biologists, epidemiologists	>1500	Under preparation	- Dependable on the availability of data from the early phases of BOUNCE

			about BOUNCE and its first findings								
Evangelos Karademas	Annual Conference of the European Health Psychology Society	Conference	EHPS is a professional organisation formed to promote empirical and theoretical research in and applications of health psychology within Europe as well as the interchange of information related to health psychology with other associations throughout the world towards an international achievement of these aims. Goal: to inform health psychologists about BOUNCE and its first findings	25-29 August, 2020	Bratislava, Slovakia	EHPS - European Health Psychology Society	Health psychologists, Clinical health psychologists	1000	Under preparation	-	Dependable on the availability of data from the early phases of BOUNCE
G. Stamatakis, ICCS (presenter) Evangelos Chatzidimitriou, Eleni Kolokotroni, Ruth Pat - Horenczyk, Shlomit Perry, Yaira Hamama-Raz, Salomon M. Stemmer, Chariklia Tziraki, and Georgios S. Stamatakis	VPH 2020 (Virtual Physiological Human Conference)	Paper presentation and publication in the Book of Abstracts "In-silico systems for well-being: Artificial Intelligence based analysis of psychological, mental, functional and quality of life aspects of life after breast cancer treatment"	The biennial VPH conference is the main event of the Virtual Physiological Human society focusing on the emerging field of in silico medicine	26-28 August 2020	Paris, France - online	The Virtual Physiological Human Institute	Natural Scientists, Engineers, Clinicians	About 650	Done	-	https://vph2020.sciencesconf.org/

Ketti Mazzocco, IEO	International Psycho-Oncology Society	Congress	The annual IPOS World Congress of Psycho-Oncology and Psychosocial Academy brings together professionals in diverse fields from around the globe who dialogue about improving cancer care on an international level and developing strategies to add psychosocial issues to all aspects of cancer control.	June 16-19, 2020	Kyoto, Japan	IPOS	The attendees include, but are not limited to, psychologists, psychiatrists, physicians, nurses, social workers, social scientists, patient advocates, educators and administrators, dieticians, epidemiologists, spiritual care specialists, and vocational rehabilitation specialists		Submitted		Abstract submission deadline: January 1st 2020
FORTH	Special Session – Technological and Data-Driven Innovations in Cancer Care (Tech4Cancer)	Special Session	International Symposium on Computer Based Medical Systems (CMB5 2020)	22-24 June, 2020	Mayo Clinic, Rochester	IEEE	Natural Scientists, Engineers, Clinicians	30	Completed	Strong link with other EU projects in cancer management	
FORTH	ACM Petra 2020 - Pervasive Technologies Related to Assistive Environments Conference	Conference Paper	Paper Presentation: INTEGRA: A Web-Based Differential Diagnosis System Combining Multiple Knowledge Bases	June, 2020	Corfu, Greece	ACM	Data Management Researchers	200	Completed	Inform the research community about a developed approach for differential diagnosis using .	
FORTH	ISWC 2020	Presentation	Developing the BOUNCE Psychological Ontology	1-6 November 2020	Virtual	International Semantic Web Conference	Biomedical Engineers	N/A	Completed		
FORTH	Journal of Medical Internet Research (JMIR)	Journal publication	Article on: Status and Recommendations of Technological and Data-Driven Innovations in Cancer Care: Focus Group Study	December 2020		JMIR publications	Researchers, Clinicians		Completed	Inform the research community on status and recommendations of technological innovations in cancer research.	

			J Med Internet Res 2020;22(12):e22034								
Verde, A. S. C. et al. CHAMP	European Congress of Radiology (ECR) 2021 Book of Abstracts. Insights into Imaging 12	Conference Abstract	Assessment of subcortical brain volume changes in breast cancer patients undergoing treatment: A pilot study	March, 2021		European Congress of Radiology (ECR)	Researchers, Clinicians	NA	Published		
FORTH	IEEE, International Conference on Data Engineering	Presentation	Semantic Patches for Coupled Database-Application Evolution	19-22 April 2021	Virtual (China)		researchers, practitioners, developers	>1000	Completed		
FORTH	Scientific Journal: Computers in Biology and Medicine	Conference Paper	A machine learning-based pipeline for modelling medical, socio-demographic, lifestyle and self-reported psychological traits as predictors of mental health outcomes after breast cancer diagnosis: An initial effort to define resilience effects	April, 2021	NA	NA	Biomedical Researchers, Oncologists, Clinical researchers	NA	Completed		
Evangelos Karademas (FORTH) and BOUNCE consortium	Scientific Journal: Psychooncology	Paper	Cognitive, emotional, and behavioral mediators of the impact of coping self-efficacy on adaptation to breast cancer: An international prospective study	April 2021	NA	NA	NA	NA	Completed (Published)		
Almeida, S. et al CHAMP	Annals of Oncology	Conference Abstract	The psychological impact of the COVID-19 pandemic on patients with early breast cancer	May 2021	NA	European Society for Medical Oncology	Researchers, Clinicians	NA	Published		https://doi.org/10.1016/j.annonc.2021.03.146

Paula Poikonen-Saksela HUS	Helsinki University Aalto University	Lecture	Big data and AI in medicine	12 May 2021	Helsinki University Aalto University	HUS	Medical students	40	Completed		
Paula Poikonen-Saksela HUS	Helsinki University	Lecture	Meeting that changed my life: Deliver initial information for cancer patient with multidisciplinary collaboration	18 May 2021	Helsinki University	HUS	Medical students, Nurse students and Experts	25	Completed		
Ruth Pat-Horenczyk	Scientific Meeting, HUS CCC	Lecture	Lecture about resilience in breast cancer and BOUNCE project	14 May 2021	HUS clinical center	HUS	Oncologists, nurses, etc	30	Completed		
Ketti Mazzoco IEO	IPOS Congress	Symposium	Predicting effective adaptation to breast cancer to help women to bounce back: The role of fear of recurrence and personal characteristics in the process of coping	26-29 May, 2021	Virtual		Oncologists, nurses, psychiatrists, psychooncologists, clinical researchers	> 1000	Completed		
FORTH (Konstantina)	"Multidimensional Computational Methods for Modeling Cancer Diagnosis, Prognosis and Treatment "	Lecture	Lecture on the BOUNCE results	June 2021	Technical University of Crete	TUC	Biomedical Engineering MSc Students	30	Completed		
FORTH	PETRA, 2021	Conference paper acceptance	Prediction of COVID-19 infection based on symptoms and social life using machine learning techniques	June, 2021	NA	NA	Biomedical Researchers	NA	Completed		https://dl.acm.org/doi/fullHtml/10.1145/3453892.3462696

Simos Panagiotis	Health IT Conference	Presentation	Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back HEALTH IT	15 - 16 June, 2021	Virtual		Biomedical Researchers, Oncologists, Clinical researchers	>1000	Completed		
CHAMP & BOUNCE Consortium	International Congress of Psychology 2020	Hosting Symposium/special session/workshop	“Interdisciplinary approaches to assess psychological resilience in breast cancer survivors” This symposium will focus on the most recent evidence on how to define the optimal prediction measures for understanding resilience in breast cancer throughout the disease continuum from a multidisciplinary point of view.	19 – 24 July 2020 18-23 July 2021	(Virtual) Prague	https://www.icp2020.com/	Psychologists, nurses, physicians, biologists, epidemiologists	>1000	Completed		Rescheduled due to Covid pandemic.
FORTH	International Conference on Biomedical and Health Informatics	Presentation	Sensor-based behavioral informatics in support of Health Management and Care	27-30 July 2021	Virtual		Biomedical Researchers, Oncologists, Clinical researchers	>1000	Completed		
Eugenia Mylona FORTH	International Conference on Biomedical and Health Informatics (BHI'21) jointly organised with the 17 th IEEE-EMBS International Conference on wearable and implantable body sensor networks (BSN'21)	Presentation	Dynamic patterns of change in mental health following breast cancer diagnosis: A trajectory-based unsupervised clustering approach	27 - 30 July, 2021	Virtual	https://www.bhi-bsn-2021.org/?page_id=2336	Biomedical engineers, health informatics	>1000	Completed		

Evangelos Karademas FORTH	35th Annual Conference of the European Health Psychology Society	Oral Presentation	The impact of cultural and health-care system differences on psychological adaptation to breast cancer.	23rd – 27 th August, 2021	Virtual		Psychologists, Health Psychologists	>500	Completed		
Chiara Marzorati	Congress of Italian Psychology Association	Communication	Communication to the Congress of Italian Psychology Association	6-9 September 2021.	Lecce, Italy	Italian Psychology Association	Psychologists		Completed		
Georgios Stamatakis (ICSS)	"6 th Scientific Forum: Biosciences, Innovation, Technology, and Cancer: from Prevention to Therapy",	Presentation Invitation	Bounce Project Presentation: "The BOUNCE Project: Predicting Effective Adaptation to Breast Cancer to Help Women to bounce back"	15-17 October, 2021	Athens, Greek	http://gk.gr/en/portfolio/biosciences-innovation-technology-cancer-from-prevention-to-therapy/	Medical Doctors, Engineers, Basic Scientists, Psychologists	>1000	Completed		
CHAMP	4th Dissemination Event	Dissemination Event Scientific Workshop		8 th October 2021	Virtual	CHAMP	General Population	62	Completed		
FORTH	43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society	Conference paper acceptance	Prediction of Poor Mental Health Following Breast Cancer Diagnosis Using Random Forests	November, 2021	NA	NA	Biomedical Researchers, Oncologists, Clinical researchers	>1000	Completed		
ICSS & CHAMP	CHAMP Neuropsychiatry Lab meeting	Lecture	"Advanced Biostatistics and Artificial Intelligence for the analysis and modelling of resilience aspects for women following early breast cancer treatment, in the framework of the BOUNCE project"	18 th November 2021	Virtual	CHAMP	Psychiatrists, Psychologists, researchers, nurses	30	Completed		

Paula Poikonen-Saksela (HUS)	EU Research magazine	Press-release	. BOUNCE project in the winter 2021 issue of EU Research magazine	December,2021	NA	HUS	-	NA	Completed		
Leena Vehmanen et al. HUS & Bounce partners	Acta Oncologica	Journal Publication	Associations between physical exercise, quality of life, psychological symptoms and treatment side-effects in early breast cancer"	January 2022	NA	Acta Oncologica	Researchers, Clinicians	NA	Submitted		
Ruth Pat-Horenczyk et al. HUJI & Bounce partners	Social Science and Medicine	Journal Publication	"The moderating role of coping flexibility in reports of somatic symptoms among early breast cancer patients"	January 2022	NA	Social Science and Medicine Journal	Researchers, Clinicians	NA	Submitted		
Nuutinen, Mikko (NHG)	15th International Joint Conference on Biomedical Engineering Systems and Technologies	8 pages conference article and conference presentation (20 minutes)	"Impact of machine learning assistance on the quality of life prediction for breast cancer patients."	2 - 11 February, 2022	Virtual	HealthInf BIOSTEC	Researchers and practitioners interested in the specification, design, development and application of information and communication technologies (ICT) to healthcare and medicine		Completed		https://healthinf.sciencedirect.com/conferences/2022/02/02
Karademas et al. FORTH & Bounce partners	Psychology & Health	Journal publication	The mutual determination of self-efficacy to cope with cancer and cancer-related coping over time: a prospective study in women with breast cancer	February, 2022	NA	Psychology & Health Journal	Researchers, Clinicians	NA	Published		https://doi.org/10.1080/08870446.2022.2038157
Poikonen-Saksela, P. et al. HUS & ICSS	Scientific reports	Journal publication	A graphical LASSO analysis of global quality of life, sub scales of the EORTC QLQ-C30 instrument and	February, 2022	NA	Nature Scientific reports	Researchers, Clinicians	NA	Published		https://doi.org/10.1038/s41598-022-06138-2

			depression in early breast cancer								
Raquel Lemos et al. CHAMP	Frontiers in Psychology	Journal Publication	"Cross-Cultural Adaptation and Psychometric Evaluation of the Perceived Ability to Cope with Trauma (PACT) Scale in Portuguese Patients with Breast Cancer"	February 2022	NA	Frontiers in Psychology	Researchers, Clinicians	NA	Published		https://doi.org/10.3389/fpsyg.2022.800285
Ilan Roziner et al. HUJI & Bounce partners	Stress & Health	Short Communication	"Psychological and somatic symptoms among breast cancer patients in four European countries. A cross-lagged panel model"	February 2022	NA	Stress & Health Journal	Researchers, Clinicians	NA	Submitted		
Mikko Nuutinen et al. NHG & Bounce partners	Artificial Intelligence in Medicine	Journal Publication	"Aid of machine learning algorithm can improve clinician predictions of patient quality of life during breast cancer treatments"	March 2022	NA	Artificial Intelligence in Medicine	Researchers, Clinicians	NA	Submitted		
BOUNCE Consortium	Journal of Medical Internet Research (JMIR)	Journal Publication	"Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back: study protocol for a multicenter clinical pilot"	April,2022	NA	JMIR publications	Researchers, Clinicians	NA	Accepted		
Karademas et al. FORTH & Bounce partners	Journal of Clinical Psychology in Medical Settings	Journal Publication	"The Interplay Between Trait Resilience and Self-efficacy to Cope with Cancer in Patients with Breast Cancer: An international Study"	April 2022	NA	Journal of Clinical Psychology in Medical Settings	Researchers, Clinicians	NA	Accepted		

Kourou K. et al FORTH & Bounce partners	Cancer research and treatment	Journal Publication	Determining personalized psychosocial, behavioral, and biological risk factors for one-year mental health deterioration using adaptive learning algorithms: A multicenter breast cancer prospective study	April 2022	NA		Researchers, Clinicians	NA	Submitted		
Paula Poikonen-Saksela (HUS)	HUS CCC Scientific meeting	Presentation	BOUNCE final results	29 th April 2022	HUS CCC	HUS	Oncologists, Psychiatrists, Phycologists, researchers, nurses	?	Planned		
Karademas et al. FORTH & Bounce partners	Health Psychology	Journal Publication	"Types of Change Over Time in Self-efficacy to Cope with Breast Cancer and their Relations to Patient Well-being".	April 2022	NA		Researchers, Clinicians	NA	Submitted		
Dimitris Fotiadis (FORTH)	44th Annual International Conference of IEE and IEEE Engineering in Medicine and Biology Society (EMBC'22)	Presentation	Trajectories and Predictors of Depression after Breast Cancer Diagnosis: one year longitudinal study	11-15 July 2022	Glasgow	IEE and IEEE Engineering in Medicine and Biology Society	- Biomedical engineers, health informatics	>1000	Accepted		
Verde, A. S. C. et al. CHAMP	European Congress of Radiology (ECR)	Oral Presentation	Detection of regional white-matter cingulum alterations in breast cancer patients	13-17 July, 2022	Vienna	>1000	Radiologists, Researchers		Accepted		

Ketti Mazzoco(IEO)	IPOS World Congress	Presentation	“Family resilience: early predictors and long term mental health outcomes in breast cancer patients ”	29 August – 1 September,2022	Toronto	International Psychooncology Society	Psychologists, Psychoncologists	>1000	Submitted		
ICCS in collaboration with several other BOUNCE partners	Virtual Physiological Human Conference 2022	Presentation	Artificial intelligence based in silico models for the prediction of resilience related psychological, psychiatric and functional trajectories in women with early breast cancer”	6-9 September 2022	Porto	Virtual Physiological Human Conference	- Biomedical engineers, health informatics	>1000	Submitted		

Appendix 2



Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back

Fourth Dissemination Virtual Meeting

Mental health and neurocognition in Breast Cancer Patients

Organizer: Champalimaud Foundation

On 8th of September 2020, the Champalimaud Foundation will present the 4th dissemination virtual event of the European Project *BOUNCE: Predicting Effective Adaptation to Breast Cancer to Help Women to BOUNCE Back*. An interdisciplinary consortium of experts from Italy, Finland, Israel, Greece, and Portugal was formed in 2017 in response to a HORIZON 2020 call for Personalized Medicine research and innovation solutions. The product of this collaboration was BOUNCE, a funded project developed to explore factors that influence breast cancer patients' long-term psychological resilience and their capacity to resume a normal everyday life and work, following breast cancer treatments.

A clinical pilot run in 4 medical centers has recruited 817 participants between November 2018 and February 2020. For 18 months, biomedical, psychological and functional data was collected every 3 months in this longitudinal pilot, and has August 2021, 504 patients have completed the study.

With the use of data mining tools and applied machine learning approaches, the project has actively contributed to the identification of factors and processes that may predict along the care pathway the patients' resilience and their wellbeing. This model will provide information on which combination of factors undermine the adjustment to cancer, allowing an early identification of women at risk and design appropriate interventions.

The use of electronic patient reported outcomes in this study was beneficial for allowing participants to track their own wellbeing during the COVID-19 pandemic, enabling deeper self-understanding and empowering patients.

The aim of the Bounce 4th dissemination event will be to present some preliminary data achieved from the work so far, as well as to promote awareness on mental health in breast cancer patients, discussing multidisciplinary care path approaches, and the latest biomedical research of depression.

We also invite you to participate in the 2021 Champalimaud Research Symposium (CRS21) happening in the 13-15th of October ([link de registo](#))

You are also free to participate in a Portuguese public session on the impact of digital health in patient centered medicine.

Friday, October 8, 2021

Free registration to the following link:

GoToWebinar:

SCIENTIFIC WORKSHOP PROGRAM

9.30-9.40 **Welcome words & short introduction**

Fatima Cardoso & Albino Oliveira Maia, *Champalimaud Foundation, Lisbon*

fatimacardoso@fundacaochampalimaud.pt

albino.maia@neuro.fchampalimaud.org

9.40-11.155 **Patient Centered Care in Breast Cancer**

Chairs: **Fatima Cardoso** and **Luzia Travado**, *Champalimaud Foundation, Lisbon*

luzia.travado@fundacaochampalimaud.pt

9.40-9.55 **The mental health perspective**

Greta Pettini, *European Institute of Milan, University of Milan*

Greta.Pettini@ieo.it

9.55-10.10 **The oncology perspective**

Berta Sousa, *Champalimaud Foundation, Lisbon*

10.10-10.25 **The nurse perspective – The E-smart project**

Roma McGuire, *University of Strathclyde, Glasgow*

roma.mcguire@strath.ac.uk

10.25-10.40 **The patient perspective**

Tanja Spanic, *Europa Donna- The European Breast Cancer Coalition*

tanja.europadonna@gmail.com

10.40-10.55 **The Bounce project**

Paula Poikonen-Saksela, *Helsinki University Hospital, Helsinki, Finland*

paula.poikonen-saksela@hus.fi

10.55-11.15 Q&A and Panel discussion: speakers + moderators

Coffee break

11.30-12.30 **Cognitive function in breast cancer patients**

Chairs: **Raquel Lemos**, *Champalimaud Foundation, Lisbon* and **Paula Poikonen-Saksela**, *Helsinki University Hospital, Helsinki*

raquel.lemos@neuro.fchampalimaud.org

11.30-11.50 **Neurocognitive deficits in breast cancer patients**

Kathleen Van Dyk, *UCLA Semel Institut & Jonsson Comprehensive Cancer Center, Los Angeles*

KVanDyk@mednet.ucla.edu

11.50-12.30 **Main avenues in future neurocognitive research**

Sanne Schagen, *Cognition Group Lider, Netherlands Cancer Institute*

s.schagen@nki.nl

12.30-12.40 **Champalimaud-Helsinki cognitive study**

Berta Sousa, *Champalimaud Foundation, Lisbon*

12.40-12.55 Q&A and Panel discussion: speakers + moderators

Lunch break

- 14.00-15.20 **Biomarkers of Depression in cancer patients**
Chairs: **Albino Oliveira Maia**, *Champalimaud Foundation, Lisbon* , **Chariklia Tziraki**,
Hebrew University, Research Department of MELABEV
tziraki@gmail.com
- 14.00-14.20 **Immune markers of depression and their relevance for patients with cancer**
Maria Antonieta Nettis, King's College, London
maria.a.nettis@kcl.ac.uk
- 14.20-14.40 **Novel circuit-targeted therapeutics for depression**
Shan Siddiqi, Brigham & Women's Hospital, Harvard Medical School
SHSIDDIQI@BWH.HARVARD.EDU
- 14.40-15.00 **The neuroimaging perspective - Assessment of brain volumetric changes in breast cancer patients"**
Ana Castro Verde, *Champalimaud Foundation, Lisbon*
ana.castroverde@research.fchampalimaud.org
- 15.00-15.20 Q&A and Panel discussion: speakers + moderators
- 15.20- 15.30 **Workshop closing remarks**