Extracellular vesicles from a natural source for tailor-made nanomaterials

VES4US

[D7. 4] First report on outreach activities

Deliverable No.	D7.4	Work Package No.	WP7	Task/s No.	Task 7.2
Work Package Title		Dissemination, exploitation and communication activities			
Linked Task/s Title		Dissemination and Communication Plan			
Status		Final	(Draft/Draft Final/Final)		
Dissemination level		Public	(PU-Public, PP, RE-Restricted, CO-Confidential) (https://www.iprhelpdesk.eu/kb/522-which-are-different-levels-confidentiality)		
Due date deliverable		2020-02-28	Submission date		
Deliverable version		VES4US_D7.4_First report on outreach activities_deliverable			

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338

DOCUMENT CONTRIBUTORS

Deliverable responsible		ZABALA Innovation Consulting	
Contributors	Organization	Reviewers	Organization
Carla Sala	ZABALA Innovation Consulting	Susana Garayoa	ZABALA Innovation Consulting
		Blanca Rodriguez	ZABALA Innovation Consulting
		Aránzazu Albístur	ZABALA Innovation Consulting

DOCUMENT HISTORY

Version	Date	Comment

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1. EXECUTIVE SUMMARY

The deliverable D7.4. First report on outreach activities compile the tools, actions, procedures and results of the dissemination and communication, achieved during these 18 months of VES4US project

All these actions and materials were foreseen in the Dissemination and Communication Plan (D7.2) which combines dissemination and communication activities to reach the general audience of the project: (stakeholders, researches in this field, policy makers, Media outlets, end-users and the general public at the European, national and regional level). For each audience, we will try to work during the whole life of the project on a distinct strategy using targeted messages, means and language.

The dissemination and communication actions gathered in the Dissemination Plan are being implemented from the beginning of the project following an elaborated strategy. This is key for its success.

The Plan is deployed in three different phases:

- Building the VES4US brand (is completed).
- Putting in value milestones, progresses and achievements (in progress).
- Disseminating results (in advanced stages of the project and linked to the Dissemination and Communication Plan)

During the first year of the Dissemination Strategy implementation, main progresses compile in this report have been the following:

- Design and implementation of the VES4US brand: logo, visual guidelines, unified style, easily recognizable and identified with the main goals of the project.

- Communication materials package: Partners have at their disposal all the needed materials to offer information and communicate the project during their participation and attendance to events of the industry, the public relations with the Media, etc. Brochures, posters, roll-ups, general presentations to showcase the VES4US project, questionnaires for stakeholders, press kits for Media and audio-visual materials have been designed, produced and distributed among the members of the consortium.

- Website, Social Media channels and newsletter: A Digital Marketing strategy has been designed with the aim to attract as much as possible visitors to the VES4US website. Contents and news are updated every month with topics focused in the main advances of the project, relevant events of the industry and related European policies. The VES4US community around the Social Media channels has been created and starts to grow up.

- Work with Media: Milestones of the project have been detected with the aim of reaching the general and specialized Media. On this way knowledge and information about VES4US can be shared among the industry, end-users and the general public. Media outlets are important generators of public opinion.

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- Internal and external communication procedures: Some procedures concerning the detailed tasks have been elaborated with the goal of facilitating the roles and contributions of partners.

- Consolidation of the VES4US Communication Team: It has been formed to constantly improve the Dissemination and Communication strategy and involves technicians and Communication Departments of consortium members.

2. APPROACH OF THE DISSEMINATION AND COMMUNICATION STRATEGY

2.1 TASK-7.1. DISSEMINATION AND COMMUNICATION PLAN

The task 7.1 is leaded by ZABALA and needs the participation and collaboration of all the partners to succeed. It requires a strategic Plan of Dissemination of Results (deliverable D7.2) that compiles the dissemination and communications tools and actions in order to spread research results generated during the project. This has the purpose of creating value within the target communities/initiatives in the EU and raising citizen awareness towards the biomolecular sector.

The D7.1 Website and Logo. report describes the website (www.ves4us.eu) and the VES4US logo and delineates the motivation behind their concepts.

The D7.2 Dissemination and Communication Plan sets the strategic communication and dissemination needs to answer who will receive what key messages, how and when they are going to receive them. It was used to create a time planner to control how the project will develop in the incoming months. It also outlines the roles and responsibilities of partners and the conditions ensuring proper dissemination of the generated knowledge, related to confidentiality, publications and use of the knowledge.

2.2 TASK-7.2. COMMUNICATION AND DISSEMINATION ACTIVITIES

The VES4US Communication Team also involves the Communication Departments of the partners. Some procedures as the External Communication procedure and other concerning the detailed tasks (Scientific publications and Open Access, Social Media Guidelines, Events) have been established with the aim of facilitating the roles and contributions.

Within these months the project has launched the project website, the logo, and established the graphical identity, the social media channels, and the general communication flyers and brochures of VES4US. We have also done 29 events, 7 press releases, and four newsletters the fifth will be send in March.

3. RESULTS REACHED

The general results achieved during this first period are:

The objectives achieved during the first reporting period are:

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- Establishment of the Dissemination and Communication procedures (internal and external) and involve the partners in the Communication Team
- Development and consolidation of the VES4US brand with all the Communication and Dissemination tools and channels (website, newsletter and Social Media channels). And the creation of all the communication materials necessary.
- Establish contact with the media outlet and interesting FET projects.
- Creation of an exclusive event that brings together 5 projects with the same aim.
- Interaction with the main stakeholders in the biomolecular value chain, investors and participation in important events.
- Clustering activities with other H2020 projects and FET projects
- Scientific publications have also been produced

The main results achieved in the first reporting period are:

- The Website and Logo deliverable (deliverable D7.1) ves4us.eu
- The Dissemination and Communication Plan (deliverable D7.2). Main tool to follow the dissemination and communication strategy, that has been successfully launched and implemented.
- First scientific publications have been produced, and the interaction with the main biomolecular associations were promoted throughout participation in events.
- We have done 22 pieces of news published, 7 press releases, 4 newsletters, 5 on going (received by 33 researchers), 9 scientific publications, 1 chapter of a book, 3 Scientific Posters, the evMANIFESTO and 1 patent. we have posted 3 job offers, 1 brochure with 2500 prints, 1 presentation template, 1 promotional presentation, 1 Word template, and 1 roll-up and 1 financial pitch presentation.
- Contact with other H2020 and FET projects was established. (Clustering event in Palermo Nov 6th)
- Attendance and organization of a total of 29 events with a participation of 6581 people in general
- Through the implementation of the tasks established in the Dissemination and Communication plan, VES4Us has built a good community on-line and off-line that are making visible the project. The website is constantly attracting visitors, the number of followers is increasing and the level of visibility and interaction in Social Networks is high and qualified.
- Project website, the logo, and established the graphical identity, the social media channels, and the general communication flyers.

The next table summarises the activities performed by each partner during the first 18 months of the project.

Participant	Activities performed
CNR	▸ Support of the coordination of the Dissemination and Communication Strategy. ▸ Launch of Press Releases with its Press Cabinet. ▸ Presentation of VES4US in events. ▸ Identification of key results with exploitation potential and participation in the evaluation of such potential. ▸ Interaction in the Social Media channels. ▸ Support of the Social Media Strategy.

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	▸ Technical articles in magazines.
ITSLIGO	▸ Distribution of communication materials in events. ▸ Identification of key results with exploitation potential and participation in the evaluation of such potential.
ETHZ	▸ Technical articles in magazines. ▸ Identification of key results with exploitation potential and participation in the evaluation of such potential.
UL	▸ Presentation of VES4Us in events. ▸ Identification of key results with exploitation potential and participation in the evaluation of such potential.
MPG	▸ References to the project in its website. ▸ Identification of key results with exploitation potential and participation in the evaluation of such potential.
ZABALA	▸ Coordination of the Communication and Dissemination Strategy and the Exploitation Plan. ▸ Elaboration and submission of deliverables 7.1, 7.2, 7.3. ▸ Dedicated space about the project on its website. ▸ Interaction in the social media channels. ▸ Inclusion of the VES4US newsletter in mailings. ▸ Support of ZABALA's Communication Department ▸ Definition of a methodology for an appropriate Exploitation deliverable and submission of the Deliverable. ▸ Identification of the key results with exploitation potential. ▸ Creation and coordination of the Social media channels and the creation of press releases, including the creation of the website and feeding it the content.

Table 1 Participant table

3.1 DISSEMINATION AND COMMUNICATION TOOLS AND ACTIONS

3.1.1 CREATION OF THE LOGO, VISUAL GUIDELINES AND PRESENTATION DOCUMENTS (TEMPLATES)

A VES4US visual guide has been created as well as templates for documents. It includes a detailed illustration of the chosen logos, colours and fonts. It has been applied on project tools representation of the project. It can be downloaded from the website.

The following templates have been designed:

- A Word template for generic documents (deliverables, press releases) and another template for Publications to be printed in-house or digitally.
- 3 Power Point templates. A presentation template, a promotional presentation, and a horizontal Scientific poster.
- A brochure
- A final pitch presentation (used to go to a pitch event to investors).
- A roll-up.

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It is expected that the VES4US project develops a significant amount of research results which will be disseminated to different key scientific communities. Thus, Academia Partners and partners with a special relevant RTD profile will dedicate strong efforts in publishing scientific papers under the framework of global recognized scientific conferences and journals.

The following have been submitted, approved and published with open access rights:

1. Minimal information for studies of extracellular vesicles 2018
2. Green kiwifruit extracts protect motor neurons from death in a spinal muscular atrophy model in Caenorhabditis elegans 2019
3. Scalable Production and Isolation of Extracellular Vesicles: Available Sources and Lessons from Current Industrial Bioprocesse
4. Viscosity of Plasma as a Key Factor in Assessment of Extracellular Vesicles by Light Scattering
5. Inception Mechanisms of Tunnelling Nanotubes
6. The role of membrane vesiculation and encapsulation in cancer diagnosis and therapy (Chapter of a book)
7. A bio-orthogonal functionalization strategy for site-specific coupling of antibodies on vesicle surfaces after self-assembly
8. Vaccination with E2 in alum efficiently induces an antibody response to β-amyloid without affecting brain β-amyloid load and microglia activation in 3xTg mice
9. Membrane Transporters in Citrus Clementina Fruit Juice-Derived Nanovesicles
10. Normal red blood cells' shape stabilized by membrane's in-plane ordering

3.1.2 WEBSITE

We can find:

- General information about the project.
- Description of all the organizations members of the consortium including the main researchers involved in VES4US.
- Information, objectives and work packages.
- Information about public participation, and training programmes (workshops and webinars for academia, business and policy makers).
- Link to the available hiring positions.
- Description of events organized within the framework of the project.
- Press releases and other materials focused on the Media.
- Information about the results.
- Newsletters.
- Public deliverables.
- Latest news about the project
- Addressing and contact information.
- Appropriate acknowledgment and reference to the European Union's Horizon 2020 Framework Programme and disclaimer excluding European Commission responsibility.

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- The logo, and established the graphical identity, the social media channels, and the general communication flyers, public deliverables, 22 pieces of news published, 7 press releases, 4 newsletters, 5th on going (received by 33 researchers), 9 scientific publications, 1 chapter of a book, 3 Scientific Posters, the evMANIFESTO and 1 patent. we have posted 3 job offers, 1 brochure with 2500 prints, 1 presentation template, 1 promotional presentation, 1 Word template, and 1 roll-up and 1 financial pitch presentation.

3.1.2.1 EVOLUTION

For technical reasons we only have data from the website evolution since October 8th, 2019. During this 5-month period we have reached a total of 2912 page visits, and 896 new users.

As the Audience Overview (see Figure 5) shows, in five months VES4US has had 896 new users, 1315 sessions and 2912-page visits. Even though, most of the people that visit our website are from Italy and Spain (maybe because of the coordinator of the project and communication manager are from there) (see Figure 1) still, a lot of them speak Chinese and are from Peninsular China and writes or speaks with simplified characters. Because the page receives a lot of spam in Chinese and English maybe that is the reason why the number increases that much in the languages of Chinese and English (from the United States). Another remarkable thing is that most of the users are new, which means that the VES4US network is expanding. (see Figure 3)

We can also see in the graphic a high percentage of rebound time, meaning that even thought people visit our page, they do not stay for a long time. That is a need thing to improve in this next year of the project.

The Acquisition Overview (see Figure 4) is a glimpse of how the internet traffic searches for VES4US and visits the website. Most of the users are Direct which is the result of a user entering a URL into their browser or using a bookmark to directly access the site. Second place goes to the Organic Searches, which is a method for entering one or several search terms as a single string of text into a search engine. Organic search results appear as paginated lists, are based on relevance to the search terms, and exclude advertisements; whereas non-organic search results do not filter out pay per click advertising. If the reader searches for VES4US on their computer, it will see that the VES4US page appears at the top of Google searches. That is a good thing. It means that our page complies with the SEO requirements established by Google and it is a secure page. The third one are the Referral Users, which are the people who find VES4US through a different origin or source which is not Google (as the graph shows, the referral users are the ones who stay less time on VES4US, because they have a high percentage of rebound time). And finally, less people find VES4US or enters the page because of Social Media channels, but there are some who do. Since the last report the Organic Searches have increased and left the Referral Users on third place.

The Overview (see Figure 2) shows mostly the same as the General Audience Overview (Figure 5), but includes the most visited pages by the users. As the graph shows, people stay more time in our homepage which means that is interesting. The second most visited page is the TEAMS sections in which appear the people who take part of the execution of the project and stakeholders and partners

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(see https://ves4us.eu/teams/). The third most visited place is the MEDIA CORNER in where we can find: the press releases, the newsletters, the gallery, the project resources and the main documents of the project (deliverables and papers) (see https://ves4us.eu/media-corner/).

Ubicación

Todos los usuarios
100,00 % Usuarios

1 oct. 2019 - 7 feb. 2020

Gráfico de visitas por ubicación

Resumen

	País	Adquisición			Comportamiento			Conversiones		
		Usuarios	Usuarios nuevos	Sesiones	Porcentaje de rebote	Páginas/sesión	Duración media de la sesión	Tasa de conversión del objetivo	Objetivos cumplidos	Valor del objetivo
		896 % del total: 100,00 % (896)	896 % del total: 100,00 % (896)	1.315 % del total: 100,00 % (1.315)	59,01 % Media de la vista: 59,01 % (0,00 %)	2,21 Media de la vista: 2,21 (0,00 %)	00:02:13 Media de la vista: 00:02:13 (0,00 %)	0,00 % Media de la vista: 0,00 % (0,00 %)	0 % del total: 0,00 % (0)	0,00 € % del total: 0,00 % (0,00 €)
1.	Italy	183 (20,15 %)	180 (20,09 %)	313 (23,80 %)	43,45 %	2,73	00:02:50	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
2.	Spain	131 (14,43 %)	129 (14,40 %)	249 (18,94 %)	50,20 %	2,36	00:02:49	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
3.	China	110 (12,11 %)	110 (12,28 %)	119 (9,05 %)	89,08 %	1,18	00:00:48	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
4.	Japan	73 (8,04 %)	73 (8,15 %)	75 (5,70 %)	94,67 %	1,19	00:00:51	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
5.	United States	67 (7,38 %)	67 (7,48 %)	72 (5,48 %)	86,11 %	1,38	00:00:22	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
6.	Finland	62 (6,83 %)	61 (6,81 %)	99 (7,53 %)	72,73 %	1,80	00:02:03	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
7.	Slovenia	37 (4,07 %)	37 (4,13 %)	72 (5,48 %)	41,67 %	3,17	00:03:32	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
8.	Belgium	31 (3,41 %)	30 (3,35 %)	50 (3,80 %)	44,00 %	2,82	00:03:48	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
9.	Germany	30 (3,30 %)	30 (3,35 %)	40 (3,04 %)	60,00 %	1,88	00:00:44	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
10.	France	27 (2,97 %)	27 (3,01 %)	36 (2,74 %)	61,11 %	2,53	00:02:55	0,00 %	0 (0,00 %)	0,00 € (0,00 %)

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Figure 1 Ubication data

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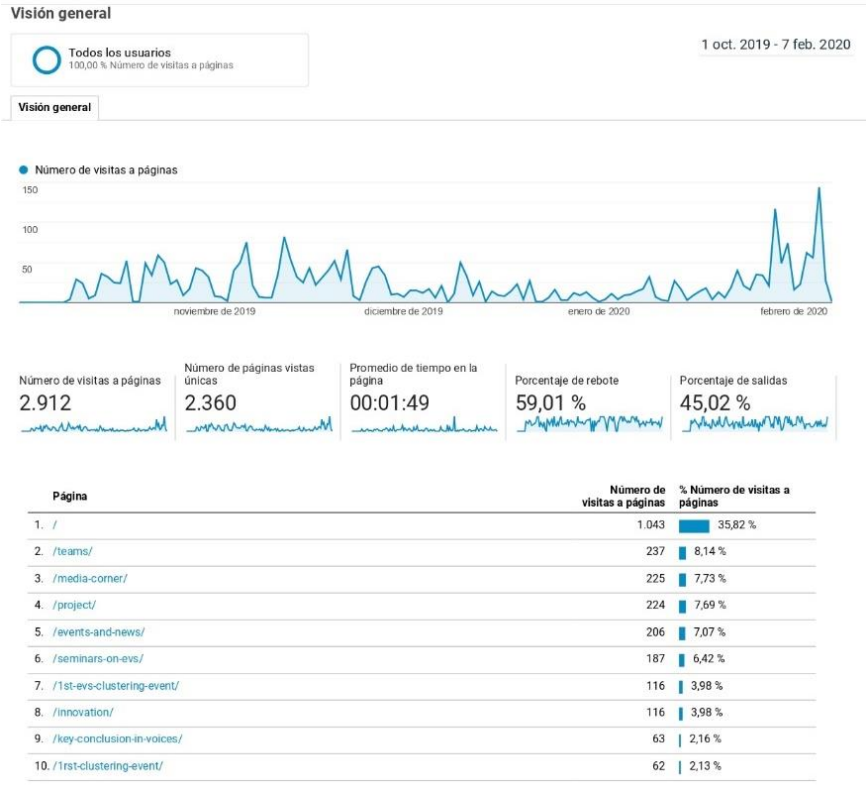
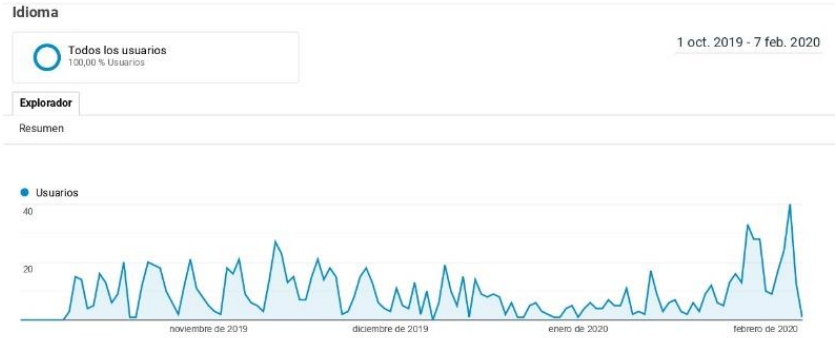


Página	Número de visitas a páginas	% Número de visitas a páginas
1. /	1.043	35,82 %
2. /teams/	237	8,14 %
3. /media-corner/	225	7,73 %
4. /project/	224	7,69 %
5. /events-and-news/	206	7,07 %
6. /seminars-on-evs/	187	6,42 %
7. /1st-evs-clustering-event/	116	3,98 %
8. /innovation/	116	3,98 %
9. /key-conclusion-in-voices/	63	2,16 %
10. /1rst-clustering-event/	62	2,13 %

Figure 2 General Overview



Idioma	Adquisición			Comportamiento			Conversiones		
	Usuarios	Usuarios nuevos	Sesiones	Porcentaje de rebote	Páginas/sesión	Duración media de la sesión	Tasa de conversión del objetivo	Objetivos cumplidos	Valor del objetivo
	896 % del total: 100,00 % (896)	896 % del total: 100,00 % (896)	1.315 % del total: 100,00 % (1.315)	59,01 % Media de la vista: 59,01 % (0,00 %)	2,21 Media de la vista: 2,21 (0,00 %)	00:02:13 Media de la vista: 00:02:13 (0,00 %)	0,00 % Media de la vista: 0,00 % (0,00 %)	0 % del total: 0,00 % (0)	0,00 € % del total: 0,00 % (0,00 €)
1. en-us	217 (24,14 %)	215 (24,00 %)	318 (24,18 %)	58,18 %	2,13	00:02:20	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
2. zh-cn	184 (20,47 %)	184 (20,54 %)	193 (14,68 %)	91,71 %	1,13	00:00:31	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
3. it-it	148 (16,46 %)	147 (16,41 %)	254 (19,32 %)	44,09 %	2,71	00:02:45	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
4. es-es	126 (14,02 %)	126 (14,06 %)	247 (18,78 %)	49,80 %	2,39	00:02:47	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
5. en-gb	44 (4,89 %)	44 (4,91 %)	57 (4,33 %)	52,63 %	2,65	00:02:26	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
6. fi-fi	25 (2,78 %)	25 (2,79 %)	34 (2,59 %)	73,53 %	2,06	00:02:31	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
7. "en-us"	17 (1,89 %)	17 (1,90 %)	17 (1,29 %)	100,00 %	1,00	00:00:00	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
8. it	14 (1,56 %)	14 (1,56 %)	28 (2,13 %)	42,86 %	2,82	00:01:56	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
9. fr-fr	13 (1,45 %)	13 (1,45 %)	17 (1,29 %)	76,47 %	1,53	00:01:03	0,00 %	0 (0,00 %)	0,00 € (0,00 %)
10. sl-si	13 (1,45 %)	13 (1,45 %)	28 (2,13 %)	42,86 %	4,64	00:04:00	0,00 %	0 (0,00 %)	0,00 € (0,00 %)

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Figure 3 Language data

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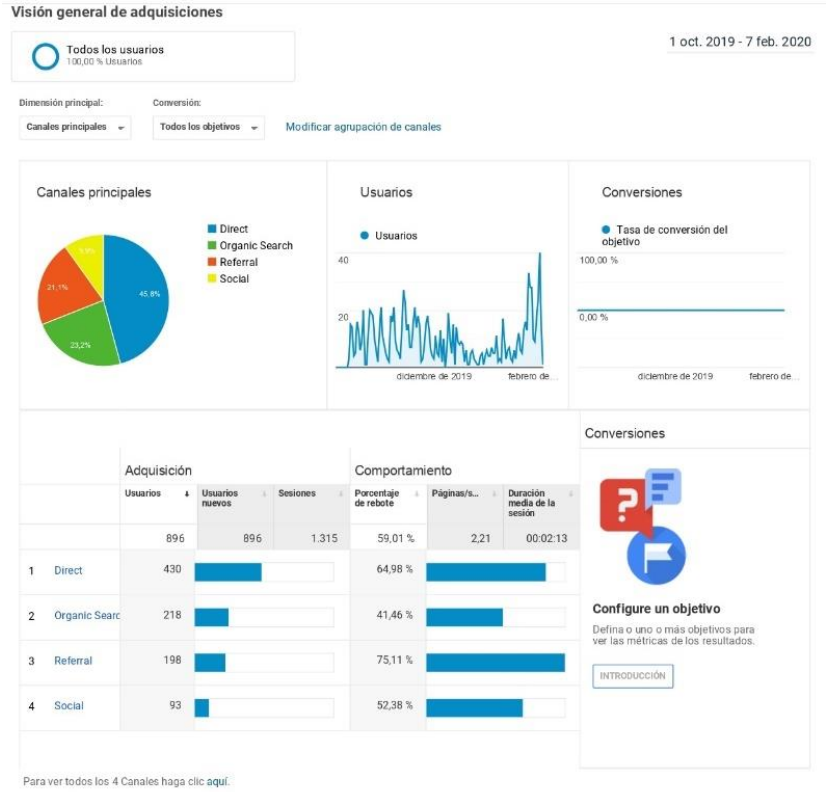

Figure 4 Acquisition data

Figure 5 Audience Overview

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3.1.3 SOCIAL MEDIA

ZABALA is responsible for the management of the Twitter and LinkedIn channels for VES4US project and partner must collaborate by mentioning the VES4US Twitter account, retweeting the messages about the project and sharing publications on LinkedIn.

The creation of a "VES4US community" has increased the visibility and impact of the results attained in the project. The creation of Social Media profiles on Twitter and LinkedIn allows to increase the visibility of the project, the results and attracting the interest of stakeholders and the general public and test them. Social Media profiles are additionally a useful tool to achieve more visits to the website.

On Twitter we have 207 followers and 327 publications and on LinkedIn 57 followers and 73 publications, counting two publications on the official ISEV group which has 662 members

3.1.3.1 TWITTER

The credentials for Twitter are the following:

- @ves4us – twitter handler
- #ves4us – hashtag

Figure 6: Screenshot of the twitter account

3.1.3.2 LINKEDIN

A LinkedIn company page has been established for VES4US public image on a global scale as a reputable and trustworthy project. Although many people view the Social Media site LinkedIn only as a site for job hunters and for growing professional network, LinkedIn is an equally effective tool for nurturing referral relationships.

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By producing content that our viewers want to see about the project and share with others, our viewers become engaged advocates of VES4US and can expand our global influence. The content generated by VES4US project will be available in different formats such as SlideShare project presentations, website blog posts, infographics and videos to suit the viewing preferences of our target audience.

3.1.4 SOCIAL MEDIA IMPACT DATA ANALYTICS

3.1.4.1 TWITTER

Twitter only allows the user to analyse a 91-day period. For that reason, we will show of the analyses from November 9th to February 7th, 2019. During this period, VES4US has reached 28.7K impressions on Twitter. As we can see in Figure 7 and Figure 8, during this 91-day period, VES4US has had a 1% engagement rate ("the engagement rate is a metric that measures the level of engagement that a piece of created content is receiving from an audience. It shows how much people interact with the content. Factors that influence engagement include users' comments, shares, likes, and more") , 102 clicks on links posted on social media, 55 RT's, 103 likes, and 8 replies to tweets posted. In those figures we can also see the top tweets (see Figure 9) of the period and the impressions that each one has had on people and the engagement rate of each one. The first one, the top tweet, for example, has had 2244 impressions and an engagement rate of 2.1% with 48 engagements.

Figure 7 Impressions

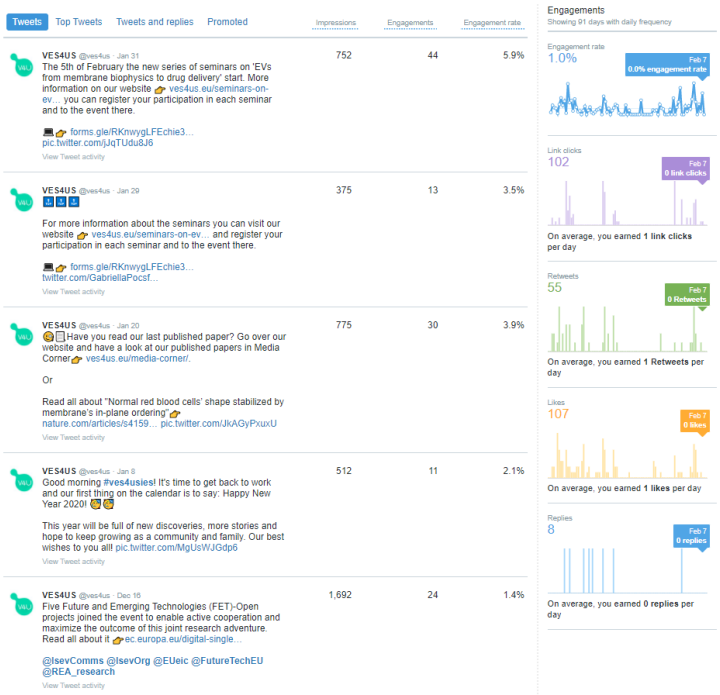

Figure 8 Engagements and Tweets

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Tweets / Top Tweets / Tweets and replies / Promoted	Impressions	Engagements	Engagement rate
VES4US @ves4us · Nov 28 We are going to begin with the interviews to the 5 FET project coordinators. The first one is @ChiariMarcella from @IndexProject. We asked all the coordinators the same question and we got a lot of different answers. The first one is this 👇👇 Can you guess the question? pic.twitter.com/jkeDyjgLzl View Tweet activity	2,244	48	2.1%
VES4US @ves4us · Dec 10 The evMANIFESTO has been released by the 5FET Open projects that attended the 1st #EVsClusteringEvent you can read all about it 👉ves4us.eu/the-evmanifest… and have a look at the manifesto, inside the piece of news or here 👉 ves4us.eu/media-corner/ inside the evMANIFESTO section. pic.twitter.com/M0Q1n1TQgK View Tweet activity	1,891	58	3.1%
VES4US @ves4us · Dec 16 Five Future and Emerging Technologies (FET)-Open projects joined the event to enable active cooperation and maximize the outcome of this joint research adventure. Read all about it 👉ec.europa.eu/digital-single… @IsevComms @IsevOrg @EUeic @FutureTechEU @REA_research View Tweet activity	1,692	24	1.4%
VES4US @ves4us · Nov 15 To reminisce about the 1st #EVsClusteringEvent today we bring you some videos of the coordinators and EVs experts we filmed during the event in Palermo. Have a look, and learn the main key points: The 1st expert is Sven Kluczka, Technical Sales Engineer at @anasysta #EUeic pic.twitter.com/9ANdCkSiul View Tweet activity	1,352	42	3.1%
VES4US @ves4us · Nov 12 XXIV School of Pure and Applied Biophysics on "Applications of X-rays and Neutron Scattering in Biology". Venice, 27-31 January, 2020 Info and registrations: sibpa.it/index.php/scuo… #brightness2 #EBSA #UNIVPM @UnivPoliMarche #SISN #SILS #elettrasincrotroneTrieste #DISVA pic.twitter.com/Xil2f8aN0F View Tweet activity	894	14	1.6%

Figure 9 Top tweets

3.1.4.2 LINKEDIN

The following graphs will show the analytics from the 31st of January 2019 until the 4th of February of 2019 which is the period that LinkedIn allows you to check the analytics.

As we can see in Figure 10the impressions on posts had a peak during November, that is because of the EVs Clustering Event. Figure 11 shows the traits of the visitors in the page. The reader will observe that most of the visitors are investigators and in second place are people who belong to the media communications sector.

Figure 13 and Figure 14 show the data about the LinkedIn followers. The graphs show that as of right now VES4US has 56 followers. It also shows the progress of the followers during this past year. Figure 13 displays where the followers come from. Most of them are from Italy and Spain. Those being Palermo, Milano and Naples and Pamplona and Barcelona respectively.

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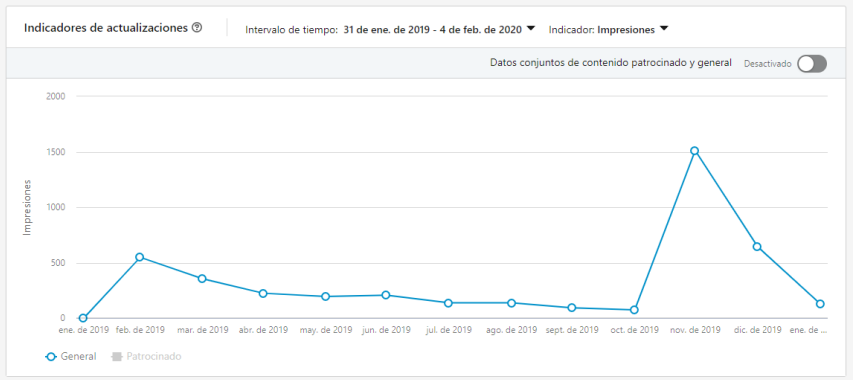

Figure 10 Impressions

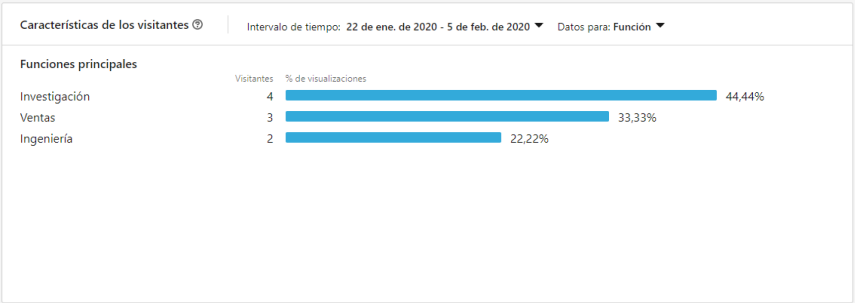

Figure 11 Work of our visitors

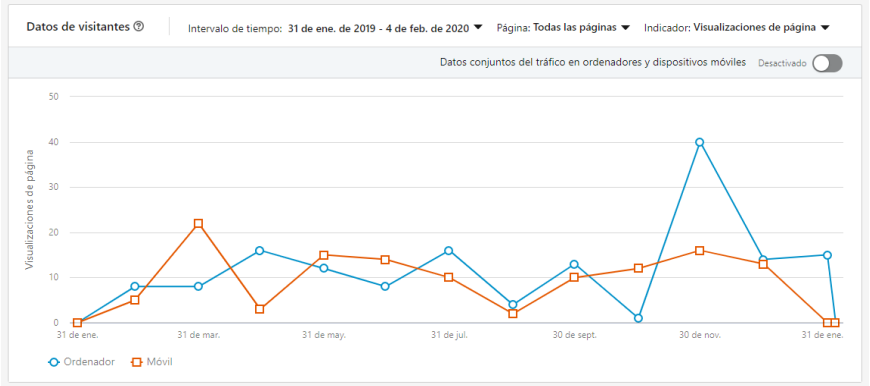

Figure 12 Visitors data

Figure 13 Followers characteristics

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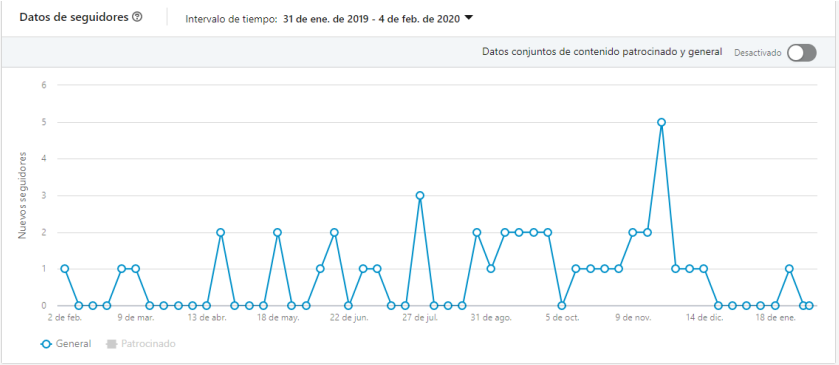

Figure 14 Followers Data

3.1.5 COMMUNICATION MATERIALS

In order to effectively broadcast the messages of the project in events and promote the project on the website and the Social Media channels, different communication materials have been published and printed, those are:

3.1.5.1 GENERAL PRESENTATIONS OF VES4US

A general Power Point presentation in English is already been created to showcase the project at events. The PPT presentation should be translated, used and completed by the partners of the consortium. The content will include the project´s main mission, objectives and expected results.

3.1.5.2 DIGITAL AND PRINT BROCHURE

A brochure explaining the project is already been done. This kind of communication material is an excellent practice of showcasing the main objectives and information about VES4US. It's been done print and digital in a way to spread the word of the project and reach more people in the process.

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Figure 15 VES4US Brochure / front page

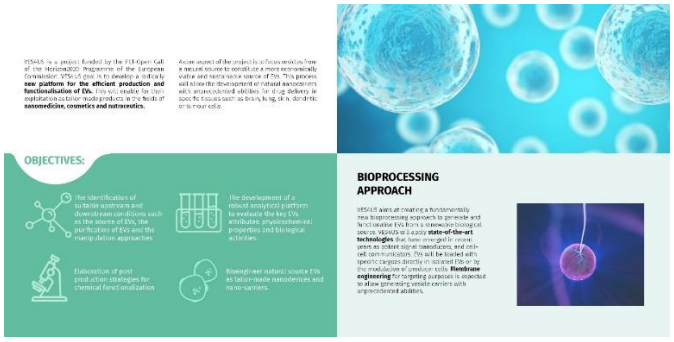

Figure 16 VES4US Brochure

Figure 17 VES4US Brochure

Figure 18 VES4US Brochure

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Figure 19 VES4US brochure

Figure 20 VES4US Brochure Partners

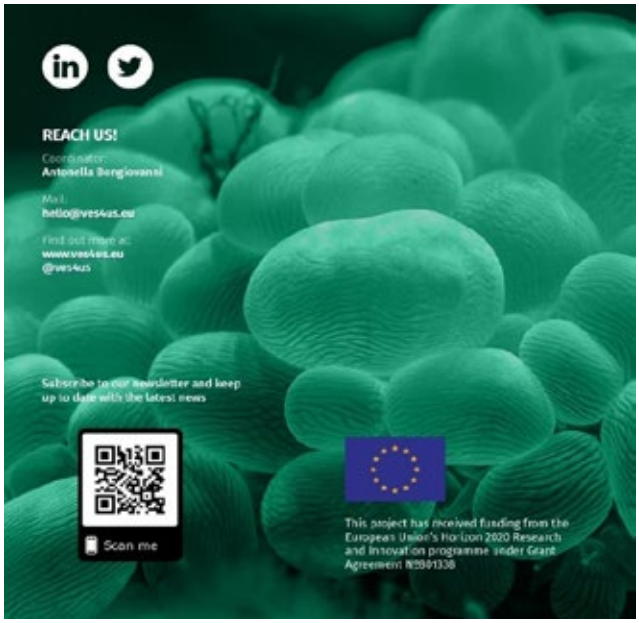

Figure 21 VES4US Brochure / last page

3.1.5.3 ROLL-UP

For the participation in events we have developed a roll-up for the whole project to avoid one-shot production and waste.

Figure 22 Roll-up Infographic

3.1.6 EVENTS

The strategy of participation of events will be set up at three different levels:

- By the side of each partner participating in the usual events of the sector.
- Joining presentations of the project in previously selected events organized by the EC and other key institutions/organizations.
- Events organized and promoted by VES4US collaborating with other initiatives and organizations to generate synergies.
- Attendance and organization of a total of 29 events with a participation of 6581 people in general

3.1.6.1 REPORTING EVENTS

Partners of the consortium will attend relevant events, conferences, workshops and fairs of the sector. They should be actively involved seeking opportunities to present and showcase the project in their own countries and at both local and European levels. The participation in events must be previously communicated (in order to make visible activities through communication channels), and

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after the event every partner must complete the events questionnaire with the reporting about the dissemination activity: sum-up, number of attendees, pictures, publications, presentations, press clipping, etc

3.1.6.2 PRESENCE AT KEY EVENTS

The following list is an example list of the kind of events that will be in the radar of VES4US for communication and dissemination activities:

NAME OF THE EVENT	PARTNER ATTENDING	LOCATION	DATE	SUMMARY	TARGET GROUP	TYPE OF EVENT
Seminars for school students within the "European Biotech Week"	CNR- IEOS	Italy	24-30/09/2018	The European Biotech Week celebrates biotechnology, an innovative and vibrant sector launched by the discovery of the DNA molecule back in 1953. The first European Biotech Week that took place in 2013 marked the 60th anniversary of this pivotal moment in history. CNR – IEOS did seminars for school students.	School students	Participation to a Workshop
Researchers Night	CNR-IBF	Palermo	27/09/2018	European Researchers' Nights are public events dedicated to bringing researchers closer to the public. They showcase the diversity of research and highlight the impact of research on our daily lives. The aim is also to motivate young people to embark on research careers. The events promote how researchers contribute to our society by displaying their work in an interactive and engaging forum.	General Public	Trade Fair
Meeting for the foundation of EVIta	CNR-IBIM,IBBR,IBF	Turin	05/10/2018	EVIta's primordial goal is to promote basic, clinical and translational research and the interactive network among Italian researchers, in the field of extracellular vesicles. The scientific interest for extracellular vesicles, small vesicles released by cells and present in biological fluids, arises from their preponderant role as mediators of communication between cell and cell and for their involvement in many diseases. Antonella Bongiovanni, Gabriella Poscfalvi and Mauro Manno, participated in the foundation of EVITA as board members.	Researchers (Scientific community)	Other
Science Festival Futuro Remoto 32nd edition	CNR- IEOS	Naples	8-11/11/2018	Futuro Remoto is a real "Science Festival" starting from the joint initiative of the seven universities of the Campania region, the MIUR – Office, Regional School for Campania and Fondazione Idis-Città della Scienza, strongly supported by local institutions, by all the main National Research Centers. The event represents a well-established and lively living platform of "social innovation". They participated with a stand of VES4US inside the science festival.	General Public	Trade Fair
Spectradyne nCS1demo	CNR (IBF and IBBR)	Rome	19/11/2018	This workshop with the participation of CNR was focused on a detailed introduction of the innovative nCS1 technologies and the many different applications to the field.	Researchers	Participation to a Workshop
Joint IBBR-IGB-IEOS Seminar, Veronika Kralj-Iglič: Clinical experience with microvesicles	University of Ljubljana	Naples	05/01/2019	Our partners from University of Ljubljana and the Consiglio Nazionale della Ricerche gather in a first seminar about extracellular vesicles. The event was in Naples, and the speaker was Prof. Veronika Kralj-Iglic who talked about the "Clinical experience with microvesicles	CNR (IBBR, IEOS, IGB), University of Ljubljana, Researchers / Undergraduates and postgraduates	Organisation of a Conference
Short term mobility fellowship	University of Ljubljana (Veronika Kralj-Iglič)	Slovenija	10-23/01/2019	Short-Term Fellowships fund research exchanges of up to three months between laboratories in eligible countries. Awarded applicants can stay on their research visit for an additional three months (maximum)	IBBR-CNR (Napoli), researchers/ postgraduates, post docs	Training

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Joint IBBR-IGB-IEOS Seminar, Ales Iglič: Membrane tubular protusions and tunnelling nanotubes	University of Ljubljana	Naples	26/01/2019	They gathered again in Naples to talk about "Membrane tubular protrusions and tunnelling nanotubes". This time the speaker will be Prof. Ales Iglic from the University of Ljubljana.	CNR (IBBR, IEOS, IGB), University of Ljubljana, Researchers / Undergraduates and postgraduates	Organisation of a Conference
A mass spectrometry-based toolbox for extracellular vesicle research	CNR (Gabriella Pocsfalvi) and MPIP	Mainz	12/02/2019	Invited lecture at MPI at Mainz, title: A mass spectrometry-based toolbox for extracellular vesicle research	Max Planck Institute Researcher/ undergraduates/post graduates	Organisation of a Conference
VES4US Napoli workshop	CNR (IBIM, IBF, IBBR, IEOS, IGB), University of Ljubljana	Naples	21-22/02/2019	The Laboratory of Extracellular Vesicles and Mass Spectrometry (EVs-MS) run a workshop in the framework of the VES4US project at the Institute of Biosciences and Bioesources (IBBR-CNR) as part of dissemination and training activities of the project	CNR (IBIM, IBF, IBBR, IEOS, IGB), University of Ljubljana, Researchers / Undergraduates and postgraduates	Organisation of a Workshop
VES4US Napoli seminar series: 12 weakly seminars on EV research	CNR (IBBR, IEOS, IGB), University of Ljubljana and MPIP	Naples	09/01 - 23/03 2019	The Laboratory of Extracellular Vesicles and Mass Spectrometry (EVs-MS) run a seminar series every Wednesday. organized in the framework of the European FetOpen VES4US project at the Institute of Biosciences and Bioesources (IBBR-CNR) as part of dissemination and training activities of the project. This seminar programme took advantage of the presence of two VES4US members from the University of Ljubljana, Prof. Veronika Kralj-Iglič supported by CNR STM 2019 grant and Prof. Ales Iglič. The seminar series involved both senior and junior researchers of VES4US project as well as invited lecturers working in the field of extracellular vesicles.	CNR (IBBR, IEOS, IGB), University of Ljubljana, Researchers / Undergraduates and postgraduates	Organisation of a Conference
Meeting Biophee19: Membrane Biophysics of Exo-Endocytosis, From Model Systems to Cells. Cannes, France	CNR-IBF	Cannes	03-06/04/2019	The Membrane Study Group (GEM) and Club Exocytose-Endocytose are two French societies that regroup researchers in the fields of membrane biophysics and membrane trafficking, respectively. The goal of this international meeting is to illustrate how novel opportunities for discovery in the life sciences arise when the most urgent challenges in the field of exo and endocytic membrane trafficking are addressed from fresh angles based on innovative biophysical tools and concepts CNR attended this event as a participant.	Researchers, Students	Participation to a Conference
ISEV Kyoto	CNR	Kyoto	24-28/04/2019	The congress covered all basic biological aspects of exosomes, microvesicles, apoptotic bodies and synthetic vesicles, as well as clinical and translational research. It was a unique occasion to interact with experts and top-researchers, to	Researchers / Undergraduates and postgraduates	Participation to a Conference

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				get new ideas, but also, to contribute in the development of this growing and passionate field with opportunities to impact in different socio-economical areas including the food industry, environment and, importantly, clinics. This was an effective and dynamic event that included educational sessions for beginners, along with the latest advances of the field touching both fundamental and clinical aspects. The program offered ample opportunities to engage speakers and colleagues in both large and small settings, appealing to every learning style and the customized education you want. Antonella Bongiovanni and Gabriella Poscfalvi participated and were speakers at this event in one session. They also had a stand of VES4US with a scientific poster.		
Targeted delivery to cancer cells: an emerging aspect of oligo-therapeutics – Workshop OTS Society	CNR IEOS, DMMBM University of Naples Federico II	Naples	10/05/2019	Targeted delivery to cancer cells: an emerging aspect of oligo-therapeutics they participated in a workshop.	Scientific community, Company Laboratories	Participation to a Workshop
Invited lecture at First Dept of Pediatrics, Semmelweis University, Budapest	CNR-IBBR	Budapest	24/05/2019	Invited lecture on "MS of EVs"	Researchers / Undergraduates and postgraduates	Participation to a Conference
1st International Conference on Neuroprotection by Drugs, Nutraceuticals and Physical Activity	CNR (IBBR)	Bologna	5-6/6/19	This conference represents a novel opportunity for interdisciplinary scientific interactions between academics, researchers and clinicians in the area of Neuroprotection, in Health and Diseases. This conference will focus on potential mechanisms of Neuroprotection at the cellular, biochemical, and molecular level mediated by Drugs, Nutraceuticals and Physical Activity.	Researchers (Scientific community)	Participation to a Conference
Seminars for school students within the “European Biotech Week”	CNR-IEOS	Italy	23-26/09/2019	The European Biotech Week celebrates biotechnology, an innovative and vibrant sector launched by the discovery of the DNA molecule back in 1953. The first European Biotech Week that took place in 2013 marked the 60th anniversary of this pivotal moment in history. They did seminars for school students.	School students	Participation to a Workshop
Workshop nCS1 Spectradyne	CNR	Naples	25/09/2019	This workshop was focused on a detailed introduction of the innovative nCS1 technologies and the many different applications to the field. And the event was organized and presented as well as teached by CNR.	Researchers / Undergraduates and postgraduates	Organisation of a Workshop

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Tech week exhibition: VES4US & Workshop nCS1 Spectradyne	CNR	Naples	25/09/2019	This exhibition was focused on the future production of extracellular vesicles and the presentation of the VES4US project. The event was organized and presented by CNR.	Researchers / Undergraduates and postgraduates	Exhibition
BioTech Week 2019	CNR-IBBR	Naples	26/09/2019	This event targeted secondary school students from different institutes in Naples. As a part of this event Christopher Stanly IBBR-CNR divulgated VES4US activities talking about "Small vesicles for big things".	School students	Participation to an Event other than a Conference or a Workshop
Cosmetic Valley 360º	ETH Zurich	Zurich	16-17/10/19	Cosmetic 360° is an international innovation fair for cosmetic and perfume industry which provides a detailed overview of the global trends in the field.	Industries and research facilities	Trade Fair
1rst EVs Clustering Event	All	Palermo	06/11/2019	5 ongoing FET funded European projects on EVs: INDEX, VES4US, EVFOUNDRY, GLADIATOR and MINDGAP met in Palermo together with relevant people in the world of extracellular vesicles to celebrate the 1st EVs Clustering Event.	General Public, Researchers (Scientific community), Industries and research facilities	Organisation of a Conference
EVITA Symposium	All	Palermo	06/11/2019-08/11/2019	EVIta promotes basic, clinical and translational research and the activation of an interactive network among Italian researchers in the field of Extracellular Vesicles.	Researchers (Scientific community)	Organisation of a Conference
World Summit on Advancement in Food Science and Technology	CNR	Valencia	12/11/2019-13/11/2019	The international Conference program was structured in keynote, invited, oral and poster presentations and covers the entire range of Food Science and Technology and applications, focusing on the latest scientific, technological and market-related trends. CNR-IBBR has presented one poster and a keynote lecture on extracellular vesicles from edible resources and chaired the session related to nutraceuticals, functional foods etc.	Researchers (Scientific community)	Participation to a Conference
Science Festival Futuro Remoto 33rd edition	CNR- IBBR	Naples	24/11/2018	Futuro Remoto is a real “Science Festival” starting from the joint initiative of the seven universities of the Campania region, the MIUR – Office, Regional School for Campania and Fondazione Idis-Città della Scienza, strongly supported by local institutions, by all the main National Research Centers. The event represents a well-established and lively living platform of “social innovation”. CNR-IBBR will participate with a stand and Christopher Stanly with other post and undergraduate students EVs-MS lab will divulgate extracellular vesicles from natural sources and VES4US project activities during the science festival.	General Public	Trade Fair

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Short term mobility fellowship	University of Ljubljana (Ales Iglič), CNR-IBBR (Gabriella Pocsfalvi)	Naples	10-25/01/ 2020	CNR short term mobility fellowship (10 days) granted to Prof Ales Iglic to collaborate with Dr. Gabriella Pocsfalvi at host EVs-MS CNR-IBBR lab on the project entitled "Plasma membrane derived vesicles, vesiculation and vesicle secretion in plants and microalgae"	University of Ljubljana. IBB-CNR	Training
Series of seminars on EVs from membrane biophysics to drug delivery	University of Ljubljana (Ales Iglič), CNR-IBBR (Gabriella Pocsfalvi)	Naples, Italy.	05/02/2020 – 08/04/2020	The Laboratory of Extracellular Vesicles and Mass Spectrometry (EVs-MS) will run a seminar series on Extracellular Vesicles (EVs) every Wednesday at 12.00 p.m. at the Institute of Biosciences and Bioresources (IBBR-CNR). The programme promotes the establishment of new and strengthening existing collaborations in the EV field in Campania region.	IBB-CNR	Training+
2nd Meeting of the Italian C. elegans Research Community (M.I.C.e.R.Co.)	CNR-IBBR (Elia Di Schiavi, Pamela Santonicola)	Naples	5-6/3/20	The "2nd Meeting of the Italian C. elegans Research Community" (MICeRCo) will be held at the IBBR, CNR of Naples on 5- 6 March 2020. The organizers are Elia Di Schiavi (IBBR, Naples) and Simone Martinelli (ISS, Rome). Several groups using C.elegans in Italy and Europe will take part in the Meeting from 17 Laboratories and more than 20 oral communications. The official language of the congress will be English.	Researchers (Scientific community)	Organisation of a Conference
Series of seminars on EVs from membrane biophysics to drug delivery	University of Ljubljana (Ales Iglič), CNR-IBBR (Gabriella Pocsfalvi)	Naples, Italy.	05/02/2020 – 08/04/2020	The Laboratory of Extracellular Vesicles and Mass Spectrometry (EVs-MS) will run a seminar series on Extracellular Vesicles (EVs) every Wednesday at 12.00 p.m. at the Institute of Biosciences and Bioresources (IBBR-CNR). The programme promotes the establishment of new and strengthening existing collaborations in the EV field in Campania region.	Researchers (Scientific community)	Organisation of a Workshop

Table 2 Presence at key events

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3.1.6.3 ORGANIZATION OF EVENTS

3.1.6.3.1 1ST EVS CLUSTERING EVENT

VES4US organized the 1rst EVs Clustering Event in which 5 ongoing FET funded European projects on EVs: INDEX, VES4US, EVFOUNDRY, GLADIATOR and MINDGAP met in Palermo together with relevant people in the world of extracellular vesicles. The event took place on November 6th

The event was broadcasted the first part live through the social networks of the VES4US project reaching the 494 viewers.

3.1.6.3.1.1 KPIS OF THE 1ST EVS CLUSTERING EVENT

This table shows the Twitter Activity from Nov 4th to Nov 7th, 2019. To see the impact the days after and before the event counting the event.

Social Media KPIs	KPI
Pieces of news created	3
People registered	53
Engagement rate	2,7%
Link clicks	36
RT's	72
Likes	134
Replies	6
Tweets	17
Impressions	13.3K

Table 3 KPI's Clustering Event

The table below shows the Twitter Activity on Nov 6th during the 1rst EVs Clustering Event:

Social Media KPIs	KPI
People watching the LIVE	494 viewers
People attending	51
Engagement rate	3.3%
Link clicks	31
RT's	45
Likes	84
Replies	5
Tweets	13
Impressions	7.8K

Table 4 Social Media Clustering Event KPI's

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28 day summary with change over previous period

Tweets	Tweet impressions	Profile visits	Mentions	Followers
32 ↑966.7%	20K ↑331.5%	302 ↑459.3%	48 ↑269.2%	177 ↑25

Figure 23 28-day Twitter Summary on Nov 15th

TWEET HIGHLIGHTS

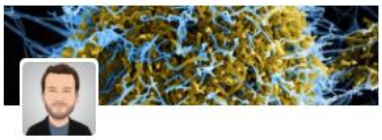
Top Tweet earned 2,740 impressions

EV-ologists think in beehive🐝-3 big events that bring together the best researchers in EVs will take place simultaneously in different places in Europe: GEIVEX Symposum (6-8Nov-Granada ES), 1st EVs Clustering event and 1st EVita Congress (6-8Nov, Palermo IT) #EVsClusteringEvent pic.twitter.com/zzF2FRtpLH

9 12

View Tweet activity View all Tweet activity

Top Follower followed by 1,208 people



David S. Freedman
@DScottFreedman FOLLOWS YOU

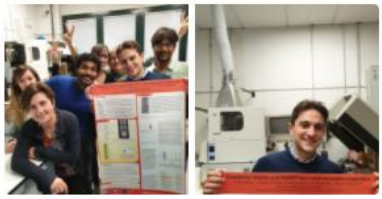
Co-Founder and President of @nanoviewbio. exosomes + diagnostics + startups + boston.

View profile View followers dashboard

Top mention earned 94 engagements

Gabriella Pocsfalvi
@GabriellaPocsf1 · Nov 4

EVs-MS lab at @DiSBAcnr is sending his youngest student, Giuseppe Antonucci @giusepp36100481 to scrape the sky at @EVitaSociety symposium 2019 in #Palermo with his groundbreaking poster on #STRAWBERRY #vesicles. 👉 @ves4us; #EVs, #extracellularvesicles👈 pic.twitter.com/mX3LVeaE8H



1 12 18

View Tweet

Top media Tweet earned 1,768 impressions

We will be going #LIVE in less than an hour. Will you be joining us? From 9:15 to 10:30 in Teatro Real Santa Cecilia of Palermo with @IndexProject @ves4us #evFOUNDRY @FET_Gladiator and @MindgapO. #EVsClusteringEvent #EICPathfinder pic.twitter.com/0MFNLzwJ7K

2 3

View Tweet activity View all Tweet activity

Figure 24 Top Tweet Highlights

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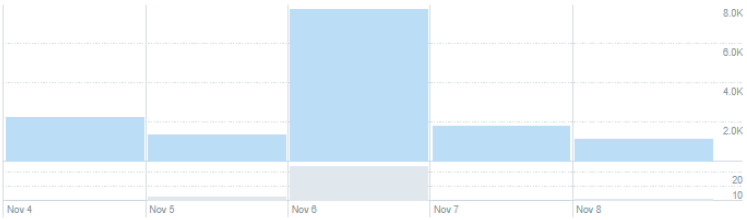
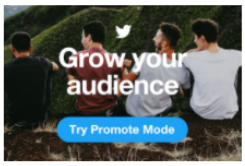
Your Tweets earned **14.4K impressions** over this **5 day** period



YOUR TWEETS
During this 5 day period, you earned **2.9K impressions** per day.

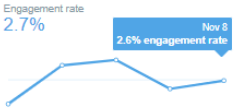


Tweets | Top Tweets | Tweets and replies | Promoted

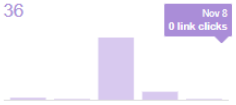
	Impressions	Engagements	Engagement rate
VES4US @ves4us · Nov 4 EV-ologists think in beehive🐝-3 big events that bring together the best researchers in EVs will take place simultaneously in different places in Europe: GEIVEX Symposum (6-8Nov-Granada ES), 1st EVs Clustering event and 1st EVita Congress (6-8Nov, Palermo IT) #EVsClusteringEvent pic.twitter.com/zzF2FRtpLH View Tweet activity	2,746	49	1.8%
VES4US @ves4us · Nov 6 We will be going #LIVE in less than an hour. Will you be joining us? From 9:15 to 10:30 in Teatro Real Santa Cecilia of Palermo with @IndexProject @ves4us #evFOUNDRY @FET_Gladiator and @MindgapO. #EVsClusteringEvent #EICPathfinder pic.twitter.com/0MFNLzwJ7K View Tweet activity	1,768	10	0.6%
VES4US @ves4us · Nov 8 November 7th, Marie S Curie (2 Nobel prizes) and Lise Meitner (48 nominations to Nobel) were born, and sadly Margarita Salas who discovered Φ29 phage DNA polymerase and promoter of PCR technique passed away. DEP #MargaritaSalas a reference in BioScience in #Spain and #Europe pic.twitter.com/unJdKDZeGM View Tweet activity	1,440	31	2.2%

Engagements
Showing 5 days with daily frequency

Engagement rate
2.7%



Link clicks
36



On average, you earned **7 link clicks** per day

Retweets
76

On average, you earned **15 Retweets** per day

Figure 25 Twitter Impressions

	Impressions	Engagements	Engagement rate
VES4US @ves4us · Nov 5 In approximately 20 hours, we will #GOLIVE in the 1rst EVs Clustering Event in Palermo. What do you need to know? 1. If you want to see the event (from 9.15 a 10.30 a.m.) and you enter from phone, you will see at the top of your HOME a video from VES4US. Click on it + pic.twitter.com/Yeh3AXXyDN View Tweet activity	909	14	1.5%
VES4US @ves4us · Nov 4 The preparations for the 1rst EVs Clustering Event, that is going to be happening in Palermo the 6th of November is all set. We are going to be LIVE from 9.15 a 10.30 a.m. and live tweeting the rest of the event. Join us, and spread the word. pic.twitter.com/LZbG8NpZ05 View Tweet activity	802	28	3.5%
VES4US @ves4us · Nov 6 PO @bgerratana will be speaking about a "A close-up look at the EIC and its offerings" from the @EU_Commission in this #EVsClusteringEvent. #EICPathfinder @EUeic @FutureTechEu @REA_research @IndexProject @ves4us #evFOUNDRY @FET_Gladiator @MindgapO @StampaCnr twitter.com/ves4us/status/... View Tweet activity	723	15	2.1%
VES4US @ves4us · Nov 6 The signature of the letter of intent by the five project coordinators. @IndexProject @ves4us #evFOUNDRY @FET_Gladiator @MindgapO @REA_research @FutureTechEU @EUeic #EVsClusteringEvent #EICPathfinder pic.twitter.com/10tmfxSCBB View Tweet activity	647	46	7.1%
VES4US @ves4us · Nov 6 @AntonellaBongi5 @Svainio @ChiariMarcella @StampaCnr @unibs_official @UCYOfficial #ISEP pic.twitter.com/AIk5gDM6AG View Tweet activity	628	26	4.1%
VES4US @ves4us · Nov 6 Go @AntonellaBongi5, go! Antonella, coordinator of @ves4us is now presenting the project on the 1rst #EVsClusteringEvent. #EICPathfinder. @EUeic @FutureTechEu @REA_research @IndexProject @ves4us, #evFOUNDRY @FET_Gladiator @MindgapO @StampaCnr @unibs_official @UCYOfficial #ISEP twitter.com/ves4us/status/... View Tweet activity	628	9	1.4%

Likes
152

On average, you earned **30 likes** per day

Replies
6

On average, you earned **1 replies** per day

Figure 26 Twitter Impressions 2

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3.2 VES4US BRAND

The first communication action developed after starting the project was to create a recognisable brand of VES4US reflecting the main goals of the initiative and offering to the audience/stakeholders a clear identification of the values and messages.

3.2.1 NAME

VES4US is the branding name of the project which means: "Extracellular vesicles from a natural source for tailor-made nanomaterials". The full title should be included in brackets when it is firstly mentioned in a document, then it will be used its abbreviation/acronym.

The project acronym VES4US must be written in uppercase font.

3.2.2 LOGO AND VISUAL GUIDELINES

The brand proposal for VES4US (see Figure 27 Reduced brand optionFigure 27) is inspired by the spherical curves generated by the budding of a vesicle from the biological membrane (membrane vesiculation) by minimising the membrane (isotropic) bending energy by minimising the membrane (isotropic) bending energy. This figure represents the consortium activity on a very accurate way; indeed, the shape matches the modelling of a membrane vesiculation mathematically derived by VES4US partners (Aleš Iglič and Veronika Kralj-Iglič University of Ljubljana). Colours and shapes will make a clear reference to vesicles from the natural source material.

In summary, the logo shows that the process is completed, but that it also advances towards new innovative models. A visual guideline that includes different applications of the logo has been designed to facilitate the use of the VES4US brand.

Figure 27 Reduced brand option

3.2.3 NEWSLETTER AND MAILINGS

As of right now we have sent 5 newsletters to 33 subscribers.

VES4US newsletters gathers the key news of the indicated time period, normally gathers news of a 3-month period. As of right now we have sent 4 newsletters to 33 subscribers and another one is coming:

VES4US Newsletter: September – December 2018
VES4US Newsletter: January – March 2019
VES4US Newsletter: May – July 2019

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VES4US Newsletter: August – November 2019
VES4US Newsletter: December – March 2019 (on going)

3.2.4 DIGITAL TOOLS

VES4US will create a videogame called BubbleMumble in a way to instruct the player about the extracellular vesicles and the main discoveries of the project. This game will be developed as free science app game on the natural-source derived EVs that will be used in this project, with the objective of bringing science to general public. BubbleMumble will be an enjoyable experience to learn the value chain from the cultivation to natural-source derived EVs functionalisation. The players will have to overcome several stages until obtaining a final EV based product with a social application (e.g. therapeutic drug). The game wants to stimulate the scientific interests, showing that the research process is both challenging and amusing.

This game will be shared using the main platforms of dissemination and communication, this being the Social Media channels, and creating a campaign announcing the arrival and the creation of this application. We could even do a premiere trailer showing the main characteristics of the videogame and some framed pictures to distribute between the different social media channels of the project and the ones that the partners of the consortium have.

3.3 MEDIA RELATIONS

This task will be accomplished at European, national and regional levels on the following way:

- ZABALA will prepare the press releases regarding the VES4US milestones and other detected opportunities to communicate in English and Spanish.
- Once the press release is approved by the Communication Team, every partner will translate the press release into the local language and will send it to their contacts through its Communication Department.
- The press release will be included on their own websites and shared in their Social Media channels.
- Impacts will be monitored and included in the press-clipping and in the Report on Dissemination and Communication Activities

The European platform of news CORDIS WIRE will be used as well to distribute news releases and posts generated for the website.

3.4 SCIENTIFIC PUBLICATIONS

VES4Us project has already posted and done 9 scientific publications, 1 chapter of a book, 3 Scientific Posters.

The publications will be made freely and openly available via online repository with gold open access. Prior to publishing any scientific publication, the VES4US Partner involved will contact the whole consortium for revision and validation of the publication 30 days in advance. The publications funded

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by the project will be uploaded to specific bibliographic social networks such as ResearchGate no later than 6 months after its original date of publication

VES4US project partners will have to provide Open Access to all peer-reviewed scientific publications relating to its results according to Article 29.2. of the Grant Agreement and H2020 Guidelines on Open Access to Scientific Publications (European Commission, 2017).

Each VES4US project partner will ensure Open Access (via the repository) to the bibliographic metadata that identify the deposited publication. The bibliographic metadata will be in a standard format and will include all items as it is indicated in the Article 29.2. of the Grant Agreement.

The VES4US website includes all the scientific publications in the Media Corner section of the same webpage.

Type of publication	Partners involved	Title or description	Submitted
Article in a journal	Antonella Bongiovanni	Minimal information for studies of extracellular vesicles 2018	23 Nov 2018
Article in a journal	Elia Di Schiavi	Green kiwifruit extracts protect motor neurons from death in a spinal muscular atrophy model in Caenorhabditis elegans 2019	4 May 2019
Article in a journal	Carolina Paganini, Umberto Capasso Palmiero, Gabriella Pocsfalvi, Nicolas Touzet, Antonella Bongiovanni, and Paolo Arosio	Scalable Production and Isolation of Extracellular Vesicles: Available Sources and Lessons from Current Industrial Bioprocesse	29 May 2019
Article in a journal	Darja Božič, Simona Sitar, Ita Junkar, Roman Štukelj, Manca Pajnič, Ema Žagar, Veronika Kralj-Iglič and Ksenija Kogej	Viscosity of Plasma as a Key Factor in Assessment of Extracellular Vesicles by Light Scattering	6 September 2019
Article in a journal	Mitja Drab; Veronika Kralj-Iglič; Aleš Iglič	Inception Mechanisms of Tunneling Nanotubes	21 June 201
Chapter in a book	Mitja Drab; Veronika Kralj-Iglič; Aleš Iglič	The role of membrane vesiculation and encapsulation in cancer diagnosis and therapy	21 March 2019.
Scientific poster	Nicolas Touzet, Daniele Romancino, Giorgia Adamo, Mauro Manno, Antonella Cusimano, Sabrina Picciotto, Samuele Raccosta, Vincenzo Martorana, Rosina Noto, Rita Carrotta, Elia Di Schiavi, Giovanna L. Liguori, Annamaria Kisslinger, Katharina Landfester, Blanca Rodriguez, Svenja Morsbach, Darja Božič, Ales Iglic, Veronika Iglic, Laura Corcuera, Paolo Arosio, Gabriella Pocsfalvi and Antonella Bongiovanni	ISEV 2019 VES4US Scientific Poster	24 April 2019
Scientific poster	Antonella Bongiovanni, Gabriella Pocsfalvi and Antonella Cusimano	ISEV 2019 VES4US Scientific Poster	24 April 2019
Article in a Journal	Meiyu Gai, Johanna Simon, Ingo Lieberwirth, Volker Mailänder, Svenja Morsbach and Katharina Landfester	A bio-orthogonal functionalization strategy for site-specific coupling of	14 Oct 2019

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		antibodies on vesicle surfaces after self-assembly	
Article in a Journal	Francesca Mantile, Angelo Capasso, Nadia Villacampa, Maria Donnini, Giovanna Liguori, Gabriela Constantin, Piergiuseppe De Berardinis, Michael T. Heneka, Antonella Prisco	Vaccination with E2 in alum efficiently induces an antibody response to β-amyloid without affecting brain β-amyloid load and microglia activation in 3xTg mice	22 Nov 2019
Article in a Journal	Christopher Stanly,Maneea Moubarak, Immacolata Fiume, Lilla Turiák and Gabriella Pocsfalvi	Membrane Transporters in Citrus Clementina Fruit Juice-Derived Nanovesicles	9 Dic 2019
Article in a Journal	Luka Mesarec, W. Góźdź, Aleš Iglič, Veronika Kralj-Iglič, Epifanio G Virga, Samo Kralj	Normal red blood cells' shape stabilized by membrane's in-plane ordering	24 Dic 2019
Scientific poster			

Table 5 Papers

3.5 COLLABORATION WITH OTHER FET PROJECTS

VES4US consortium will participate in diverse groups at the EU in order to promote their experiences within the collaboration between other H2020 and FET projects like:

- EVFOUNDRY
- INDEX
- GLADIATOR
- MINDGAP

4. SPECIFIC CAMPAIGNS

4.1 TRAINING AND EDUCATION PROGRAMME / SOCIAL ASSESSMENT AND OWNER ENGAGEMENT

VES4US project includes a specific training and education programme focused on the acquisition of skills by training and exchanges via staff and student travel amongst the consortium members. This training plan is fully detailed in Deliverable 6.2

5. KPI'S AND MONITORING

The partners must provide all the relevant information and feedback as well in order to complete the D7.4 and D7.6 Communication Reports on a regular basis since the start of the project.

The Communication Master Plan will be updated on a yearly basis to complete the D.7.6 Communication Report.

These will be some of the main indicators we are going to monitor in order to measure the Return of the Investment (ROI) in communications. Monitoring and analytics will be incorporated on the web and Social Media in VES4US's digital marketing and communication processes, as a source of essential information for monitoring key indicators.

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SCIENTIFIC KPIS	KPI	1-12
Publications	7	8 9 (papers) +1 book chapter + 3 (posters)
Congresses participation and workshops	9	10
Industry oriented workshops	5	3
News in media	3	19
Project meetings	6	4
Nº Exchanging visits	20	5

Table 6 Scientific KPI's

COMMUNICATION	KPI	1-12
Free Access game	1	0
Demostrations for secondary school students	3	2
Lectures and lab activities to undergraduate	3	11
Social Media (tweets posted)	7	+200

Table 7 Communication KPI's

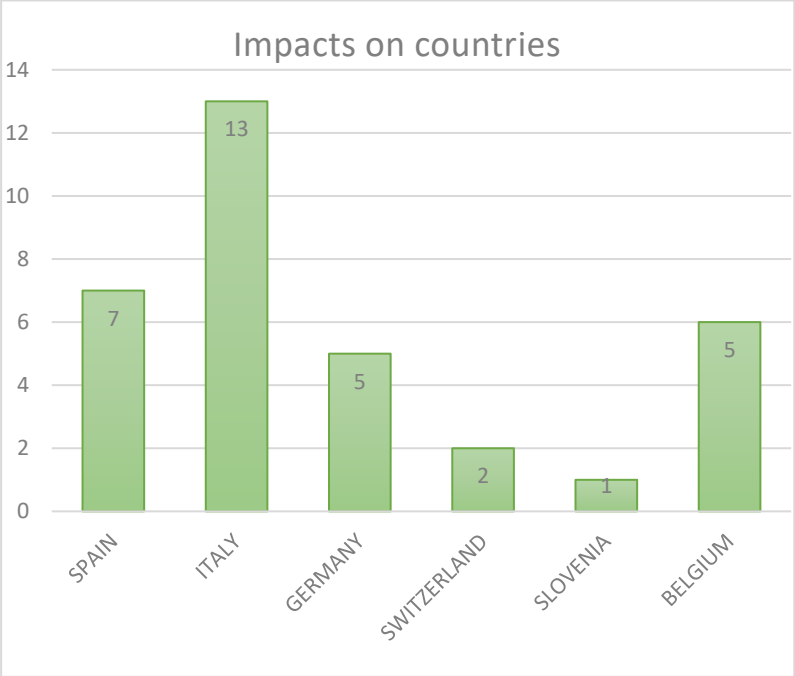
INDUSTRY ORIENTED	KPI	1-12
Congresses participation	9	5
Industry oriented workshops	5	3
Meetings with AB	3	1
Patent applications	1	1

Table 8 Industry KPI's

ONLINE PRESENCE

See ¡Error! No se encuentra el origen de la referencia. Press clipping to see the pieces of news posted o n each country.

VES4US has had 33 impacts on media and other websites, but one ETHZ link is no longer working (see link 23 from the Press clipping table).



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6. HORIZON2020 REQUEST AND COORDINATION WITH THE EC

According to the EC Grant Agreement participants agree to:

- Promote the action and its results, by providing targeted information to multiple audiences (including the media and the public), in a strategic and effective manner and possibly engaging in a two-way Exchange (Article 38 of the Model Grant Agreement).
- Disseminate results — as soon as possible — through appropriate means, including in scientific publications (Article 29 of the Model Grant Agreement).
- Ensure Open Access (free of charge, online access for any user) to all peer-reviewed scientific publications relating to its results. (Article 29 of the Model Grant Agreement)
- Take measures aiming to ensure 'exploitation' of the results — up to four years after the end of the project – by using them in further Research activities; developing, creating or marketing a product or process; creating and providing a service, or using them in standardisation activities (Article 28 of the Model Grant Agreement)
- Acknowledge EU funding in all communication, dissemination and exploitation activities (including IPR protection and standards) as well as on all equipment, infrastructure and major results financed by the action by using the wording and criteria specified in the Grant Agreement (Articles 27, 28, 29, 38).
- Additionally, VES4US project will establish close links to the communication team of the European Commission in order to make the results of the project visible in the EC Media Outlet, and interaction on the Social Media channels.

6.1.1 SUPPORT OF THE EUROPEAN UNION

The support to the VES4US project by the European Commission must be recognised article in all the dissemination and communication tools and materials including this disclaimer: *This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement 801338.*

For more information, please refer to article 29 of the Grant Agreement, which includes these and other considerations regarding the dissemination of the project and the Open Access.

All the beneficiaries of the project are committed to follow the guidelines about the use of the EU emblem using it in their communication to acknowledge the support received under EU programmes.

Scientific and research publications must include this paragraph:
"The dissemination of results herein reflects only the author's view and the European Commission is not responsible for any use that may be made of the information it contains".

VES4US project partners will have to provide open access to all peer-reviewed scientific publications relating to its results according to Article 29.2. of the Grant Agreement and H2020 Guidelines on Open Access to Scientific Publications (European Commission, 2017).

7. TIMELINE

	2018				2019												2020												2021								
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Sep
Communication material																																					
Logo and visual guidelines																																					
Poster and roll-up																																					
Templates																																					
General Brochure																																					
Social Media																																					
Twitter and LinkedIn go live																																					
Events Management																																					
Community Management																																					
Social Media Campaigns																																					
Website																																					
Go live																																					
Marketing tools implementation																																					
News/content update																																					
Events and networking																																					
Event tools and implementation																																					
Networking other initiatives																																					
Co-creation workshops																																					
Work with Media																																					
Data Base of Media																																					
Press Release and milestones																																					
Newsletter																																					
Design template																																					
Delivery																																					
Communication Master Plan																																					
Communication Report																																					

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8. FUTURE PLANS

We are focused on gaining followers and impact on social media channels by creating interesting content that will help spreading the word about VES4US. Also, focused on organizing and attending more events in the next months.

We are also planning on releasing 7 more newsletters which means that we are going to create and publish more content on our website and social media to fill them.

We are also aware of the events that we would like to attend in the future, so we can already make the pieces of news and the contents to spread the word about it. We would like, also, to improve the amount of time people stays in VES4US website to improve the rebound percentage of time.

We have also sent a reminder to all the consortium partners to remind them about the application of Article 29 of the Grant Agreement, to include in all scientific papers that the support to the VES4US project by the European Commission must be recognised in all the dissemination and communication tools and materials including this disclaimer: *This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement 801338*.

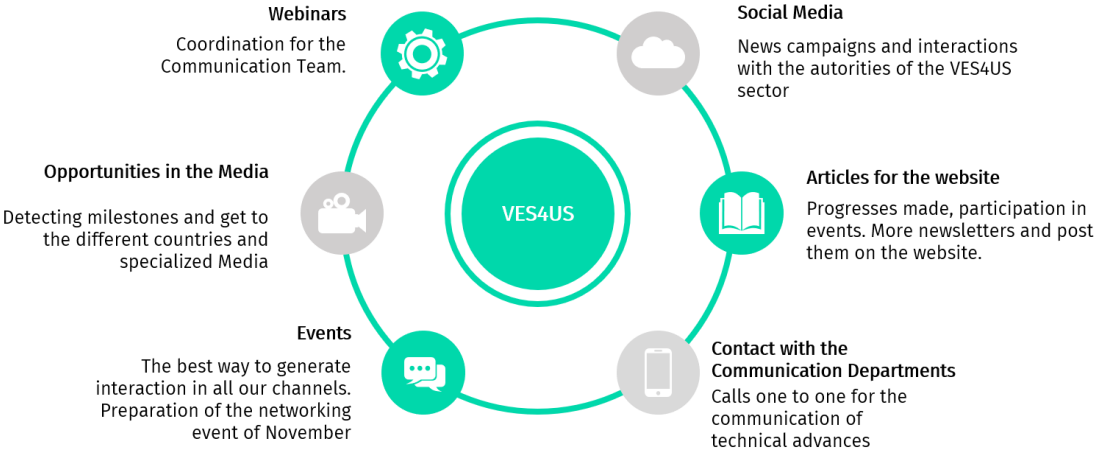

Figure 28 Action plan in Communication and Dissemination until M36

9. ANNEX

9.1 VISUAL GUIDELINES

Figure 29 Visual Guidelines - front page

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VES4US is a project funded by the FET-Open Call of the Horizon2020 Programme of the European Commission which goal is to develop a radically new platform for the efficient production and functionalisation of EVs. This will enable for their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics.

The contents of this manual offer the necessary tools and guidelines to ensure coherence and consistency in the presentation of the VES4US brand, as well as illustrative examples of how we can establish and maintain its visual identity.

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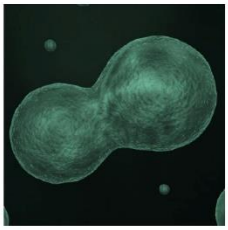
Figure 30 Visual Guidelines

Brand

The Concept

The brand proposal for VES4US is inspired by the spherical curves generated on a vesicle during a cellular meiosis.

This figure is highly recognizable by the science community and represents the cluster activity on a very accurate way.



+ Science
Biology
Research
Cellular

— VES4US

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Figure 31 Visual Guidelines - Logo

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Figure 32 Visual Guidelines - Logo

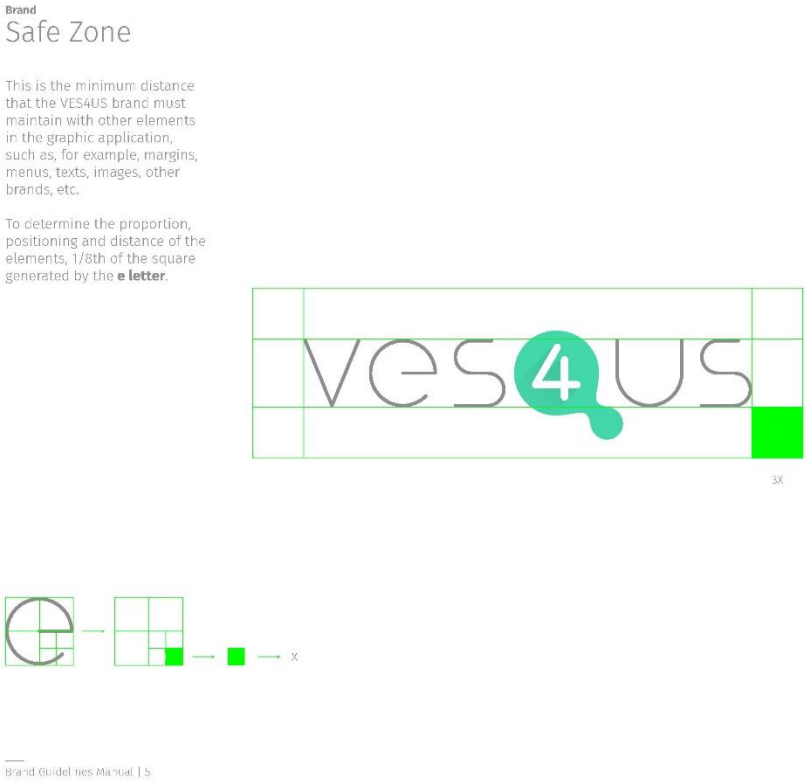

Figure 33 Visual Guidelines – Logo

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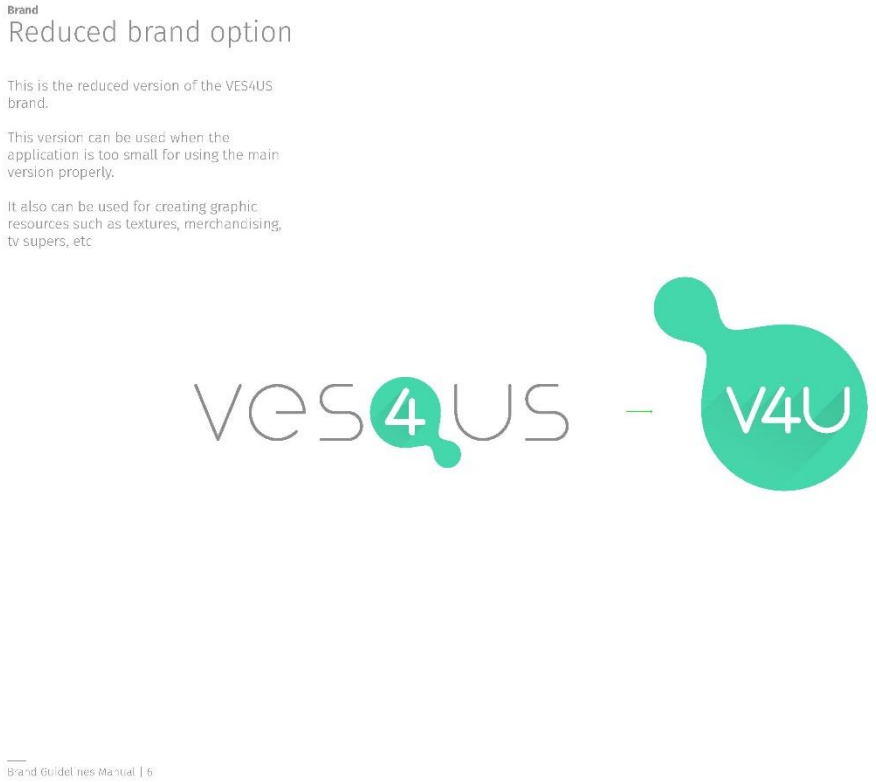

Figure 34 Visual Guidelines - Logo

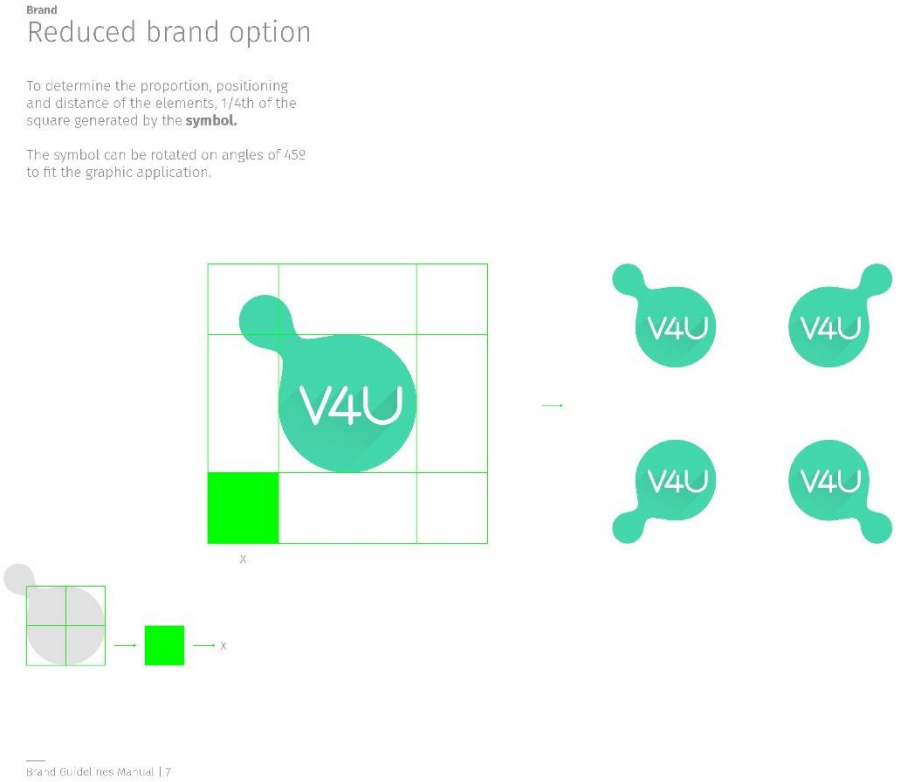

Figure 35 Visual Guidelines - Logo

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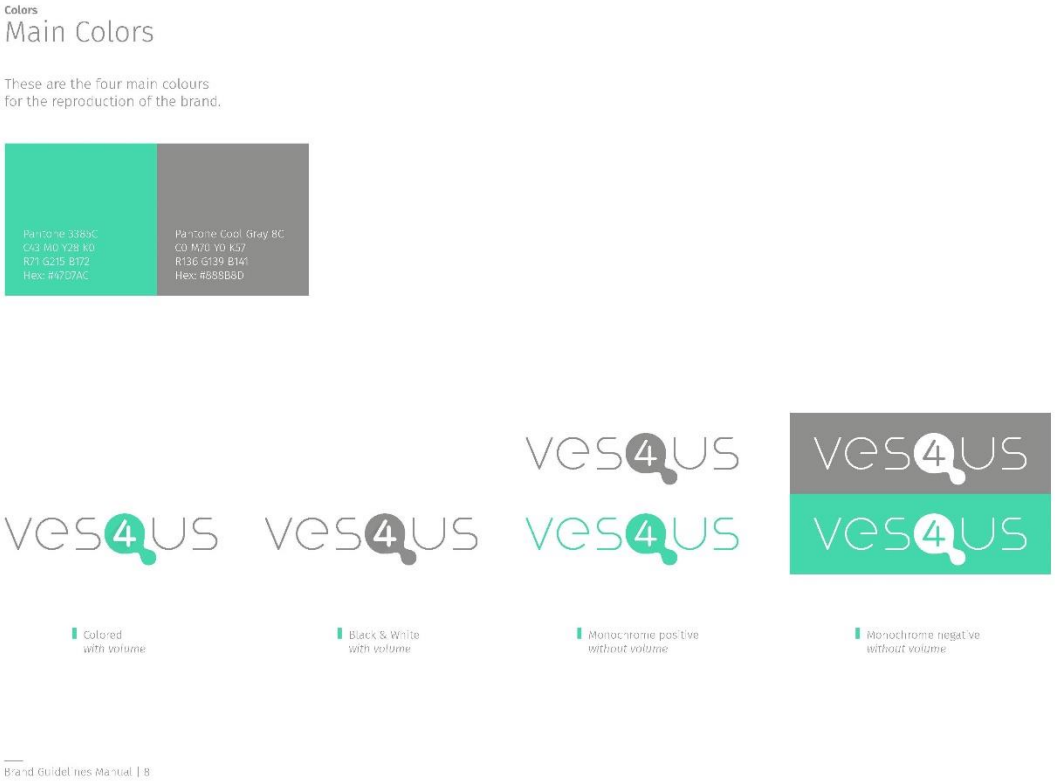

Figure 36 Visual Guidelines - Main colours

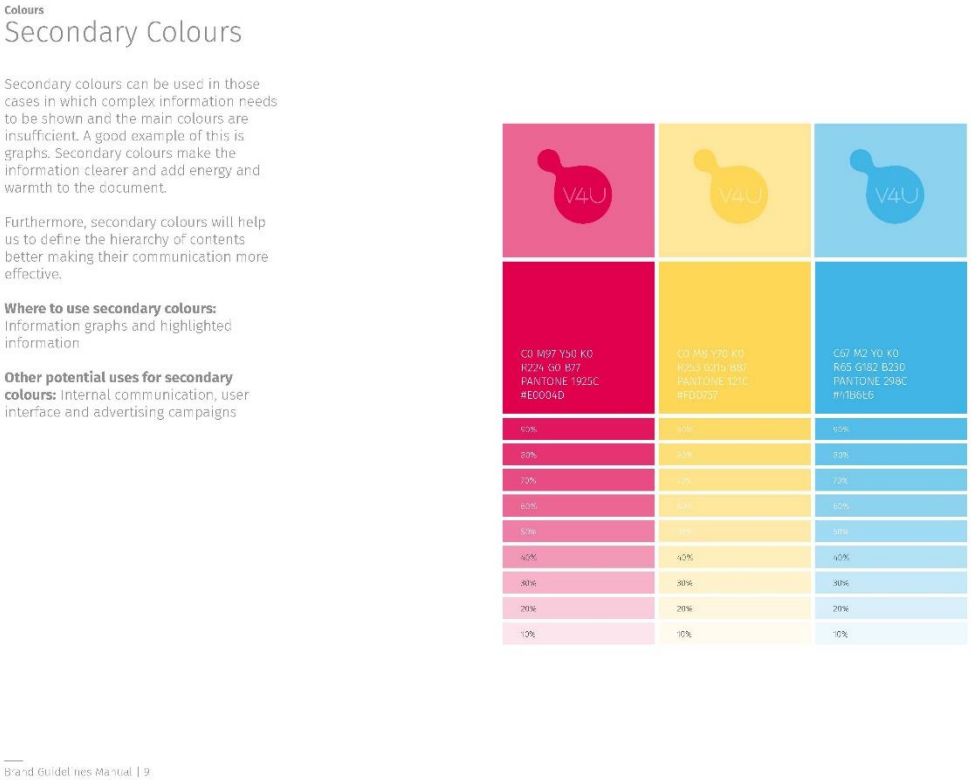

Figure 37 Visual Guidelines - Colours

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Figure 38 Visual Guidelines - Application

Figure 39 Visual Guidelines - Application

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Corporate Graphic Elements

Corporate Typography

The **Fira Sans font family** is standardised as corporate typography for VES4US communication.

Any font weight can be considered for using as long the weights selected keeps an optimal contrast inbetween:

Light for common text
Bold for highlighted text and titles

The full family of the Fira Sans can be downloaded and used with any commercial purpose from Google Web Fonts.

> fonts.google.com/specimen/Fira+Sans

		Backup font
Fira Sans Light	—	Arial Regular
Fira Sans Light Italic	—	*Arial Regular Italic*
Fira Sans Bold	—	***Arial Bold***
Fira Sans Bold Italic	—	***Arial Bold Italic***

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Figure 40 Visual Guidelines - Font

Corporate Graphic Elements

Images

The use of photographs in the visual contents created for the brand is standardised.

The leitmotiv of the images used should be focused on the concept explained in the page 3 of this manual, reflecting science research and biomolecular patterns.

The images may be edited in the brand's colours described on the page 8 and 9 of this manual.

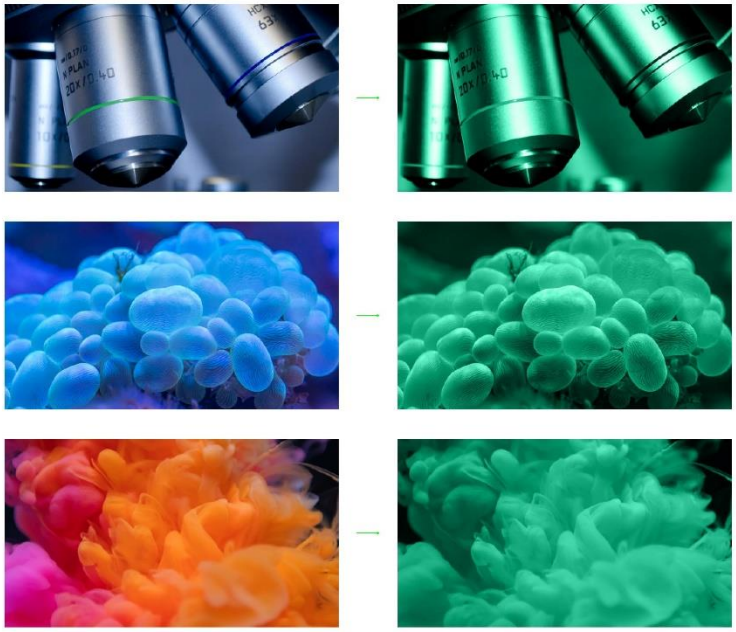

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Figure 41 Visual Guidelines - Images

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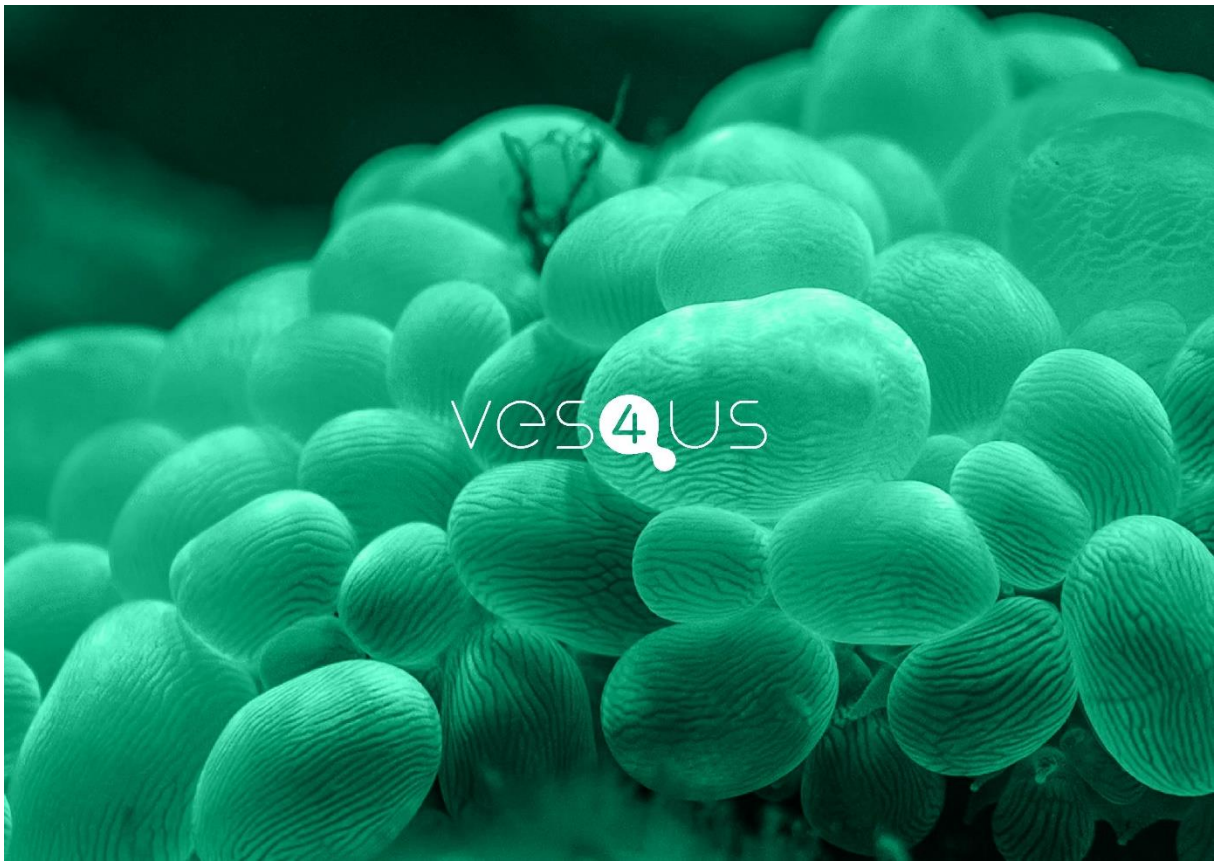

Figure 42 Visual Guidelines - last page

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9.2 PRESS CLIPPING

	Organisation	News Title	News info/text	Posted to website	Publishing date
1	ZABALA Innovation Consulting	Nueva investigación en el desarrollo de nanomateriales	Article on ZABALA	https://www.zabala.es/es/noticias/desarrollo-de-nanomateriales	02/10/2018
2	CNR	VES4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Press release on CNR	https://www.cnr.it/it/news/8334/ves4us-extracellular-vesicles-from-a-natural-source-for-tailor-made-nanomaterials	05/10/2018
3	CNR	L'Europa con il progetto VES4US punta sulle nanovescicole	Press release	https://www.cnr.it/it/news/8333/l-europa-con-il-progetto-ves4us-punta-sulle-nanovescicole	05/10/2018
4	Fabio Disconzi	Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Article on Fabiodisconzi	https://www.fabiodisconzi.com/open-h2020/projects/216332/index.html	06/10/2018
5	Corriere Nazionale	L'Europa con il progetto VES4US punta sulle nanovescicole	Article on Corriere Nazionale	https://www.corrierenazionale.it/2018/10/08/europa-con-progetto-ves4us-punta-sulle-nanovescicole/	08/10/2018
6	Cinquecolonne	Il progetto VES4US	Article on the magazine	http://www.cinquecolonne.it/il-progetto-ves4us.html	16/10/2018
7	IBBR -CNR	The lunch of VES4US H2020 FETOPEN project: Extracellular vesicles from a natural source for tailor-made nanomaterials	Article on IBBR	http://ibbr.cnr.it/ibbr/news/announcements/the-lunch-of-ves4us-h2020-fetopen-project	19/10/2018
8	IBBR -CNR	VES4US-CHEM-IBBR	Job ad	https://www.academicgates.com/job/detail/b05adab6be69-11e8-d561-e716170a-ab19	21/10/2018
9	CNR	Vesicles as a new frontier for nanotechnology	Article on CNR	https://www.researchitaly.it/en/news/vesicles-as-a-new-frontier-for-nanotechnology/#null	31/10/2018
10	ZABALA Innovation Consulting	Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Press release on ZABALA	https://cordis.europa.eu/news/rcn/130262_en.html	06/11/2018
11	BANDI	Bandi per assegni di ricerca	BANDI	http://bandi.miur.it/bandi.php/public/fellowship/id_fellow/150697	06/11/2018
12	CORDIS	Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	CORDIS	https://cordis.europa.eu/news/rcn/130262/en	06/11/2018
13	La Cosmetica Natural	Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Enlace a Cordis	https://www.lacosmeticanatural.com/ves4us-extracellular-vesicles-from-a-natural-source-for-tailor-made-cordis-news/	07/11/2018
14	Academia to Industry Competence Incubator	VES4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Press release	https://fruct.org/node/374647	09/11/2018

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15	CHEMICAL	Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials	Press release on CHEMICAL	https://chemycal.com/news/e363a893-a0d5-4045-9946-c6ff885902e2/Ves4US_Extracellular_vesicles_from_a_natural_source_for_tailor-made_nanomaterials	16/11/2018
16	Max-Planck	New treatment approaches using miniature cells	Article on Max-Planck	http://www.mpip-mainz.mpg.de/5494413/PM2018-27	16/11/2018
17	ETHZ	Bioprocessing of therapeutic proteins and exosomes	ETHZ	http://www.arosiogroup.ethz.ch/research/bioprocessing-of-therapeutic-proteins-and-exosomes.html	17/11/2018
18	IBF	Ves4US – Vescicole extracellulari da una fonte naturale per nanomateriali su misura	Article in IBF	https://www.ibf.cnr.it/index.php/2019/01/28/ves4us-vescicole-extracellulari-da-una-fonte-naturale-per-nanomateriali-su-misura/	28/01/2019
19	Ales Iglic, Ana Garcia-Saez, Michael Rappolt	Advances in Biomembranes and Lipid Self-Assembly	Book by Ales Iglic, Ana Garcia-Saez, Michael Rappolt	https://books.google.es/books?id=COeODwAAQBAJ&pg=PA190&lpg=PA190&dq=VES4US&source=bl&ots=i5ldG8kR40&sig=ACfU3U1_njwRpbHaty93QcXPW3BZ3hoRrw&hl=es&sa=X&ved=2ahUKEwiEh6Kc5o7lAhVExYUKHdyQCfE4FBDoATAHegQICRAB#v=onepage&q=VES4US&f=false	26/03/2019
20	FETFX	NEXT-GENERATION DRUG TARGETING USING NATURAL EXTRACELLULAR VESICLE	Article on FETFX	http://www.fetfx.eu/story/next-generation-drug-targeting-using-natural-extracellular-vesicles/	27/05/2019
21	CORDIS	Co-funding scheme for PhD programs within the VES4US project	CORDIS	https://cordis.europa.eu/article/id/125308-cofunding-scheme-for-phd-programs-within-the-ves4us-project/en	11/06/2019
22	Meritics	Spectradyne Wedbinar at Future Tech Week	Meritics Article	https://www.meritics.com/spectradyne-wedbinar-at-future-tech-week/	20/09/2019
23	ETHZ	Bioprocessing of therapeutic proteins and exosomes	ETHZ (this link no longer works)	https://arosiogroup.ethz.ch/research/bioprocessing-of-therapeutic-proteins-and-exosomes.html	April
24	EVITA	1st EVIta Symposium 2019	EVITA Article	https://www.evitasociety.org/1st-evita-symposium-2019-program	May
25	IBBR -CNR	Job advertisement: VES4US-CHEM-IBBR	Job ad	http://ibbr.cnr.it/ibbr/news/jobs/job-advertisement-ves4us-chem-ibbr	xx
26	ZABALA Innovation Consulting	Ves4us	Information	https://www.zabala.es/es/proyectos/ves4us	xx
27	ZABALA Innovation Consulting	Ves4us	Information	https://www.zabala.eu/en/projects/ves4us	xx
28	FETFX	VES4US	FETFX	http://www.fetfx.eu/project/ves4us/	xx
29	MPIP	VES4US	MPIP	https://www.mpip-mainz.mpg.de/5635096/Ves4Us	xx
30	MPG	New treatment approaches using miniature cells	MPG	http://www.mpip-mainz.mpg.de/5494413/PM2018-27	16/10/2018

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31	CORDIS	1st EVs Clustering Event in Palermo	CORDIS	https://cordis.europa.eu/article/id/411576-1st-evs-clustering-event-in-palermo?WT.mc_id=RSS-Feed&WT.rss_f=article&WT.rss_a=411576&WT.rss_ev=a	20/11/2019
32	FETFX	1ST CLUSTERING EVENT FOR EXTRACELLULAR VESICLES	Article on FETFX	http://www.fetfx.eu/event/1st-clustering-event-extracellular-vesicles/	06/11/2019
33	LinkedIn	1st EVs Clustering Event in Palermo	Laura's LinkedIn	https://www.linkedin.com/pulse/1st-evs-clustering-event-palermo-laura-corcuera/	12/11/2019

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9.2.1 ZABALA

02/10/2018

Nueva investigación en el desarrollo de nanomateriales

ZABALA participa como socio en un nuevo proyecto que pretende realizar nuevos nanomateriales para el suministro de fármacos

Los sistemas seguros, eficientes y específicos de **nano-entrega** son esenciales para la medicina terapéutica, cosmética y nutracéutica debido a su capacidad de optimizar la biodisponibilidad, la estabilidad y la captación celular dirigida de una molécula bioactiva a la vez que se mitigan la toxicidad, la inmunogenicidad y los efectos secundarios.

ZABALA Innovation Consulting participará como socio encargado de la comunicación, diseminación y explotación de resultados en el proyecto **VES4US**, un nuevo proyecto europeo financiado por la convocatoria **FET-OPEN del Programa Horizon2020**. VES4US tiene como objetivo **desarrollar una plataforma radicalmente nueva de producción y funcionalización de vesículas extracelulares** (EV) de origen natural y sostenible, permitiendo su explotación como productos a medida en los campos de nanomedicina, la cosmética y la nutracéutica. Esto permitirá el **desarrollo de nano-transportadores naturales** con capacidades sin precedentes para el **suministro de fármacos** en **tejidos específicos como el cerebro, el pulmón, la piel, y las células dendríticas o tumorales.**

ZABALA, tiene la responsabilidad de realizar las actividades necesarias para que la finalidad y los resultados de este proyecto lleguen al público general, científico e industrial con la mayor claridad y profesionalidad posible. Así mismo ZABALA llevará a cabo actuaciones enfocadas a la explotación de los resultados.

Esta investigación financiada por la Comisión Europea y apoyada por ZABALA junto el resto de los socios del consorcio, generará resultados sin precedentes en biociencias, biotecnología y nanociencia ya que actualmente no existe ningún fármaco de origen natural que tenga la capacidad de llegar a tejidos de forma tan específica o de actuar directamente en una célula infectada sin ser rechazado por esta.

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

VES4US tiene como objetivo crear un enfoque de bioprocesamiento fundamentalmente nuevo para generar y funcionalizar las EV de origen natural utilizando las tecnologías más avanzadas. Actualmente, las evidencias científicas muestran que ciertas EVs administradas sistémicamente se acumulan en el hígado, el riñón y el bazo. Algunos EVs secretadas derivadas de mamíferos han demostrado hasta la fecha una tolerancia limitada debido a su origen; VES4US pretende superar estas limitaciones desarrollando un sistema de administración de fármacos basado en vesículas microcelulares, biocompatibles y rentables, que mejorarían la biodisponibilidad, la eficacia y la seguridad de los compuestos bioactivos cargados.

Para lograr sus objetivos, se empezará con el análisis **de cepas de origen natural productoras de EVs**, posteriormente se explorarán las vías de funcionalización de los EVs y se **desarrollará un sistema de producción y aislamiento de EVs**. Los EVs tendrán la función de actuar como los nano-vehículos naturales con capacidad de suministrar de fármacos en tejidos específicos.

Este proyecto se lanzó en Palermo el 20 y 21 de septiembre de 2018. Tiene un presupuesto total de 2.946.303,75 € aportado por la UE y se ejecutará durante los próximos tres años con 6 organizaciones de 6 países europeos. El grupo está dirigido por The National Research Council of Italy , establecido en Italia. Los otros socios son: Institute of Technology Sligo (Irlanda), The Swiss Federal Institute of Technology (Suiza), University of Ljubljana (Ljubljana), Max Planck Institute for Polymer Research (Alemania) and ZABALA Innovation Consulting (España).

https://www.zabala.es/es/noticias/desarrollo-de-nanomateriales 2018/10/02

9.2.2 CNR

NEWS

VES4US: Extracellular vesicles from a natural source for tailor-made nanomaterials

05/10/2018

VES4US is a new European project funded by the Fet-Open call of Horizon2020 Programme, which aims to develop a radically new platform for the efficient production and functionalisation of extracellular vesicles (EVs) from a sustainable biosource, enabling their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics. This could allow the development of natural nanocarriers with unprecedented abilities for drug delivery in specific tissues such as brain, lung, skin, dendritic or tumour cells.

Projects's participants

This project was launched in Palermo the 20th and 21st of September 2018 and counted with the assistance of all the members of the consortium and main important personalities in town as well as renown researchers and industrial representatives.

The group is led by Cnr, established in Italy, and includes the following institutes: Ibim, Ibf, Ibbr, Igb, and Ieos. The VES4US consortium is professional and consists of 5 research centers and universities and 1 consultancy firm. The other partners are: Institute of Technology Sligo (Ireland), ETH Zürich (Switzerland), Univerza V Ljubljani (Ljubljana), Max Planck Institute for Polymer Research (Germany) and Zabala Innovation Consulting (Spain).

"In VES4US the scientific approach is focused on market and social needs. Basic science and industrial worlds will work together to reach fruitful results in breakthrough emerging technologies and knowledge for biotechnology, nanotechnology and bioscience sectors" – said Antonella Bongiovanni, principal investigator and VES4US coordinator at the Institute of Biomedicine and Molecular Immunology (Ibim), National Research Council (Cnr), Palermo-Italy.

VES4US has a total budget of 2,946,303.75€ with the EU contribution. The project will run for the next three years with 6 organizations from 6 european countries.

Safe, efficient and specific nano-delivery systems are essential to current therapeutic medicine, cosmetic and nutraceutics sectors. The ability to optimise the bioavailability, stability, and targeted cellular uptake of a bioactive molecule while mitigating toxicity, immunogenicity and off-target/side effects is of the utmost priority. Ves4US aims at creating a fundamentally new bioprocessing approach to generate and functionalise EVs from a renewable biological source using the state-of-the-art technologies.

The discovery of EVs as natural carriers of functional small molecules and proteins has raised great interest in the drug delivery field as it may be possible to harness these vesicles for the therapeutic delivery of miRNA, siRNA, mRNA, lncRNA, peptides and synthetic drugs. However, systemically delivered EVs accumulate in liver, kidney and spleen and some mammalian-derived secreted EVs have shown to date limited pharmaceutical acceptability because of their source. VES4US aims to overcome these limitations by developing a biocompatible and cost-effective micro extracellular vesicle-based drug delivery system, which would enhance bioavailability and improve the efficacy and safety of loaded bioactive compounds.

To achieve its aims, VES4US, will start by doing a selection of EVs-producing natural source strains that at last, will get to the production of the EVs needed to develop the natural nanocarriers with the abilities for drug delivery in specific tissues. Before that happens, it exists the need of doing a good research practice in a way to discover and define which will be the material needed to develop this research. If this is done correctly, not only they will have a definition but the physiochemical characterisation of EVs from a natural source and the functionalisation and cargo enrichment of itself.

Per informazioni:
Antonella Bongiovanni
Cnr - Ibim
bongiovanni@ibim.cnr.it

https://www.cnr.it/it/news/8334/ves4us-extracellular-vesicles-from-a-natural-source-for-tailor-made-nanomaterials

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.3 CNR

NEWS

L'Europa con il progetto VES4US punta sulle nanovescicole

05/10/2018

Le vescicole extracellulari, anche chiamate nanovescicole o esosomi, sono frammenti cellulari, liberati da cellule animali o vegetali. La funzione principale di queste particelle è legata al trasporto di 'informazioni' molecolari da una cellula all'altra. Grazie a questa capacità intrinseca di veicolare e rilasciare molecole in tutti i tessuti dell'organismo, le nanovescicole possono essere utilizzate per trasportare farmaci o molecole bioattive nei tessuti target.
Le nanovescicole naturali, quindi, rappresentano una nuova frontiera delle nanotecnologie.
Il progetto di ricerca internazionale VES4US ha come obiettivo lo sviluppo di una piattaforma radicalmente nuova per la produzione di nanovescicole extracellulari da una fonte biologica sostenibile. Per raggiungere i suoi obiettivi, il progetto VES4US inizierà con la selezione della migliore fonte naturale per la produzione delle vescicole extracellulari. Dalla scelta sono escluse fonti naturali potenzialmente pericolose per la salute umana, come il latte bovino o i parassiti. La seconda fase, riguarda la caratterizzazione fisico-chimica delle nanovescicole naturali, la funzionalizzazione della loro membrana per raggiungere tessuti target e il loro arricchimento con molecole cargo utili per l'organismo.

Partecipanti al progetto

VES4US è un nuovo progetto Fet (Future and Emerging Technologies)-Open, finanziato dalla Commissione europea nell'ambito del programma Horizon 2020. In quest'ultimo bando di ricerca e innovazione Fet-Open, sono stati selezionati 27 progetti tra le 395 domande presentate. Ai 27 progetti sarà offerto un contributo significativo per condurre la loro ricerca pioneristica, sale così a 123 il numero dei progetti Fet-Open in corso, finanziati da parte dell'Ue con circa 400 milioni di Euro. Ecco alcune dei progetti Fet-Open approvati: un microscopio a super-risoluzione in un chip microfluidico più piccolo di una moneta, una nuova tecnologia di posizionamento senza Gps, l'imaging non invasivo di processi biochimici nel corpo umano, la costruzione di un muscolo 3D su un chip e il nostro VES4US.

Il contributo della Commissione europea per il progetto VES4US, di durata triennale, è di circa 3 milioni.

L'Istituto di biomedicina e immunologia molecolare (Ibim) 'Alberto Monroy' di Palermo, del Consiglio nazionale delle ricerche (Cnr), coordina il consorzio europeo interdisciplinare, che comprende rinomate istituzioni scientifiche di sei diversi paesi europei. Gli altri partner sono: Institute of Technology Sligo (Ireland), Eth Zürich (Switzerland), Univerza V Ljubljani (Ljubljana), Max Planck Institute for Polymer Research, (Germany) and Zabala Innovation Consulting (Spain). Altri istituti Cnr coinvolti sono: Istituto di biofisica (Ibf) - Sede secondaria di Palermo, Istituto di bioscienze e biorisorse (Ibbr) – Sede secondaria di Napoli, Istituto di genetica e biofisica (Igb) di Napoli ed Istituto per l'endocrinologia e l'oncologia (Ieos) di Napoli.

"In VES4US l'approccio scientifico è focalizzato sui bisogni di mercato e sociali. La scienza di base e il mondo industriale lavoreranno insieme per raggiungere risultati fruttuosi in tecnologie e conoscenze innovative per i settori della biotecnologia, delle nanotecnologie e della biomedicina" – commenta Antonella Bongiovanni, ricercatrice dell'Istituto di biomedicina e immunologia molecolare e coordinatrice del progetto VES4US.

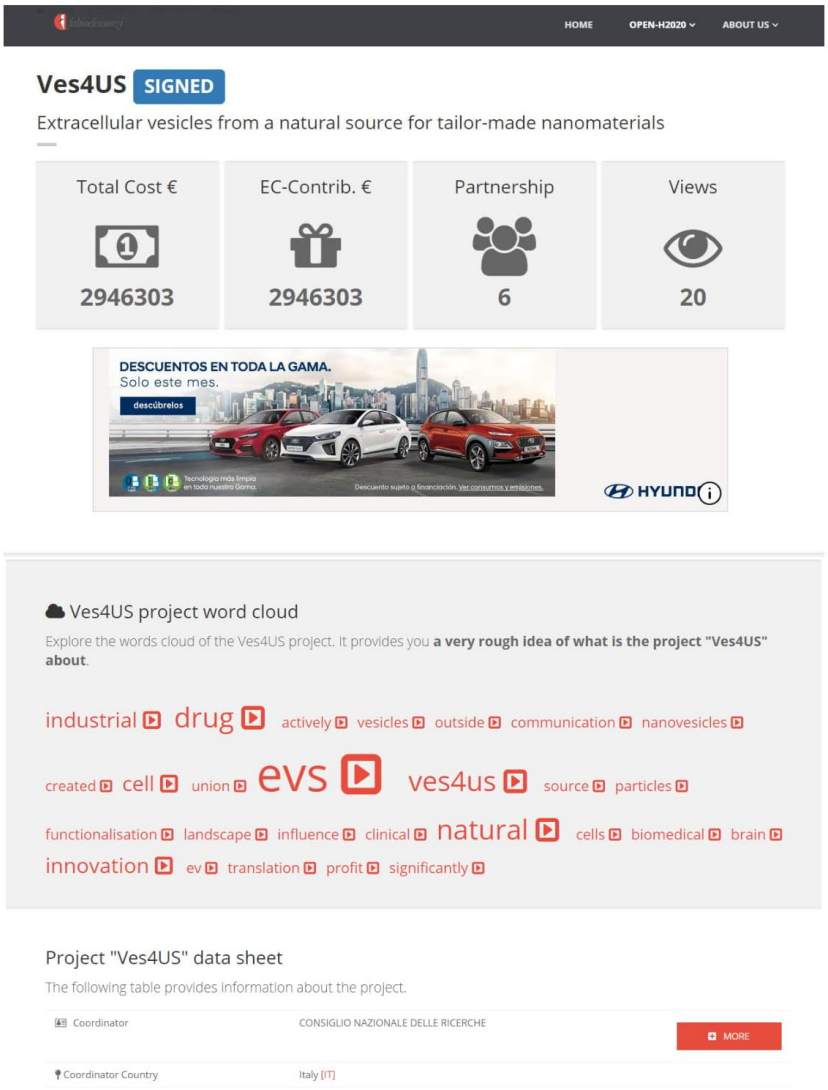
Il progetto VES4US è stato lanciato proprio a Palermo il 20 e il 21 settembre 2018 e ha contato sulla partecipazione di tutti i membri del consorzio europeo, di rappresentanti della città di Palermo, nonché di rinomati ricercatori e rappresentanti industriali.

Per informazioni:
Antonella Bongiovanni
Cnr - Ibim
bongiovanni@ibim.cnr.it

Vedi anche:
- Sito del progetto

https://www.cnr.it/it/news/8333/l-europa-con-il-progetto-ves4us-punta-sulle-nanovescicole

9.2.4 FABIO DISCONZI



Total cost	2'946'303 €
EC max contribution	2'946'303 € (100%)
Programme	1. H2020-EU.1.2.1. (FET Open)
Code Call	H2020-FETOPEN-1-2016-2017
Funding Scheme	/RIA
Starting year	2018
Duration (year-month-day)	from 2018-09-01 to 2021-08-31

Partnership

Take a look of project's partnership.

#	participants	country	role	EC contrib. [€]
1	CONSIGLIO NAZIONALE DELLE RICERCHE	IT (ROMA)	coordinator	1'166'412.00
2	INSTITUTE OF TECHNOLOGY SLIGO - ITS	IE (SLIGO)	participant	560'187.00
3	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	CH (ZUERICH)	participant	499'998.00
4	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	DE (MUENCHEN)	participant	303'455.00
5	ZABALA INNOVATION CONSULTING, S.A.	ES (MUTILVA ALTA NAVARRA)	participant	222'500.00
6	UNIVERZA V LJUBLJANI	SI (LJUBLJANA)	participant	193'750.00

Mappa

Project objective

Extracellular vesicles (EVs) are cell-derived, membranous particles that mediate intercellular communication by transferring biomolecules such as proteins and RNAs. The discovery of EVs as natural biocarriers and inter-species communication means has raised great interest in the drug delivery field. EVs intrinsically possess many attributes of a drug delivery vehicle, since these particles i) are well tolerated in the body, ii) have long circulating half-life, iii) are internalised by recipient cells and iv) are able of crossing the blood brain barrier. Native and drug-loaded mammalian cell-derived EVs have recently been developed and are contributing to the expanding research field known as "cell-free therapy". Despite these promising progresses, translational applications are currently hampered by the lack of suitable processes for the isolation, characterisation and functionalisation of EVs. The aim of Ves4US is to develop a radically new platform for the efficient production and functionalisation of EVs, which will enable for their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics. A core aspect of the project is to focus vesicles from an identified natural source, which could constitute a more economically viable and sustainable source of EVs. This will allow the development of natural nanocarriers with unprecedented abilities for drug delivery in specific tissues such as brain, lung, skin, dendritic or tumor cells. Ves4US is endorsed by prominent industrial stakeholders with strong interests in market-oriented innovation. The actively emerging field of EV-based research and industrial/clinical translation will significantly profit from the proposed Ves4US innovation of focusing on natural nanovesicles; the new knowledge created will influence the biomedical landscape of the future both within and outside the European Union. The actively emerging field of EV-based research and industrial/clinical translation will significantly profit from the proposed Ves4US innovation of focusing on microalgal nanovesicles; the new knowledge created will influence the biomedical landscape of the future both within and outside the European Union.

https://www.fabiodisconzi.com/open-h2020/projects/216332/index.htm

9.2.5 CORRIERE NAZIONALE

Corriere Nazionale

HOME VERSIONE PDF NAZIONALE CRONACA ESTERI ECONOMIA POLITICA SPETTACOLI SPORT AMBIENTE ARTE CULTURA MOTORI SALUTE SCIENZE SCUOLA SOCIETÀ TECNOLOGIA

L'Europa con il progetto VES4US punta sulle nanovescicole

Il progetto di ricerca internazionale VES4US ha come obiettivo lo sviluppo di una piattaforma radicalmente nuova per la produzione di nanovescicole extracellulari da una fonte biologica sostenibile

Le vescicole extracellulari, anche chiamate nanovescicole o esosomi, sono frammenti cellulari, liberati da cellule animali o vegetali. La funzione principale di queste particelle è legata al trasporto di "informazioni" molecolari da una cellula all'altra. Grazie a questa capacità intrinseca di veicolare e rilasciare molecole in tutti i tessuti dell'organismo, le nanovescicole possono essere utilizzate per trasportare farmaci o molecole bioattive nei tessuti target. Le nanovescicole naturali, quindi, rappresentano una nuova frontiera delle nanotecnologie.

Il progetto di ricerca internazionale VES4US ha come obiettivo lo sviluppo di una piattaforma radicalmente nuova per la produzione di nanovescicole extracellulari da una fonte biologica sostenibile. Per raggiungere i suoi obiettivi, il progetto VES4US inizierà con la selezione della migliore fonte naturale per la produzione delle vescicole extracellulari. Dalla scelta sono escluse fonti naturali potenzialmente pericolose per la salute umana, come il latte bovino o i parassiti. La seconda fase, riguarda la caratterizzazione fisico-chimica delle nanovescicole naturali, la funzionalizzazione della loro membrana per raggiungere tessuti target e il loro arricchimento con molecole cargo utili per l'organismo.

VES4US è un nuovo progetto Fet (Future and Emerging Technologies)-Open, finanziato dalla Commissione europea nell'ambito del programma Horizon 2020. In quest'ultimo bando di ricerca e innovazione Fet-Open, sono stati selezionati 27 progetti tra le 385 domande presentate. Ai 27 progetti sarà offerto un contributo significativo per condurre la loro ricerca pionieristica, sale così a 123 il numero dei progetti Fet-Open in corso, finanziati da parte dell'Ue con circa 400 milioni di Euro. Fra le attuali dei progetti Fet-Open approvati: un microscopio a super risoluzione in un chip microfluidico più piccolo di una moneta, una nuova tecnologia di posizionamento senza Gps, l'imaging non invasivo di processi biochimici nel cervello umano, la costruzione di un tessuto 3D su un chip e il nostro VES4US.

Il contributo della Commissione europea per il progetto VES4US, di durata triennale, è di circa 3 milioni.

L'Istituto di biomedicina e immunologia molecolare [Bim] Alberto Monroy' di Palermo, del Consiglio nazionale delle ricerche (Cnr), coordina il consorzio europeo interdisciplinare, che comprende rinomate istituzioni scientifiche di sei diversi paesi europei. Gli altri partner sono: Institute of Technology Sligo (Ireland), Eth Zürich (Switzerland), Univerza V Ljubljani (Ljubljana), Max Planck Institute for Polymer Research, (Germany) and Zabala Innovatica Consulting (Spain). Altri istituti Cnr coinvolti sono: Istituto di biofisica (Ibf) – Sede secondaria di Palermo, Istituto di bioscienze e biorisorse (Ibbr) – Sede secondaria di Napoli, Istituto di genetica e biofisica (Igb) di Napoli ed Istituto per l'endocrinologia e l'oncologia (Ieos) di Napoli.

"In VES4US l'approccio scientifico è focalizzato sui bisogni di mercato e sociali. La scienza di base e il mondo industriale lavoreranno insieme per raggiungere risultati fruttuosi in tecnologie e conoscenze innovative per i settori della biotecnologia, delle nanotecnologie e della biomedicina" commenta Antonella Bongiovanni, ricercatrice dell'Istituto di biomedicina e immunologia molecolare e coordinatrice del progetto VES4US.

Il progetto VES4US è stato lanciato proprio a Palermo a fine settembre e ha contato sulla partecipazione di tutti i membri del consorzio europeo, di rappresentanti della città di Palermo, nonché di rinomati ricercatori e rappresentanti industriali.

https://www.corrierenazionale.it/2018/10/08/europa-con-progetto-ves4us-punta-sulle-nanovescicole/

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.6 CINQUECOLONNE

CINQUECOLONNEMAGAZINE

Home / Società / Esteri / Sport / Attualità / Terza Pagina / Economia / Idee

Magazine Idee Il progetto VES4US

Il progetto VES4US

Pippo Calaiò | 16/10/2018

Mi piace 0 Tweet

Idee

Le vescicole extracellulari, anche chiamate **nanovescicole** o **esosomi**, sono frammenti cellulari, liberati da cellule animali o vegetali. La funzione principale di queste particelle è legata al trasporto di 'informazioni' molecolari da una cellula all'altra. Grazie a questa capacità intrinseca di veicolare e rilasciare molecole in tutti i tessuti dell'organismo, le nanovescicole possono essere utilizzate per **trasportare farmaci** o **molecole bioattive** nei tessuti target.

Le rubriche

Caleidoscopio
Lettere al direttore
Amore & disincanto
Appuntamenti
Opportunità
Finzioni
Cibo e ...
'O napulitano e 'o nnapulitano
Medicina & Salute
Casa di Bambola
China Time
Specchi e Doppi
Focus Vs Web
Potere & Parole
Il Cinefago
Mala & il buon amore
Italia, Russia, Polonia In & Out

Il progetto VES4US: una nuova frontiera delle nanotecnologie

Le nanovescicole naturali, quindi, rappresentano una nuova frontiera delle **nanotecnologie**. Il progetto di ricerca internazionale VES4US ha come obiettivo lo sviluppo di una piattaforma radicalmente nuova per la **produzione di nanovescicole extracellulari da una fonte biologica sostenibile**. Per raggiungere i suoi obiettivi, il progetto VES4US iniziera con la selezione della migliore fonte naturale per la produzione delle vescicole extracellulari. Dalla scelta sono escluse fonti naturali potenzialmente pericolose per la salute umana, come il latte bovino o i parassiti. La seconda fase, riguarda la caratterizzazione fisico-chimica delle nanovescicole naturali, la funzionalizzazione della loro membrana per raggiungere tessuti target e il loro arricchimento con molecole cargo utili per l'organismo.

Il progetto VES4US: un chip microfluidico

VES4US è un nuovo progetto Fet (Future and Emerging Technologies)-Open, finanziato dalla Commissione europea nell'ambito del programma Horizon 2020. In quest'ultimo bando di ricerca e Innovazione Fet-Open, sono stati selezionati 27 progetti tra le 395 domande presentate. Ai 27 progetti sarà offerto un contributo significativo per condurre la loro **ricerca pioneristica**, sale così a 123 il numero dei progetti Fet-Open in corso, finanziati da parte dell'Ue con circa 400 milioni di Euro. Ecco alcune dei progetti Fet-Open approvati: un microscopio a super-risoluzione in un **chip microfluidico** più piccolo di una moneta, una nuova tecnologia di posizionamento senza Gps, l'imaging non invasivo di processi biochimici nel corpo umano, la costruzione di un muscolo 3D su un chip e il nostro VES4US.
Il contributo della Commissione europea per il progetto VES4US, di durata triennale, è di circa 3 milioni.

Il progetto VES4US: il consorzio europeo interdisciplinare

L'Istituto di biomedicina e immunologia molecolare (Ibim) 'Alberto Monroy' di Palermo, del Consiglio nazionale delle ricerche (Cnr), coordina il **consorzio europeo interdisciplinare**, che comprende rinomate istituzioni scientifiche di sei diversi paesi europei. Gli altri partner sono: Institute of Technology Sligo (Ireland), Eth Zürich (Switzerland), Univerza V Ljubljani (Ljubljana), Max Planck Institute for Polymer Research, (Germany) and Zabala Innovation Consulting (Spain). Altri istituti Cnr coinvolti sono: Istituto di biofisica (Ibf) - Sede secondaria di Palermo, Istituto di bioscienze e biorisorse (Ibbr) – Sede secondaria di Napoli, Istituto di genetica e biofisica (Igb) di Napoli ed Istituto per l'endocrinologia e l'oncologia (Ieos) di Napoli.

Il progetto VES4US: bisogni di mercato e bisogni sociali

"In VES4US l'approccio scientifico è focalizzato sui bisogni di mercato e sociali. La scienza di base e il mondo industriale lavoreranno insieme per raggiungere risultati fruttuosi in tecnologie e conoscenze innovative per i settori della biotecnologia, delle nanotecnologie e della biomedicina" – commenta Antoniella Bongiovanni, ricercatrice dell'Istituto di biomedicina e immunologia molecolare e coordinatrice del progetto VES4US.

Il progetto VES4US è stato lanciato proprio a Palermo il 20 e il 21 settembre 2018 e ha contato sulla partecipazione di tutti i membri del consorzio europeo, di rappresentanti della città di Palermo, nonchè di rinomati ricercatori e rappresentanti industriali.

Pippo Calaiò | 16/10/2018

http://www.cinquecolonne.it/il-progetto-ves4us.html (16/10/2018)

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.7 IBBR

National Research Council of Italy
Institute of Biosciences and Bioresources

Home :: News :: Announcements :: The lunch of VES4US H2020 FETOPEN project

The lunch of VES4US H2020 FETOPEN project: Extracellular vesicles from a natural source for tailor-made nanomaterials

VES4US is a new European project funded by the **FETOPEN call of Horizon2020 Programme** that aims to develop a radically **new platform for the efficient production and functionalisation of extracellular vesicles** (EVs) from a sustainable bioresource, enabling their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics. This could allow the development of natural nanocarriers with unprecedented abilities for drug delivery in specific tissues such as brain, lung, skin, dendritic or tumour cells.

This project was launched in Palermo **the 20th and 21st of September 2018** and counted with the assistance of all the members of the consortium and main important personalities in town as well as renown researchers and industrial representatives.

VES4US has a total budget of **2.946.303.75€** with the EU contribution. The project will run for the next three years with 6 organizations from 6 European countries.

Safe, efficient and specific nano-delivery systems are essential to current therapeutic medicine, cosmetic and nutraceutics sectors. The ability to optimise the bioavailability, stability, and targeted cellular uptake of a bioactive molecule while mitigating toxicity, immunogenicity and off-target/side effects is of the utmost priority. VES4US aims at creating a fundamentally new bioprocessing approach to generate and functionalise EVs from a renewable biological source using the state-of-the-art technologies.

VES4US, will start by doing a **selection of EVs-producing natural source** strains that at last, will get to the production of the EVs needed to **develop** the natural **nanocarriers** with the abilities for **molecular delivery** in specific tissues. Before that happens, it exists the need of doing a **good research practice** in a way to discover and define which will be the material needed to develop this research. This will be aided by an in-depth **physiochemical biological and toxicological characterization** of the natural, the specific cargo enriched and the functionalized EVs and their large-scale production using a **new extraction procedure**.

The Ves4us consortium is professional and consists of 5 research centers and universities and 1 consultancy firm. The group is led by CNR (Italy). The other partners are: Institute of Technology Sligo (Ireland), ETH Zürich (Switzerland), Univerza V Ljubljani (Slovenia), MPG (Germany) and ZABALA Innovation Consulting (Spain). CNR is participating with 5 institutes: IBIM, IBF, EOS, IGB and IBBR.

The two research groups from IBBR-CNR, division of Naples, have a fundamental role in the success of the project. The Mass spectrometry and Proteomics Group of IBBR-CNR led by **Gabriella Pocsfalvi** (member of VES4US Steering Committee) is responsible for the overall supervision of WP2 related to the "Production of natural source derived EVs", as well as for the Task 3.3 "Characterisation of protein and small molecular biocargo of vesicles"; and the C. elegans Group of IBBR-CNR led by **Elia di Schiavi** is responsible for Task 5.3 "Invertebrate in vivo assays". The IBBR-CNR has a budget of 380.000 Euro to dedicate for the successful completion of these tasks, which are very important for the VES4US project's objectives.

For more information:

Antonella Bongiovanni (IBIM-CNR)

Coordinator of VES4US

E • antonella.bongiovanni@ibim.cnr.it

Gabriella Pocsfalvi (IBBR-CNR)

Member of VES4US Steering Comitee

E • gabriella.pocsfalvi@ibbr.cnr.it

T ++39 0816132585 T • +39 3355607140

Elia Di Schiavi (IBBR-CNR)

E • elia.dischiavi@ibbr.cnr.it

T ++39 0816132365

See WEB site of the project: https://cordis.europa.eu/project/rcn/216332_it.html

http://ibbr.cnr.it/ibbr/news/announcements/the-lunch-of-ves4us-h2020-fetopen-project

9.2.8 IBBR

National Research Council of Italy
Institute of Biosciences and Bioresources

Home :: News :: Grants and Jobs :: Job advertisement: VES4US-CHEM-IBBR

Job advertisement: VES4US-CHEM-IBBR

Position will be open soon for a full-time post doc fellow to join the international research team of Ves4US project financed by the H2020 FET-Open European innovation action call. Ves4US aims to develop a new platform for the efficient production and functionalization of **Extracellular Vesicles** (EVs) from a sustainable bioresource, enabling their exploitation as tailor-made products in nanomedicine, cosmetics and nutraceutics. The recruited research fellow by working in a friendly and constructive international environment will have the opportunity to visit partner organizations, attend conferences and to publish in high impact journals.

Closing date for application: expected to be 17:00 local time, 01 December 2018

Expected starting Date: 01 January 2019

Duration: Funded for 32 months, full-time

F unding source: EU H2020 FET OPEN VES4US PROJECT

Stipend: €25.000 per annum

Principal investigator: Dr. Gabriella Pocsfalvi

Institute: Institute of Biosciences and Bioresources, Italian National Research Council

Location: Naples, ITALY

DESCRIPTION: The recruited researcher will join the VES4US team in Naples to develop a novel polymer-based technology for the efficient isolation and purification of EVs from bioresources.

PROFILE REQUIREMENTS: Motivated candidate with strong interests in polymer chemistry, and biotechnology must have a M.Sc. degree in "**Chemistry**", "**Material Science and engineering**" or "**Biotechnology**" or "**BIOLOGY**" and PhD degree. Candidates with substantial experience in the synthesis and application of molecularly imprinted polymers and analytical chemistry (LC-MS, HPLC and GC-MS) will be considered favorably.

For further details: Please send an email including a detailed cover letter and full curriculum vitae to Dr. Gabriella Pocsfalvi (gabriella.pocsfalvi@ibbr.cnr.it). Please insert the subject line the acronym of the topic (VES4US-CHEM-IBBR) with your electronic correspondence.

http://ibbr.cnr.it/ibbr/news/jobs/job-advertisement-ves4us-chem-ibbr

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.9 CNR

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The portal of Italian research

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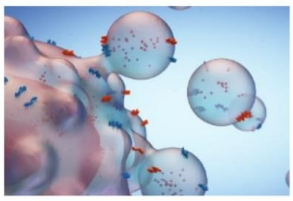
Vesicles as a new frontier for nanotechnology



To develop a new platform for the production of extracellular nanovescicles from a sustainable biological source.

This is the objective of **VES4US**, a new 3-year Fet (Future and Emerging Technologies)-Open project funded by the European Commission under the Horizon 2020 project.

Extracellular vescicles, or nanovescicles or exosomes, are animal or plant cellular fragments that transport molecular information from one cell to another; therefore, they could be used for drug or bioactive molecule delivery to target tissues, thus representing a new frontier of nanotechnology.

The international research project was launched in Palermo and funded with approximately 3 million euro.

"*In VES4US, the scientific approach focuses on the market and social needs. Basic science and industrial world will work together to achieve fruitful results in innovative technology and knowledge for the sectors of biotechnology, nanotechnology and biomedicine*" said **Antonella Bongiovanni**, VES4US project coordinator.

The consortium that will implement the project includes IBIM-CNR, as coordinator, and scientific institutions from six different European countries: Institute of Technology Sligo, Eth Zürich, Univerza V Ljubljani, Max Planck Institute for Polymer Research and Zabala Innovation Consulting.

The project also involves other CNR institutes: IBF in Palermo, IBBR in Naples, IGB in Naples and IEOS in Naples.

Publication date 10/31/2018
Source CNR
Tag Health , Life Sciences

https://www.researchitaly.it/en/news/vesicles-as-a-new-frontier-for-nanotechnology/#null

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.10 ZABALA

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Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials

Contributed by: **ZABALA Innovation Consulting**

The kick-off of Ves4US took place recently in Palermo

Ves4US is a new European project funded by the Fet-Open call of the Horizon 2020 Programme that aims to develop a radically new platform for the efficient production and functionalisation of extracellular vesicles (EVs) from a sustainable biosource, enabling their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics. This could allow the development of natural nanocarriers with unprecedented abilities for drug delivery in specific tissues such as brain, lung, skin, dendritic or tumour cells.

This project was launched in Palermo recently and counted with the assistance of all the members of the consortium and main important personalities in town as well as renowned researchers and industrial representatives.

Ves4US has a total budget of 2,946,303.75€ with the EU contribution. The project will run for the next three years with 6 organizations from 6 European countries.

Safe, efficient and specific nano-delivery systems are essential to current therapeutic medicine, cosmetic and nutraceutics sectors. The ability to optimise the bioavailability, stability, and targeted cellular uptake of a bioactive molecule while mitigating toxicity, immunogenicity and off-target/side effects is of the utmost priority. Ves4US aims at creating a fundamentally new bioprocessing approach to generate and functionalise EVs from a renewable biological source using state-of-the-art technologies.

The discovery of EVs as natural carriers of functional small molecules and proteins has raised great interest in the drug delivery field as it may be possible to harness these vesicles for the therapeutic delivery of miRNA, siRNA, mRNA, lncRNA, peptides and synthetic drugs. However, systemically delivered EVs accumulate in liver, kidney and spleen, and some mammalian-derived secreted EVs have shown to date limited pharmaceutical acceptability because of their source. Ves4US aims to overcome these limitations by developing a biocompatible and cost-effective micro EV-based drug delivery system, which would enhance bioavailability and improve the efficacy and safety of loaded bioactive compounds.

To achieve its aims, Ves4US, will start by doing a selection of EVs-producing natural source strains that at last will get to the production of the EVs needed to develop natural nanocarriers with the abilities for drug delivery in specific tissues. Before that happens, there exists the need for doing a good research practice in a way to discover and define which will be the material needed to develop this research. If this is done correctly, not only will they have a definition but the physiochemical characterisation of EVs from a natural source and the functionalisation and cargo enrichment of itself.

The Ves4US consortium is professional and consists of 5 research centres and universities and 1 consultancy firm.

The group is led by CNR, established in Italy. The other partners are: Institute of Technology Sligo (Ireland), ETH Zürich (Switzerland), Univerza V Ljubljani (Ljubljana), MPG (Germany) and ZABALA Innovation Consulting (Spain).

Contributor

Organisation	ZABALA Innovation Consulting Paseo Santxiki, 3 bis 31192 Mutilva Spain Website
Contact	Communication Manager: Susana Garayoa Tel.: 673009336 E-mail See more news from this contributor

Related information

Projects	Ves4US - Extracellular vesicles from a natural source for tailor-made nanomaterials
Programmes	H2020-EU.1.2.
Countries (6)	Switzerland, Germany, Spain, Ireland, Italy, Slovenia

Subjects

Biotechnology - Healthcare delivery/services - Life Sciences

Keywords

https://cordis.europa.eu/news/rcn/130262_en.html (2018-11-06)

9.2.11 BANDI

BANDI

Ministero dell'Istruzione, dell'Università e della Ricerca

Bandi per assegni di ricerca

CNR - Istituto di biomedicina e di immunologia molecolare "Alberto Monroy"

Torna ai risultati della ricerca

Bando per assegno di ricerca

Descrizione del bando	
Titolo del progetto di ricerca in italiano	Progetto H2020-FetOpen 2018-2021, titolo: VES4US: Extracellular vesicles from a natural source for tailor-made nanomaterials.
Titolo del progetto di ricerca in inglese	H2020-FetOpen 2018-2021 project, titled: VES4US: Extracellular vesicles from a natural source for tailor-made nanomaterials.
Area CUN	05 - Scienze biologiche
S.S.D	-
Descrizione sintetica in italiano	Il progetto di ricerca (link) ha come obiettivo lo sviluppo di una piattaforma radicalmente nuova per la produzione di nanovesicole extracellulari da una fonte biologica sostenibile. Per raggiungere questo risultato, l'assegnista di ricerca contribuirà alla selezione della migliore fonte naturale per la produzione delle vescicole extracellulari. La seconda fase della ricerca riguarderà la caratterizzazione delle nanovescicole naturali.
Descrizione sintetica in inglese	The interdisciplinary research project (link) aims at generating natural source-derived extracellular vesicles (EVs), which could be used as new generation vehicles for specific molecular delivery. The recruited research fellow will select EV-producing natural source strains that at last, will get to the production of the EVs needed to develop the natural nanocarriers with the abilities for drug delivery in specific tissues.
Data del bando	06/11/2018
Numero di assegnazioni per anno	1
Stanziamento annuale (indicativo)	24000
Periodicità	annuale
E' richiesta mobilità internazionale?	no
Paesi in cui può essere condotta la ricerca	Italy
Paesi di residenza dei candidati	EUROPE
Nazionalità dei candidati	EUROPE
Sito web del bando	http://www.urp.cnr.it

Dettagli dell'assegno di ricerca	
Destinatari dell'assegno di ricerca (cf target group)	Experienced researcher or 4-10 yrs (Post-Doc)
Il contratto prevede la copertura delle prestazioni sociali?	yes
Importo annuale	24000
Valuta	Euro
Comprende lo stipendio dell'assegnista	yes
Comprende vitto e spese di viaggio	no
Comprende il costo della ricerca	no
Altri costi in italiano	Versamenti INPS - Gestione separata da parte del CNR
Altri costi in inglese	INPS costs due by CNR
Massima durata dell'assegno (mesi)	24
Criteri di selezione in italiano (breve descrizione)	La Commissione procede alla selezione mediante la valutazione dei titoli ed un colloquio
Criteri di selezione in inglese (breve descrizione)	The evaluation committee will judge the candicates on the basis of their experience and publications and an oral examination in italian
Processo di selezione in italiano (breve descrizione)	La Commissione procede alla selezione mediante la valutazione dei titoli ed un colloquio
Processo di selezione in inglese (breve descrizione)	The evaluation committee will judge the candicates on the basis of their experience and publications and an oral examination in italian

Finanziatore	
Nome dell'Ente finanziatore	Istituto di Biomedicina ed Immunologia Molecolare del CNR
Tipologia dell'Ente	Public research
Paese dell'Ente	Italy
Città	PALERMO
Codice postale	90146
Indirizzo	VIA UGO LA MALFA N. 153
Sito web	http://www.ibim.cnr.it

Contatto presso l'Ente	
E-mail	antonella.bongiovanni@ibim.cnr.it
Telefono	+39091680554

EU Research Framework Programme	
L'assegno finanziato/cofinanziato attraverso un EU Research Framework Programme?	H2020

Dettagli per la candidatura	
Data di scadenza del bando	21/11/2018
Come candidarsi	Other

http://bandi.miur.it/bandi.php/public/fellowship/id_fellow/150697 (06/11/2018)

9.2.12 CORDIS

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Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials

Contributed by: **ZABALA Innovation Consulting**

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Subjects

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Keywords

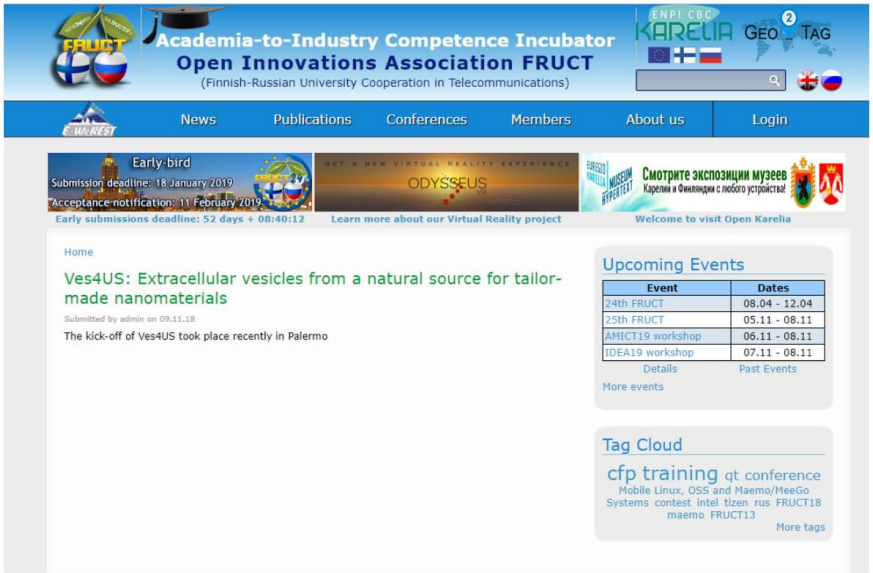
https://cordis.europa.eu/news/rcn/130262_en.html (2018-11-06)

9.2.13 LA COSMÉTICA NATURAL

https://www.lacosmeticanatural.com/ves4us-extracellular-vesicles-from-a-natural-source-for-tailor-made-cordis-news/

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.14 ACADEMIA TO INDUSTRY COMPETENCE INCUBATOR



https://fruct.org/node/374647

9.2.15 CHEMICAL

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November 16, 2018 cordis.europa.eu

Ves4US: Extracellular vesicles from a natural source for tailor-made nanomaterials

Italy | Ireland | Switzerland | Slovenia | Spain | Germany | Europe

Nanomaterials | EU funded projects | Innovation

CORDIS Community Research & Development Information Service

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https://chemycal.com/news/e363a893-a0d5-4045-9946-c6ff885902e2/Ves4US_Extracellular_vesicles_from_a_natural_source_for_tailor-made_nanomaterials

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

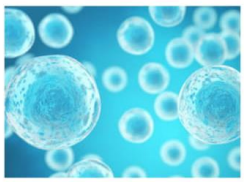
9.2.16 MAX-PLANCK

New treatment approaches using miniature cells

Researchers going to use special cell types as drug carriers in the future – start of the research project "Ves4Us"

November 16, 2018

Modern drugs typically take effect in the whole body and not just at the parts to be treated. With the development of drug carriers in the nanometer range, scientists want to bring the active component to where it should have an effect in the future. For this purpose, the surfaces of the carriers are modified to allow a specific "docking". The carriers produced so far were made from biocompatible materials, such as e. g. starch. Nevertheless, the biocompatibility and the time the carriers circulate in the human body should be further increased in the future.



© Ves4Us

In the research project "Ves4Us", researchers from Italy, Ireland, Switzerland and Slovenia are now working on a new approach in cooperation with the Max Planck Institute for Polymer Research (MPI-P) in Mainz. The project uses so-called "extracellular vesicles". These are "miniature cells", which are also produced in the human body every day. They are mainly used for inter-cell communication, so they are excreted by certain cells and taken up by other cells. In their characteristics, such as for example their surface, they are therefore very similar to "real" cells. As a result, the vesicles have the best prerequisites for a very good biocompatibility and the required long circulation time in the body.

The aim of the project "Ves4Us" is to generate extracellular vesicles in large quantities. Scientists around Dr. Svenja Morsbach, group leader at the MPI-P in Mainz, and Prof. Katharina Landfester, director at the MPI-P, work in the project to equip these vesicles with a kind of "address label", so that they can act in the body at precisely defined places. For this purpose, certain proteins are attached to the vesicle surface, which then allow in a sort of key-lock principle to dock the drug carrier to certain tissue types.

In addition to the surface modification, the vesicles produced by the cooperation partners are opened with suitable technical methods, filled with an active substance and then resealed.

"We will first test this with dye," says Svenja Morsbach. "If we can fill the vesicles reproducibly with dye, we can replace the dye with drugs and then test the effectiveness of the vesicles to treat various diseases."

The project runs for three years under the European Horizon2020 program FET-OPEN and will receive a total of 3 Mio. Euros. Of this, a share of 300.000 Euros is attributable to the work of the Mainz scientists.

Weitere Informationen

https://ves4us.eu - Webseite des Projekts Ves4Us

Dr. Svenja Morsbach
Group Leader
Phone: +49 6131 379-225
Email: morsbachs@...
Homepage

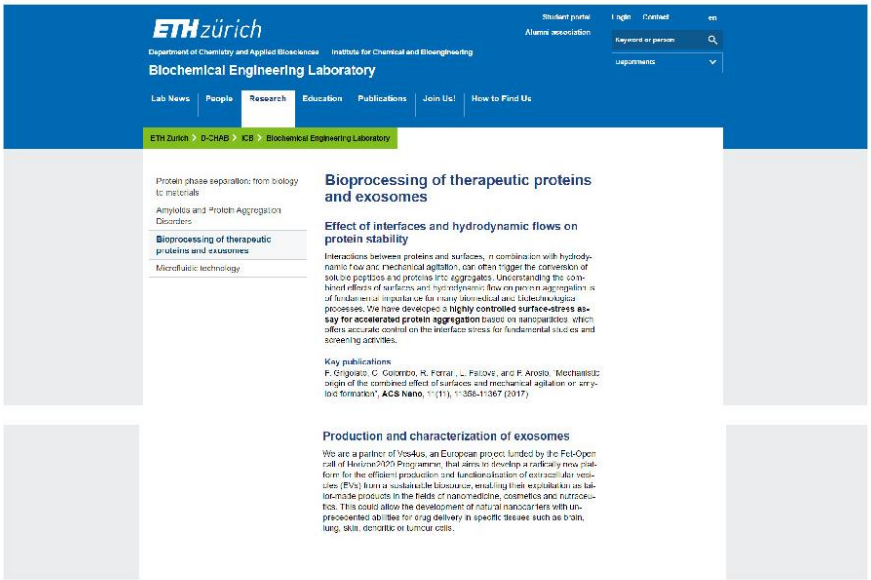
Prof. Dr. Katharina Landfester
Director
Phone: +49 6131 379-170
Email: landfester@...
CV and Research Interest

Pressekontakt

Dr. Christian Schneider
Press officer
Phone: +49 6131 379-132
Email: pr@...

http://www.mpip-mainz.mpg.de/5494413/PM2018-27

9.2.17 ETHZ



http://www.arosiogroup.ethz.ch/research/bioprocessing-of-therapeutic-proteins-and-exosomes.html

9.2.18 IBF

IBF Istituto di Biofisica
CNR – Consiglio Nazionale delle Ricerche

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Ves4US – Vescicole extracellulari da una fonte naturale per nanomateriali su misura

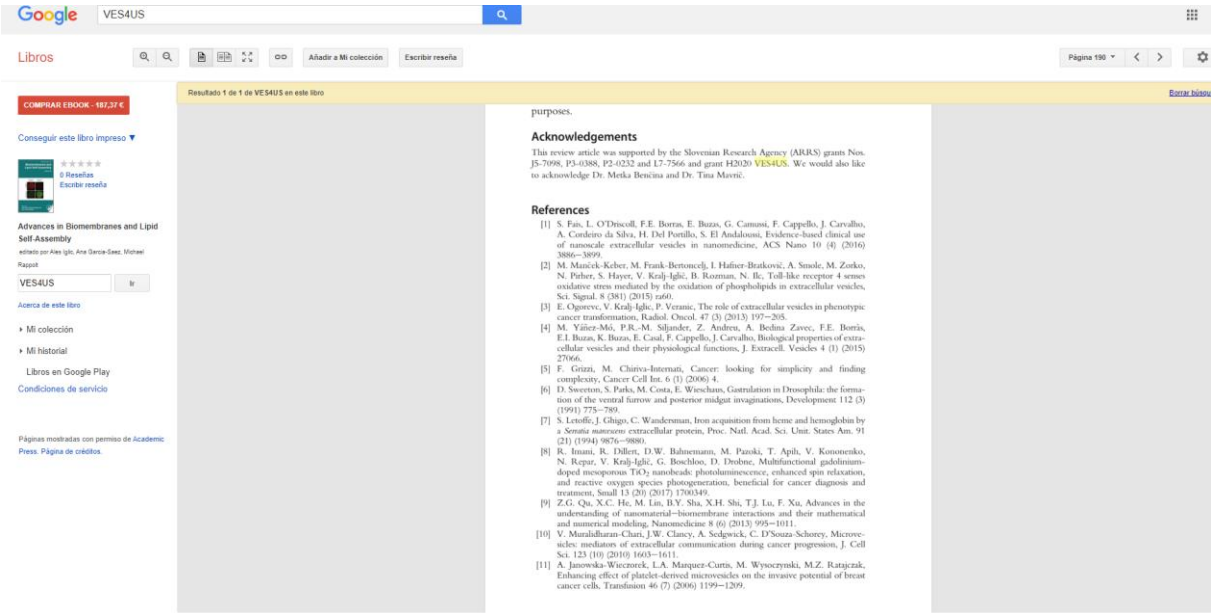
Pubblicato 28 January 2019

Il progetto ves4us è una iniziativa europea fondata dal programma Horizon2020 della Commissione europea sotto il bando Future Emerging Technologies (FET). Il suo principale obiettivo mira a generare una vasta gamma di prodotti radicalmente nuovi di alta qualità nel campo della nutrizione, della cosmetica e delle scienze della vita basati su vescicole extracellulari (EVs) derivate da una fonte naturale, che possono essere usati come veicoli di nuova generazione per il trasporto di specifiche molecole.
Il consorzio di Ves4US è formato da 5 istituti del CNR: IBIM (coordinatore), IBF, IBBB, IEOS, IGB; e da 5 partner europei: Max Planck Institute for Polymer Research (Germania), ETH Zurich (Svizzera), Institute of Technology Sligo (Irlanda), University of Ljubljani (Slovenia), Zabala Innovation Consulting (Spagna).

Nell'ambito del Consorzio del progetto il gruppo dell'Istituto di Biofisica è specificamente orientato alla caratterizzazione biofisica delle vescicole.
Web: https://cordis.europa.eu/project/rcn/216332_en.html & (presto disponibile): www.ves4us.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338

9.2.19 BOOK



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Resultado 1 de 1 de VES4US en este libro

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purposes.

Acknowledgements

This review article was supported by the Slovenian Research Agency (ARRS) grants Nos. J5-7098, P3-0388, P2-0232 and L7-7566 and grant H2020 VES4US. We would also like to acknowledge Dr. Metka Benčina and Dr. Tina Mavrič.

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9.2.20 FETFX

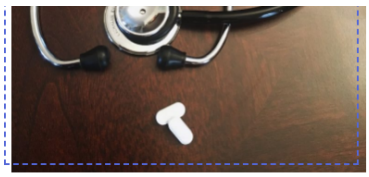
BIOTECH & HEALTH

NEXT-GENERATION DRUG TARGETING USING NATURAL EXTRACELLULAR VESICLES

Utilising a cell's own molecular delivery system could enable specific biomedical treatments

SHARE THIS STORY:

In the world of drug delivery, getting an active compound to the right tissue or organ before the body's defences break it down can make the difference between wellbeing and sickness, life and death. Clever capsules and coatings can boost the drug effect but **every molecule has a shelf life once it enters the body**, and this severely hampers effectiveness and can lead to side effects.



Deliverying drugs where they are needed in the human body has always been a major challenge to medicine. Photo by pina messina on Unsplash

Now researchers are looking to **utilise a live organism's own cellular machinery to deliver medicines right where there are needed by using extracellular vesicles (EVs).** EVs are cell-derived, membranous particles that mediate intercellular communication by transferring biomolecules such as proteins and RNAs. Scientists are increasingly looking at these EVs as a means to deliver drugs in the fields of nanomedicine, cosmetics and nutraceutics. EVs offer several advantages, if they can be utilised.

VES4US is a €3M European project funded by the Future and Emerging Technology (FET) programme that aims to develop a radically new platform to reduce the cost and the time for production and functionalisation of EVs. Using a sustainable biosource, **the project aims to enable their exploitation as tailor-made products in the fields of nanomedicine, cosmetics and nutraceutics.** This could allow the development of natural nanocarriers tailored for industry with unprecedented abilities for drug delivery in specific tissues such as brain, lung, skin, dendritic or tumour cells.

"In VES4US the scientific approach is focused on market and social needs. Basic science and industrial worlds will work together to reach fruitful results in breakthrough emerging technologies and knowledge for the biotechnology, nanotechnology and bioscience sectors," says **Antonella Bongiovanni**, VES4US coordinator and researcher.

The discovery of EVs as natural carriers of functional small molecules and proteins has raised great interest in the drug delivery field. But systemically delivered EVs accumulate in liver, kidney and spleen, and some mammalian derived secreted EVs have shown limited pharmaceutical acceptability because of their source. To work around these issues, VES4US will start by **selecting a source of EVs that will ensure the purity and quality needed to act as effective natural nanocarriers.** There are currently few raw materials to make this happen and the technology to extract EVs is far from perfect for industrial scale, resulting in poor quality EVs with high costs.

"VES4US aims to overcome present limitations by developing a biocompatible and cost-effective nano extracellular vesicle-based drug delivery system, which would enhance bioavailability and improve the efficacy and safety of loaded bioactive compounds," explains Antonella.

VES4US results could replace less acceptable tumour or animal-derived pharmaceuticals or chemical liposomes, as future vehicles for targeted drug delivery, influencing health and human wellbeing. The biotech industry generates millions of euros of revenue and sustains a sizeable work force, and **the global market in exosomes (a type of EV) was around $3M in 2016 and the forecast is $2.28Bn in 2030**, according to a Grand View Research report.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

This project was launched on September 2018 and will **last until August 2021**. The project is coordinated by the National Research Council of Italy (Italy) and partners are the Institute of Technology Sligo (Ireland), the Swiss Federal Institute of Technology (Switzerland), University of Ljubljana (Slovenia), Max Planck Institute for Polymer Research (Germany) and ZABALA Innovation Consulting (Spain).

Photo by Nathan Dias on Unsplash

May 27th, 2019 SHARE THIS STORY:

TOPICS: Drugs Cells Extracellular vesicles

// Research projects in this story

VES4US

Functionalising extracellular vesicles as instrumental tools to nanomedicine, cosmetics and nutraceutics

Browse all projects

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.21 CORDIS

Co-funding scheme for PhD programs within the VES4US project

VES4US has created a PhD program with a co-funding scheme to hire new researchers. The CNR at Palermo (Italy), who is the coordinator partner of VES4US, calls for the involvement of industrial stakeholders through the participation in a co-funding scheme for PhD bursaries.

ity during the 3 years PhD

3 or 4 specialistic courses (90-120 hours) @ University of Palermo

1 or 2 International residential schools (1-2 weeks) @ other acade

Main research activity on the project @ CNR laboratory

Short term or midterm secondment (1-6 months) @ partner labor

Short term or midterm secondment (1-6 months) @ sponsor com (if required)

Communication of scientific results @ international conferences

Participation on the exploitation plan with project partner and sp

© VES4US

The recruited students will be enrolled in one of the following PhD schools at the University of Palermo: "Technologies and sciences for human health", PhD school in "Physics".

The PhD studentship will be managed under the agreement of three partners:

Scientific partner: CNR (responsible for the research in the frame of VES4US project)
Academic partner: University of Palermo
Industrial partner: the sponsor company

Contributor

Contributed by:

ZABALA Innovation Consulting

Spain

Contact

Carla Sala

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HORIZON 2020

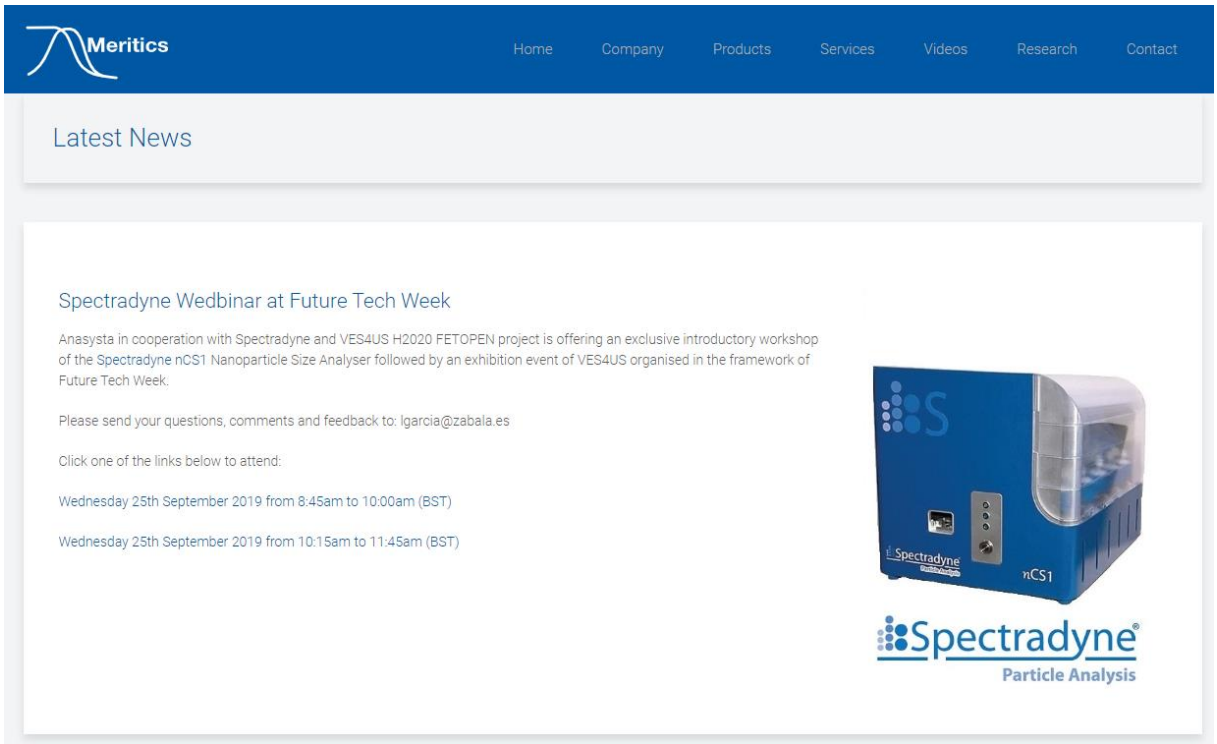
PROJECTS

VES4US

Extracellular vesicles from a natural source for tailor-made nanomaterials

29 July 2019

9.2.22 MERITICS



This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.23 EVITA

1st EVIta Symposium 2019 - Program

6-8 November 2019
Palermo, Italy

Home page **Welcome letter** **Invited Speakers** **Program** **Abstract book**

Wednesday, 6 November 2019

Welcoming Day

18:00	**Registration to the 1st EVIta Symposium**
18:30	**Opening remarks** **Institutional welcome** **Welcome by the Local Organizing Committee**
19:00-19:30	**Opening Lecture:** ***Dolores Di Vizio*** **-** *CEDARS-Sinai Mediacal Center, USA* "Cancer-Derived Extracellular vesicles and Large Oncosomes: From Biology to Biomarkers" **Chairs:** ***Riccardo Alessandro*** *- University of Palermo, Italy* ***Antonella Bongiovanni*** **–** *IRIB, CNR, Italy*
19:30	**Welcome Cocktail**
21:30	**Jazz Time**

Thursday, 7 November 2019

1st Day

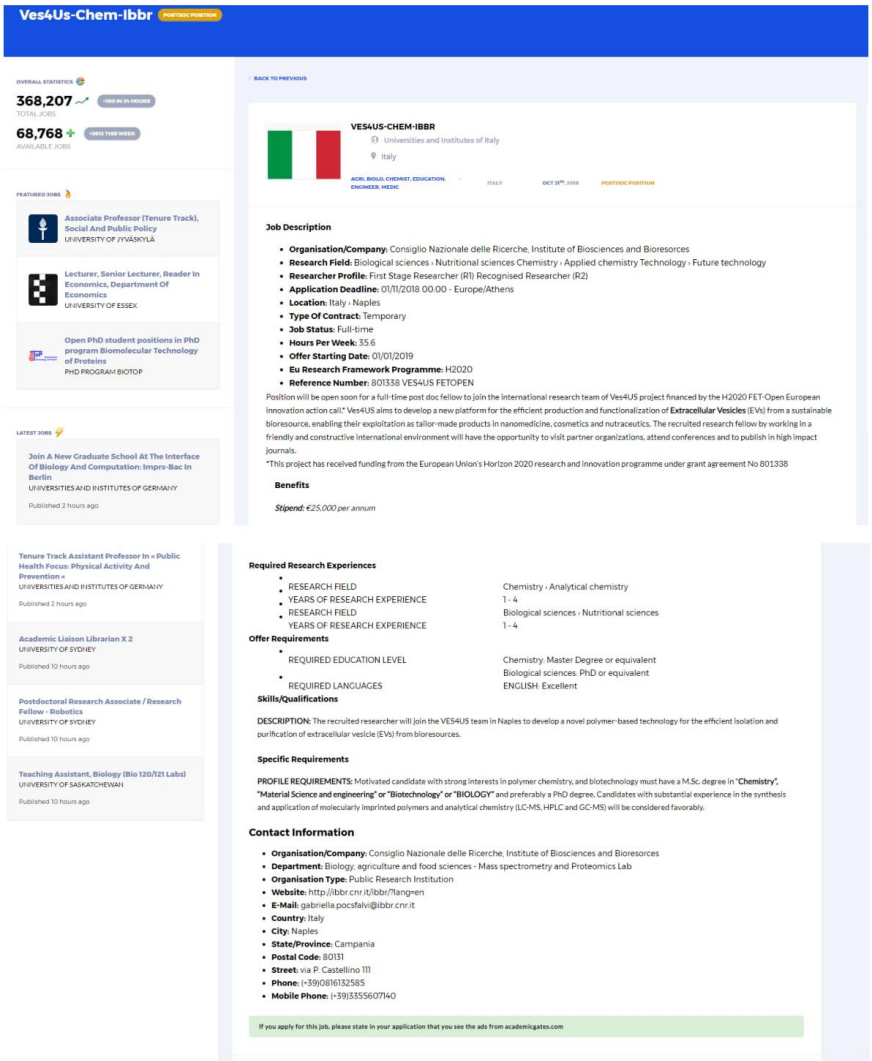
08:00-8:45	***Registration to the 1st EVIta Symposium***
08:45-9:00	**Welcome Remarks** ***Benedetta Bussolati*, EVIta President** *University of Turin, Italy*
09:00-10:15	**Session I - EVs as Therapeutics (I)** ***Chairs:*** ***Lorenza Lazzari*** *- Policlinico of Milan, Italy* ***Lucio Barile -*** *Cardiocentro Ticino Foundation, Switzerland*
	Roberta Tasso, *University of Genoa* "Mesenchymal stromal cell-derived extracellular vesicles (EVs) as mediators of antiinflammatory effects: endorsement of macrophage polarization". **Elia Bari,** *University of Pavia* "MSC extracellular vesicles for treatment of alpha-1-antitrypsin deficiency pulmonary diseases". **Papadimitriou Elli,** *University of Turin* "Urinary extracellular vesicles carrying klotho improve the recovery of renal function in acute tubular injury model". **Giorgia Adamo,** *IRIB, CNR, Palermo* VES4US, a Horizon 2020-Future and Emerging Technology project: Selection and characterization of natural source derived extracellular vesicles (EVs). **Federica Collino,** *University of Padua* "Extracellular vesicles from adipose mesenchymal stromal cells promote cardio-renal protection in DOCA-salt hypertensive model".
10:15-10:45	**Morning Lecture: *Kenneth Witwer*, ISEV Board Member** *Johns Hopkins University, USA* "Direct from the source: can we separate tissue EVs to inform the biomarker search?" **Chairs:** ***Benedetta Bussolati*** *- University of Turin, Italy* ***Dolores Di Vizio*** *- CEDARS-Sinai Mediacal Center, USA*
10:45-11:00	**Coffee break**
11:00-13:15	**Session II – EVs as Biomarkers** **Chairs:** ***Massimiliano Bonafè*** *- University of Bologna, Italy* ***Italia Di Liegro*** *- University of Palermo, Italy*
	Chiara Castellani, *University of Padua* "Extracellular vesicles surface protein profile as biomarkers to characterize allograft rejection in heart transplanted patients". **Celeste Caruso Bavisotto,** *University of Palermo* "Exosomal HSP60 levels and related miRNAs in brain tumors". **Silvia Picciolini,** *Don Gnocchi Foundation, Milan* "Biophotonics-based biosensor for the detection of circulating extracellular vesicles as biomarkers in personalized neurorehabilitation".

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

	Emanuela Mensà, *Marche Polytechnic University, Ancona* **"**MicroRNA signatures loaded on small vesicles spread some features of senescent phenotype from senescent to younger endothelial cells". **Vito D'Agostino**, *CIBIO - University of Trento* "Quantitative assessment of RNA targets on NBI-isolated extracellular vesicles from the blood of metastatic colorectal cancer patients". **Laura Cantone,** *University of Milan* "Maternal-placental messaging through extracellular vesicles is influenced by particulate air pollution exposure" **Burrello Jacopo,** *University of Turin* "Circulating extracellular vesicles as biomarkers in patients after ST-segment elevation myocardial infarction". **Federica Anastasi,** *Scuola Normale Superiore, Pisa* "Microproteomics workflow for exosome biomarker discovery: enabling single mouse analysis on longitudinal models". **Daniele D'Arrigo,** *Ente Ospedaliero Cantonale*, *Bellizona* **"**Characterization of the whole profile of extracellular vesicles isolated from synovial fluid from different load-bearing joints".
13:15-14:30	**Light Lunch and Poster Session:** **"EVs as Therapeutics" and "EVs as Biomarkers"**
14:30-14:50	**Biotech Sponsored Session I** **Chairs:** ***Marina Cretich*** - *Scitec (ICRM), CNR, Italy* ***Francesco Valle*** - *University of Bologna, Italy* **Alfatest**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.24 IBBR-CNR



Ves4Us-Chem-Ibbr POSTDOC POSITION

OVERALL STATISTICS
368,207 +150 IN 24 HOURS
TOTAL JOBS
68,768 +3913 THIS WEEK
AVAILABLE JOBS

FEATURED JOBS
- Associate Professor (Tenure Track), Social And Public Policy — UNIVERSITY OF JYVÄSKYLÄ
- Lecturer, Senior Lecturer, Reader In Economics, Department Of Economics — UNIVERSITY OF ESSEX
- Open PhD student positions in PhD program Biomolecular Technology of Proteins — PHD PROGRAM BIOTOP

LATEST JOBS
- Join A New Graduate School At The Interface Of Biology And Computation: Imprs-Bac In Berlin — UNIVERSITIES AND INSTITUTES OF GERMANY — Published 2 hours ago
- Tenure Track Assistant Professor In « Public Health Focus: Physical Activity And Prevention » — UNIVERSITIES AND INSTITUTES OF GERMANY — Published 2 hours ago
- Academic Liaison Librarian X 2 — UNIVERSITY OF SYDNEY — Published 10 hours ago
- Postdoctoral Research Associate / Research Fellow - Robotics — UNIVERSITY OF SYDNEY — Published 10 hours ago
- Teaching Assistant, Biology (Bio 120/121 Labs) — UNIVERSITY OF SASKATCHEWAN — Published 10 hours ago

BACK TO PREVIOUS

VES4US-CHEM-IBBR
Universities and Institutes of Italy
Italy
AGRI, BIOLO, CHEMIST, EDUCATION, ENGINEER, MEDIC · ITALY · OCT 21ST, 2018 · POSTDOC POSITION

Job Description

- **Organisation/Company**: Consiglio Nazionale delle Ricerche, Institute of Biosciences and Bioresorces
- **Research Field**: Biological sciences › Nutritional sciences Chemistry › Applied chemistry Technology › Future technology
- **Researcher Profile**: First Stage Researcher (R1) Recognised Researcher (R2)
- **Application Deadline**: 01/11/2018 00:00 - Europe/Athens
- **Location**: Italy › Naples
- **Type Of Contract**: Temporary
- **Job Status**: Full-time
- **Hours Per Week**: 35.6
- **Offer Starting Date**: 01/01/2019
- **Eu Research Framework Programme**: H2020
- **Reference Number**: 801338 VES4US FETOPEN

Position will be open soon for a full-time post doc fellow to join the international research team of Ves4US project financed by the H2020 FET-Open European innovation action call.* Ves4US aims to develop a new platform for the efficient production and functionalization of **Extracellular Vesicles** (EVs) from a sustainable bioresource, enabling their exploitation as tailor-made products in nanomedicine, cosmetics and nutraceutics. The recruited research fellow by working in a friendly and constructive international environment will have the opportunity to visit partner organizations, attend conferences and to publish in high impact journals.

*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 801338

Benefits

Stipend: €25.000 per annum

Required Research Experiences

- RESEARCH FIELD: Chemistry › Analytical chemistry
- YEARS OF RESEARCH EXPERIENCE: 1 - 4
- RESEARCH FIELD: Biological sciences › Nutritional sciences
- YEARS OF RESEARCH EXPERIENCE: 1 - 4

Offer Requirements

- REQUIRED EDUCATION LEVEL: Chemistry: Master Degree or equivalent; Biological sciences: PhD or equivalent
- REQUIRED LANGUAGES: ENGLISH: Excellent

Skills/Qualifications

DESCRIPTION: The recruited researcher will join the VES4US team in Naples to develop a novel polymer-based technology for the efficient isolation and purification of extracellular vesicle (EVs) from bioresources.

Specific Requirements

PROFILE REQUIREMENTS: Motivated candidate with strong interests in polymer chemistry, and biotechnology must have a M.Sc. degree in "**Chemistry**", "**Material Science and engineering**" or "**Biotechnology**" or "**BIOLOGY**" and preferably a PhD degree. Candidates with substantial experience in the synthesis and application of molecularly imprinted polymers and analytical chemistry (LC-MS, HPLC and GC-MS) will be considered favorably.

Contact Information

- **Organisation/Company**: Consiglio Nazionale delle Ricerche, Institute of Biosciences and Bioresorces
- **Department**: Biology, agriculture and food sciences - Mass spectrometry and Proteomics Lab
- **Organisation Type**: Public Research Institution
- **Website**: http://ibbr.cnr.it/ibbr/?lang=en
- **E-Mail**: gabriella.pocsfalvi@ibbr.cnr.it
- **Country**: Italy
- **City**: Naples
- **State/Province**: Campania
- **Postal Code**: 80131
- **Street**: via P. Castellino 111
- **Phone**: (+39)0816132585
- **Mobile Phone**: (+39)3355607140

If you apply for this job, please state in your application that you see the ads from academicgates.com

https://www.academicgates.com/job/detail/b05adab6be69-11e8-d561-e716170a-ab19

9.2.25 ZABALA

PROYECTO

Ves4us

Vesículas extracelulares para la administración de moléculas activas

El proyecto Ves4us es una nueva iniciativa europea financiada por el Programa Horizon2020 de la Comisión Europea, en la categoría Tecnologías Futuras y Emergentes (FET). Su objetivo principal es generar una amplia gama de productos de alto valor radicalmente nuevos en los campos de la nutrición, los cosméticos y las ciencias de la salud basados en vesículas extracelulares (EVs) de origen natural, que podrían utilizarse como vehículos de nueva generación para la entrega molecular específica.

Este proyecto ha sido financiado por el programa de Investigación e Innovación de la Unión Europea HORIZONTE 2020 en virtud del acuerdo de subvención 801338

6	36	3 M€	6
SOCIOS	MESES	DE PRESUPUESTO TOTAL	PAÍSES

EN UN CLICK

Proyecto
VES4US

Programa
HORIZON 2020

Fechas
2018-2021

Sector
INVESTIGACIÓN

Web
www.ves4us.eu

Descarga PDF

01
El Reto

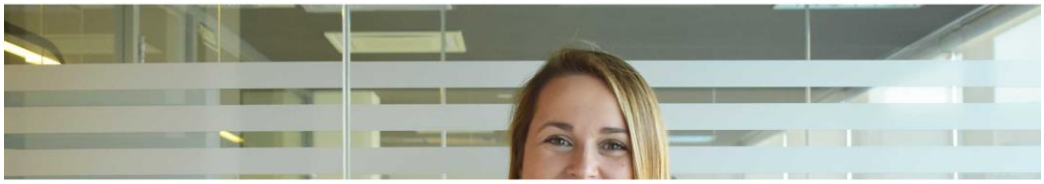
El descubrimiento de EVs como portadores naturales de pequeñas moléculas y proteínas funcionales ha despertado un gran interés en el campo del suministro de fármacos, ya que puede ser posible utilizar estas vesículas para la administración terapéutica selectiva de péptidos y fármacos. Además, se desarrollarán nuevas tecnológicas que no se han utilizado hasta el momento.

02
La Solución

Desarrollar un sistema de administración de fármacos basado en vesículas de origen natural biocompatibles y rentables, que mejoraría la biodisponibilidad, eficacia y seguridad de los compuestos bioactivos cargados. Propone una aproximación técnica de alto riesgo y alta ganancia para desarrollar aún más los procesos tecnológicos inherentes al aislamiento de EV y su posterior funcionalización a fin de fusionarlos en una estrategia de investigación de frontera altamente cooperativa.

03
Los Resultados

Las propiedades metabólicas de las fuentes naturales de EVs se investigan activamente en todo el mundo en función de las prioridades estratégicas, con un enfoque que prioriza dichas fuentes naturales. Este proyecto contribuirá a las agendas de investigación nacionales y de la UE ampliando las fronteras de la biotecnología, resultados de trabajo fundamentales de traducción en oportunidades dirigidas al mercado relacionadas con los sectores nanomedicina, cosméticos y nutracéuticos.



La aproximación científica de Ves4us responde a las necesidades sociales y de mercado. Los mundos de la ciencia básica y la industria caminarán juntos para llegar a resultados prometedores en tecnologías emergentes, biotecnología, nanotecnología y biociencia.

Laura Corcuera
CONSULTORA SENIOR DE PROYECTOS DE I + D EN ZABALA Y COORDINADORA DEL PROYECTO VES4US

9.2.26 ZABALA

PROJECT

Ves4us

Extracellular vesicles for molecular delivery system

The Ves4us project is an European initiative funded by the Horizon2020 Program of the European Commission under Future Emerging Technologies (FET) call. Its main objective aims at generating a broad range of radically new high-value products in the fields of nutrition, cosmetics and health sciences based on natural source-derived extracellular vesicles (EVs), which could be used as new generation vehicles for specific molecular delivery.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 801338

6	36	€ 3M	6
PARTNERS	MONTHS	TOTAL BUDGET	COUNTRIES

IN ONE CLICK

Project
VES4US

Programme
HORIZON 2020

Period
2018-2021

Sector
RESEARCH

Web
www.ves4us.eu

PDF Download

01
The Challenge

The discovery of EVs as natural carriers of functional small molecules and proteins has raised great interest in the drug delivery field as it may be possible to harness these vesicles for the therapeutic delivery of peptides and synthetic drugs. As well as, the development of new EV related technologies that haven't been used until now.

02
Solutions

To develop a biocompatible and cost-effective vesicle based drug delivery system, which would enhance bioavailability and improve the efficacy and safety of loaded bioactive compounds. It proposes a high-risk high-gain approach to further develop the technological processes inherent to EV isolation from a natural source and their subsequent functionalization in the view to amalgamate them in a highly cooperative frontier research strategy.

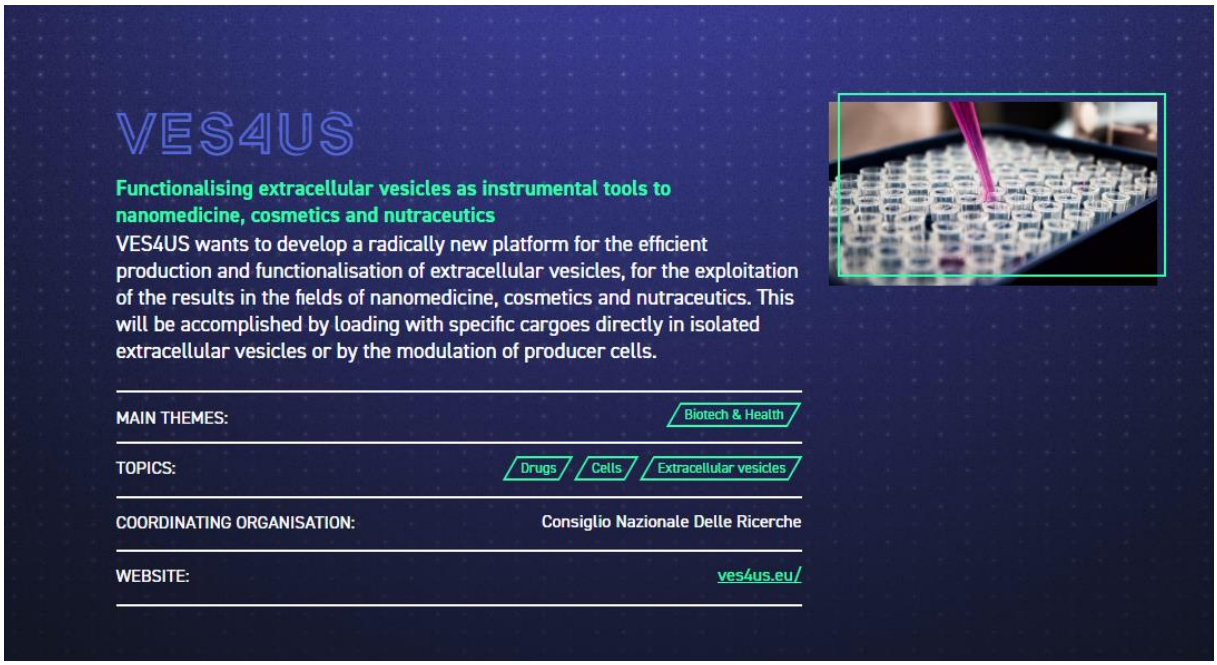
03
Impacts

The metabolic attributes of natural source EVs are actively researched worldwide to address strategic priorities from sustainable sources. This project will contribute to national and EU research agendas providing a new EU perspective on frontier biotechnology, translation fundamental work outputs into market-led opportunities relevant to the nanomedicine, cosmetic and nutraceutics sectors.

In Ves4us the scientific approach is focused on market and social needs. Basic science and industrial worlds will work together to reach fruitful results in breakthrough emerging technologies and knowledge for biotechnology, nanotechnology and bioscience sectors.

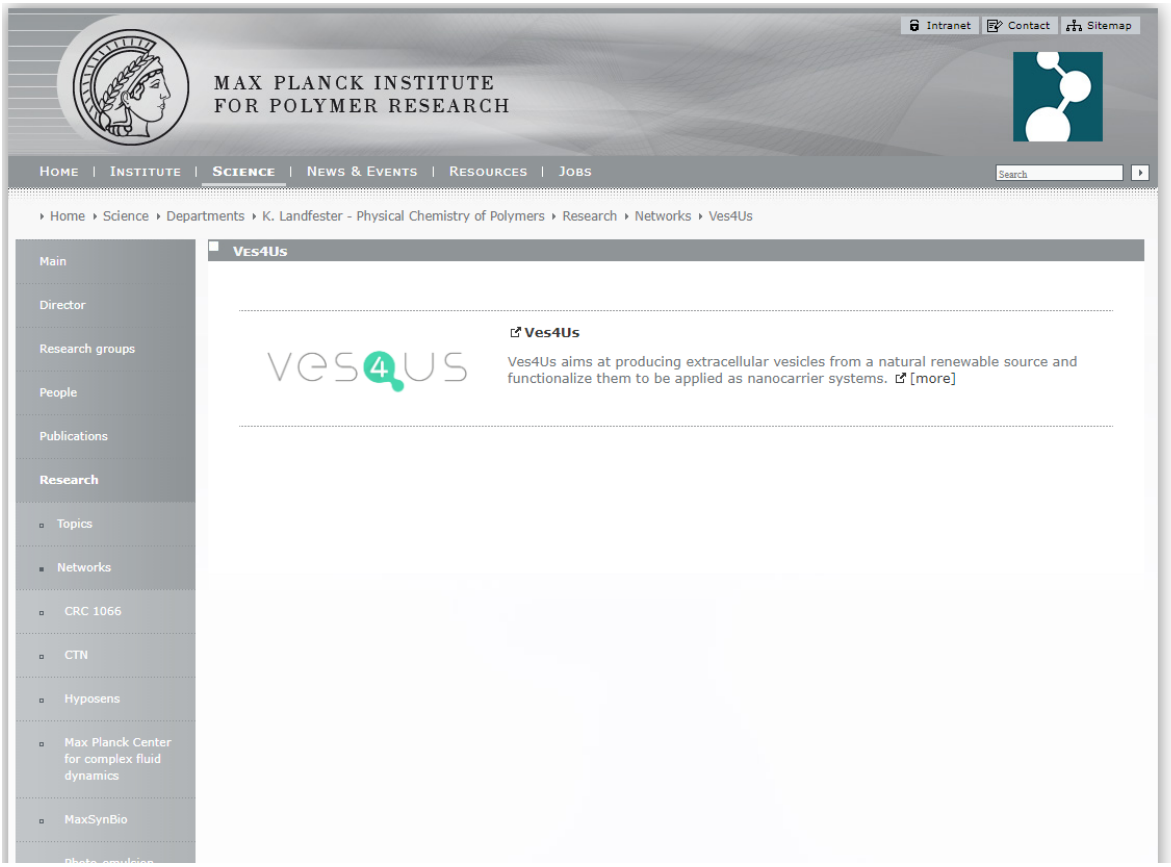
Laura Corcuera
SENIOR R&D CONSULTANT AND COORDINATOR IN VES4US PROJECT

9.2.27 FETFX



This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.28 MPIP



This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

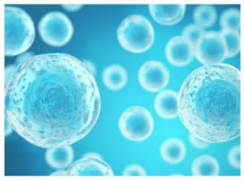
9.2.29 MPG

New treatment approaches using miniature cells

Researchers going to use special cell types as drug carriers in the future – start of the research project "Ves4Us"

November 16, 2018

Modern drugs typically take effect in the whole body and not just at the parts to be treated. With the development of drug carriers in the nanometer range, scientists want to bring the active component to where it should have an effect in the future. For this purpose, the surfaces of the carriers are modified to allow a specific "docking". The carriers produced so far were made from biocompatible materials, such as e. g. starch. Nevertheless, the biocompatibility and the time the carriers circulate in the human body should be further increased in the future.



© Ves4Us

In the research project "Ves4Us", researchers from Italy, Ireland, Switzerland and Slovenia are now working on a new approach in cooperation with the Max Planck Institute for Polymer Research (MPI-P) in Mainz. The project uses so-called "extracellular vesicles". These are "miniature cells", which are also produced in the human body every day. They are mainly used for inter-cell communication, so they are excreted by certain cells and taken up by other cells. In their characteristics, such as for example their surface, they are therefore very similar to "real" cells. As a result, the vesicles have the best prerequisites for a very good biocompatibility and the required long circulation time in the body.

The aim of the project "Ves4Us" is to generate extracellular vesicles in large quantities. Scientists around Dr. Svenja Morsbach, group leader at the MPI-P in Mainz, and Prof. Katharina Landfester, director at the MPI-P, work in the project to equip these vesicles with a kind of "address label", so that they can act in the body at precisely defined places. For this purpose, certain proteins are attached to the vesicle surface, which then allow in a sort of key-lock principle to dock the drug carrier to certain tissue types.

In addition to the surface modification, the vesicles produced by the cooperation partners are opened with suitable technical methods, filled with an active substance and then resealed.

"We will first test this with dye," says Svenja Morsbach. "If we can fill the vesicles reproducibly with dye, we can replace the dye with drugs and then test the effectiveness of the vesicles to treat various diseases."

The project runs for three years under the European Horizon2020 program FET-OPEN and will receive a total of 3 Mio. Euros. Of this, a share of 300.000 Euros is attributable to the work of the Mainz scientists.

Weitere Informationen

https://ves4us.eu - Webseite des Projekts Ves4Us

Dr. Svenja Morsbach
Group Leader
Phone: +49 6131 379-225
Email: morsbachs@...
Homepage

Prof. Dr. Katharina Landfester
Director
Phone: +49 6131 379-170
Email: landfester@...
CV and Research Interest

Pressekontakt

Dr. Christian Schneider
Press officer
Phone: +49 6131 379-132
Email: pr@...

http://www.mpip-mainz.mpg.de/5494413/PM2018-27

9.2.30 CORDIS

1st EVs Clustering Event in Palermo

Last week the 5 ongoing FET-funded European projects on EVs: INDEX, VES4US, EVFOUNDRY, GLADIATOR and MINDGAP met in Palermo together with relevant people in the world of extracellular vesicles to celebrate the 1st EVs Clustering Event.

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The event broadcasted the first part live through the social networks of the VES4US project. The five projects funded by the European Commission's FET-OPEN Programme presented themselves during the first part of the event. The session was introduced by Giuseppe Martini, FET expert and founder of Bioestella who spoke about Horizon Europe perspectives, and closed by Barbara Gerratana, project officer of INDEX and VES4US who talked about the new EIC and its offerings.

About 1st EVs Clustering Event in Palermo
The day continued with two round tables on two hot topics for EVs research: EVs-production of High-Grade formulations: technologies and sources, sustainable, appealing for the society and environment and Applications of EVs: biomedical use, nutraceutics, cosmetics. And it finished with a THINK OUT OF THE BOX session in which the invited external panellists from Biostella, Nanoview BioSciences, IntrepidaBio, Anasysta and Fondazione Ri.MED exchanged views on the EVs market and then judged the exploitation activities and innovation stories of the five FET projects: INDEX, VES4US, EVFOUNDRY, GLADIATOR and MINDGAP.

This event is of great importance because it is the first in which projects financed by FET-Open join with the same theme, the Extracellular Vesicles and their sound relevance in the EU research agenda. The main action of the day was the signing of the letter of intent by the 5 coordinators of the project in which:

"The undersigned coordinators of the 5 running FET-Open projects featuring extracellular vesicles (EVs) science and technology [...] commit to deliver a shared "EV manifesto" by November 31st 2019 highlighting the non-incremental, foundational promises of these Precision Nanoparticles 2.0 which are poised to EVs are reshaping our perspective on life sciences, environment and public health."

Taking the baton from this first event, next year the 2nd EVs Clustering Event will be hosted by the MINDGAP project in Coimbra (Portugal).

This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 801338 [D7. 4] First report on outreach activities

9.2.31 FETFX

Mailing FETFX

9.2.32 LINKEDIN

1st EVs Clustering Event in Palermo

Publicada el 12 de noviembre de 2019

Laura Corcuera
Senior R&D Consultant; Project Manager

3 artículos ✓ Siguiendo

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Taking the baton from this first event, next year the **2nd EVs Clustering Event will be hosted by MINDGAP project in Coimbra (Portugal)** ☺ 💛 .

Denunciar esto

Publicado por

Laura Corcuera
Senior R&D Consultant: Project Manager
Publicado • 3 meses

3 artículos ✓ Siguiendo

I was honoured to present the 1st EVs Clustering Event in Palermo hosted by #VES4US with 51 top scientists in Europe from 5 FET funded projects: #INDEX, #VES4US, #EVFOUNDRY, #GLADIATOR, #MINDGAP. Highlights of the event and main conclusions in my article. #EVsClusteringEvent #Extracellularvesicles

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