

Collaborative project

Project acronym PATHWAY-27

Project title PIVOTAL ASSESSMENT OF THE EFFECTS OF

BIOACTIVES ON HEALTH AND WELLBEING. FROM

**HUMAN GENOMA TO FOOD INDUSTRY** 

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## 2 SUMMARY

D8.10 focuses on the dissemination activities carried out between month 48 and 60. Within this period, different communication tools (e.g. leaflets, research summary sheets, posters and presentations) were used to promote PATHWAY-27 in different events. The continuous communication between project partners was maintained by updating regularly the official website.

In this period, the operation of the young researcher group was placed to the official PATHWAY-27 LinkedIn group, which has now 35 members. The project was presented on 11 meetings, 5 conferences, 8 workshops and on 2 Open Days. The research summary sheets for all WPs and both project leaflets were distributed in the events. Furthermore, 23 presentations were held in different events to communicate the results of the project.

## 3 STATE OF PROGRESS OF THE COMMUNICATION/ DISSEMINATION AND KNOWLEDGE TRANSFER ACTIVITIES

#### 3.1 Communication tools and channels

The whole dissemination strategy of the PATHWAY-27 project was developed in the <u>first</u> <u>period</u> (month 1 - 6) with all its elements (general and specific objectives, target groups, key messages, dissemination and communication channels, dissemination tools). It is reported in D8.2 together with the objectives of the dissemination activities, and that document should be considered as the basis of the communication and technology transfer activities.

The following tools were developed: a project web site with public, intranet and blog levels, Facebook page, the project logo, the core presentation, a presentation template, and the leaflet developed in English and translated into five languages, a poster developed in English and translated into 5 languages, the brochure, the templates for deliverable reports and research summary sheets.

During the <u>second period</u>, (month 6 - 12) mostly general project dissemination activities were carried out.

During the <u>third period</u>, (month 13 - 30) mostly general project dissemination activities were carried out together with some specific ones on the typical difficulties of the industry related to the development of BEFs. The project partners implemented a variety of dissemination activities on a broad scale such as:

- regularly updating the website (news, publications, state of milestones, information on the contact list),
- collecting input for 'Template for expected/available results' (Table 2),
- organising a small team of young scientists,
- collecting ideas for publishable contents
- compiling a list of possible news issues in different networks/channels,
- 3 general project videos,



preparing the draft of the second project leaflet.

During the <u>fourth period</u> (months 30-48), general dissemination activities were continued and further specific ones were carried out related to the developed drafts of the industry and scientific guidelines and to the research work carried out in work package 3.

The project partners were involved in a broad range of dissemination activities:

- regularly updating the website (news, events, publications, state of milestones, information on the contact list),
- developing the second project leaflet and providing the translations,
- updating the core presentation of the project,
- placing the young researcher group to the official PATHWAY-27 LinkedIn group,
- updating the social media channels of the project,
- collecting input for the 'Template for expected/available results' (Table 2).

During the <u>fifth period</u> (months 48-60), general dissemination activities and activities related to the dissemination of the guidelines were continued.

The project partners were involved in a broad range of dissemination activities:

- regularly updating the website (news, events, publications, results of the project, state of milestones, information on the contact list),
- developing the second press release (Annex 1)
- developing the third general leaflet and providing the translations
- developing the short summaries for the guidelines and providing the translations
- updating the social media channels of the project
- collecting input for the 'Template for expected/available results' (Table 2).

CBHU continuously takes care of updating the <u>dissemination plan</u> in collaboration with the project partners, via the collaborative workspace of the official project website. The dissemination plan is updated regularly.

#### 3.1.1 Expected/available results of the project

During the project, the expected and the achieved results available for communication were monitored and documented, and the exploitable results had to be identified as early as possible. Identification of exploitable results in time ensures that the communication activities do not compromise the Intellectual Property Rights. The list of expected and already achieved results was maintained in close collaboration with the Project management team, the relevant Work Package leaders and all project partners. Any potential confidentiality concerns had to be indicated.

CBHU developed a table for collecting information about activities in line with the dissemination plan. This table was circulated among the WP leaders asking them to send their contribution. The final version of the list of results is provided in D8.11- Final report on exploitation and Technology Transfer Plan.



## 3.1.2 Team of young scientists

Related to the Level 3 of the website (an internal blog with restricted access) as a part of the Task 8.1. (Establishment of general communication channels and plans, communication with stakeholders and consumers), a group of the young researchers within the project was created. The group was led by CBHU. The main aim of the group was to facilitate communication and share knowledge between young researchers.

Beyond the project activities of PATHWAY-27 the LinkedIn group is sustained and now serves as the platform for the young researcher group, allowing more continuous communication and the involvement of more people into the group. News, publications, article submission possibilities are shared in the group.

## 3.2 Dissemination and knowledge transfer activities

This chapter aims to present the dissemination activities carried out between the month 48 and 60. It presents these activities in two sub-chapters:

- Dissemination activities between M48-60
- Dissemination activities related to the guidelines between M48-60

#### 3.2.1 Dissemination activities between M48 and 60

The following types of dissemination activities have been carried out from month 48 to month 60:

- dissemination of PATHWAY-27 at 5 Conferences (in total: 32),
- presentation of PATHWAY-27 at 11 Meetings (in total: 39),
- WP4 Research Summary Sheet was prepared,
- the third general leaflet was prepared and translated,
- the second press release was prepared,
- 23 presentations of the PATHWAY-27 project within different events (in total: 64),
- 2 press releases (in total: 18),
- **1 articles** (in total: 5),
- 3 publications (in total: 20),
- 8 workshops (in total: 16),
- 2 Open Days (Campden BRI UK, 2017 and Hungary Open Days, 2017).

Table 1. provides the detailed records of communication/dissemination / knowledge transfer since the beginning of the project

Table 2. provides the regional distribution of the events (conferences, meetings, workshops, exhibitions), which were used for the purpose of communication/dissemination / knowledge transfer

Table 3. lists the scientific publications approved.

### 3.2.2 Dissemination activities related to the guidelines between M48 and 60

The following types of dissemination activities related to the guidelines developed within WP7 have been carried out from month 48 to month 60:

- dissemination of PATHWAY-27 at 4 Conferences (in total: 6),
- presentation of PATHWAY-27 at 5 Meetings (in total: 7),
- 7 workshops (in total: 8),
- 2 Open Days (Campden BRI UK, 2017 and Hungary Open Days, 2017),



- 10 presentations of the guidelines within different events (in total: 17),
- short summaries for the guidelines were prepared and translated.

#### The major events include:

- 5th International Conference on Foodomics 2018- from Data to Knowledge, 10-12 January, 2018, Cesena, Italy.
- PATHWAY-27 Scientific Guidance Workshop, 21 September 2017, Brussels, Belgium.
- PATHWAY-27 Industry Guidance Workshop 22 September 2017, Brussels, Belgium.
- Campden BRI Member Interest Group Meeting, 4 October 2017, Chipping Campden, UK.

#### Further dissemination activities are in progress:

- Scientific publications will be prepared after the evaluation of the results of the large intervention study.
- 2 press articles are in progress. One on the Industry Guidelines and one on the optimization of the clinical study design for assessing the efficacy of functional foods.

Table 1 Detailed records of communication/dissemination / knowledge transfer

Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Article	Pathway 27 EU bioactive foods project a step closer to health claims guidelines	2017-09-25	Nutraingredients	Media	N/A	Worldwide	Convance	All partners
Conference	5th FoodOmics International Confernece	2018-01-10	Cesena, Italy	Higher education/Resear ch	150	EU, Worldwide	All Partners	All Partners
Conference	International conference on Food Science And Technology	2017-11-13	Rome Italy	Higher education/Resear ch	50	Rome Italy	EGE	INRA, ABRO, UNIBO
Conference	TÉT Platform-Az élelmiszerjelölés a fogyasztók szemében és az aktuális szabályozás tükrében - új kezdeményezések a tápértékjelölésben	2017-07-07	Budapest, Hungary	Higher education/Resear ch, Policy makers, Civil Society	20	Hungary	СВНИ	N/A
Conference	Élelmiszeripari tájékoztató fórum	2017-05-30	Lébény, Hungary	Industry, Higher education/Resear ch, Policy makers, Civil Society, Media, Other	30	Hungary	СВНИ	N/A
Conference	XLIX. Konzervipari napok	2017-05-09	Nagykőrös, Hungary	Industry, Policy makers	50	Hungary	СВНИ	N/A
Exhibition	ACR Industry Enquete	2017-10-03	Vienna, Austria	Higher education/Resear ch	150	Austria, Germany	LVA	n/a
Exhibition	Be Curious 2017	2017-03-25	University of Leeds	Civil Society	1000	UK	ULE	Samantha Sutulic







Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Meeting	FDE Science Group	2017-11-28	Brussels, Belgium	sels, Belgium Industry 15 Europe		LVA	CBHU	
Meeting	22nd Meeting of the European Collaboration of National Food Technology Platforms		Stiges, Spain	Industry	30	EU	СВНИ	N/A
Meeting	Expert Gremia Baking additives	2017-11-08	Vienna, Austria	Industry	15	Austria	LVA	LVA
Meeting	Expert Gremia Convenience Food	2017-10-17	Vienna, Austria	Industry	20	Austria	LVA	•
Meeting	Campden BRI MIG	2017-10-04	Chipping Campden, UK	Industry	20	UK	СВНИ	N/A
Meeting	Innoskart Cluster Meeting	2017-09-26	Budapest, Hungary	Industry	30	Hungary	СВНИ	N/A
Meeting	ACR EU Project Circle	2017-09-21	Vienna, Austria	Policy makers	15	Austria	LVA	n/a
Meeting	Expert Gremia milling industry	2017-09-13	Vienna, Austria	Industry	10	Austria	LVA	LVA
Meeting	Expert Group Conveneince Food	2017-06-22	Vienna, Austria	Industry	15	Austria	LVA	LVA
Meeting	21st Meeting of the National Food Technology Platforms	2017-05-26	Madrid, Spain	Industry	30	Europe	СВНИ	N/A
Meeting	EU MERCI Plenary Meeting	2017-02-24	Rome	Higher education/Resear ch	70	Central Europe	LVA	LVA
Other	Poster "Effects of long- term docosahexaenoic acid treatment on epigenetic gene regulation and gene expression in HepG2 human liver cancer cells"	2018-01-10	5th International Conference on FoodOmics, Cesena (Italy)	Industry, Higher education/Resear ch	NA	World	DKFZ	DKFZ



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Other	Poster "Effect of docosahexaenoic acid (DHA) on epigenetic gene regulation in adipocytes."	2018-01-10	5th International Conference on FoodOmics, Cesena (Italy)	Industry, Higher education/Resear ch	NA	World	DKFZ	DKFZ
Other	Poster "Effects of food matrix on bio- accessibility of docosahexaenoic acid (DHA)"	2018-01-10	5th International Conference on FoodOmics, Cesena (Italy)	Industry, Higher education/Resear ch	N/A	World	UNIBO	-
Other	Poster "Transcriptomics analysis of hepatic responses to DHA, propionate, and protocatechuic acid supplementation"	2018-01-10	5th International Conference on FoodOmics, Cesena (Italy)	Industry, Higher education/Resear ch	N/A	World	UNIBO	SDU, DKFZ
Other	Poster 2017-11-20 Society of Hull Nutrition (SIN		National Congress of the Italian Society of Human Nutrition (SINU), Turin (Italy)	Industry, Higher education/Resear ch, Policy makers	N/A	Italy	UNIBO	-
Other	Campden BRI Open Day	2017-06-07	Chipping Campden, UK	Industry	500	EU	СВНИ	IFN
Presentation	PATHWAY-27 Industry Guidelines and Recommendations for Developing Products with Health Claims	2018-01-11	5th FoodOmics, Cesena, Italy	Higher education/Resear ch, Other	150	EU, worldwide	СВНИ	All Partners
Presentation	Guidelines for the scientific substantiation of health claims on bioactive-enriched foods	2018-01-10	5th FoodOmics; Cesena, Italy	Higher education/Resear ch	150	EU, worldwide	ILSI	WP7



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Presentation	Evaluating the effect of DHA-anthocyanin supplementation on the odor profile of pancakes by means of machine olfaction technology	2018-01-10	5th International Conference on FoodOmics, Cesena (Italy)	Higher education/Resear ch	N/A	World	ADX	UNIBO, INRA
Presentation	Adatmenedzsment és biostatisztikai kihívások a PATHWAY-27projektben	2017-12-12	Campden BRI Hungary Open Day- Final Hun Workshop	Industry, Policy makers, Civil Society	60	Hungary	ADWR	N/A
Presentation	Tej-és tojásalapú termékek fejlesztése és gyártása a PATHWAY-27 projektben	2017-12-12	Campden BRI Hungary Open Day- Final Hun Workshop	Industry, Policy makers, Civil Society	60	Hungary	ADX	N/A
Presentation	Fogyasztói és érzékszervi vizsgálatok speciális elemei az egészséges táplálkozást szolgáló termékek fejlesztése során	2017-12-12	Campden BRI Open Day- Final Workshop	Industry, Policy makers, Civil Society	60	Hungary	СВНИ	N/A
Presentation	Jogszabályok áttekintése a termék összetételétől a vállalkozás önellenőrzéséig	2017-12-12	Campden BRI Hungary Open Day- Final Hungarian workshop	Policy makers, Civil Society	60	Hungary	СВНИ	n/A
Presentation	PATHWAY-27-Ipari útmutató az egészségre vonatkozó állítással ellátott termékek fejlesztéséhez	2017-12-12	Campden BRI Hungary open Day- Final Hun Workshop	Industry, Policy makers, Civil Society	60	Hungary	СВНИ	N/A



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Presentation	Food bioactives and their metabolites: effects on transcriptome in cultured hepatic cells [Componenti bioattivi degli alimenti e loro metaboliti: effetti sul trascrittoma in cellule epatiche in coltura]	2017-11-20	National Congress of the Italian Society of Human Nutrition (SINU), Turin (Italy)	Industry, Higher education/Resear ch, Policy makers	N/A	Italy	UNIBO	SDU, DKFZ
Presentation	PATHWAY-27- Pivotal Assessment of The effects of bioactives on Health and Wellbeing. From human genoma to food industry- Industry Guidelines on products with health claims	2017-11-16	22nd Meeting of the European Collaboration of National Food Technology Platforms	Industry	30	EU	CBHU, LVA	LVA, CBHU
Presentation	EHEDG national Workshop	2017-11-10	Vienna, Austria	Industry	85	Austria	LVA	n/a
Presentation	Project PATHWAY-27 as an example of how obtain and demonstrate the beneficial effect of bioactive enriched food:	2017-10-04	Spanish Food For Life Platform. Madrid (meeting of the group Food and Health at the Spanish Ministry of Agriculture and Fisheries, Food and Environment)	Industry	50-100	Spain	ainia	Unibo, Campden BRI Hungary, ILSI
Presentation	Introduction of the Industry Guidance Paper	2017-10-04	Campden BRI MIG, Chipping Campden, UK	Industry	15	UK	СВНИ	N/A



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Presentation	Az élelmiszerekkel kapcsolatos állítások igazolása és a PATHWAY- 27 pályázat	2017-09-26	Innoskart Cluster Meeting	Industry	30	Hungary	СВНИ	N/A
Presentation	LVA Summer School	2017-09-14	Strobl, Austria	Industry	20	Austria	LVA	n/a
Presentation	Working group at Copa Cogeca	2017-06-27	Brussels	Industry	35	Europe	LVA	LVA
Presentation	FIAA Annual Welcome Fair	2017-05-30	Vienna	Industry	300	Austria and neighbourin g countries	LVA	LVA
Presentation	Industry Guidelines on products with health claims	2017-05-26	21st Meeting of the National Food Technology Platforms	Industry	30	Europe	СВНИ	N/A
Presentation	Hungarian Consultation on the Industry Guidelines	2017-05-09	Budapest, Hungary	Industry, Policy makers	13	Hungary	СВНИ	N/A
Presentation	Tápérték adatbázisok és az egészségre vonatkozó állításokat tartalmazó élelmiszerek fejlesztésének európai ipari útmutatója (PATHWAY-27)	2017-05-09	XLIX. Konzervipari Napok, Nagykőrös Hungary	Industry, Policy makers	50	Hungary	СВНИ	N/A
Presentation	FIAA chairmen conference	2017-04-06	Vienna, Austria	Industry	35	Austria	LVA	LVA
Presentation	Directorate Sweets and Confectionary Industry	2017-04-04	Vienna, Austria	Industry	25	Austria	LVA	
Presentation	ACR SPL meeting	2017-01-18	Vienna	Other	15	Austria	LVA	LVA



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Press release	Érdeklődik az egészségre vonatkozó állítással rendelőző termékek fejlesztés iránt? A PATHWAY-27 segít Önnek!	2018-01-29	http://ots.mti.hu/hirek/133739/erdeklodik_az_egeszsegre_vonatkozo_allitassal_rendelozo_termekek_fejlesztes_irant_a_pathway-27_segit_onnek	Industry, Higher education/Resear ch, Policy makers, Civil Society, Media, Other	N/A	Hungary	СВНИ	N/A
Press release	https://www.nak.hu/aga zati- hirek/elelmiszeripar/150- gabona- edessegipar/95533-a- termekfejlesztes-uj- iranya	2017-11-30	Élelmiszer online	Industry, Media	Élelmisz er online	Hungary	СВНИ	N/A
Project meeting	5th Annual Meeting	2018-01-09	Cesena, Italy	Other	30	All project Partner	UNIBO	All project Partner
Project meeting	4th Annual Meeting	2017-03-13	Karlsrue, Germany	Other	30	All project Partner	MRI	All project Partner
Web	EFAD newsflash- 12.10.2017	2017-10-12	http://mailchi.mp /2f45d91d0de5/e fad-newsflash-12- october- 2017?e=1a2cf1d9 d7	Industry, Higher education/Resear ch	n/a	EU	Unibo	N/A
Web	Foodlab (Erasmus+ project) Innofood database	2017-02-21	http://innofood- db.eu/frontpage	Industry, Higher education/Resear ch	N/A	EU	СВНИ	N/A



Туре	Title	Date	Place	Audience	Audienc e size	Countries	Main leader	Contributor
Workshop	AZ EGÉSZSÉGRE VONATKOZÓ ÁLLÍTÁSOKAT TARTALMAZÓ ÉLELMISZEREK FEJLESZTÉSE" című útmutató ismertetésére	2017-11-28	Budapest, Hungary	Industry, Policy makers	36	Hungary	СВНИ	N/A
Workshop	PATHWAY-27- AZ EGÉSZSÉGRE VONATKOZÓ ÁLLÍTÁSOKAT TARTALMAZÓ ÉLELMISZEREK FEJLESZTÉSE" című útmutató ismertetése	2017-11-15	Budapest, Hungary	Policy makers, Industry	32	Hungary	СВНИ	N/A
Workshop	Egészségre vonatkozó állításokat tartalmazó élelmiszerek fejlesztése c. útmutató bemutatása	2017-11-15	Budapest, Hungary	Industry	36	Hungary	СВНИ	N/A
Workshop	Industry Guidance Workshop	2017-09-22	Brussels, Belgium	Industry, Higher education/Resear ch, Policy makers	45	EU	СВНИ	All Partners
Workshop	Scientific Guidance Workshop	2017-09-21	Brussels, Belgium	Industry, Higher education/Resear ch, Policy makers	45	EU	ILSI Europe	All Partners
Workshop	Élelmiszeripari tájékoztató fórum	2017-05-30	Lébény, Hungary	Industry	32	Hungary	СВНИ	N/A
Workshop	PATHWAY-27 National Consultation on the Industry Guidelines	2017-05-09	Budapest, Hungary	Industry, Policy makers	13	Hungary	СВНИ	N/A



Table 2: The regional distribution of the events (conference, meeting, workshop, exhibition and open day) with the number of approximately number of participants

		Locati	ion		
Events	Western Europe	Central and Eastern Europe	South Europe	Other	Total
Conference / approx. No. of guests	2 / >200	3/ 100	-	-	5 / > 300
Meeting / approx. No. of participants	10/>240	1/30	-	-	11 / >240
Workshop / approx. No. of participants	2/ 90	6 />240	-	-	8 / 330
Open Day/ approx. No. of participants	1/>500	1/60	-	-	2/>560
In Total	15 / > 1030	11 / 430	-	-	26 /> 1460



Table 3: Approved scientific publications between M48-M60

ID	Title	First author	Other authors	Publicatio n type	Target/place	Submitte d	Status	Date of submissio n
1	Evidence of a DHA signature in the lipidome and metabolome of human hepatocytes	V. Ghini (GIOTTO)	Mattia Di Nunzio, Leonardo Tenori, Veronica Valli, Francesca Danesi, Francesco Capozzi, Claudio Luchinat, Alessandra Bordoni	Research article	Higher education/Rese arch	YES	Int. J. Mol. Sci	
2	Is cytotoxicity a determinant of the different in vitro and in vivo effects of bioactives?	M. Di Nunzio (Unibo)	Veronica Valli , Lidia Tomás-Cobos, Teresa Tomás-Chisbert, Lucía Murgui-Bosch, Francesca Danesi, Alessandra Bordoni	Research article	Higher education/Rese arch	YES	In preparation	
	The food matrix affects the anthocyanin profile of fortified egg and dairy matrices during processing and in vitro digestion.	Didier Dupont	Pineda-Vadillo C, Nau F, Guerin-Dubiard C, Jardin J, Lechevalier V, Sanz- Buenhombre M, Guadarrama A, Tóth T, Csavajda É, Hingyi H, Karakaya S, Sibakov J, Capozzi F, Bordoni A	Food Chem. 2017 Jan 1;214:486- 96. doi: 10.1016/j.f oodchem.2 016.07.049	Journal paper	Higher educatio n/Resear ch	Yes	Approved

## 4 Summary

Between M1 and 60, the dissemination activities have been performed successfully. In correspondence to the DoW, the following activities have been performed

- General communication tools
  - Website was created (<a href="http://pathway27.eu/">http://pathway27.eu/</a>)
  - o 2 press releases were prepared
  - o 2 project articles were prepared.
  - o Research summary sheets were prepared for all work packages
  - o 3 project leaflets were prepared
  - o In total 20 scientific publications were prepared
- The results of the project, and the Guidelines were presented at several international and national events reaching the defined target groups of the PATHWAY-27 project.







### 5 Annex 1- Second Press Release

Interested in developing foods with health claims? Let PATHWAY-27 guide you 10-12 January, Cesena, Italy

At the 5th FoodOmics conference, researchers from the EU funded PATHWAY-27 FP7 project presented their newly released comprehensive and practical guidelines for the development of products with health claims. Developed in close collaboration with stakeholders, the guidelines will help all those with an interest in health claims applications.

Health is one of the key drivers of consumer food choice. Products carrying a health claim may increase the intention to purchase, and the novelty of such products allows manufacturers to gain a greater profit margin than from a 'commodity' product.

The European Food Safety Authority provides guidance documents to support health claim applicants; however, the success rate of submitted applications has been disappointingly low. To help remedy this situation, PATHWAY-27 developed the following guidelines and recommendations:

- <u>Scientific Guidelines for the substantiation of health benefits</u> from a (bioactiveenriched) food. These guidelines explain how to assess the scientific evidence and how to design and conduct human intervention studies when the existing knowledge is insufficient to support the claim of interest.
- Industry Guidelines and Recommendations for developing products with health
   claims, with a particular focus on small and medium-sized enterprises (SMEs).
   These guidelines offer a structured product development approach addressing all aspects that SMEs and their suppliers of material, knowledge and related services should consider when designing products for health claim application in Europe.

Furthermore, a third guideline **for nutritional intervention studies** on bioactive-enriched foods effectiveness is under development.

With these guidelines, the PATHWAY-27 consortium aims to increase the innovation potential and competitiveness of food SMEs and to support the scientific community in generating high-quality evidence for health claims dossiers.

In the next days the PATHWAY-27 Scientific and Industry Guidelines will be uploaded in the project website (<a href="http://pathway27.eu">http://pathway27.eu</a>) and it will be possible to download them free of <a href="https://charge.">charge.</a>

"We hope that the food industry will make ample use of the freely available guidance produced by PATHWAY-27, so that future health claims applications are more successful", comments Prof. Alessandra Bordoni from the University of Bologna who coordinated the project.

Note to editors: The PATHWAY-27 project (<a href="http://pathway27.eu">http://pathway27.eu</a>) started in 2013 with the aim to better understand the physiological effects and mechanism of action of certain bioactive compounds and to develop bioactive-enriched foods with scientifically demonstrated impact on health, especially the Metabolic Syndrome. The project consortium includes 25 partners (universities, research institutes and SMEs) from all over Europe.

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