

### 3. PERIODIC REPORT

3.1. Publishable summary .....	2
3.2. Core of the report for the period: Project objectives, work progress and achievements, project management .....	8
3.2.1 Project objectives for the period .....	8
3.2.2. Work progress and achievements during the period .....	10
3.2.3. Project management during the period.....	27
3.3. Deliverables and milestones tables .....	29
3.4. Explanation of the use of the resources and financial statements .....	33
3.5. Appendixes .....	48

### **3.1. Publishable summary**

#### **A summary description of the project context and objectives**

Functional foods, nutraceuticals, natural health products (NHP) represent one of the fastest growing areas of research and development leading to novel products intended for disease risk reduction and proven human health promotion. The current global market is speculated to be around of 100-150 billion Euros annually. Therefore, there is an increasing demand in this area.

The main objective of this project was (1) to improve research potential of existing functional foods, nutraceuticals, and NHP research laboratory within Food Institute, (2) to coordinate networking and co-operative research activities in this fostering field through a number of scientific and technical events, and (3) to integrate FP7/Horizon 2020 projects. To fulfil the objectives of the project, the following work packages had been foreseen.

**WP 1:** Project management

**WP 2:** Improving infrastructure

**WP 3:** Supporting research capacity of human resources

**WP 4:** Organising scientific events and networking

**WP 5:** Participating scientific events

**WP 6:** Communication and dissemination

**WP 7:** Technical side visits

**WP 8:** Exchange of researchers

The main objectives of each WP, progress, and achievements for the final report are given in detail below as well as in **section 3.2.1**.

#### **A description of the work performed since the beginning of the project and main results achieved so far:**

The work in all WPs was completed successfully, with only a few delays (**see section 3.2.2**). Main results achieved during the project are given below:

- Six new and additional five equipment, as well as 12 scientific books were purchased (**APPENDIX-1**).
- Five experienced researchers were recruited.
- Three advisory board meetings were organised.
- Three brokerage events, three seminars, and three open-days were organised.
- The 2014 Annual Conference and Exhibition of the International Society for Nutraceuticals and Functional Foods (ISNFF) was organised in Istanbul between October 14 and 17, 2014 (**APPENDIX-2**).
- Thirty two oral/poster presentations were given at international scientific congresses.
- Project web-site was developed and regularly updated.
- Three newsletters were published and circulated (one newsletter annually).
- Around 1000 leaflets were prepared, printed, and circulated.
- Under exchange of researcher WP, most activities were completed except 3 researchers whom could not make due to unforeseen circumstances beyond our control. These were confirmed with the Project Officer.
- Twenty nine deliverables were prepared and successfully submitted to ECAS on time.
- Sixteen milestones were fully achieved in the project life time.
- Nine indicative topics from three brokerage events for Horizon 2020 were produced and shared (**APPENDIX-3**).
- Project was successfully managed without any major problems.

#### **The expected final results and their potential impact and use (including the socio-economic impact and the wider societal implications of the project so far):**

The success indicators of the project after 3 years are given as follow:

	Success indicators	Aim	Completion	
			1-36 months	After 3 years
1	Participating in Horizon 2020 consortiums	3	POSITIVE INNOFOOD Project-IPA InnoWaste MycoKey METROFOOD (ESFRI Roadmap) FAHRI (ESFRI Roadmap)	
2	Signing Memorandum of Understanding (MOU)	5	5	-
3	Oral/poster presentations at international scientific congress	15	32 (15 oral + 17 poster)	-
4	Scientific publications in peer reviewed journals	12/20	20	-
5	Number of hits of project website ( <a href="http://www.fp7-nutrahealth.com/">http://www.fp7-nutrahealth.com/</a> ) by users (including scientists and SMEs)	3000	34.009 hit by 24.12.2015	-
6	Completion of PhD from project personnel	2	Ongoing PhDs by E. Pelvan & T. Özturk	Completion
7	New equipment	100 run/year	Purchase and use	Continue to use efficiently
8	Independent mentions in the national media	5	8	-
9	New keywords in scientific publications	10	10	-
10	Requests by SMEs to engage in further collaborative actions	5/7	7	-
11	The requests by public organizations to engage in further collaborative actions	2	6	-
12	Increase in fund raising following the results of the actions	~20%	892.000 € 29.5 million €	-
13-a	International patent	1	PCT application number has been obtained	-
13-b	Commercialized food products	3	3	-
14	Approaching SMEs for further commercialization action	100	100	-

**1. Participating at least three (3) Horizon 2020 consortiums as partners:**

- a)** In the project life time, Project Coordinator (Cesarettin ALASALVAR) of NutraHEALTH Project Team participated in one project consortium under Horizon 2020 entitled as **“Interindividual variation in response to consumption of plant food bioactives and determinants involved - POSITIVE”**, FA COST Action FA1403 (coordinated by INRA-France). POSITIVE specifically addresses inter-individual variation in bioavailability and physiological responses to consumption of plant food bioactives in relation to cardiometabolic endpoints. It will promote the leadership of European research in this active and high-profile research field, provide scientific knowledge to regulatory authorities for a new generation of nutritional recommendations targeted to large population subgroups and foster the competitiveness of the European food industry by underpinning the development of new functional/customized foods. Participating in POSITIVE will help Food Institute in the field of functional foods, nutraceuticals, and NHP within TUBITAK MRC Food Institute to be a part of a multi-disciplinary and multi-sectorial European network and to increase the current knowledge.
- b)** In the project lifetime, Project Coordinator (Cesarettin ALASALVAR) had also secured the implementation of the Instrument for Pre-Accession Assistance (IPA-funding mechanism of EU) project entitled as **“Development of research and innovation facilities for improving the regional competitiveness of food industry - INNOFOOD”**. The project with 29.5 million € budget (80% from EU fund and 20% from Turkish fund) aims to support the competitiveness of target regions, having an income per capita below the 75% of Turkish national average, by increasing exports of food and beverage sectors. NutraHEALTH Project Team has the position of project applicant and support the target region through a number of R&D and related activities, provide technology/knowledge transfer, networking, and innovation through the SMEs.
- c)** In the project lifetime, NutraHEALTH Project Team proposed a project entitled as **“Improving the Innovation Capacity of TUBITAK MRC Food Institute on Exploitation of Food Waste and By-Products through an Integrated Bio-refinery Approach - InnoWaste”** Final ID# of submission: 691967 under Horizon 2020-Twinn 2015 program as coordinator. This project proposal was a complete output of NutraHEALTH Project, since both the coordinator of proposed project (Dr. Ayse Karadag) was employed through NutraHEALTH Project and the partnership of this proposed project was established through NutraHEALTH Project activities of brokerage event, info days, and technical visits. The evaluation score (12) of the project was over the threshold value, but still it was not enough for the project to be funded. The project will be submitted to Twinn 2017 calls after making necessary changes and improvement according to evaluation score report (**APPENDIX-4**).
- d)** In addition, NutraHEALTH Project members involved in another Horizon 2020 Consortium that was Integrated and innovative key actions for mycotoxin management in the food and feed chain - MycoKey, call: H2020-SFS-2015-2; topic: SFS-13-2015. This project aims to propose integrated and innovative key actions for mycotoxin management in the food and feed chain to have safer and healthier food and will be implemented between 2016- 2020.
- e)** NutraHEALTH Project members involved in a consortium in the scope of 2016 ESFRI (the European Strategy Forum on Research Infrastructures) Roadmap- Domain: Health & Food. The name of the project is Infrastructure for Promoting Metrology in Food and Nutrition - METROFOOD (Infrastructure for Promoting Metrology in Food and Nutrition)
- f)** In the project life time, NutraHEALTH Project members also involved in a consortium in the scope of 2016 ESFRI (the European Strategy Forum on Research Infrastructures) Roadmap- Domain: Research Infrastructure. The name of the project is Design and Preparatory of Food and Health Research Infrastructure - FAHRI (Design and Preparatory of Food and Health Research Infrastructure)

**2. Signing at least five Memorandum of Understanding (MoU) with project partners:**

In the project life time, after preparing tentative draft of MoU, sharing it with partners and with the help of Business Development Department of TUBITAK-MRC to get started the legal procedure, five (5) MoU were signed the institutions from Europe, and they were currently under the internal procedure of TUBITAK to be signed by the President. Five Institutions that signed MoU with TUBITAK MRC were Food Biobased Research (The Netherlands), Kaunas University of Technology (Lithuania), Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences (Poland), Technical University of Denmark National Institute of Food (Denmark) and University of Wales Trinity Saint David (The United Kingdom) (**APPENDIX-5**).

**3. At least 15 oral/poster presentations at international scientific congress in the field of functional foods and nutraceuticals:**

The list of presentations (32 in total: 15 oral and 17 posters) at international scientific congress between 1<sup>st</sup> and 36<sup>th</sup> months of the project was given in **D.5.1 – D.5.3**.

**4. At least 20 scientific publications in peer reviewed journals:**

Although the number of scientific publications was determined as 12 in the DoW document, it was revised as 20 during the visit of the Project Officer in June 2014. The list of 20 publications in the project life time was given in **D.1.7**.

**5. At least 3000 hits of project website by users (including scientists and SMEs):**

The number of hits on the project web site can be followed by web site (<http://www.fp7-nutrahealth.com>) and it was 34.009 hit by 24.12.2015.

**6. Successful completion of two PhD from project personnel:**

There are two ongoing PhDs of Ebru Pelvan and Tarik Özturk who completed their laboratory studies and both are in the final process of writing their thesis. They are planning to have their defences by spring season of 2016 (**APPENDIX-6**).

**7. Each requested new equipment will be used at least 100 run per year:**

Those equipment foreseen to purchase in DoW document, were used efficiently during the project. The equipment purchased at the end of project with the remaining budget will be used efficiently in on-going and new projects.

**8. At least five independent mentions in the national media:**

In the project life time, NutraHEALTH project was placed in national media through different actions (**APPENDIX-7**). In the beginning of the project, job advertisements of NutraHEALTH were published in national food journals and web page of food technologists association. NutraHEALTH was cited in web pages of universities, scientific institutions through ISNFF 2014 conference that organized by the project team. NutraHEALTH project was also placed in national media through the 2<sup>nd</sup> Sabri Ülker International Science Award in Human Nutrition and Health that was given to NutraHEALTH Project members. This award was given to the project which aimed to encourage healthy nutrition and healthy lifestyles, concentrates on the topics namely food, nutrition and health and with the criteria that they should have been completed and industry applicable.

**9. At least 10 new keywords in scientific publications :**

In the project life time, there are some keywords that belong to NutraHEALTH Project research studies such as heart health sterol-enriched black tea, functional ice-tea. Although sterol has been used many times related to heart health until now, addition of this compound to black tea and ice tea formulation can be considered as first time. The researchers through

exchange activities of NutraHEALTH conduct studies about hazelnut peptides, bioavailability of hazelnut phenolic acids, apple oligomeric proanthocyanidins, metabolism of gamma valerolactones, fish oil enriched granola bars, brown seaweed antioxidant extract, super-critical extraction of black currant pomace oil, chromatic separation of hazelnut tannins, aroma compounds of instant black teas, and hazelnut procyanidins.

**10. At least five requests by enterprises (SMEs) to engage in further collaborative actions:**

Although the number of enterprises to engage further collaborative actions was determined as five (5) in the DoW document, it was revised as seven (7) during the visit of the Project Officer in June 2014. NutraHEALTH Project contacted seven enterprises in further collaborative actions. They can be listed as

- “Dardanel Önentaş Gıda”, related the use of fish oil in food formulations,
- “Ulker NorthStar Innovation and AKSU Vital”, related to have functional food formulations and dietary supplements,
- “Biota Lab.”, collaboration in two national R&D projects to develop functional food ingredient and cosmeceutical,
- “Gemma Food Aroma and Colors”, “Gebze Halk Ekmek”, and “Tiryaki Gıda”, related to develop a functional ingredient to reduce the risk of type II diabetes, and to produce  $\beta$ -glucan and its use in food formulations.

**11. At least two requests by public organisations to engage in further collaborative actions:**

NutraHEALTH Project Team closely worked with Food Engineering Departments of Istanbul Technical University and Hacettepe University as well as Medical Faculty of Karadeniz Technical University. We worked on functional instant tea project together with these partners. NutraHEALTH Project Team also started new collaborations with Medical Faculty of Recep Tayyip Erdogan University, Pharmaceutical Department of Eskisehir University, and Batı Akdeniz (West Mediterranean) Agriculture Research Institute in the scope of national R&D projects.

**12. Around 20% increase in fund raising following the results of the action**

The budget of INNOFOOD (IPA) project is about 29.5 million €. The budget of national R&D projects NutraHEALTH Project Team received funding was 892.000 € (2.677.323 TL), and the budget of TUBITAK MRC in Horizon 2020 - MycoKey Project was 170.000 € by now.

**13. At least one international patent and three commercialized food products**

NutraHEALTH Project members submitted an international application for patent of their functional tea product and obtained a PCT application number (PCT/IB2015/051765 “Water dispersible sterol/stanol enriched polyphenol rich herbal teas in aqueous or powdered forms to reduce total and LDL cholesterol levels), which is still under evaluation for the further step. In addition to functional ice tea, we produced pilot scale instant black tea, decaffeinated black tea, and functional Turkish yogurt drink (ayran) (**APPENDIX-8**). Tea products will be commercialized by ÇAYKUR Tea Processing Plant (it is the largest tea producing company in Turkey and produces more than 50% of Turkish tea). The “functional ayran” will be commercialised by Business Development Department of TUBITAK MRC.

**14. Approaching at least 100 SMEs for further commercialization action**

During seminars, open days, info-days and brokerage events, the list of the companies approached is given in **D.4.1 – D.4.3** and **D.6.2 – D.6.4**

The report to assist the Commission to obtain statistics and indicators on societal and socioeconomic issues addressed by the project is given in **D.1.8**. “*Report on Awareness and Wider Societal Implications*”.

**The address of the project public web-site, if applicable:**

The project web-site has been developed and regularly updated. It can be reached at [www.fp7-nutrahealth.com](http://www.fp7-nutrahealth.com). So far, the web-site has been visited around 34.009 hit by 24.12.2015 times.

## **3.2. Core of the report for the period: Project objectives, work progress and achievements, project management**

### **3.2.1 Project objectives**

The project has 8 WPs as given below. Detailed information for each WP and Task for 36 months is given in **section 3.2.2** and **3.2.3**.

**WP 1:** The main objective of this work package is to coordinate the whole project management. The specific objectives are as follows:

- to manage the project administrative and financial issues.
- to share the work among the project personnel.
- to manage the organisation of internal and external activities.
- to establish effective communication among the partnering organisations.
- to establish effective communication and harmony among WPs.
- to monitor objective achievements and deliverables.
- to participate steering committee/advisory board meetings and discuss the related issues.
- to monitor and measure the progress of work.
- to report all deliverables to EC.

The objectives of this WP were fully implemented, without any major concerns.

**WP 2:** The main objective of this work package is to improve/renew the existing S&T infrastructure of NutraHEALTHCentre in order to meet the requirements. The specific objectives are as follows:

- to purchase equipment and improve the S&T infrastructure of NutraHEALTHCentre.
- to purchase up-to-date scientific books.

The objectives of this WP were fully achieved. New instruments were also purchased with the approval of Project Officer.

**WP 3:** The main objective of this work package is to support the research capacity of human resources by employing four new Post-Doctorate/Experienced researchers for strengthening human potential of the NutraHEALTHCentre/Food Institute. Therefore, they will be full-time staff of NutraHEALTHCentre. The specific objectives are as follows:

- to recruit the new experienced researchers for strengthening research capacity of human resources.
- to increase the research capacity.

The objectives of this WP were fully achieved. Additional experienced researcher was also recruited with the approval of Project Officer.

**WP 4:** The main objective of this work package is to organise a number of scientific events and to improve networking in Turkey by bringing participants from around the globe, EU Member States, and Black Sea Economic Cooperation (BSEC) countries, which will allow direct dissemination of information and establish national/international information-sharing network on the discipline of functional foods, nutraceuticals, nutrigenomics, and NHP. The specific objectives are as follows:

- to organise seminars.
- to organise brokerage events for developing collaborative consortium for FP7/Horizon 2020.
- to organise an **International Congress on Functional Foods, Nutraceuticals, NHP, and Dietary Supplements**

The objectives of this WP were fully achieved.

**WP 5:** The main objective of this work package is to participate scientific events in this exiting field. The specific objectives are as follows:

- to participate scientific events (congress, seminars, workshops, short courses, brokerage events).
- to facilitate dissemination of research results of the NutraHEALTHCentre.
- to receive positive feedback on developing skills and relationship by direct participation and contacts with scientists from around the globe.

The objectives of this WP were mostly achieved. Details are given under Task 3.2.2 in the related WP.

**WP 6:** The main objective of this work package is to develop communication and dissemination trough a number of activities such as developing web-address, producing leaflets, and organising open-and info days, and attending food exhibitions. The specific objectives are as follows:

- to develop a web-site for internal communication and external dissemination incorporating an interactive SME tool.
- to promote awareness of new developments relating to the characteristics and benefits of functional foods, nutraceuticals, and NHP through various output media.
- to organise info-days for improving regional competitiveness in various regions of Turkey.

The objectives of this WP were fully achieved.

**WP 7:** The main objective of this work package is to arrange short-term technical visits to project partnering organisations in order to collect and share information about latest development, laboratory systems, ongoing projects, and exchange ideas for mutually beneficial collaborative FP7/HORIZON 2020 projects. Technical visits to collaborators should be seen as a good chance not only to observe the recent advances in the relevant research area but also to seek future collaborations. The specific objectives are as follows:

- to visit well-established functional foods and nutraceutical research centres and leading SMEs.
- to learn and gain from the experience and technologies of visited bodies.
- to explore the possible cooperation between NutraHEALTHCentre and visited entities.
- to improve networking and dissemination.

The objectives of this WP were achieved with slight changes. Technical site visits to some foreseen organisations could not be arranged so that technical visits were performed to other organisations.

**WP 8:** The main objective of this work package is to organise exchange programmes (through trans-national two-way secondments of researchers) for new and existing researchers where needed in the field of functional foods, nutraceuticals, and NHP at both NutraHEALTHCentre and outstanding partnering organisations in EU Member States, which will bring new skills to the centre and expose staff to working practices in EU institutes, universities, and leading companies. The specific objectives are as follows:

- to exchange of researchers between NutraHEALTHCentre and European partnering organisations.
- to improve skills and research capacity of NutraHEALTHCentre's staff in the discipline of functional foods, nutraceuticals, and NHP.
- to improve networking and exchange of know-how and experience.
- to improve career development.

The objectives of this WP were achieved with slight changes, due to some unpredictable problems such as legal employment procedures, maternity of newly recruited personnel, and changes in the strategic working topics of the foreseen partnering organisations. To achieve the objectives of WP, some organisations to collaborate the exchange programs were changed with the approval of the Project Officer. See detailed information in Section 3.2.2.

### 3.2.2. Work progress and achievements during the period

Work package number	WP 2	Start date or starting T1 event:
Work package title	Improving infrastructure	
Activity type	SUPP	
Participant number	1	
Participant short name	TUBITAK	
Person-months per participant	4	

**Objectives:**

The main objective of this work package is to improve/renew the existing S&T infrastructure of NutraHEALTHCentre in order to meet the requirements. The specific objectives are as follows:

- to purchase equipment and improve the S&T infrastructure of NutraHEALTHCentre.
- to purchase up-to-date scientific books.

The objectives of this WP were fully achieved (see **D.2.1**). With the approval of the Project Officer, the remaining budget after purchasing the planned equipment was used to purchase additional equipment (**APPENDIX-1**)

**T.2.1. Purchasing for upgrading/renewing equipment:**

- Differential Scanning Calorimeter (Delivery Date: 23.09.2013)
- Raman High Resolution Visible Microscopy (Delivery Date: 20.06.2013)
- Iatroscan-Thin Layer Chromatography (Delivery Date: 12.06.2013)
- Automated Clinical Analyzer (Delivery Date: 05.05.2014)
- Supercritical Fluid Extraction System (Delivery Date: 01.10.2013)
- Membrane Filtration System (Delivery Date: 30.10.2013)
- PC and Printers for New Researchers (They were provided by TUBITAK MRC)

**Additional Equipment**

- Centrifugal Partition Chromatography (Delivery Date: 26.05.2015)
- Concentrator (Delivery Date: 22.10.2015)
- Electrospinning System (Delivery Date: 28.10.2015)
- Voltohmmeter (Delivery Date: 23.10.2015)
- Thermomixer (Delivery Date: 22.10.2015)
- Refrigerator (Delivery Date: 27.10.2015)
- Laptop (Delivery Date: 30.10.2015)

**T.2.2. Purchasing relevant scientific books**

All requested books were purchased and received.

• **Any deviation from Annex 1 (impact on other tasks and or resources):**

- In the first 18<sup>th</sup> months period, we did not use project budget in purchasing PC and printers for newly recruited researchers. Instead, they were provided by TUBITAK MRC.
- With the approval of the Project Officer, the remaining budget was allocated to purchase additional equipment as given above.

• **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

There was no delay in WP2.

• **Highlighting and explaining deviations between actual and planned person-months:**

6.15/4 person-months. With the approval of the Project Officer, the remaining budget was allocated to purchase additional equipment and person-month allocated for this task occurred more than it was planned

Work package number	WP 3	Start date or starting event:	T4
<b>Work package title</b>	Supporting research capacity of human resources		
<b>Activity type</b>	SUPP		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	120		

**Objectives:**

The main objective of this work package is to support the research capacity of human resources by employing four new Post-Doctorate/Experienced researchers for strengthening human potential of the NutraHEALTHCentre/Food Institute. Therefore, they will be full-time staff of NutraHEALTHCentre. The specific objectives are as follows:

- to recruit the new experienced researchers for strengthening research capacity of human resources.
- to increase the research capacity.

The objectives of this WP were fully achieved (see **D.3.1 - D.3.4**)

**Description of the work:**

Detailed information about T.3.1 and T.3.2 was given in **D.3.1 - D.3.4**. Twenty-eight researchers from 7 different countries (India, Pakistan, Egypt, Germany, France, Italy, and Turkey) and entities have applied for the positions, 4 of whom have been successful. We had a peer-review process and criteria, and short listed applicants have been interviewed one by one. All were experienced researchers.

**T.3.1. Job posting for planned recruitment:**

Job advertisement was made in peer-reviewed scientific magazines, journals, newsletters, TUBITAK MRC web-address, and Turkish/International universities, among others (see **D.3.1**)

Job advertisement was published in the following channels:

- The newsletter of "ISNFF-International Society for Nutraceuticals and Functional Foods" (February 2013, Volume 6 Issue 1, Page: 6) and web-site ([www.isnff.org](http://www.isnff.org)).
- Academic Food Journal "Akademik Gıda" (February 2013, Volume: 10, Number: 4, Page: internal cover page).
- Food Technology Magazine "Dünya Gıda" (February 2013, Volume: 2, Page: 7, [www.dunyagida.com.tr](http://www.dunyagida.com.tr)).
- The web-page ([www.gidadernegi.org](http://www.gidadernegi.org)) of the largest food associations of Turkey: "The Association of Food Technology" (07 February 2013).
- TUBITAK MRC web-page (<http://www.mam.gov.tr/english/GE/index.html>) (February 2013).
- EuroFoodChem XVII Congress, İstanbul, Turkey, at 8th May 2013 during Cesarettin Alasalvar's oral presentation about "Nuts: Antioxidant, Bioactives and Health Benefits".

**T.3.2. Recruitment of new research scientists:**

Four Post-Doctorate/Experienced researchers and additional experienced researcher (with the agreement of Project Officer) working in the field was recruited. Names of recruited post-doctorate researchers are given below (see **D.3.2 – D.3.4**)

- *Food Chemist/Chemist (Post-Doctorate Researcher):* Dr. Banu Bayram
- *Food Engineer (Post-Doctorate Researcher) :* Dr. Aytunga Arık Kibar
- *Nutritionist/Biochemist (Post-Doctorate Researcher):* Dr. Buket Akcan Altinkaynak
- *Seafood Scientist (Post-Doctorate Researcher):* Dr. Ayşe Karadag

**Additional Researcher**

- *Mechanical Engineer (Experienced Researcher):* Ferruh Naki Adoglu

- **Any deviation from Annex 1 (impact on other tasks and or resources):**

- Except some delay, 4 new research scientists were recruited as mentioned in DoW document.
- Due to late recruitment of 3 new researchers for 6 months, additional experienced researcher (Ferruh Naki Adoglu) whom was approved by the Project Officer, was recruited for the rest of project (M23-M36)

- **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

As stated in DoW document, employing new researchers was performed according to the procedure of TUBITAK MRC Human Resources Department. Despite the fact that all procedures were conducted on a timely manner with project work packages and their components (see **D.3.1**), three researchers out of four (Food Chemist/Chemist: Dr. Banu Bayram, Nutritionist/Biochemist: Dr. Buket Akcan, and Seafood Scientist Dr. Ayşe Karadag) started officially in 30<sup>th</sup> October 2013 rather than 1<sup>st</sup> May 2013. This was due to newly established legislative procedure by Human Resources. Meantime, there were some changes in President and Vice-President Level both at TUBITAK MRC and TUBITAK Headquarter in Ankara. All of these unforeseen situations have resulted in delay of employing researchers. This was totally beyond Project Coordinator control. This situation was dealt with Project Officer.

- **Highlighting and explaining deviations between actual and planned person-months:**

64.61/120 person-months.

- Three new researchers were recruited 6 months later than it was planned due to newly established legislative procedure by Human Resources. Meantime, there were some changes in President and Vice-President Level both at TUBITAK MRC and TUBITAK Headquarter in Ankara. All of these unforeseen situations have resulted in delay of employing researchers.
  - Ayşe Karadag was employed for 24 months
  - Banu Bayram was employed for 24 months
  - Buket Akcan was employed for 24 months
  - Aytunga Arık Kibar was employed for 24 months
  - All these new researchers were planned to be employed for 30 months each, therefore, additional experienced researcher (Ferruh Naki Adoglu) whom was approved by the Project Officer, was recruited for the rest of project (M23-M36) for 14 months.
- Total “person-months” for newly recruited researchers was **110**.

The reasons of the difference in the reported number of person-month in Form C (64.61) is explained below:

- Although two researchers were assigned to be work in project partner institutions for 6 months each, they could not make the entrance of their working hours in TUBITAK MIS system.
- Any legal paid leaves (maternity, annual leave, sick leave etc) also cannot be entered into this system.
- In the DoW document, “person-month” was assumed as 30 days per month. However MIS system based on working hours (8 hours/day; 22 days/month).

	<b>Planned number of person months M1-36</b>	<b>Person-months in Form C M1-36</b>	<b>Explanation</b>
<b>WP 3</b>	<b>120</b>	<b>64.61 (+20*)=84.61</b>	
Ayşe Karadağ	30	15.01 (+6 *)	For the same reason explained above, although the researcher was assigned to work in DTU in Denmark for 6 months, she could not make the entrance of her working hours in TUBITAK MIS system. Also, the new researcher was recruited 6 months later than it was planned due to the change at Presidential level of TUBITAK. Therefore, the number of person-month in DoW document is different than Form C.
Banu Bayram	30	15.85 (+6 *)	For the same reason explained above, although the researcher was assigned to work in IFR in England for 6 months, she could not make the entrance of her working hours in TUBITAK MIS system. Also, the new researcher was recruited 6 months later than it was planned due to the change at Presidential level of TUBITAK. Therefore, the number of person-month in DoW document is

			different than Form C.
Buket Akcan	30	12.97 (+4 *)	The new researcher was recruited 6 months later than it was planned due to the change at Presidential level of TUBITAK. She was on paid maternity leave for 4 months (1st June 2015 - 22nd September 2015). TUBITAK MIS internal system also does not allow entrance of working hours in any paid leaves
E.Aytunga Arık Kibar	30	7.75 (+4*)	She was on paid maternity leave for 4 months (09th September 2013-12nd January 2014) and she took 6 months unpaid leave (13th January 2014-13th July 2014) TUBITAK MIS internal system also does not allow entrance of working hours in any paid leaves
Ferruh Naki Adođlu	-	11.38	Due to the late recruitment of new researchers, an experinced researcher is recruited by the approval of Project Officer
Managem ent of WP8	-	1.65	
* The person-month paid but not included in Form-C due to the restrictions in TUBITAK MIS system (This does not include any other legal paid leaves).			

<b>Work package number</b>	<b>WP 4</b>	<b>Start date or starting event:</b>	<b>T1</b>
<b>Work package title</b>	Organising scientific events and networking		
<b>Activity type</b>	SUPP		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	12		

**Objectives:**

The main objective of this work package is to organise a number of scientific events and to improve networking in Turkey by bringing participants from around the globe, EU Member States, and Black Sea Economic Cooperation (BSEC) countries, which will allow direct dissemination of information and establish national/international information-sharing network on the discipline of functional foods, nutraceuticals, nutrigenomics, and NHP. The specific objectives are as follows:

- to organise seminars.
- to organise brokerage events for developing collaborative consortium for FP7/Horizon 2020.
- to organise an **International Congress on Functional Foods, Nutraceuticals, NHP, and Dietary Supplements**

The objectives of this WP were fully achieved (see **D.4.1 - D.4.4**).

**T.4.1. Organisation of seminars:**

- **Seminar - I:** One-day seminar on ‘**Functional Foods and Nutraceuticals**’ will be organised in 2013.

The first seminar was carried out on September 13-14, 2013. The two-day event was completed successfully with 59 participants: 4 speakers who are leading experts in the field of functional foods and nutraceuticals, and 55 participants with different disciplines such as researchers, lecturer, inventors, industry people, etc (see detailed information in **D.4.1**). The speakers were as follows:

Prof. Dr. Fereidoon Shahidi (Memorial University, Canada)  
Antioxidants: Fundamentals, Food Application, and Health Effects

Prof. Dr. Young-Joon Surh (Seoul National University, South Korea)  
Cancer Chemoprevention with Dietary Phytochemicals

Prof. Dr. Chin-Kun Wang (Chung Shan Medical University, Taiwan)  
The Trend for the Interaction of Food Industry and Health

Prof. Dr. Jordi-Salas Salvado (Rovira I Virgili University, Spain)  
Functionality of Mediterranean Diet: The Predimed Study

- **Seminar - II:** One-day seminar on ‘Health Promotion and Disease Prevention of Functional Foods, Nutraceuticals, and NHP’ will be organised in 2014.

The second seminar was carried out on June 13-14, 2014. The two-day event was completed successfully with 65 participants: 4 speakers who are leading experts in the field of functional foods and nutraceuticals, and 61 participants with different disciplines such as researchers, lecturer, inventors, industry people, etc (see detailed information in **D.4.2**). The speakers were as follows:

Prof. Dr. Zhen-Yu Chen (The Chinese University of Hong Kong, China)  
Cholesterol-lowering Functional Foods and Heart Disease Prevention

Dr. Didier Dupont (French National Institute for Agricultural Research - INRA, France)  
How Does the Structure of Dairy Products Affect their Digestion Mechanisms? Consequences and Human Health

Prof. Dr. Reinhold Carle (University of Hohenheim, Germany)

### Recovery and Application of Polyphenols as Natural Food Ingredients

Prof. Dr. Kenji Sato (Kyoto University, Japan)

Anti-inflammatory Food-derived Short Chain Pyroglutamyl Peptide-function, Possible Mechanisms in Action and Production by Fermentation

- **Seminar - III:** One-day Seminar on 'Pre-and Probiotics for Health' will be organised in 2015.

The third seminar was carried out on May 8-9, 2015. The two-day event was completed successfully with 52 participants: 4 speakers who are leading experts in the field of functional foods and nutraceuticals, and 48 participants with different disciplines such as researchers, lecturer, inventors, industry people, etc (see detailed information in **D.4.3**). The speakers were as follows:

Dr. Peter Quantick (Cardiff Metropolitan University, UK)

Opportunities for Food Research in Horizon 2020 and other EC Funding Streams

Dr. Graham A.W. Rook (University College London, UK)

The effect of Microbial Exposure on Regulation of the Immune System, Background Inflammation, Stress-resilience and Psychiatric Disorders

Dr. Koen Venema (Maastricht University, The Netherlands)

The use of Validated, Dynamic *in vitro* Models to Increase the Survival of Probiotics in the Upper Gastrointestinal Tract

Dr. Arland Hotchkiss (U.S. Department of Agriculture – USDA, USA)

Pectic oligosaccharide bioactivity

#### T.4.2. Organisation of brokerage events:

- **Brokerage event-I:** A two-day brokerage event on "**Marine Functional Foods and Nutraceuticals**"

It was held at Karadeniz Technical University, Faculty of Marine Sciences, Trabzon, Turkey on April 25-26, 2013. The two-day event was completed successfully with the participation of 28 researchers from 9 countries (United Kingdom, Poland, Romania, Greece, Bulgaria, Ukraine, Russia, Azerbaijan, and Turkey) (see detailed information in **D.4.1**).

As foreseen in the brokerage event, three indicative topics were produced as given below:

- 1- Development and sustainable production of marine nutraceuticals from seaweeds and microalgae grown in the Black Sea.
- 2- The multipurpose biotechnology for conversion of fish co-products.
- 3- Sustainable use of European anchovy from Black Sea for human consumption as nutraceuticals and for functional use.

- **Brokerage event-II.** A two-day brokerage event on "**Natural Health Products and Phytochemicals**".

It was held at TUBITAK MRC on March 20-21, 2014. The two-day event was completed successfully with the participation of 24 researchers from 11 European countries (Italy, Lithuania, France, Spain, Romania, Germany, The Netherlands, Serbia, Portugal, Greece, and Turkey) (see detailed information in **D.4.2**).

As foreseen in the brokerage event, three indicative topics were produced as given below:

- 1- Sustainable exploitation and recovery of bioactive compounds from agro-industrial waste and by-products and their applications in the development of functional food, supplement, and other ingredients.
- 2- Sustainability of endangered plants rich in phytochemicals for the preservation of EU biodiversity and their use in the improvement of human health "Wild-Health"
- 3- Inter-individual variation in response to consumption of plant bioactives and determinants involved to improve diets of different European population groups.

- **Brokerage event-III.** A two-day brokerage event on “**Functional Food, Nutraceuticals, and Nutrigenomics**”.

It was held at TUBITAK Marmara Research Center on March 19-20, 2015. The two-day event was completed successfully with the participation of 25 participants from 11 European countries (Greece, Bulgaria Poland, Spain, Germany, Denmark, Finland, Lithuania, Serbia, Italy, Belgium), Turkey and Malaysia (see detailed information in **D.4.3**).

As foreseen in the brokerage event, three indicative topics were produced as given below:

- 1- Compounds recovered from EU agro-food by-products and residues as high added-value ingredients for the production of novel functional foods related to healthy aging.
- 2- Sustainable approaches for recovery of bioactive compounds from animal (dairy, fish and meat) industry.
- 3- Novel biorefinery methods to generate marine bioactives, phlorotannins, pigments & fucoidans from algae.

**T.4.3. Organisation of International congress:**

The 2014 Annual Conference and Exhibition of the International Society for Nutraceuticals and Functional Foods (ISNFF) was held at the Military Museum and Culture Site in Istanbul, Turkey on October 14 – 17, 2014 (**APPENDIX-2**).

The conference included participation of delegates from more than 49 countries with 567 presentations (9 plenaries, 163 orals, and 394 posters). These were scheduled into 3 plenary, 27 oral, and 5 poster sessions. The presentations were given by the world renowned experts in the field, bringing to the audience state-of-the-art information and the latest developments in the field of functional foods and nutraceuticals. The event also included a special Memorial symposium for Dr. Marian Naczki on “Phenolics, Polyphenolics, and their Interaction” to recognize his contributions to the field of food science and technology.

The congress website can be reached at [www.isnff2014.org](http://www.isnff2014.org) (see detailed information in **D.4.4**).

- **Any deviation from Annex 1 (impact on other tasks and or resources):**

**Seminar I:** Three speakers out of four for Seminar-I were different from initially planned. Stephen Ruckman (changed his job and role), Prof. Chi-Tang Ho (due to his illness), and Prof. Kazuo Miyashita (time was not suitable) did not attend the seminar. Instead, Prof. Young-Joon Surh, Prof. Chin-Kun Wang, and Prof. Jordi-Salas Salgado attended. These speakers were well-known leading scientists in their field (see their short CV on **D.4.1**)

**Seminar II:** Three speakers out of four for Seminar-II were different from initially planned. Since Prof. Young-Joon Surh (attended to the Seminar-I) and Dr. Sergey Melnikov and Prof. Ben Van Ommen (time was not suitable) did not attend the Seminar-II. Instead, Prof. Dr. Reinhold Carle, Prof. Dr. Kenji Sato, and Prof. Dr. Zhen-Yu Chen attended. These speakers were well-known leading scientists in their field (see their short CV on **D.4.2**).

**Seminar III:** Four speakers out of four for Seminar-III were different from initially planned. Prof. Arne Vernon Astrup, Dr. Dimitris Charalampopoulos, Dr. Hauke Smidt, and Dr. Edwin Abeln (time was not suitable) did not attend the seminar. Instead, Peter Quantick, Dr. Graham A.W. Rook, Dr. Koen Venema, and Dr. Arland Hotchkiss attended. These speakers were well-known leading scientists in their field (see their short CV on **D.4.3**).

**Congress:** ISNFF Congress is usually held between September and December. Due to the termination of the project in October, 2015, we thought that organization of this congress in 2015 was risky. Therefore, we decided to be held it in 2014 (see **D.4.4**).

- **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

D.4.1 was submitted in M11 rather than M10. This was because seminar took place in September 2013 due to summer vacation in Turkey.

- **Highlighting and explaining deviations between actual and planned person-months:**

11.61/12 person-months.

Work package number	WP 5	Start date or starting event:	T1
<b>Work package title</b>	Participating scientific events		
<b>Activity type</b>	SUPP		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	2		

**Objectives:**

The main objective of this work package is to participate scientific events in this exiting field. The specific objectives are as follows:

- to participate scientific events (congress, seminars, workshops, short courses, brokerage events).
- to facilitate dissemination of research results of the NutraHEALTHCentre.
- to receive positive feedback on developing skills and relationship by direct participation and contacts with scientists from around the globe.

The objectives of this WP were mostly achieved (see D.5.1 - D.5.3)

**Description of the work:**

**T.5.1. Participation in scientific congress:**

1. Institute of Food Technologists and Annual Meeting (Functional Foods and Nutraceuticals Division): Chicago, IL, July 13-16, 2013.
2. Functional Foods and Nutraceuticals Conference in Europe in 2013.
3. Institute of Food Technologists and Annual Meeting (Functional Foods and Nutraceuticals Division): New Orleans, LA, June 21-24, 2014.
4. 2014 ISNFF Annual Conference and Exhibitions: Functional Foods, Nutraceuticals, and Dietary Supplements in South Korea, October 1-4, 2014.
5. Functional Foods and Nutraceuticals Conference in Europe in 2015.

The team of NutraHEALTH project had presentations at 11 international congresses (15 orals and 17 posters) (See D.5.1- 5.3 for details).

**T.5.2. Participation in scientific seminars, workshops, short courses, and brokerage events**

We could not participate any scientific seminars, workshops, short course, and brokerage events.

• **Any deviation from Annex 1 (impact on other tasks and or resources):**

Although the number of scientific congress was scheduled to be 5, the project team had presentations at 11 international congresses with the allocated budget. See D.5.1- 5.3 for details.

Since the start of the project, due to the change at Presidential levels, TUBITAK MRC internal procedures did not allow attendees in participating scientific activities without giving any oral presentations. The activities defined under Task 5.2., did not have any oral presentations in their programme, therefore, the NutraHEALTH Project Team used their credits to attend at international congresses, instead.

• **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

There was no delay in WP5

• **Highlighting and explaining deviations between actual and planned person-months:**

4.18/2 person-months.

Although the number of scientific congress was scheduled to be 5, the project team had presentations at 11 international congresses, so the number of "person-months" realized was more than it was planned.

<b>Work package number</b>	<b>WP 6</b>	<b>Start date or starting event:</b>	<b>T1</b>
<b>Work package title</b>	Communication and dissemination		
<b>Activity type</b>	SUPP		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	6		

**Objectives:**

The main objective of this work package is to develop communication and dissemination through a number of activities such as developing web-address, producing leaflets, and organising open-and info days, and attending food exhibitions. The specific objectives are as follows:

- to develop a web-site for internal communication and external dissemination incorporating an interactive SME tool.
- to promote awareness of new developments relating to the characteristics and benefits of functional foods, nutraceuticals, and NHP through various output media.
- to organise info-days for improving regional competitiveness in various regions of Turkey.

The objectives of this WP were fully achieved (see **D. 6.1 – D.6.4**).

**T.6.1. Developing web-site:**

The project web-site was developed and it can be reached at [www.fp7-nutrahealth.com](http://www.fp7-nutrahealth.com). So far, the web-site has been visited more than 34.009 times (24 December 2015). It contains information about project, project team, newsletter, project event, announcement, useful links, etc. The project web-site and activities were regularly updated.

**T.6.2. Publication of newsletter:**

Newsletter was published yearly at the official website of NutraHEALTH project [www.fp7-nutrahealth.com](http://www.fp7-nutrahealth.com) (see project web-site and **D.6.2 - D.6.4**).

**T.6.3. Preparation of leaflet:**

The project leaflet was prepared and printed around 1000 copies to be distributed in the activities. It was circulated among participants during seminars, brokerage events, and international congresses. List of the participants in those activities was given in **D.6.2 - D.6.4**.

**T.6.4. Organising open-days:**

Three open days were successfully completed as following events of three seminars held at TUBITAK TUSSIDE in Gebze-Kocaeli, Turkey, with participants from various SMEs, universities, and research entities. Within the concept of the open-days, the pilot plant of Food Institute was visited and the facilities in this plant were introduced with new equipment (through NutraHEALTH project), where further discussions on research and collaboration were carried out (see **D. 6.2 - D.6.4**).

**T.6.5. Organising info-days:**

Five info-days were successfully completed. Activities held are given below (See D.6.2 and D.6.3 for details):

- 1- Trakya University, Edirne, Turkey - October 20<sup>th</sup>, 2014
- 2- Mersin University, Mersin, Turkey - October 22<sup>nd</sup>, 2014
- 3- Giresun University, Giresun, Turkey - October 24<sup>th</sup>, 2014
- 4- Erciyes University, Kayseri, Turkey - June 5<sup>th</sup>, 2015
- 5- Ege University, Izmir, Turkey - June 12<sup>nd</sup>, 2015

**T.6.5. Participation in functional foods and nutraceutical exhibitions:**

We participated in three exhibitions as given below (see **D.6.3 and D.6.4**).

- **ISNFF 2014:** NutraHEALTH had a stand at ISNFF 2014 in Istanbul as an exhibitor on 14-17 October.
- **Anuga Food Tec:** NutraHEALTH had a stand at Anuga FoodTec 2015 in Koelnmesse, Germany as an exhibitor on March 24-27.
- **NutrEVENT:** NutraHEALTH had a stand at NutrEvent, 2015 in Lille, France as an exhibitor on June 17-18.

- **Any deviation from Annex 1 (impact on other tasks and or resources):**

- We could not participate the 1<sup>st</sup> Exhibition in Köln, Germany in 2013. Instead we participated the exhibition held in 2015.

- **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

There was no delay in WP6.

- **Highlighting and explaining deviations between actual and planned person-months:**

4.46/6 person-months.

Open-days were organized as a following event to Seminars (in WP4), so the number of "person-months" allocated to realize this task was less than it was planned.

<b>Work package number</b>	<b>WP 7</b>	<b>Start date or starting event:</b>	T21
<b>Work package title</b>	Technical site visits		
<b>Activity type</b>	SUPP		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	1		

**Objectives:**

The main objective of this work package is to arrange short-term technical visits to project partnering organisations in order to collect and share information about latest development, laboratory systems, ongoing projects, and exchange ideas for mutually beneficial collaborative FP7/HORIZON 2020 projects. Technical visits to collaborators should be seen as a good chance not only to observe the recent advances in the relevant research area but also to seek future collaborations. The specific objectives are as follows:

- to visit well-established functional foods and nutraceutical research centres and leading SMEs.
- to learn and gain from the experience and technologies of visited bodies.
- to explore the possible cooperation between NutraHEALTHCentre and visited entities.
- to improve networking and dissemination.

The objectives of this WP were achieved with slight changes (see D.7.1 and D.7.2).

**T.7.1. Technical visits to the partnering organisations and leading entities in Member States**

- Technical visit to the TNO, Unilever R&D, and University of Wageningen (Netherlands), INRA (France), and Coca-Cola R&D (Belgium).
- Technical visit to the IFR, University of Reading, and University of Nottingham (UK).
- Technical visit to the Danish Technical University, and two Seafood Processing Plants (Denmark).

Technical visits were carried out to the following organisations (see D.7.1 and D.7.2):

- TNO and Wageningen University (The Netherlands)
- Hohenheim University (Germany)
- Pharmatech and Mediterranea Biotechnologie Starter Culture Research, Development and Production Company (Italy)
- Polar Salmon and Marel (Denmark)
- Research and Development Functional Food Centre-CIDAF Institute of Nutrition and Food Technology (Spain)

**T.7.2. Technical visits to leading food processors in Turkey:**

Technical visit to the leading food processors in Turkey such as Pinar, Danone, and Ülker.

Technical visits were carried out to the following organisations (see D.7.1 and D.7.2)

- Tiryaki Agro Gaziantep
- Olivka Aquaculture
- Danone Turkey
- Sabri Ülker Food Research Foundation, Istanbul
- NorthStar Innovation, Yıldız Holding (Ülker) Istanbul

• **Any deviation from Annex 1 (impact on other tasks and or resources):**

For T.7.1., having organized several seminars, brokerage events, open-days, and a congress, as well as two way secondments of researchers, we had chance to improve our networking and explore possible cooperation with Unilever R&D, INRA, IFR, and Danish Technical University. Instead of those organisations, we visited the following organisations that we met during our project activities.

- Hohenheim University (Germany).
- Pharmatech and Mediterranea Biotechnologie Starter Culture Research, Development and Production Company (Italy).
- Research and Development Functional Food Centre-CIDAF Institute of Nutrition and Food Technology (Spain).

Due the time constraint, those aforementioned entities (Coca-Cola R&D-Belgium, University of Reading-UK,

and University of Nottingham-UK) were not visited. The allocated budget for these activities was used in purchasing new equipment.

For **T.7.2.**, instead of "Pınar", we visited two different companies "Tiryaki Agro-Gaziantep and Olivka Aquaculture".

- **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

Second report on technical site visit (D.7.2) was on 31.08.2015 but submitted to the system on 28.10.2015.

- **Highlighting and explaining deviations between actual and planned person-months:**

0.25/1 person-months. Due the time constraint, some institutions were not visited.

Work package number	WP 8	Start date or starting event:	T4
<b>Work package title</b>	Exchange of Researchers		
<b>Activity type</b>	TRA		
<b>Participant number</b>	1		
<b>Participant short name</b>	TUBITAK		
<b>Person-months per participant</b>	56*		

**Objectives:**

The main objective of this work package is to organise exchange programmes (through trans-national two-way secondments of researchers) for new and existing researchers where needed in the field of functional foods, nutraceuticals, and NHP at both NutraHEALTHCentre and outstanding partnering organisations in EU Member States, which will bring new skills to the centre and expose staff to working practices in EU institutes, universities, and leading companies. The specific objectives are as follows:

- to exchange of researchers between NutraHEALTHCentre and European partnering organisations.
- to improve skills and research capacity of NutraHEALTHCentre’s staff in the discipline of functional foods, nutraceuticals, and NHP.
- to improve networking and exchange of know-how and experience.
- to improve career development

The objectives of this WP were achieved with slight deviations (see **D.8.1 - D.8.3**).

**T.8.1. Visiting (newly employed) experienced researchers from TUBITAK MRC Food Institute to the partnering organisations**

- **Institute of Food Research (IFR)**: Due to 6 months late start of the newly employed researchers, Dr. Banu Bayram visited IFR between 17.06.2014 and 01.12.2014.
- **Unilever R&D Vlaardingen**: This visit was cancelled due to changes in the interest of Unilever R&D research subjects, which made them impossible to host a visiting scientist to conduct a research in the area of functional foods. The explanation letter received from Unilever R&D was given in **D.3.4**.
- **Danish Technical University (DTU)**: Due to 6 months late start of the newly employed researchers, Dr. Ayşe Karadag visited Danish Technical University between 18.09.2014 and 28.02.2015.
- **Unité de Nutrition Humaine (INRA)**: This visit was cancelled due to pregnancy of the newly employed researcher (Dr. Buket Akcan) that limited her studies in the laboratory with chemicals. This was approved by the Project Officer.

**T.8.2. Visiting (existing) researchers from TUBITAK MRC Food Institute to the partnering organisations**

- **Polish Academy of Sciences**: Due to the work load of Ebru Pelvan (MSc), her visit to the Polish Academy of Sciences for the duration of 6 months was postponed to 02.11.2014 - 02.05.2015.
- **TNO**: Tarik Öztürk (MSc) visited TNO between 02.07.2013 and 02.01.2014.
- **Coca-Cola R&D Europe**: Coca-Cola was replaced with Kaunas University of Technology. Dr. Imge O. Başegmez visited to Kaunas University of Technology between 22.07.2014-14.11.2014 and 04.01.2015-23.03.2015.
- **University of Leeds**: Due to change in his position to “Director of Food Institute”, Dr. Cesarettin Alasalvar was not allowed in visiting University of Leeds.

**T.8.3. Hosting experienced researchers from the partnering organisations to TUBITAK MRC Food Institute:**

Detailed activities can be found at **D.8.2 and D.8.3**.

- **University of Leeds**: Dr. Idolo Ifie visited TUBITAK MRC between 15.10.2015 and 31.10.2015.

- **Polish Academy of Sciences:** Michal Adam Janiak visited TUBITAK MRC between 25.05.2015 and 30.10.2015.
- **Kaunas University of Technology:** Dr. Vilma Kraujalyte visited TUBITAK MRC between 24.04.2014 - 22.07.2014 and 24.09.2014-.22.12.2014.
- **Institute of Food Research (IFR):** IFR was replaced with University of Putra, Malaysia. Dr. Sui Kiat Chang visited TUBITAK MRC between 13.03.2015 and 15.09.2015.
- **Danish Technical University (DTU):** DTU was replaced with University of Belgrade. Dr. Aleksandra Konić-Ristić visited TUBITAK MRC between 01.04.2015 and 24.10.2015.
- **Unité de Nutrition Humaine (INRA):** Dr. Hernan Kenmogne visited TUBITAK MRC between 10.01.2015 and 17.06.2015.

- **Any deviation from Annex 1 (impact on other tasks and or resources or planning):**

All changes for deviations were requested and confirmed by the Project Officer before implemetation.

**Coca-Cola R&D Europe:** We had difficulty in sending researcher to Coca-Cola due to work permit and visa. Therefore, we swapped Coca Cola with Kaunas University of Technology. Dr. Vilma Kraujalyte from Kaunas University of Technology visited TUBITAK MRC.

**Kaunas University of Technology:** Due to the loss of her mother, Dr. Imge O. Başegmez completed her 6 month study at two periods See **D.8.3**).

**Unilever R&D Vlaardingen:** This visit was cancelled due to changes in Unilever R&D interest, which made them impossible to host a visiting scientist to conduct a research in the area of functional foods (see **D.3.4**).

**Unité de Nutrition Humaine (INRA):** This visit was cancelled due to pregnancy of the newly employed researcher (Dr. Buket Akcan) that limited her studies in the laboratory with chemicals. This was approved by Project Officer.

**University of Leeds:** Due to change in his position to “Director of Food Institute”, Dr. Cesarettin Alasalvar was not allowed to visit University of Leeds.

**University of Leeds:** Idolo Ifie was assigned as guest researcher for the project on behalf of University of Leeds. After his PhD defence, Dr. Idolo Ifie was able to visit TUBITAK MRC shorter than it was planned.

**Polish Academy of Sciences:** Instead of a Post-Doc, a PhD student waiting for his defence, Michal Adam Janiak visited TUBITAK MRC.

**Institute of Food Research (IFR):** IFR could not assign a suitable Post-Doc researcher. Therefore IFR was replaced with University of Putra, Malaysia. Dr. Sui Kiat Chang visited TUBITAK MRC.

**Danish Technical University (DTU):** DTU could not assign a suitable Post-Doc researcher. Therefore DTU was replaced with University of Belgrade. Dr. Aleksandra Konić-Ristić visited TUBITAK MRC

- **Delays (explain reasons for failing to achieve critical objectives and/or not being on schedule and new deadline):**

All deviations and delays were explained above and summarized in **Figure 1** and **Figure 2**.

- **Highlighting and explaining deviations between actual and planned person-months:**

13.63 /56 person-months.

The “person-month” for hosting researchers and existing researchers cannot be directly retrieved from TUBITAK’s internal MIS (management information system) which is used for the preparation of Form C. Therefore, the reported number of “person-month” allocated to those researchers is different than DoW document as explained in the table below.

	Planned number of person months M1-36	Person-months in Form C M1-36	Explanation
<b>WP 8</b>	<b>56</b>	<b>13.63 + (*48) = 61.63*</b>	
Hosting researchers	<b>33</b>		TUBITAK MIS system does not allow either hosting researchers or existing researchers assigned to work out of TUBITAK “under exchange of researchers WP” to report their working hours in the internal MIS system which is used for the preparation of Form C. Therefore, the number of total person-month in DoW document is different than Form C. Total person-month realized for researchers hosted in TUBITAK was 30 and for existing researchers hosted by project partners in EU was 18.
Vilma Kraujalyte	6	6*	
Hernan Brice Kenmogne Domguia	6	6*	
Sui Kiat Chang	6	6*	
Aleksandra Konic-Ristic	6	6.5*	
Michał Janiak	6	5*	
Idolo Ifie	3	0.5*	
Existing researchers	<b>18</b>		
Ebru Pelvan	6	6*	
Hatice İmge Oktay Başeğmez	6	6*	
Tarık Öztürk	6	6*	
Cesarettin Alaşalvar	3	-	
Management of WP8	5	13.63	The amount of person-month realized was more than planned due to changes in the planning of institutions to do exchange activities.

\*Those values are not included in Form C as “person-month”, although the exchange actions were realized.

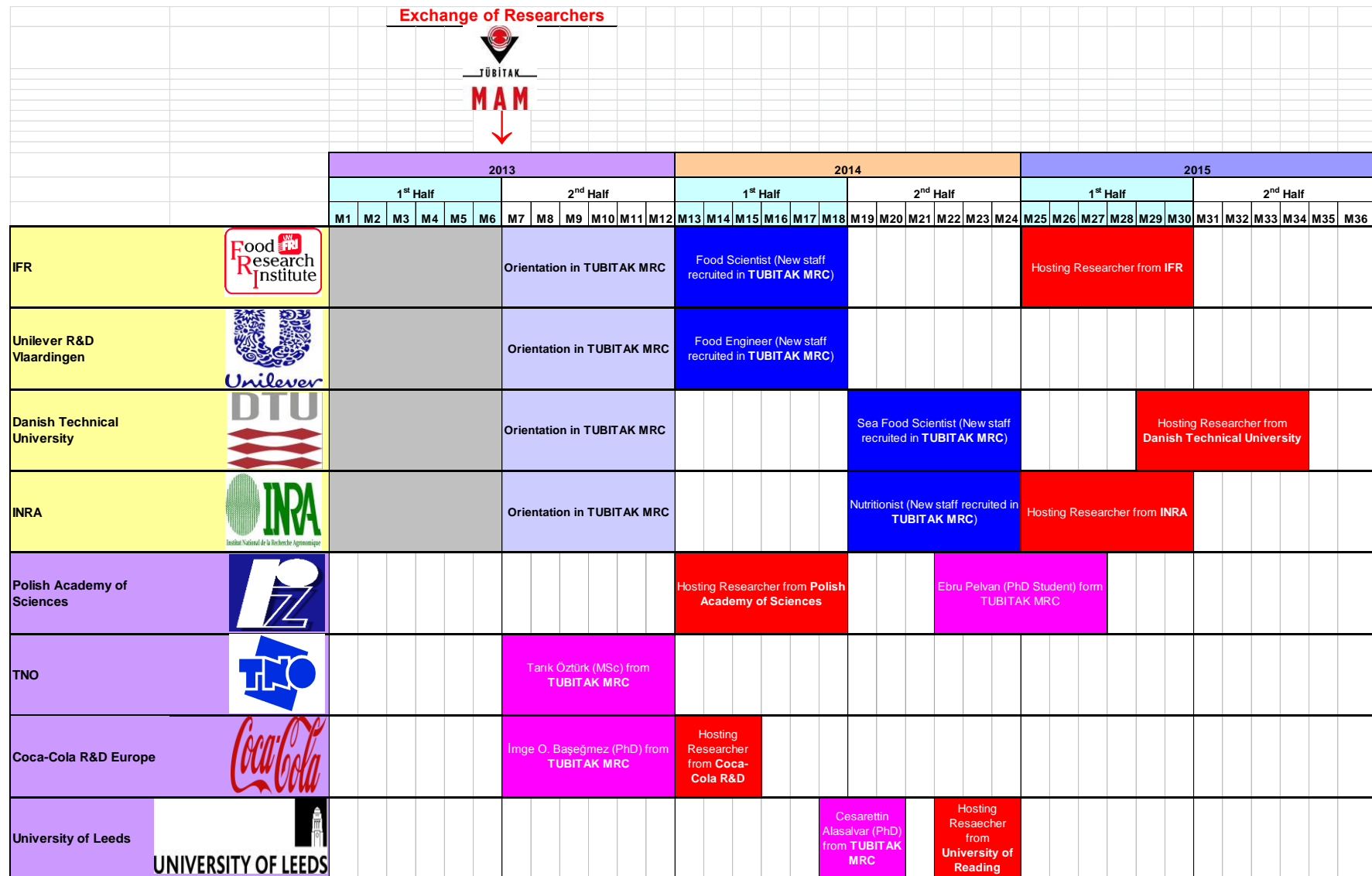


Figure 1. Planned timing for exchange of researchers between NutraHEALTHCentre/Food Institute and partnering organisations








		<b>Exchange of Researchers</b>																																			
		2013																		2014												2015					
		1 <sup>st</sup> Half									2 <sup>nd</sup> Half									1 <sup>st</sup> Half						2 <sup>nd</sup> Half											
		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36
IFR and University of Putra		Orientation in TUBITAK MRC												Dr. Banu Bayram (New Staff) 17/06/2014-01/12/2014						Hosting Researcher from University of Putra- Dr. Suit Kiat Chang 13/03/2015-15/09/2015																	
Unilever R&D Vlaardingen		Orientation in TUBITAK MRC									CANCELED																										
Danish Technical University and University of Belgrade		Orientation in TUBITAK MRC												Dr. Ayşe Karadağ (New Staff) 18/09/2014-28/02/2015						Hosting Researcher from University of Belgrade- Dr. Aleksandra Konić-Ristić 01/04/2015-24/10/2015																	
INRA		Orientation in TUBITAK MRC												CANCELED						Hosting Researcher from INRA- Dr. Hernan Kenmogne 10/01/2015-17/06/2015																	
Polish Academy of Sciences														Ebru Pelvan 02/11/2014-02/05/2015						Hosting Researcher from Polish Academy of Sciences-Michal Adam Janiak 25/05/2015-30/10/2015																	
TNO														Tank Öztürk 02/07/2013-02/01/2014																							
Kaunas University of Technology														Hosting Researcher from Kaunas University of Technology- Vilma Kraujalyte 24/04/2014-22/07/2014						İmge O. Başeğmez 22/07/2014-14/11/2015 Vilma Kraujalyte 24/09/2014-22/12/2014 İmge O. Başeğmez 04/01/2015-23/03/2015																	
University of Leeds														CANCELED						Dr. Idolo Ifie																	

Figure 2. Actual timing for exchange of researchers between NutraHEALTHCentre/Food Institute and partnering organisations

### 3.2.3. Project management during the period

- **Consortium management tasks and achievements;**

The following objectives for the project management were foreseen and implemented for the project lifetime (M1-M36). The main objective of the project management is to coordinate the whole project. The specific objectives are as follows:

- ✓ to manage the project administrative and financial issues.
- ✓ to share the work among the project personnel.
- ✓ to manage the organisation of internal and external activities.
- ✓ to establish effective communication among the partnering organisations.
- ✓ to establish effective communication and harmony among WPs.
- ✓ to monitor objective achievements and deliverables.
- ✓ to participate steering committee/advisory board meetings and discuss the related issues.
- ✓ to monitor and measure the progress of work.
- ✓ to report all deliverables to EC.

- **Problems which have occurred and how they were solved or envisaged solutions;**

There were four main problems during the project:

- 1- Late start of newly employed three researchers (detailed information and reason are given in WP3).
- 2- Exchange of researchers between TUBITAK MRC Food Institute and partnering organisations (detailed information and solutions are given in detail in WP8).
- 3- Limited participation to scientific events except congresses due to TUBITAK MRC internal procedures (detailed information and reason are given in WP5).
- 4- Limited participation to technical visits due to time constraints (detailed information and reason are given in WP7).

- **Changes in the consortium, if any;**

Change in partnering organisations taken place with the agreement of Project Officer are listed below:

- Due to visa and work permit problems of the researcher, we swapped Coca Cola with Kaunas University Technology, Lithuania (detailed information and reason are given in WP8).
- Due to not assigning a suitable Post-Doc researcher by Institute of Food Research (IFR), a Post-Doc researcher (Dr Aleksandra Konić-Ristić- University of Belgrade, Serbia) specialized in nutrition and metabolism of food bioactives visited TUBITAK MRC (detailed information and reason are given in WP8).
- Due to not assigning a suitable Post-Doc researcher by Danish Technical University (DTU), a Post-Doc researcher (Dr. Sui Kiat Chang- University of Putra, Malaysia) specialized in bioactive peptide purification and characterization visited TUBITAK MRC (detailed information and reason are given in WP8).

- **List of project meetings, dates and venues;**

1. *Project Kick-off Meeting:* This was taken place on 29<sup>th</sup> November 2013 (see D.1.1)
2. *Project Management Team Meeting:* Project management team consisting of project coordinator and WP-leaders. We met monthly in order to review and monitor progress of the tasks, deliverables, and milestones in work packages.
3. *Steering Committee/Advisory Board Meeting:* First meeting (8<sup>th</sup> February 2013, see **D.1.4**), second meeting (16<sup>th</sup> May 2014, see **D.1.3**), and third meeting (12<sup>th</sup> March 2015, see **D.1.6**) were held at TUBITAK MRC.
4. *Monitoring Board Meeting:* Project presentation was given to the monitoring board that consisted of President of TUBITAK MRC, Vice President of TUBITAK MRC, Director of Food Institute, and Deputy Director of Food Institute. This is a routine monitoring process for every single project carried out at TUBITAK MRC. In addition to this, monthly report about project progress was given to the Director of Food Institute.

- **Project planning and status;**

Apart from some deviations in certain WPs (as given in detail in section 3.2.2), the project was completed successfully without any major problems.

- **Impact of possible deviations from the planned milestones and deliverables, if any;**

Only 3 deliverables out of 29 were delayed for only a month.

**D.1.4** (*Report for the 1<sup>st</sup> Steering Committee/Advisory Board Meeting*). Due to unavailability of some board members, we had to postpone the meeting on February 8, 2013. The D.1.4 was submitted in M4 rather than M3. This delay was approved by Project Officer.

**D.4.1** (*First Report on Seminar and Brokerage Event*). This was due to the summer vacation in Turkey. We had difficulty in finding participants for the seminar. Therefore, we have had to postpone the meeting on September 13-16, 2013. The **D.4.1** was submitted in M11 rather than M10. This delay was approved by Project Officer.

**D.1.5** (*Report for the 2<sup>nd</sup> Steering Committee/Advisory Board Meeting*). Due to Easter Holiday across Europe, External Advisory Board Members could not attend in April 2014. Therefore, we have had to postpone the meeting on May 16, 2014. The D.1.5 will be submitted in M19 (May 23, 2014) rather than M18. This delay was approved by Project Officer. The evaluation report of Advisory Board member, Prof. Dr. Torger Borresen, can be found in **APPENDIX-9**

- **Any changes to the legal status of any beneficiaries, in particular non-profit public bodies, secondary and higher education establishments, research organisations, and SMEs;**

No

- **Development of the Project website; if applicable;**

The project web-site has been developed and it can be reached at [www.fp7-nutrahealth.com](http://www.fp7-nutrahealth.com). So far, the website has been visited more than 34.009 times (24 December 2015). It contains information about project, project team, newsletter, project event, announcement, useful links, etc. The project web-site was regularly updated.

### 3.3. Deliverables and milestones tables

#### Deliverables

TABLE 1: DELIVERABLES										
Del. No.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex 1 (project month)	Actual/forecast delivery date dd/mm/yyyy	Status No submitted/ Submitted	Comments
D.1.1	Report on project kick-off meeting with the final contract	-	WP1	TUBITAK	R	RE	30.11.2012	30.11.2012	Submitted	Submitted on time
D.1.2	First report on project management and activity	-	WP1	TUBITAK	R	RE	31.10.2013	31.10.2013	Submitted	Submitted on time
D.1.3	Second report on project management and activity		WP1	TUBITAK	R	RE	31.10.2014	31.10.2014	Submitted	Submitted on time
D.1.4.	Report for the 1 <sup>st</sup> Steering Committee/Advisory Board Meeting	-	WP1	TUBITAK	R	RE	31.01.2013	25.02.2013	Submitted	Delayed one month
D.1.5.	Report for the 2nd Steering Committee/Advisory Board Meeting	-	WP1	TUBITAK	R	RE	30.04.2014	23.05.2014	Submitted	Delayed one month
D.1.6	Report for the 3rd Steering Committee/ Advisory Board Meeting		WP1	TUBITAK	R	RE	31.10.2015	28.10.215	Submitted	Submitted on time
D.1.7	Report on final plan for the use and dissemination of foreground		WP1	TUBITAK	R	RE	31.10.2015	28.10.215	Submitted	Submitted on time
D.1.8	Report on Awareness and Wider Societal Implications		WP1	TUBITAK	R	RE	31.10.2015	28.10.215	Submitted	Submitted on time
D.2.1	Report for purchasing equipment (e.g. implementation, testing, and running) and books	-	WP2	TUBITAK	R	RE	31.10.2013	31.10.2013	Submitted	Submitted on time
D.3.1	Report on contracts with the new recruited researchers and their CVs	-	WP3	TUBITAK	R	RE	31.05.2013	23.05.2013	Submitted	Submitted on time
D.3.2	First report of the new researchers' progress and their research activities	-	WP3	TUBITAK	R	RE	31.10.2013	31.10.2013	Submitted	Submitted on time
D.3.3	Second report of the new researchers' progress and their research activities		WP3	TUBITAK	R	RE	31.10.2014	31.10.2014	Submitted	Submitted on time
D.3.4	Third report of the new		WP3	TUBITAK	R	RE	31.10.2015	28.10.215	Submitted	Submitted

	researchers' progress and their research activities									on time
D.4.1	First report (e.g. agenda, list of participants, invited speakers, conclusion) on seminar and brokerage-event	-	WP4	TUBITAK	R	RE	31.08.2013	27.09.2013	Submitted	Delayed one month
D.4.2	Second report on seminar and brokerage-event		WP4	TUBITAK	R	RE	31.08.2014	25.08.2014	Submitted	Submitted on time
D.4.3	Third report on seminar and brokerage-event		WP4	TUBITAK	R	RE	31.08.2015	14.07.2015	Submitted	Submitted on time
D.4.4	Congress report		WP4	TUBITAK	R	RE	31.08.2015	14.07.2015	Submitted	Submitted on time
D.5.1	First report for participating congress (e.g. technical programme, presentation and speaker types, and abstract book) and scientific events	-	WP5	TUBITAK	R	RE	31.10.2013	31.10.2013	Submitted	Submitted on time
D.5.2	Second report for participating congress and scientific events		WP5	TUBITAK	R	RE	31.10.2014	31.10.2014	Submitted	Submitted on time
D.5.3	Third report for participating congress and scientific events		WP5	TUBITAK	R	RE	31.10.2015	28.10.2015	Submitted	Submitted on time
D.6.1	Report on web page	-	WP6	TUBITAK	R	PU	31.01.2013	31.01.2013	Submitted	Submitted on time
D.6.2	First report on newsletter, leaflet, open-day, info-day, and exhibition	-	WP6	TUBITAK	R	PU	31.10.2013	31.10.2013	Submitted	Submitted on time
D.6.3	Second report on Newsletter, open-day, info-day, and exhibition		WP6	TUBITAK	R	PU	31.10.2014	31.10.2014	Submitted	Submitted on time
D.6.4	Third report on newsletter, open-day, info-day, and exhibition		WP6	TUBITAK	R	PU	31.10.2015	28.10.2015	Submitted	Submitted on time
D.7.1	First report on technical site visit		WP7	TUBITAK	R	PU	31.10.2014	31.10.2014	Submitted	Submitted on time
D.7.2	Second report on technical site visit		WP7	TUBITAK	R	PU	31.10.2015	28.10.2015	Submitted	Submitted on time
D.8.1	First report on the two-way secondments of researchers	-	WP8	TUBITAK	R	RE	31.12.2013	31.12.2013	Submitted	Submitted on time
D.8.2	Second report on the two-way secondments of researchers		WP8	TUBITAK	R	RE	28.02.2015	27.02.2015	Submitted	Submitted on time
D.8.3	Third report on the two-way		WP8	TUBITAK	R	RE	31.10.2014	31.10.2014	Submitted	Submitted

	secondments of researchers								on time
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## Milestones

TABLE 2: MILESTONES

Milestone No.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex 1 dd/mm/yyyy	Achieved Yes/No	Actual/Forecast achievement date dd/mm/yyyy	Comments
M.1.1	Completion of the Scientific Steering Committee/Advisory Board Meeting	WP1	TUBITAK	31.01.2013	YES	25.02.2013	Reports, project proposal
M.1.3	Completion of the Scientific Steering Committee/Advisory Board Meeting	WP1	TUBITAK	30.04.2014	YES	23.05.2014	Reports, project proposal
M.1.5	Completion of the Scientific Steering Committee/Advisory Board Meeting	WP1	TUBITAK	31.10.2015	YES	12.03.2015.	Reports, project proposal
M.2.1	Completion for purchasing and setting up the whole equipment	WP2	TUBITAK	31.10.2013	YES	31.10.2013	Report, invoice
M.3.1	Completion of the recruitment of the new researchers and allocation of them to related research	WP3	TUBITAK	31.05.2013	YES	23.05.2013	Job posting, interview, and payrolls
M.4.1	Completion of the first term seminar and brokerage-event	WP4	TUBITAK	31.08.2013	YES	27.09.2013	Reports, list of speakers and attendees, and presentation
M.4.2	Completion of the second term seminar and brokerage-event	WP4	TUBITAK	30.07.2014	YES	14.06.2014	Reports, list of speakers and attendees, and presentation
M.4.3	Completion of the third term seminar and brokerage-event	WP4	TUBITAK	30.08.2015	YES	09.05.2015	Reports, list of speakers and attendees, and presentation
M.4.2	Completion of the congress	WP4	TUBITAK	30.08.2015	YES	17.10.2014	Reports, list of speakers and attendees, and presentation
M.5.1	Completion for the attended scientific events	WP5	TUBITAK	30.10.2015	YES	30.10.2015	Reports, list of speakers and attendees, and presentation
M.6.1	Creation of web-page	WP6	TUBITAK	31.01.2013	YES	31.01.2013	Web page
M.6.2	Completion of the first term	WP6	TUBITAK	31.10.2013	YES	31.10.2013	Reports, leaflets,

	dissemination and communication activities						newsletters, etc.
<b>M.6.3</b>	Completion of the second term dissemination and communication activities	WP6	TUBITAK	31.10.2014	YES	31.10.2014	Reports, leaflets, newsletters, etc.
<b>M.6.4</b>	Completion of the third term dissemination and communication activities	WP6	TUBITAK	31.10.2015	YES	31.10.2015	Reports, leaflets, newsletters, etc.
<b>M.7.1</b>	Completion of the technical side visit	WP7	TUBITAK	31.10.2015	YES	31.10.2015	Reports
<b>M.8.3</b>	Completion of the two-way secondments of researchers	WP8	TUBITAK	31.10.2015	YES	31.10.2015	Reports

### 3.4. Explanation of the use of the resources and financial statements

#### THE TRANSACTION

##### M1-M18:

Name of RTD Performer	Number of person months	Personel Cost (€)	Durable equipment	Consumables	Computing	Overhead Costs (€)	Other Costs (€)	Total by RTD performer
<b>WP 1</b>	3.20	16,908.12						
Steering Committee/Advisory Board meetings							1,523.11	
<b>WP 2</b>	4.00	14,000.00						
Differential Scanning Calorimeter (DSC)			53,506.07					
Raman High Resolution Visible Microscopy			130,657.94					
Iatrosan-Thin Layer Chromatography (IS-TLC)			38,231.26					
Supercritical Fluid Extraction System			69,314.65					
Membrane Filtration System			42,321.93					
Scientific books							792.88	
<b>WP 3</b>	19.03	81,902.64						
Advertisement for Post-Doctorate Researchers							1,435.31	
<b>WP 4</b>	5.38	23,121.82						
Seminar I							15.010,29	
Brokerage event I							17.132,25	
<b>WP 5</b>	1.04	4,508.96						
Attending conference Europe in 2013							788,10	
Attending conference South Korea in 2014							1.884,78	
<b>WP 6</b>	2.97	12,780.27						
Constructing a dynamic							This cost is given under	

NutraHEALTH Centre's web-site							the subcontracting in WP-4	
Publication of newsletters at the website							This cost is given under the subcontracting in WP-4	
Leaflets including postal fee (1000 pieces)							This cost is given under the subcontracting in WP-4	
One-day event for open-day							This cost is given under the subcontracting in WP-4	
<b>WP 7</b>	0.04	190.81						
<b>WP 8</b>	7.95	7,404.12						
Return flight tickets for Tarık Öztürk							232,41	
Exchange of Tarık Öztürk							14.758,38	

**M19-M36:**

Name of RTD Performer	Number of person months	Personel Cost (€)	Durable equipment	Consumables	Computing	Overhead Costs (€)	Other Costs (€)	Total by RTD performer
<b>WP 1</b>	3.41	15,419.40						
Steering Committee/Advisory Board meetings							5,653.01	
<b>WP 2</b>	2.15	9.727,34						
Auto clinical analyser: 18,578.35 €			18,578.35					
CPC: 97,860.22 €			97,860.22					
Concentrator: 10,104.97 €			10,104.97					
Electrospinning: 14,539.58 €			14,539.58					
Voltohmeter: 2,501.82 €			2,501.82					

Thermomixer: 6,006.52 €			6,006.52					
Refrigerator: 870.18 €			870.18					
Laptop: 1,729.10 €			1,729.1					
Scientific books							157.48	
<b>WP 3</b>	45.57	206,161.20						
<b>WP 4</b>	6.23	28,183.74						
Seminar II and Seminar III							50,670.30	
Brokerage event II and Brokerage event III							37,058.12	
Congress							52,933.20	
<b>WP 5</b>	3.14	14,201.62						
Attending conference USA in 2014							1,840.38	
Attending conference South Korea in 2014							3,022.17	
<b>WP 6</b>	1.49	6,745.99						
Constructing a dynamic NutraHEALTHCentre' s web-site							This cost is given under the subcontracti ng in WP-4	
Publication of newsletters at the website							This cost is given under the subcontracti ng in WP-4	
Leaflets including postal fee (1000 pieces)							This cost is given under the subcontracti ng in WP-4	
One-day event for open-day							This cost is given under the subcontracti ng in WP-4	
Dissemination and Communication (Incinur Hasbay to Gaziantep)							96.60	
Dissemination and Communication							85.29	

(Ayşe Karadağ to Gaziantep)								
Dissemination and Communication (Ebru Pelvan to İstanbul)							7.11	
Dissemination and Communication (Banu Bayram to Ankara)							67.20	
Dissemination and Communication (Halil Koçer to Muğla and Bodrum)							134.41	
Dissemination and Communication (TariK Öztürk to Muğla)							87.23	
Dissemination and Communication (Cesarettin Alaşalvar to Antalya)							42.65	
Dissemination and Communication (Cesarettin Alaşalvar)							70.11	
<b>WP 7</b>	0.21	963.71						
Tecnical visit (Ebru Pelvan Pelitli to Netherlands)							767.95	
Tecnical visit (Mehlika Borcaklı to Italy)							898.64	
Tecnical visit (İncinur Hasbay toGermany)							665.68	
Tecnical visit (Cesarettin Alaşalvar to Sweden)							856.15	
Tecnical visit (Ayşe Karadağ to Spain)							1.119,75	
Tecnical visit (Hatice İmge Oktay Başeğmez to Spain)							1,120.68	
Tecnical visit (Ayşe Karadağ to France)							26.66	
Tecnical visit (Cesarettin Alaşalvar to Denmark)							552.69	

<b>WP 8</b>	5.68	25,687.00						
Management of WP 8	5.68							
Consumables for the guest researchers: €				20,844.66				
Repair cost for the equipment used in guest researchers research: €							848.10	
Banu Bayram to IFR UK flight tickets and visa							1,701.38	
Ayşe Karadağ to DTU Denmark flight tickets and visa							928.93	
Hatice İmge Oktay Başıoğlu to Kaunas University of Technology Lithuania							14,069.13	
Ebru Pelvan to PAN Poland							10,556.97	
Vilma Kraujalyte from Kaunas University of Technology Lithuania with flight tickets							17,710	
Hernan Brice Kenmogne Domguia from INRA with flight tickets							18,392.88	
Sui Kiat Chang from Universiti Putra Malaysia with flight tickets							21,782.41	
Aleksandra Konic-Ristic from University of Belgrade with flight tickets							23,241.84	
Michał Janiak from							16,980.47	

Polish Academy of Sciences with flight tickets								
Idolo Ifie from IFR with flight tickets							2,989.47	

M1 - M18:

FP7 - Grant Agreement - Annex VI - Coordination and support action

Form C - Financial Statement (to be filled in by each beneficiary)			
Project nr.	316012	Funding scheme	Coordination and support action
Project Acronym	NutraHEALTH		
Period from	01/11/2012	Is this an adjustment to a previous statement?	No
To	30/04/2014		
Legal Name	TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU	Participant Identity Code	999587135
Organisation short Name	TUBITAK	Beneficiary nr.	1
Funding % for RTD activities (A)	N/A	If flat rate for indirect costs, specify %	20.00

1. Declaration of eligible costs/lump sum/flat rate/scale of unit (in €)

	Type of Activity					Total (A+B+C+D+E)
	RTD (A)	Demonstration (B)	Coordination / Support (C)	Management (D)	Other (E)	
Personnel costs			143,908.62	16,908.12	0.00	160,816.74
Subcontracting			32,004.12	0.00	0.00	32,004.12
Other direct costs			354,062.14	1,523.11	0.00	355,585.25
Indirect costs			99,594.15	3,686.25	0.00	103,280.40
Lump sums/flat rate/scale of unit declared			0.00			0.00
<b>Total</b>	0.00	0.00	629,569.03	22,117.48	0.00	651,686.51
Maximum EU contribution	0.00	0.00	564,832.83	19,721.42	0.00	584,554.25
Requested EU contribution						584,554.25

2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II.17 of the grant agreement?  
If yes, please mention the amount (in €)

No

3. Declaration of interest yielded by the pre-financing (to be completed only by the coordinator)

Did the pre-financing you received generate any interest until 31/12/2012 according to Art.II.19?  
If yes, please mention the amount (in €)

No

4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1?

No

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4?

No

Name of the auditor		Cost of the certificate (in €), if charged under this project	
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5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4?



Yes

Name of the auditor	SONCONTROL Yeminli Mali Müşavirlik ve Denetim Ltd. #ti	Cost of the certificate (in €)	857.57
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6. Beneficiary's declaration on their honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing until 31/12/2012 which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the European Union and in the event of an audit by the European Union and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Tekin YILDIRIM
	Date & hand signature
	30/09/2014 



M19 – M36:

FP7 - Grant Agreement - Annex VI - Coordination and support action

Form C - Financial Statement (to be filled in by each beneficiary)			
Project nr.	316012	Funding scheme	Coordination and support action
Project Acronym	NutraHEALTH		
Period from	01/05/2014	Is this an adjustment to a previous statement?	No
To	31/10/2015		
Legal Name	TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU	Participant Identity Code	999587135
Organisation short Name	TUBITAK	Beneficiary nr.	1
Funding % for RTD activities (A)	N/A	If flat rate for indirect costs, specify %	20.00

1. Declaration of eligible costs/lump sum/flat rate/scale of unit (in €)

	Type of Activity					Total (A+B+C+D+E)
	RTD (A)	Demonstration (B)	Coordination / Support (C)	Management (D)	Other (E)	
Personnel costs			291,670.60	15,419.40	0.00	307,090.00
Subcontracting			159,192.11	1,527.83	0.00	160,719.94
Other direct costs			0.00	5,761.25	303,534.00	309,295.25
Indirect costs			58,334.12	4,236.13	60,706.80	123,277.05
Lump sums/flat rate/scale of unit declared			0.00			0.00
<b>Total</b>	0.00	0.00	509,196.83	26,944.61	364,240.80	900,382.24
<b>Maximum EU contribution</b>	0.00	0.00	471,279.65	24,191.13	324,781.38	820,252.16
<b>Requested EU contribution</b>						820,252.16

2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II.17 of the grant agreement? If yes, please mention the amount (in €)

No

3. Declaration of interest yielded by the pre-financing (to be completed only by the coordinator)

Did the pre-financing you received generate any interest until 31/12/2012 according to Art.II.19? If yes, please mention the amount (in €)

No

4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1?

No

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4?

No

Name of the auditor	Cost of the certificate (in €), if charged under this project
---------------------	---

5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4?



Yes

Name of the auditor	Yetki Yeminli Mali Müşavirlik Denetim ve Danışmanlık LTD. STI	Cost of the certificate (in €)	726.98
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6. Beneficiary's declaration on their honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing until 31/12/2012 which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the European Union and in the event of an audit by the European Union and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	TEKİN YILDIRIM
	Date & hand signature
	16/12/2015 

**TÜBİTAK**  
BİLİMSEL VE TEKNOLOJİK ARASTIRMA MERKEZİ  
41470 Gebze / KOCAELİ

M1 – M18:

Use of Resources **Activity Report**
 Project no. **316012**  
 PIC: **999587135** Participant No. **1**
Period: **01/11/2012 - 30/04/2014**Acronym: **NutraHEALTH****TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU**

COORDINATION SUPPORT			
Cost Type	Work Package	Explanation	Cost
PERSONNEL	2	Total 4.00 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):0.80 Ebru Pelvan (Senior Researcher, MSc): 0.72 Emine Aytunga Anık Kibar (Senior Researcher, PhD):0.33 Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD): 0.81 İncinur Hasbay (Senior Researcher, PhD): 1.34 Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):-	€ 14,000.00
	3	Total 19.03 PM Ayşe Karadağ (Senior Researcher, PhD): 5.58 Banu Bayram (Senior Researcher, PhD): 5.49 Buket Akcan (Senior Researcher, PhD): 5.45 Cesarettin Alaşalvar (Chief Researcher, PhD): 0.80 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Anık Kibar (Senior Researcher, PhD): 1.71 Hatice İmge Oktay Başeğmez (Senior Researcher, PhD): Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):-	€ 81,902.64
	4	Total 5.38 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD): 1.00 Ebru Pelvan (Senior Researcher, MSc): 0.04 Emine Aytunga Anık Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD): Hayrettin Özer (Senior Researcher, PhD):0.90 İncinur Hasbay (Senior Researcher, PhD): 3.44 Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):-	€ 23,121.82
	5	Total 1.04 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):- Ebru Pelvan (Senior Researcher, MSc): 0.04 Emine Aytunga Anık Kibar (Senior Researcher, PhD): Hatice İmge Oktay Başeğmez (Senior Researcher, PhD): Hayrettin Özer (Senior Researcher, PhD):1.00 İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):-	€ 4,508.96
	6	Total 2.97 PM Ayşe Karadağ (Senior Researcher, PhD):-	€ 12,780.27

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Cost Type	Work Package	Explanation	Cost
		Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):2.20 Ebru Pelvan (Senior Researcher, MSc): 0.04 Emine Aytunga Anik Kibar (Senior Researcher, PhD): Hatice İmge Oktay Başeğmez (Senior Researcher, PhD): 0.73 Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanik Öztürk (Senior Researcher, MSc):- Total 0.04 PM	
	7	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):- Ebru Pelvan (Senior Researcher, MSc): 0.04 Emine Aytunga Anik Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanik Öztürk (Senior Researcher, MSc):- Total 7.95 PM	€ 190.81
	8	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):- Ebru Pelvan (Senior Researcher, MSc):- Emine Aytunga Anik Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD): 1.72 Tanik Öztürk (Senior Researcher, MSc): 6.00 Vilma Kraujalyte (Exchange Researcher, PhD): 0.23	€ 7,404.12
		<b>COORDINATION SUPPORT * PERSONNEL</b>	<b>total (€)</b> 143,908.62
<b>SUBCONTRACTING</b>	4	Organizing Brokerage Event-1 (Marine Functional Foods and Nutraceuticals), Seminar-1 (Functional Foods and Nutraceuticals), and Open day (14,933.03 €) by NN (17,071.09 €)	€ 32,004.12
		<b>COORDINATION SUPPORT * SUBCONTRACTING</b>	<b>total (€)</b> 32,004.12
<b>OTHER DIRECT</b>	2	DURABLE EQUIPMENT: •Differential Scanning Calorimeter (DSC): 53,506.07 € •Raman High Resolution Visible Microscopy: 130,657.94 € •Iatrosan-Thin Layer Chromatography (IT-TLC): 38,231.26 € •Automated Clinical Analyzer (ACA): Delivered in May so was not taken into account for the first 18 months •Supercritical Fluid Extraction System: 69,314.65 € •Membrane Filtration System: 42,321.93 € •PC and Printers for New Researchers: Tübitak MRC gave computers and printers to the new researchers	€ 334,031.85
	2	OTHER: Cost for the 11 scientific books	€ 792.88
	3	OTHER: Cost for the advertisements in the newspapers and web pages: •ISNFF web page: 328.09 •ISNFF newspaper: 614.55 •Sıdas Medya: 254.83 •Dünya Derisi: 237.84	€ 1,435.31
	4	TRAVELING: Cesarettin Alaşalvar went to Ankara for the meeting of ISNFF Congress 2014 arrangements in 23/12/2013.	€ 77.26

Cost Type	Work Package	Explanation	Cost
	4	OTHER: Costs for hosting the speakers in Seminar-I	€ 61.16
	5	TRAVELING: Cesarettin Alaşalvar participated International Congress on Functional Foods and Nutraceuticals (ISNFF 2013) congress in Taiwan between 5-9/11/2013. (flight ticket: 1,362.17 €, daily costs: 471.27€, Travel cost: 51.34 €) Travel cost of Aytunga Arık Kibar to Eurofoodchem in İstanbul (102.78 €) between 7-10/05/2013.	€ 1,987.56
	5	OTHER: Registration cost of Cesarettin Alaşalvar, Aytunga Arık Kibar and Ebru Pelvan for the Eurofoodchem congress in 2013 in İstanbul.	€ 685.33
	8	TRAVELING: Cost of the flight tickets of Tarık Öztürk for the exchange of researcher to TNO in 02/07/2013 and 31/12/2013.	€ 232.41
	8	OTHER: Payment to Tarık Öztürk for exchange of researchers for 6 months.	€ 14,758.38
<b>COORDINATION SUPPORT - OTHER DIRECT</b>			<b>total (€)</b> 354,062.14
<b>INDIRECT</b>	N/A	N/A	€ 99,594.15
<b>COORDINATION SUPPORT</b>			<b>total (€)</b> 629,569.03
MANAGEMENT			
Cost Type	Work Package	Explanation	Cost
<b>PERSONNEL</b>	1	Total 3.20 PM Cesarettin Alaşalvar (Chief Researcher, PhD): 3.20	€ 16,908.12
<b>MANAGEMENT - PERSONNEL</b>			<b>total (€)</b> 16,908.12
<b>OTHER DIRECT</b>	1	TRAVELING: Travelling cost of Advisory members in 2013 (Prof. Peter Quantick, Prof. Torger Borrosen, Dr. Krassimir Velikov, Prof. Asım Örem)	€ 1,523.11
<b>MANAGEMENT - OTHER DIRECT</b>			<b>total (€)</b> 1,523.11
<b>INDIRECT</b>	N/A	N/A	€ 3,686.25
<b>MANAGEMENT</b>			<b>total (€)</b> 22,117.48
<b>FORM C TOTAL(€)</b>			<b>651,686.51</b>

M19 – M36:

Use of Resources **Costs Report**Project no. **316012**Period: **01/05/2014 - 31/10/2015**PIC: **999587135** Participant No. **1**Acronym: **NutraHEALTH****TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU**

PERSONNEL			
Activity Type	Work Package	Explanation	Cost
MANAGEMENT	1	Total 3.41 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD): 3.41 Ebru Pelvan (Senior Researcher, MSc):- Emine Aytunga Arık Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tarkan Öztürk (Senior Researcher, MSc):- Ferruh Naki Adoğlu (Senior Researcher):-	€ 15,419.40
		<b>PERSONNEL - MANAGEMENT</b>	<b>total (€)</b> 15,419.40
COORDINATION SUPPORT	2	Total 2.15 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):0.85 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Arık Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD): - İncinur Hasbay (Senior Researcher, PhD): 1.30 Mehlika Borcaklı (Chief Researcher, PhD):- Tarkan Öztürk (Senior Researcher, MSc):- Ferruh Naki Adoğlu (Senior Researcher):-	€ 9,727.34
	3	Total 45.57 PM Ayşe Karadağ (Senior Researcher, PhD): 9.43 Banu Bayram (Senior Researcher, PhD): 10.36 Buket Akcan (Senior Researcher, PhD): 7.52 Cesarettin Alaşalvar (Chief Researcher, PhD): 0.85 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Arık Kibar (Senior Researcher, PhD): 6.04 Hatice İmge Oktay Başeğmez (Senior Researcher, PhD): Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tarkan Öztürk (Senior Researcher, MSc):- Ferruh Naki Adoğlu (Senior Researcher): 11.38	€ 206,161.20
	4	Total 6.23 PM Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD): 0.85 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Arık Kibar (Senior Researcher, PhD):- Hatice İmge Oktay Başeğmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):2.04	€ 28,183.74

1

Activity Type	Work Package	Explanation	Cost
		İncinur Hasbay (Senior Researcher, PhD): 3.34 Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):- Ferruh Naki Adođlu (Senior Researcher):- Total 3.14 PM	
	5	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):-0.85 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Anık Kibar (Senior Researcher, PhD): Hatice Imge Oktay Başığmez (Senior Researcher, PhD): Hayrettin Özer (Senior Researcher, PhD):2.29 İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):- Ferruh Naki Adođlu (Senior Researcher):- Total 1.49 PM	€ 14,201.62
	6	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):1.49 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Anık Kibar (Senior Researcher, PhD): Hatice Imge Oktay Başığmez (Senior Researcher, PhD): - Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):- Ferruh Naki Adođlu (Senior Researcher):- Total 0.21 PM	€ 6,745.99
	7	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):- 0.21 Ebru Pelvan (Senior Researcher, MSc): - Emine Aytunga Anık Kibar (Senior Researcher, PhD):- Hatice Imge Oktay Başığmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):- İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD):- Tanık Öztürk (Senior Researcher, MSc):- Ferruh Naki Adođlu (Senior Researcher):- Total 5.68 PM	€ 963.71
	8	Ayşe Karadağ (Senior Researcher, PhD):- Banu Bayram (Senior Researcher, PhD):- Buket Akcan (Senior Researcher, PhD):- Cesarettin Alaşalvar (Chief Researcher, PhD):- Ebru Pelvan (Senior Researcher, MSc):- Emine Aytunga Anık Kibar (Senior Researcher, PhD):- Hatice Imge Oktay Başığmez (Senior Researcher, PhD):- Hayrettin Özer (Senior Researcher, PhD):- 1.85 İncinur Hasbay (Senior Researcher, PhD):- Mehlika Borcaklı (Chief Researcher, PhD): 2.82 Tanık Öztürk (Senior Researcher, MSc): 1.00 Ferruh Naki Adođlu (Senior Researcher):-	€ 25,687.00

Activity Type	Work Package	Explanation	Cost
		<b>PERSONNEL - COORDINATION SUPPORT</b>	<b>total (€)</b> 291,670.60
			<b>PERSONNEL total (€)</b> 307,090.00

SUBCONTRACTING			
Activity Type	Work Package	Explanation	Cost
MANAGEMENT	1	Form C financial control:1,534.73 €	€ 1,527.83
			<b>SUBCONTRACTING - MANAGEMENT total (€)</b> 1,527.83
COORDINATION SUPPORT	4	Congress (ISNFF): 52,435.54 € Brokerage event II and Seminar II: 50,498.36 € Brokerage event III and Seminar III: 37,058.12 € 2014 Tax cost: -497,62 2015 tax cost: -171,97	€ 139,322.43
	5	Participating exhibitions: 19,869.68 €	€ 19,869.68
			<b>SUBCONTRACTING - COORDINATION SUPPORT total (€)</b> 159,192.11
			<b>SUBCONTRACTING total (€)</b> 160,719.94

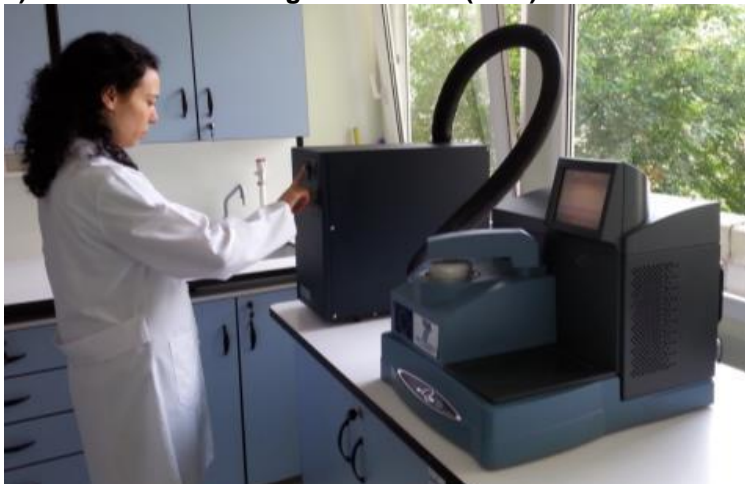
OTHER DIRECT			
Activity Type	Work Package	Explanation	Cost
MANAGEMENT	1	TRAVELING: 2014 Travelling and accommodation cost of Advisory members: 2,493.19 € 2015 Travelling and accommodation cost of Advisory members: 3,159.82 €	€ 5,653.01
	1	OTHER: Sign board and stickers for the newly purchased equipments: 108.24 €	€ 108.24
			<b>OTHER DIRECT - MANAGEMENT total (€)</b> 5,761.25
OTHER	2	DURABLE EQUIPMENT: - Auto clinical analyser: 18,578.35 € - CPC: 97,860.22 € - Concentrator: 10,104.97 € - Electrospinning: 14,539.58 € - Voltohmmeter: 2,501.82 € - Thermomixer: 6,006.52 € - Refrigerator: 870.18 € - Computer (laptop): 1,729.10 € With the approval of Project Officer	€ 152,190.74
	2	OTHER: Scientific book: 157.48 €	€ 157.48
	5	TRAVELING: Ayşe Karadağ participated to a conference (USA): 1,840.38 € Cesarettin Alaşalvar: 3,022.17 €	€ 4,862.55
	6	TRAVELING: Incinur Hasbay (Gaziantep): 96.60 € Ayşe Karadağ (Gaziantep): 85.29 € Ebru Pelvan (Istanbul): 7.11 € Banu Bayram (Ankara): 67.20 € Halil Koçer (muğla and Bodrum): 134.41 € Tark Öztürk (Muğla): 87.23 € Cesarettin Alaşalvar (Antalya): 42.65 € Cesarettin Alaşalvar: 70.11 €	€ 590.60
	7	TRAVELING: Ebru Pelvan Pelitli (Netherlands): 767.95 € Mehlika Borcaklı (Italy): 898.64 € Incinur Hasbay (Germany): 665.68 €	€ 6,008.20

Activity Type	Work Package	Explanation	Cost
		Cesarettin Alaşalvar (Sweden): 856.15 € Ayşe Karadağ (Spain): 1.119,75 € Hatice İmge Oktay Başeğmez (Spain): 1,120.68 € Ayşe Karadağ (France): 26.66 € Cesarettin Alaşalvar (Denmark): 552.69 €	
	8	CONSUMABLES: Consumables for the guest researchers (with the approval of Project Officer): 18,940.99 €	€ 18,940.99
	8	OTHER: Exchange of researchers: Banu Bayram to IFR UK flight tickets and visa: 1,701.38 € Ayşe Karadağ to DTU Denmark flight tickets and visa: 928.93 € Hatice İmge Oktay Başeğmez to Kaunas University of technology Lithuania for 6 months: 14,069.13€ Ebru Pelvan to PAN Poland for 6 months: 10,556.97€  Vilma Kraujalyte from Kaunas University of technology Lithuania for 6 months and flight tickets: 17,710 € Hernan Brice Kenmogne Domguia from INRA for 6 months and flight tickets: 15,586.83 € Sui Kiat Chang from Universiti Putra Malaysia for 6 months and flight tickets: 18,976.37 € Aleksandra Konic-Ristic from University of Belgrade for 6 months and flight tickets: 20,435.79 € Michał Janiak from Polish Academy of Sciences for 6 months and flight tickets: 16,980.47 € Idolo Iffe from IFR for 17 days and flight tickets : 2,989.47 €  Repair cost for the equipment used in quest researchers research: 848.10€	€ 120,783.44
<b>OTHER DIRECT - OTHER</b>			<b>total (€)</b>
			303,534.00
<b>OTHER DIRECT</b>			<b>total (€)</b>
			309,295.25
<b>INDIRECT</b>			
<b>INDIRECT</b>			<b>total (€)</b>
			123,277.05
<b>FORM C TOTAL(€)</b>			<b>900,382.24</b>

### 3.5. Appendixes

#### APPENDIX-1

##### 1) Differential Scanning Calorimeter (DSC):



##### 2) Raman High Resolution Visible Microscopy:



3) Iatrosan-Thin Layer Chromatography (IS-TLC):



4) Automated Clinical Analyzer (ACA):



5) Supercritical Fluid Extraction System:

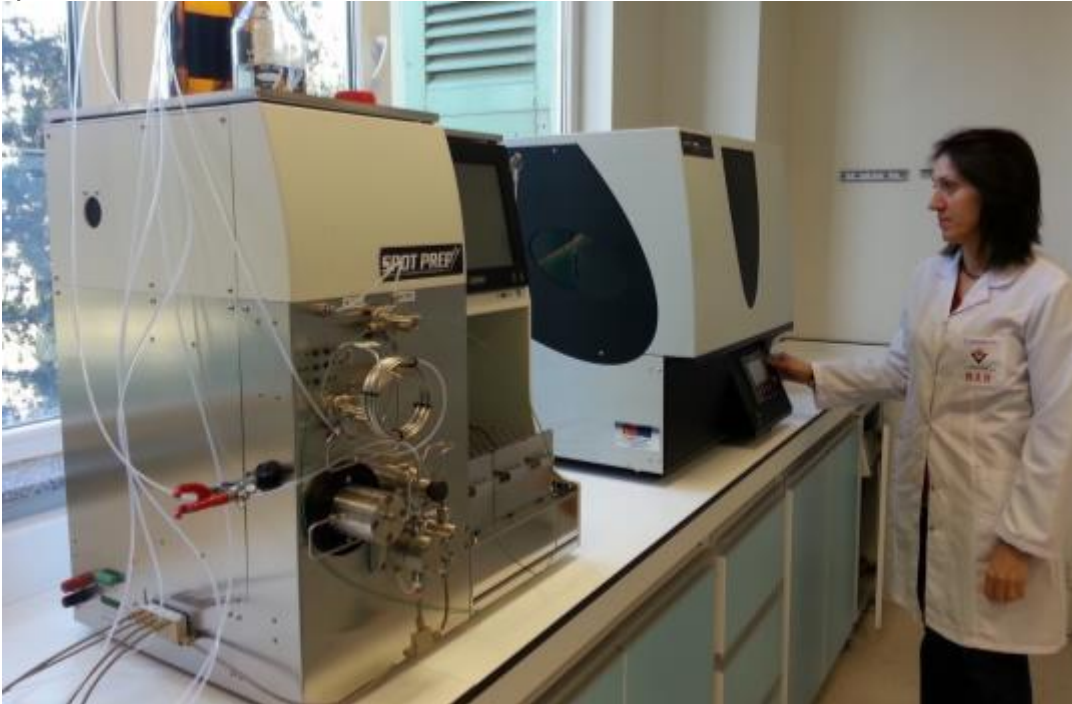


6) Membrane Filtration System:



**ADDITIONAL EQUIPMENT:**

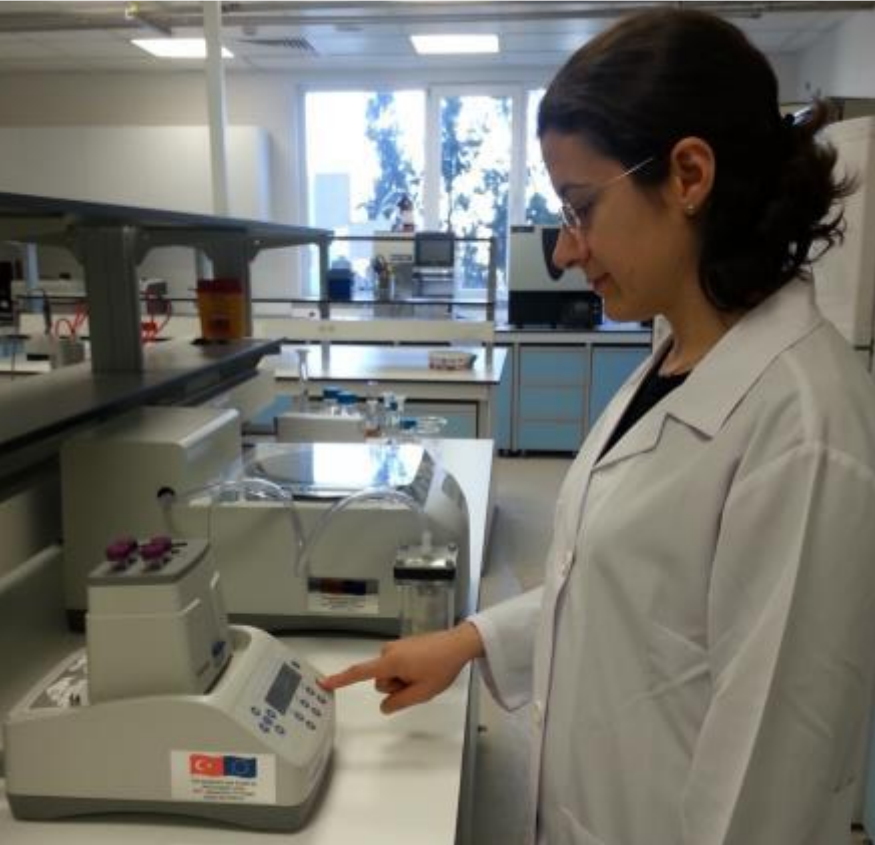
**7) CPC:**



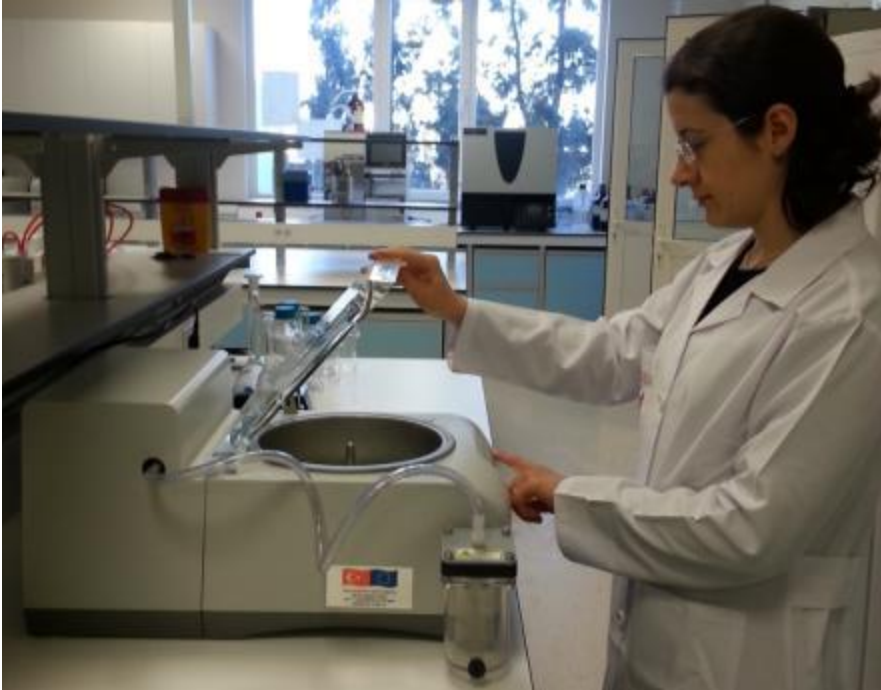
**8) Electrospinning system:**



9) Thermomixer:



10) Concentrator



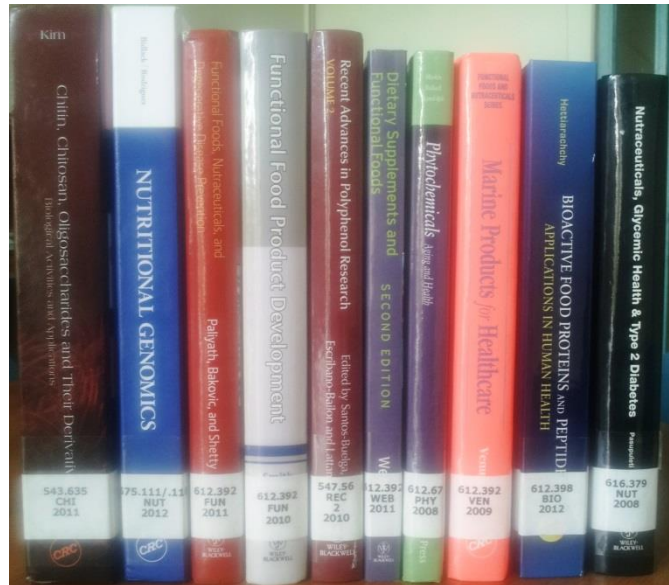
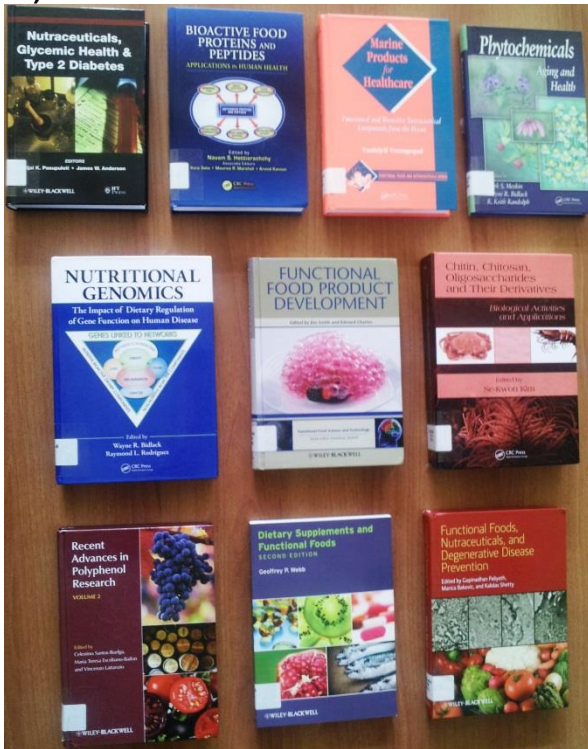
11) Refrigerator:



12) Laptop



13) Relevant Scientific Books:



APPENDIX-2

 **2014 Annual Conference & Exhibition**  
**Functional Foods, Nutraceuticals, Natural Health Products, and Dietary Supplements**  
14-17 October 2014, Istanbul - Turkey 

**Conference Co-Organizers**  
Dr. Fereidoon Shahidi (Canada)  
Dr. Chi-Tang Ho (USA)  
Dr. Debasis Bagchi (USA)  
Dr. Cesarettin Alasalvar (Turkey)

**Local Conference Chair**  
Dr. Cesarettin Alasalvar (Turkey)

**Important Dates**  
Abstract Submission Deadline: **July 07, 2014**  
Notification of Acceptance: **July 18, 2014**  
Early Bird Registration Deadline: **August 15, 2014**

**Conference Venue**  
Istanbul Military Museum & Culture Site

  
**www.isnff2014.org**

   **Organization Office**  
 Phn: +90 312 441 0700  
Fax: +90 312 441 0701  
www.arber.com.tr  
arber@arber.com.tr

### APPENDIX-3

#### Indicative Topics Produced from Brokerage Events for Horizon 2020

##### Brokerage Event - I:

- Development and Sustainable Production of Marine Nutraceuticals from Seaweeds and Microalgae Grown in the Black Sea.
- The Multipurpose Biotechnology for Conversion of Fish Co-products.
- Sustainable Use of European Anchovy from Black Sea for Human Consumption as Nutraceuticals and for Functional Use.

##### Brokerage Event - II:


- Sustainable Exploitation and Recovery of Bioactive Compounds from Agro-Industrial Waste and Byproducts and their Applications in the Development of Functional Food Supplement and Other Ingredients.
- Sustainability of Endangered Plants Rich in Phytochemicals for the Preservation of EU Biodiversity and their Use in the Improvement of Human Health: "Wild-Health"
- Inter-individual Variation in Response to Consumption of Plant Bioactives and Determinants Involved to Improve Diets of Different European Population Groups.

##### Brokerage Event - III:

- Compounds recovered from EU agro-food by-products and residues as high added-value ingredients for the production of novel functional foods related to healthy aging.
- Sustainable approaches for recovery of bioactive compounds from animal (dairy, fish and meat) industry.
- Novel biorefinery methods to generate marine bioactives, phlorotannins, pigments & fucoidans from algae.

APPENDIX-4

Ref. App/2015/9692922 - 08/09/2015

<b>Proposal Evaluation Form</b>		
	<b>EUROPEAN COMMISSION</b>  Horizon 2020 - Research and Innovation Framework Programme	<b>Evaluation Summary Report - Coordination and support actions</b>

**Call:** H2020-TWINN-2015  
**Funding scheme:** Coordination & support action  
**Proposal number:** 091967  
**Proposal acronym:** InnoWaste  
**Duration (months):** 36  
**Proposal title:** Improving the Innovation Capacity of TUBITAK MRC Food Institute on Exploitation of Food Waste and By-Products Through an Integrated Bio-refinery Approach  
**Activity:** H2020-TWINN-2015-1

N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU	TR	724,800	58.13%	582,240	58.23%
2	STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK	NL	270,906	21.73%	216,725	21.68%
3	UNIVERSITAET HOHENHEIM	DE	251,125	20.14%	200,900	20.09%
<b>Total:</b>			<b>1,246,831</b>		<b>999,865</b>	

**Abstract:**

Turkey is categorized as a 'modest innovator' in the EC's 'Innovation Union Scoreboard'. Turkish economy has been classified between in the stage of transition from "efficiency" to "innovation" driven. Turkey is well aware that innovation is becoming more important in the future of country's economic growth, and the possibility of generating more value by merely integrating and adapting exogenous technologies tends to disappear.

TUBITAK MRC Food Institute (FI), has been improving its infrastructure allowing the production at laboratory and pilot scale by using conventional and some emerging technologies, application of advanced analytical techniques, trained researchers with its ongoing R&D projects. It has acknowledged that although R&D is the main driver for innovation, but other tools beyond R&D has to be utilized to increase its innovative performance such as creating and participating in national and international networks and gaining the ability of exploiting external knowledge to convert into internal knowledge in the institute. TUBITAK MRC FI aspires to develop an innovation based culture of behaving, feeling, thinking, and believing with self-sustainability, rather than just gathering examples of innovative practices outside of the institute.

TUBITAK MRC FI acknowledges the great advantage of initiating a Twinning activity (InnoWaste) with internationally-leading partners at EU level, Wageningen University Food & Biobased Research Centre and University of Hohenheim to exploit their expertise in the field of development integrated approaches for complete utilization of food by-products/wastes in recovering valuable compounds, while trying to succeed zero waste, connections, networking by a number of different tools such as organizing and participating in workshops, seminars, trainings, and short-term mutual exchange programs to promote experience-based learning not only to support the institution's innovation strategy, but also accelerate its execution.

**Evaluation Summary Report**

**Evaluation Result**

**Total score: 12.00 (Threshold: 10)**

**Form information**

**SCORING**

Scores must be in the range 0-5.

**Interpretation of the score:**

- 0- *The proposal fails to address the criterion or cannot be assessed due to missing or incomplete information.*
- 1- *Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.*
- 2- *Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.*
- 3- *Good. The proposal addresses the criterion well, but a number of shortcomings are present.*
- 4- *Very good. The proposal addresses the criterion very well, but a small number of shortcomings are present.*
- 5- *Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.*

**Criterion 1 - Excellence**

Score: **4.50** (Threshold: 3/5.00 , Weight: 100.00%)

**Note:** The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme. If a proposal is partly out of scope, this must be reflected in the scoring, and explained in the comments.

- Clarity and pertinence of the objectives
- Credibility of the proposed approach
- Soundness of the concept
- Quality of the proposed coordination and/or support measures

*-The use of food processing waste and by-products as a source for functional ingredients represents an important, innovative and promising subject not only related to the food sector, but for instance also with respect to the pharmaceutical and cosmetics sector and the packaging industry.*

*-The full valorisation of food and bio-based waste is a problem of a global significance, which has been recognised as a priority in the frame of the EU.*

*-The specific objectives of the project are clear, realistic and achievable within the duration of the project, and fit very well to the Twinning scope.*

*-The proposed approach is credible because it is based on a concrete project: the establishment of a database of food waste in the applicant country and very good scientific ideas. However, it is somewhat over-ambitious and not elaborated in sufficient detail.*

*-The concept is sound and of high value for human society.*

*-The quality of the coordination is very high because the collaboration between the coordinator and the partners is already established in the frame of a previous project and the partners aim to enhance this collaboration in this specific field of research.*

#### **Criterion 2 - Impact**

Score: **4.00** (Threshold: 3/5.00 , Weight: 100.00%)

**Note: The following aspects will be taken into account, to the extent to which the outputs of the project should contribute at the European and/or International level:**

**The expected impacts listed in the work programme under the relevant topic**

**Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant**

*-The project will have a positive impact at different levels: personal (younger and more experienced scientists), institutional, national and European.*

*-The project will provide resources for cooperation and collaboration with other research entities that will result in joint projects at both national and international level.*

*-Strengthening the cooperation with industry is also expected. It will have a high impact on the coordinating group and improve the chances for turning the research institution into a 'Centre of Excellence' in the applicant country.*

*-The project will assist the agricultural and food sector (e.g. SMEs) to develop and move forward, which could generate regional development and employment growth. Improving the innovation and research capacity of the initiating institute will open new possibilities for cooperation with other research entities.*

*-Several success indicators, which are measurable, will be used for the assessment of the progress of the project. However, they are too optimistic and not very well explained.*

*-The impact for the partners has not been sufficiently described.*

*-The applicants have presented a very detailed and credible plan for dissemination and exploitation of results.*

*-IPR management is not sufficiently addressed although patent applications are considered as outputs.*

#### **Criterion 3 - Quality and efficiency of the implementation**

Score: **3.50** (Threshold: 3/5.00 , Weight: 100.00%)

**Note: The following aspects will be taken into account:**

**Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources**

**Complementarity of the participants within the consortium (when relevant)**

**Appropriateness of the management structures and procedures, including risk and innovation management**

*-The work plan is organised in a number of work packages that are well structured. The programme is realistic allowing the implementation of the tasks in time. The planned work and particularly the networking activities are in agreement with the objectives of the proposal and will lead to their successful achievement, e.g. extensive plans for short-term visits are developed for both experienced and less experienced researchers providing in this way a broader training aspect to the research community.*

*-Deliverables are well described. However, the vast majority of the deliverables are reports that will be delivered by the widening country resulting in a less balanced work load.*

*-Allocation of resources is well described.*

*-The project consortium is formed by partners with very good complementarity in their research profiles and synergy is expected from their collaborating activities. The tasks are distributed in a logic way.*

*-The management is well organised at several levels: project coordinator, steering committee and advisory board, which will assure a proper management and on-time implementation of the tasks. However, innovation and risk management is not sufficiently addressed.*

#### **Scope of the proposal**

Status: **Yes**

Comments (in case the proposal is out of scope)

Not provided

**Operational Capacity**

Status: **Operational Capacity: Yes**

If No, please list the concerned partner(s), the reasons for the rejection, and the requested amount.

Not provided

**Exceptional funding of third country participants/international organisations**

*A third country participant/international organisation not listed in [General Annex A to the Main Work Programme](#) may exceptionally receive funding if their participation is essential for carrying out the project (for instance due to outstanding expertise, access to unique know-how, access to research infrastructure, access to particular geographical environments, possibility to involve key partners in emerging markets, access to data, etc.). (For more information, see the [Online Manual](#))*

Based on the information provided in the proposal, we consider that the following participant(s)/international organisation(s) that requested funding should exceptionally be funded:

(Please list the Name and acronym of the applicant, Reasons for exceptional funding and the Requested grant amount.)

Not provided

Based on the information provided in the proposal, we consider that the following participant(s)/international organisation(s) that requested funding should NOT be funded:

(Please list the Name and acronym of the applicant, Reasons for exceptional funding and the Requested grant amount.)

Not provided

**Use of human embryonic stem cells (hESC)**

Does this proposal involve the use of hESC?

No

If yes, please state whether the use of hESC is, or is not, in your opinion, necessary to achieve the scientific objectives of the proposal and the reasons why. Alternatively, please also state if it cannot be assessed whether the use of hESC is necessary or not because of a lack of information.

Not provided

**Overall comments**

Not provided

APPENDIX-5

1 **MEMORANDUM OF UNDERSTANDING**

2 between

3 **Food & Biobased Research (FBR), institute within the legal entity Stichting Dienst**  
4 **Landbouwkundig Onderzoek, Wageningen, the Netherlands**

5 and

6 **TUBITAK, Marmara Research Center (MRC), Food Institute (FI), Turkey**  
7

8 We recognize mutual benefits of the bilateral collaboration between the two institutions in the  
9 research and development, processing, and characterization of functional foods, nutraceuticals  
10 and natural health products. Existing infrastructure of both institutions allows implementation of  
11 various basic, complex and applied projects. For the present activity several bilateral grants are  
12 recognized background for collaborative R&D activities and competences on both sides.

13 We consider prospective collaboration in the area of functional foods, nutraceuticals, natural  
14 health products through the joint project submission to scientific programs of Turkey, European  
15 Union, such as Horizon2020, and their following joint implementation using facilities of each  
16 other and publication of results.

17 **Framework of Cooperation**

18 The main objectives of this Memorandum of Understanding are: fostering mutual relations and  
19 promoting i) scientific cooperation between the researchers of TUBITAK, MRC-FI and the  
20 researchers of FBR, ii) joint basic research, iii) exchanging researchers, and iv) development of  
21 advanced technologies suitable for functional food production, including identifying new  
22 bioactive compounds, identifying the relationship between food compounds and health benefits  
23 to attain qualified health claims, v) development of suitable food vehicles, vi) share of intellectual  
24 property, "know-how" and transfer of products and technology to the industry developed within  
25 this collaboration.

26 The objectives of this Memorandum of Understanding are subject to the Parties' laws and  
27 regulations and shall not be deemed obligatory.

28

1 Other objectives:

- 2 1. Acquiring a more profound understanding and improve skills and research capacity in the  
3 area of functional foods, nutraceuticals and natural health products;  
4 2. Formulating prospective directions in R&D;  
5 3. Creating solutions for major issues addressed within the scope of the co-operation;  
6 4. Protection of the intellectual property rights;  
7 5. Coordinate networking and co-operative activities;  
8 6. Integrate into European Research Area through Horizon 2020 projects.

9

10 **Modes of co-operation**

11 Parties agree that the cooperation of the above mentioned objectives can, without limitation, be  
12 achieved by the following means:

- 13 • Preparation and submission of proposals to funding agencies and companies;  
14 • Implementation of the joint research & development projects and contracts;  
15 • Exchange programs for researchers on further collaboration areas;  
16 • Organization of training courses in the laboratories of both partners;  
17 • Organization of seminars, conferences and meetings.

18

19 **The proposed areas of R&D activity**

20 Research and development of the studies for the steps of process for bringing functional foods to  
21 market includes but not limited to the following activities:

- 22 1. identifying the bioactive compounds,  
23 2. identifying the relationship between food compounds and associated health benefits,  
24 3. assessing the stability and bioavailability of compounds in food matrices;  
25 4. demonstrating safety of functional compounds at efficacious levels;  
26 5. development of suitable food vehicle/delivery systems for the inclusion of bioactive  
27 ingredients into food matrices.

28

1 **Financial regulations**

2 1. The co-operative activity will be undertaken within the scientific remits and budgetary  
3 appropriations of both Parties that will bear the costs and expenses referring to the activities of  
4 **their own competences**. The Parties will form an agreement on the funding of each activity prior  
5 to committing to undertake each activity.

6

7 2. As far as the joint workshops are concerned, the following criteria apply as general guidelines:

8 a. the joint workshops will be held alternately in **Turkey** and in **the Netherlands**  
9 provided that the necessary funding can be found for the workshop;

10 b. **the sending party** will bear the expenses of international travel to the city of  
11 destination in the host country in which the visit/workshop will take place and all the  
12 living costs (accommodation and per diem allowance, if any);

13 c. **the sending party** will pay (following its own rules) for emergency medical care of  
14 its researchers during the stay in the host country.

15

16 **Confidentiality Undertakings**

17 Each Party and its affiliates will ask to hold in confidence and **not disclose to any third party**  
18 without the prior written consent of the other Party hereto nor use for any purpose other than that  
19 contemplated herein, any information specifically marked as "confidential" or "proprietary"  
20 received from the other party in connection with this Memorandum of Understanding (MoU). For  
21 purposes of this paragraph, "any third party" does not mean affiliate, and each Party is hereby  
22 permitted to disclose confidential information hereunder to its affiliates who have a bona fide  
23 need to know the same, provided that each will abide by the obligations of this paragraph. The  
24 Parties agree to hold the other Party's confidential information in confidence during the term of  
25 this MoU and for a period of five (5) years after expiration or termination of this MoU.

26 **Intellectual Property**

27 The intellectual property rights in all materials, publications, images and texts shall remain the  
28 property of the relevant Party. Any regulation in relation to intellectual property rights shall be  
29 agreed upon by the parties in separate agreements.

30

1 **Binding nature**

2 This MoU is not intended to be and will not create any legally binding obligation on any of the  
3 Parties, except as specifically set out in the present document. Any other further arrangement is  
4 subject to the negotiation and execution of a legal agreement, comprehensive of specific  
5 provisions concerning the management of intellectual property rights.

6

7 **Amendment and Termination of the MoU**

8 This MoU shall be valid for a period of five (5) years.

9 The present MoU may be amended or extended with the written agreement of the Parties.  
10 Termination before the end of the term by any party must be communicated in writing to the  
11 other with at least three (3) months' advanced notice.

12

13 **Reference Persons**

14 The reference persons, for the concrete follow-up of the activities of this MoU, are The  
15 Presidents and Heads of TUBITAK MRC and FBR. The reference persons of the Parties shall  
16 correspond or meet whenever necessary to discuss the implementation of this MoU.

17

18 **Law applicable and settlement disputes**

19 Any and all disputes between Parties arising out of or in connection with this Agreement (or any  
20 terms thereof), which the Parties are unable to resolve between themselves within forty (40) days  
21 shall be finally settled by arbitration. The arbitration shall be held by the competent court that is  
22 that of the place where the defendant is located in accordance with the Rules of Conciliation and  
23 Arbitration of the International Chamber of Commerce (ICC), by three (3) arbitrators appointed  
24 in accordance with the said Rules. The award rendered by the arbitrators shall be final and  
25 binding upon the Parties hereto. The language of the arbitration shall be English, and all disputes  
26 between the Parties ,

27

28 **Final Clause**

29 For the discipline of the relations between the Parties written technical documents shall be agreed  
30 upon, as foreseen in "Modes of co-operation", and the applicable law will be the one identified in  
31 "Law applicable and settlement of disputes".

1 This MoU is done in two copies in English language, both copies being equally authentic.

2 This MoU is signed on ..... in 2015

3

4

5 Managing Director of FBR

President of TUBITAK MRC

6

7

8

9 Prof. Dr. R.J. Bind

Name

10 \_\_\_\_\_ 2015

\_\_\_\_\_ 2015



## MEMORANDUM OF UNDERSTANDING

between

**Institute of Animal Reproduction and Food Research (IAR&FR) of the Polish  
Academy of Sciences (PAS), Poland**

and

**TUBITAK Marmara Research Center (MRC) Food Institute (FI), Turkey**

We recognize mutual benefits of the bilateral collaboration between the two institutions in the research and development, processing, and characterization of functional foods, nutraceuticals and natural health products. Existing infrastructure of both institutions allows implementation of various basic, complex and applied projects. For the present activity several bilateral grants are recognized background for collaborative R&D activities and competences on both sides.

We consider prospective collaboration in the area of functional foods, nutraceuticals, natural health products through the joint project submission to scientific programs of Turkey, European Union, such as Horizon2020, and their following joint implementation using facilities of each other and publication of results.

### **Framework of Cooperation**

The main objectives of this Cooperation are: fostering mutual relations and promoting scientific cooperation between the researchers of TUBITAK MRC FI and the researchers of IAR&FR, joint basic research, exchanging researchers, and development of advanced technologies suitable for functional food production, including identifying new bioactive compounds, development of suitable food vehicles, share of intellectual property, “know-how” and transfer of products and technology to the industry developed within this collaboration.

The objectives of this Cooperation are subject to the Parties’ laws and regulations and shall not be deemed obligatory.

**Final Clause**

For the discipline of the relations between the Parties written technical documents shall be agreed upon, as foreseen in "Modes of co-operation", and the applicable law will be the one identified in "Law applicable and settlement of dispute.

This MoU is done in two copies in English language, both copies being equally authentic.

This MoU is signed on \_\_\_\_\_ in 2015

Director of IAR&FR

President of TUBITAK MRC



\_\_\_\_\_  
Name Mariusz K. Piskula

\_\_\_\_\_  
2015

\_\_\_\_\_  
Name

\_\_\_\_\_  
2015

INSTITUTE OF ANIMAL REPRODUCTION  
AND FOOD RESEARCH  
OF THE POLISH ACADEMY OF SCIENCES  
Tuwima 10, 10-748 Olsztyn, Poland

## MEMORANDUM OF UNDERSTANDING

between

**Kaunas University of Technology**, legal entity's number 111950581, with its registered domicile at K. Donelaičio 73, Kaunas LT-44029, Lithuania, being represented by the Dean of Faculty of Chemical Technology Eugenijus Valatka

and

**TUBITAK Marmara Research Center (MRC) Food Institute (FI), Turkey**  
with its registered domicile at Baris Mah. Dr. Zeki Acar Cad. No:1 PK 21 41470 Gebze, Kocaeli, Turkey, being represented by the President of TUBITAK MRC

We recognize mutual benefits of the bilateral collaboration between the two institutions in the research and development, processing, and characterization of functional foods, nutraceuticals and natural health products. Existing infrastructure of both institutions allows implementation of various basic, complex and applied projects. For the present activity several bilateral grants are recognized background for collaborative R&D activities and competences on both sides.

We consider prospective collaboration in the area of functional foods, nutraceuticals, natural health products through the joint project submission to scientific programs of Turkey, European Union, such as Horizon 2020 and their following joint implementation using facilities of each other and publication of results.

### **Framework of Cooperation**

The main objectives of this Cooperation are: fostering mutual relations and promoting scientific cooperation between the researchers of TUBITAK MRC FI and the researchers of Department of Food Science and Technology and Food Institute of Kaunas University of Technology, joint basic research, exchanging researchers, and development of advanced technologies suitable for functional food production, including identifying new bioactive compounds, development of suitable food vehicles, sharing of intellectual property (IP) and "know-how", which will be developed within the scope of the Project, and transfer of products and technology to the industry developed within this collaboration.

1

**Final Clause**

For the discipline of the relations between the Parties written technical documents shall be agreed upon, as foreseen in "Modes of co-operation", and the applicable law will be the one identified in "Law applicable and settlement of disputes".

This MoU is done in two copies in English language, both copies being equally authentic.

This MoU is signed on \_\_\_\_\_ in 2015.

Dean of Faculty of Chemical Technology  
of Kaunas University of Technology

  
prof. Eugenijus Vaitka  
KTU Cheminės technologijos fakultetas  
Kaunas

Name

\_\_\_\_\_ 2015

President of TUBITAK MRC

\_\_\_\_\_ Name

\_\_\_\_\_ 2015

## MEMORANDUM OF UNDERSTANDING

between

**Technical University of Denmark, DTU Food, National Institute of Food (DTU Food)**  
**Anker Engelundsvej 1, Building 101, DK-2800 Lyngby, Denmark**

and

**TUBITAK Marmara Research Center (MRC) Food Institute (FI), Turkey**  
**Baris Mah. Dr. Zeki Acar Cad. No:1 PK 21 41470 Gebze, Kocaeli, Turkey**

We recognize mutual benefits of the bilateral collaboration between the two institutions in the research and development, processing, and characterization of functional foods, nutraceuticals and natural health products. Existing infrastructure of both institutions allows implementation of various basic, complex and applied projects. For the present activity several bilateral grants are recognized background for collaborative R&D activities and competences on both sides.

We consider prospective collaboration in the area of functional foods, nutraceuticals, natural health products through the joint project submission to scientific programs of Turkey, European Union, such as Horizon2020, and their following joint implementation using facilities of each other and publication of results.

### **Framework of Cooperation**

The main objectives of this Cooperation are: fostering mutual relations and promoting scientific cooperation between the researchers of TUBITAK MRC FI and the researchers of DTU Food, joint basic research, exchanging researchers, and development of advanced technologies suitable for functional food production, including identifying new bioactive compounds, development of suitable food vehicles, share of intellectual property, "know-how" and transfer of products and technology to the industry developed within this collaboration.

The objectives of this Cooperation are subject to the Parties' laws and regulations and shall not be deemed obligatory.

**Law applicable and settlement of disputes**

Any and all disputes between the Parties arising out of or in connection with this MoU including its interpretation and use, which the Parties are unable to resolve between themselves within forty (40) days shall be finally settled by arbitration according to the national laws of the defendant, however without any reference to the conflict of law rules of the defendant's home country.

Thus, any disputes which have not been resolved within the above time period shall be settled in accordance with the Rules of Conciliation and Arbitration of the International Chamber of Commerce (ICC). Provided the dispute in question amounts to € 100.000 or less, the arbitration panel shall consist of one (1) arbitrator. Any dispute exceeding € 100.000 shall be resolved by an arbitration panel of three (3) arbitrators. The arbitrator(s) shall be appointed in accordance with the said Rules. The award rendered by the arbitrators shall be final and binding upon the Parties hereto. Provided DTU Food is defendant of the dispute, the arbitration panel shall be situated in Copenhagen. Provided TUBITAK MRC is the defendant of the dispute, the arbitration panel shall be situated in [insert details]. The language of the arbitration shall be English.

**Final Clause**

This MoU is done in two copies in English language, both copies being equally authentic.



Christine Nellemann  
Director of DTU Food

1/7 2015 2015

 **DTU** National Food Institute  
Technical University of Denmark  
Mørkøvej Bygade 19  
DK-2860 Søborg  
Denmark

\_\_\_\_\_  
President of TUBITAK MRC

\_\_\_\_\_  
2015

## MEMORANDUM OF UNDERSTANDING

between

University of Wales Trinity Saint David, UWTSD

and

TUBITAK Marmara Research Center (MRC) Food Institute (FI), Turkey

We recognize mutual benefits of the bilateral collaboration between the two institutions in the research and development, processing, and characterization of functional foods, nutraceuticals and natural health products. Existing infrastructure of both institutions allows implementation of various basic, complex and applied projects. For the present activity several bilateral grants are recognized background for collaborative R&D activities and competences on both sides.

We consider prospective collaboration in the area of functional foods, nutraceuticals, natural health products through the joint project submission to scientific programs of Turkey, European Union, such as Horizon 2020, and their following joint implementation using facilities of each other and publication of results.

### **Framework of Cooperation**

The main objectives of this Cooperation are: fostering mutual relations and promoting scientific cooperation between the researchers of TUBITAK MRC FI and the researchers of UWTSD, joint basic research, exchanging researchers, and development of advanced technologies suitable for functional food production, including identifying new bioactive compounds, identifying the relationship between food compounds and health benefits to attain qualified health claims, development of suitable food vehicles, share of intellectual property, "know-how" and transfer of products and technology to the industry developed within this collaboration.

The objectives of this Cooperation are subject to the Parties' laws and regulations and shall not be deemed obligatory.

**Final Clause**

For the discipline of the relations between the Parties written technical documents shall be agreed upon, as foreseen in "Modes of co-operation", and the applicable law will be the one identified in "Law applicable and settlement of disputes".

This MoU is done in two copies in English language, both copies being equally authentic.

This MoU is signed on ..... in 2014

Vice Chancellor of UWTSD

President of TUBITAK MRC



Name

\_\_\_\_\_ 2014

Name

\_\_\_\_\_ 2014

APPENDIX-6

The official letter from universities for PhD Students:



T.C.  
YEDİTEPE UNIVERSITY  
FACULTY OF ENGINEERING AND ARCHITECTURE  
DEPARTMENT OF FOOD ENGINEERING

October 16, 2015

To whom it may concern,

Ebru Pelvan is writing her PhD thesis in this Autumn Semester of 2015, and she will defense her PhD thesis in the Spring Semester of 2016.

Mustafa Özilgen, PhD

Professor and the Advisor of Ebru Pelvan's PhD dissertation



**DEPARTMENT OF MOLECULAR BIOLOGY & GENETICS**  
**ISTANBUL TECHNICAL UNIVERSITY**  
**FACULTY OF SCIENCE & LETTERS**  
34469 Maslak-ISTANBUL

29.12.2015

To whom it may concern,

Tarik Öztürk is writing his PhD thesis in the present Fall Semester of 2015, and he is expected to defend his PhD thesis in the coming Spring Semester of 2016.

Sincerely,

A handwritten signature in blue ink, which appears to read 'Zeynep Çakar'.

Prof. Dr. Zeynep Petek ÇAKAR

Ph.D. advisor of Tarik Öztürk and  
Head of the Department

APPENDIX-7

News related to International 2<sup>nd</sup> Sabri Ülker Science Award got by NUTRAHEALTH team members

Website of "UlkeHaber"



Website of "StarHaber"



Website of ULKER (Foundation)



The video about the award has presentation of NutraHealth Center as well.  
<https://www.youtube.com/watch?v=meG5YcqgLRQ>



News related ISNFF 2014 organized by NUTRAHEALTH

<http://isnff2014.org/>



on Tubitak's web page

<http://mam.tubitak.gov.tr/duyuru/7-uluslararasi-nutrasotikler-ve-fonksiyonel-gidalar-kongresi-ve-fuari>



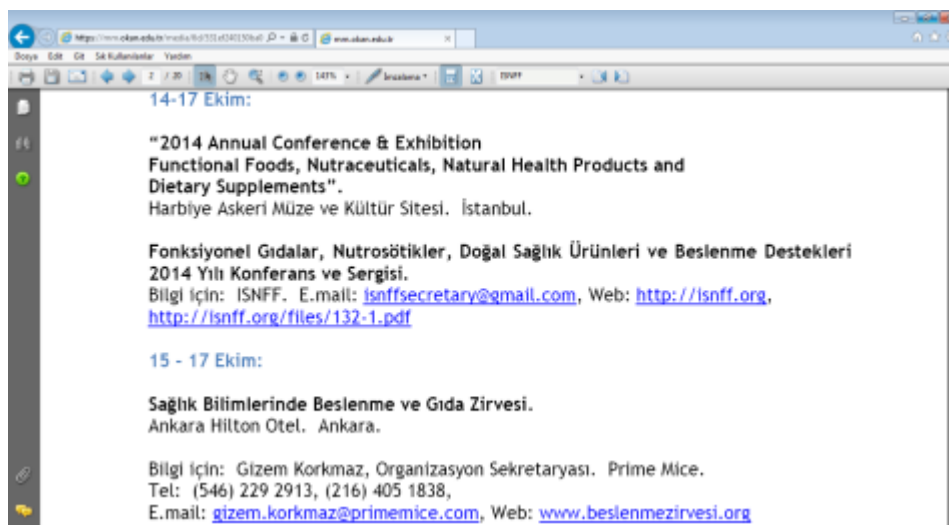
on Tubitak's Bulletin



**European Food Information Council (EUFIC) at ISNFF**  
<https://storify.com/EUFIC/eufic-at-the-isnff-2014-conference>



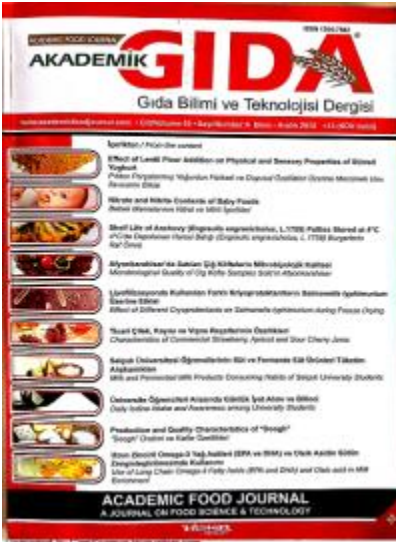
**Web page of universities**



on different web pages of food producers' associations



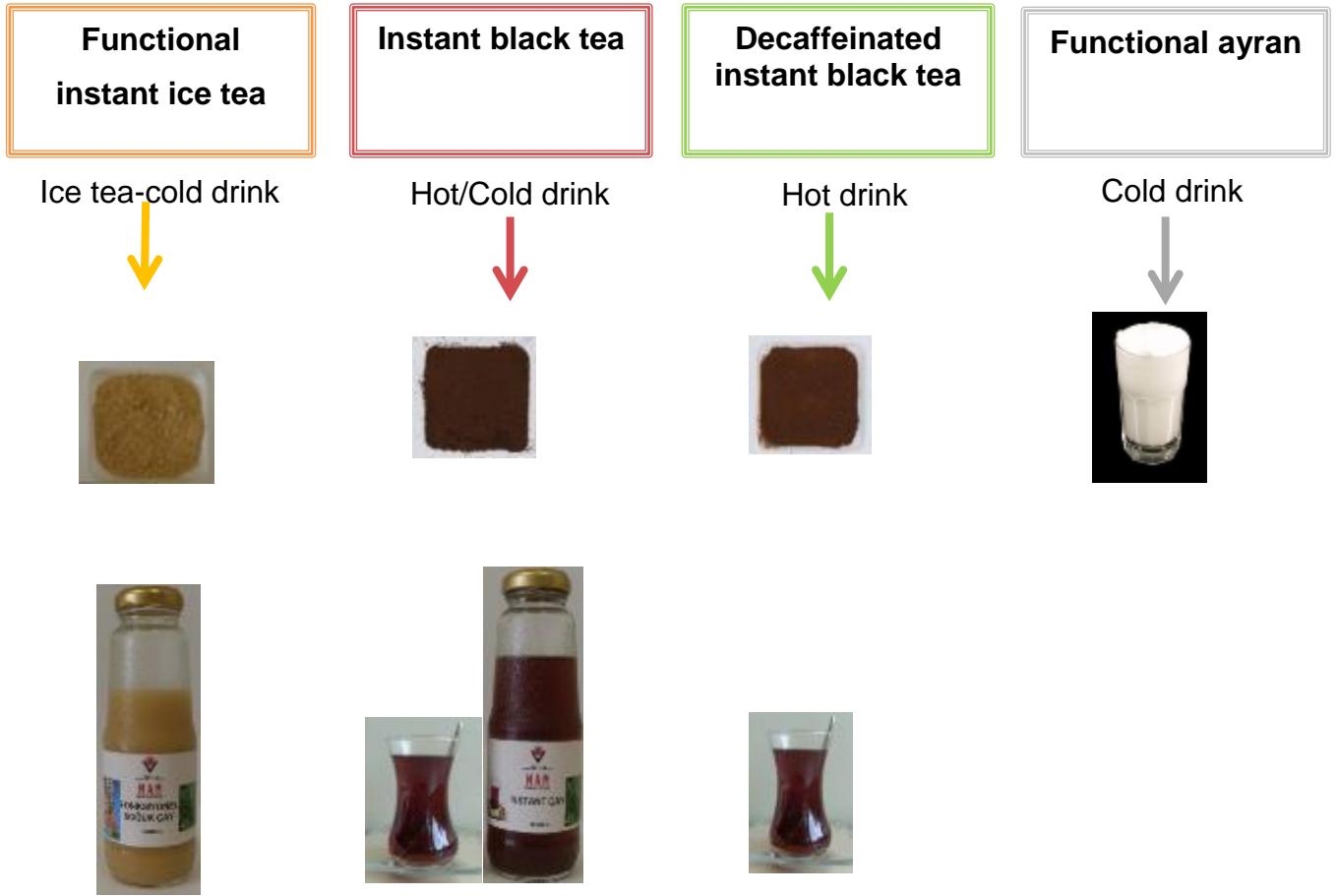




Advertisement was published in 07 February 2013, on the web-page ([www.gidadernegi.org](http://www.gidadernegi.org)) of the largest food associations of Turkey: "The Association of Food Technology"



APPENDIX-8



APPENDIX-9

Evaluation Report of Prof. Torger Borresen, Advisory Board Member:



Professor Cesarettin Alasalvar  
TÜBİTAK Marmara Research Center  
Food Institute  
P.O. Box 21, 41470 Gebze – Kocaeli  
TURKEY

20 May 2014

**Advisory statement**

Dear Professor Alasalvar,

This statement is based on the information received during the meeting of the Steering Group/Advisory Committee of the project NutraHealth Friday 16 May 2014. The committee also had a tour of the research laboratories and pilot plant of Tubitak.

The project Coordinator, Dr. Cesarettin Alasalvar presented a convincing overview of the project plans and the status and achievements having been obtained so far. The project members were also present and supplied valuable information to the presentation. After the presentation the committee members asked questions, gave advice and a fruitful discussion followed.

The work in all eight Work Packages is developing well with only a few delays, which were all explained. It is my opinion that none of these will cause any concern as to the fulfillment of the project objectives at this stage of the project. A plan for 2014 was presented and dissemination activities highlighted.

In total 15 success indicators have been set for the three year project period. The status was presented, and it was obvious that in most cases the project was over performing relative to the indicators. In a project like this, where expertise is being built, it is very satisfying to see that proposal for participation in two new EU supported projects have already been obtained (indicator 1). The aim was set as a total of three. The number will most likely be much higher before the end of the project. Presentations at international scientific conferences were set to a total of 15, but until now already nine have been achieved (indicator 3). Similarly already 10 publications in peer reviewed scientific journals have been obtained out of a target of 12.

For public dissemination on the established website 7451 hits had been obtained until now. The target was 3000. This is a modest target today and could easily be extended by providing more news items on the website. One newsletter has been produced, which in my opinion is too little considering all the good results having been obtained so far. My advice would be to produce more newsletters and a news service for website visitors.

CVR-nr. DK-30 06 09 46

Technical University of Denmark

Tlf. +45 45252577  
Mob. +45 40251223



New equipment has been purchased, but has not been installed yet due to delay in the finishing of new laboratories of the institute. This is beyond the control of the project management, and will hopefully be solved during the present year.

Very good achievements have been obtained relative to contacts to and collaboration with SMEs (indicators 10 and 15). Further, three new products have been developed (indicator 14), and it is foreseen that they will reach a stage where they will enter the market. The first stage of application for a patent has been passed, which is encouraging. The contact to the SMEs was discussed extensively, as it is considered very important for implementing research results to the industry. The mechanisms for bringing products to the market may be very favorable in Turkey because of a rapidly improving infrastructure and governmental support of business development.

The development of the Ph.D. educations and exchange programs are developing according to plans with only one exception, where a commercial company had failed to fulfill negotiated agreement. A substitute is tried to be developed.

In conclusion my statement is that the project is developing with great success.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Torger Børresen', written over a light blue horizontal line.

Torger Børresen, Ph.D.  
Chief Executive Officer  
torgr@food.dtu.dk