

Obesitas and Diabetes prevention

Table 1.3 a: Work package list

Work package No	Work package title	Type of activity	Lead participant No	Person-months	Start month	End month
1	Management	Man	1	8	1	36
2	Eating Habits	RTD	1	40	1	24
3	Therapeutics	RTD	2	50	1	24
4	Demonstration	Dem	3	30	18	36
5	Dissemination	OTH	4	12	1	36
	TOTAL			140		

Table 1.3 c: Work package description

Work package number	1	Start date or starting event:				1
Work package title	Management					
Activity Type	Management					
Participant number	1	2	3	4		
Person-months per participant:	5	1	1	1		

Objectives

Key objective of this work package is to establish a highly effective and efficient partnership within the entire consortium.

Over and above the technical management of individual work packages, an appropriate management framework linking together all the project components and maintaining communications with the Commission will be set up.

The activities of the consortium will be monitored and discussed in view of its expected achievements versus the success during the entire project duration.

Description of work

Task 1.1 General Management: In total, 7 consortium meetings (including the kick-off meeting) will be held with the entire consortium. The network meetings will be combined and coordinated with other international events.

Consortium meetings will be held twice a year, they will be the platform for discussion of progress of the project, decision making, experiences in implementing the WPs foreseen in the workplan, results of the project, feed-back from researchers, feed-back from the advisory board.

Due to the structure of the management of this project, close information exchange between work package leaders will be necessary. They will have the opportunity for discussions before each of the consortium meetings. Additionally, they will be in close e-mail based contact and will meet approximately in every 3 months.

Task 1.2 Reporting: Reporting within the consortium will be done on the basis of quarterly report forms, agreed upon during the kick-off meeting. This reporting procedure will allow closer monitoring of the project progress. Quarterly reports will also facilitate the preparation of annual reports, thus allowing more effective monitoring of the project.

Work package number	2	Start date or starting event:				1
Work package title	Eating habits					
Activity Type	RTD					
Participant number	1	2	3	4		
Person-months per participant:	12	24	4	0		

Objectives

1. Clarify the physiological pathways determining eating habits in children.
2. Specify the main nutritional signals to influence body weight

Description of work

Task 2.1 Partner 2 will study the preferences of eating habits in a group of 250 children in a controlled environment. Using a none-invasive method with a Coronary Lipomic Enhancer the Short Chain Fatty Acids, HDL and LDL cholesterol will be measured in the bloodstream.

Through an nmr-scan we plan to measure the electrolyte and neurotransmitter release before during and after a meal in the 20% most obese children in this group. The institute of PATAT has special nmr equipment for this purpose.

This data will be combined in a kinetic computer model to clarify the physiological pathways determining eating habits in children.

Task 2.2 Partner 1 will use this kinetic model to specify the main nutritional signals to influence body weight. Partner one will test these biomarkers in knock-out giraffes, for the 235pg gene. causing morbid obesity in giraffes. SME 3 will develop the necessary tests to measure the influence of the nutritional signals on the 235pg gene.

Work package number	3	Start date or starting event:				1
Work package title	Therapeutics					
Activity Type	RTD					
Participant number	1	2	3	4		
Person-months per participant:	0	10	20	20		

Objectives

1. Using the model for nutritional signals in WP2 develop at least 5 bioactive compounds to influence the body weight in children
2. Screen for food-grade biological compounds within the group of bioactive compounds.

Description of work

Task 3.1 Partner 3 and 4 will use the same animal model (morbidly obese giraffes) to test bioactive compounds on changing the body weight. A number of candidate compounds have been identified in plants from the *Crassulaceae* family.

These bioactive compounds will be isolated using HPLC techniques. The 5 most effective compounds will be selected using a set of preselected criteria for further testing in task 3.2

Task 3.2 Partners 2 and 3 will use the compounds selected in task 3.1 and test them for safety (using the European Food Safety Agency guidelines for bioactive compounds) so they can be further developed in a test product. . A double blind test will be done to measure the effectiveness of the GRASS compound testing the morbidly obese giraffes.

Work package number	4	Start date or starting event:				18
Work package title	Therapeutics					
Activity Type	Demonstration					
Participant number	1	2	3	4		
Person-months per participant:	8	10	0	12		

Objectives

1. Development of a test chocolate-bar with bioactive compounds for use in school lunches
2. Testing the effectiveness of the chocolate-bars on 15 schools in 5 different European countries.

Description of work

Task 4.1 Partner 2 and 4 will jointly develop a healthy chocolate bar with the Bioactive compound selected in task 3.4. This chocolate bar will be tested on a taste panel to test the appeal of this bar to children.

Task 4.2 Partner 1 will select 15 schools in 5 different European countries to test the effectiveness of the chocolate bars. Students will receive one bioactive chocolate bar in their school lunches. The weight and general health of the students will be constantly monitored.

Work package number	5	Start date or starting event:				1
Work package title	Dissemination					
Activity Type	Other					
Participant number	1	2	3	4		
Person-months per participant:	4	2	3	3		

Objectives

1. Develop a project website
2. Develop a quarterly project news letter
3. Present the demonstration results to the EFSC (European Federation of School Cafeteria's)
4. Present results in a closing workshop

Description of work

Task 5.1 Partner one will develop and maintain the website, the website will be aimed at three groups:

- 1 a restricted part for the project partners,
- 2 a public part aimed at health professionals and researchers
- 3 a public part aimed at Schools and Parents.

Task 5.2 Partner 2 will publish a quarterly e-news letter for health professionals and researchers on the progress of the project.

Task 5.3: Partner 3 will be organise a workshop in month 24, before starting the demonstration project for the EFSC explaining the effects of the bioactive compounds.

Task 5.4 A closing workshop will be organised for the research community by partner 4.