

WG 3: Biological extraction of food and feed from residues and wastes

Dear colleagues,

It was an absolute pleasure to meet you at Boras. During the meeting in Boras (23 and 24.05.2022). Working group 3 is divided into two subgroups according to the field (research) interest of present members. All members can choose one of the subgroups and participated in it. On this link you can add your Name and Surname under subgroups (https://docs.google.com/spreadsheets/d/13CE03n9uhksi0G7-YmimBnR5t6fl_08T3FJTk_cfjaw/edit?usp=sharing).

The first subgroup is dedicated to Socio-economic dimension of revalorization of food and feed waste streams and for the co-leader was chosen dr Myriam Taghouti from FeedInov CoLab (Portugal). The second subgroup is dealing with extraction and valorization of food and feed waste streams in practical way, gathering researchers covering different part of value chain. The co-leader of the second subgroup is dr Aleksandra Nešić from Faculty of Technology Novi Sad (Serbia).

A major goal of COST actions is to favour networking, in particular with new colleagues. At the beginning of our meeting in Boras, we also spoke about Erasmus agreements by ours Institutions. I will wait for the Erasmus agreements filled in by your Institutions by the end of September 2022, than I will prepare one zip file with all the agreements and send it to all interested partners. In this way we will be more connected and also we can use Erasmus program for mobility. Your agreements should be sent to gore_nakov@hotmail.com

Sub-group I - Fruits by-product valorization – towards understanding economic and social aspects

The members of the sub-group agreed on implementing a collaborative approach linking Academia to Industry aiming at the definition of the main limitations that hinder the adoption of the by-products valorization as feed and food.

The scope of the 1st year plan will be the fruit by-products generated mainly by the juice-making industry.

With the planned tasks, we expect to get closer to the industry and to involve them in the next year's workplan, focusing on further aspects of the social and economic impacts as well as the elaboration of policies suggestion and best practices compilation.

The main objectives of the proposed workplan are:

- 1- To enhance the understanding of the current practices at the level of juice-making industries regarding the valorization of generated by-products.
- 2- To get an overview of the consumer perception of the sustainability of agri-food waste and, simultaneously, his level of acceptance of by-product based food.

The workplan was organized into 3 tasks:

Task 1	Mapping of the by-products of fruit juice-making industry			
Leader: Natasha Nastic	Start month:	06/22	End month:	09/22
Aim	This task aims at creating a data base including information regarding the main used fruit in the juice industry.			
Deliverable T1	Data base: fruit species, main producing countries, estimative by-product quantities, current valorization and upcycling practices.			
Milestone M1	Selection of the by-products that will be included in the surveys of Task 2.			

Task 2	Current practices and consumer perception: a survey approach			
Leader: Suncica Rogic	Start month:	10/22	End month:	04/23
Aim	This task aims at giving an overview of the current situation of by-products valorization in juice-making industry as well as the consumer perception and behavior regarding food made of by-products upcycling.			
Sub-tasks	This task is divided into 4 sub-tasks.			
T2.1	Literature review of the state-of-the-art of surveys in the same thematic strand.			
T2.2	Surveys design and sampling approach definition			

T2.3	Survey execution – for the companies and consumers
T2.4	Results analysis and exploitation
Deliverable T2	Surveys and respective results exploration.
Milestone M2	Validation of the drafted surveys.

Task 3	Communication and dissemination			
Leader: AtIf Emre Demet	Start month:	06/22	End month:	05/23
Aim	Communication and dissemination of surveys and results			
Sub-tasks	This task is divided into 2 sub-tasks.			
T3.1	Scientific communication			
T3.2	Professional and technical communication			
Deliverables T3	Scientific papers (2 ?) Videos and infographics			
Milestone M3	Selection of results to be presented in the FULLRECO4US conference in 2023.			

Management structure: monthly meetings online (the subgroup full team) with specific meetings, according to the milestones Schedule, between the tasks leaders and the subgroup leader.

Expected budget: eventually help with publication fees – to be discussed.

Sub-group II - Valorization and implementation of food and feed waste

Colleagues participants will start with review paper: Extraction and Valorization of oilseeds cakes for value-added food component – A review for a sustainable foodstuff production in a case process approach.

Colleagues will be working with different nutrients in oil cakes such as:

Fats –

Dr Mishela Temkov (Nord Macedonia)

Dr Joana AMARAL (Portugal)

Proteins –

Dr Hazal ÖZYURT (Turkey)

Ms Monika SZABÓOVÁ (Slovakia)

Phenolic compounds –

Dr Aleksandra NESIC (Serbia)

Dr Joana AMARAL (Portugal)

Polysaccharide –

Dr Yordan GEORGIEV (Bulgaria)

Ms Bilge YILMAZ (Turkey)

Extraction residues

Fermentation –

Dr Witold PIETRZAK (Poland)

Insects –

Dr Manfred MIELENZ (Germany)