

European Non-Wood Forest Products (NWFPs) Network

COST Action FP1203 MC/WG Meeting

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WG3: Understory plants

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WG3: Understory plants

- **Identifying the understory plants and their uses (medicinal, aromatic, edible etc) in the European countries.**
- **The current commercial status of them (local use/commercial, wild collection/cultivation).**
- Recording the existing knowledge about their ecology.
- Establishing a database
- Reviewing models and modeling methodology and identifying the model gaps for the uses of the understory plants in Europe.
- Management aspects
- Economics, marketing and policies. Cultivation and trade for understory plants.



WG3: Understory plants

- The FAO classification was followed:
 1. Edible
 2. Medicinal and aromatic
 3. Forage
 4. Ornamental
 5. Colorants and dyes
 6. Utensils, handicrafts & construction
 7. Others



WG3: Understory plants

A list (an excel file) has been spread to all the WG members and filled

The list will be also spread and to the others cost members out of the WG (for the case that they have information).

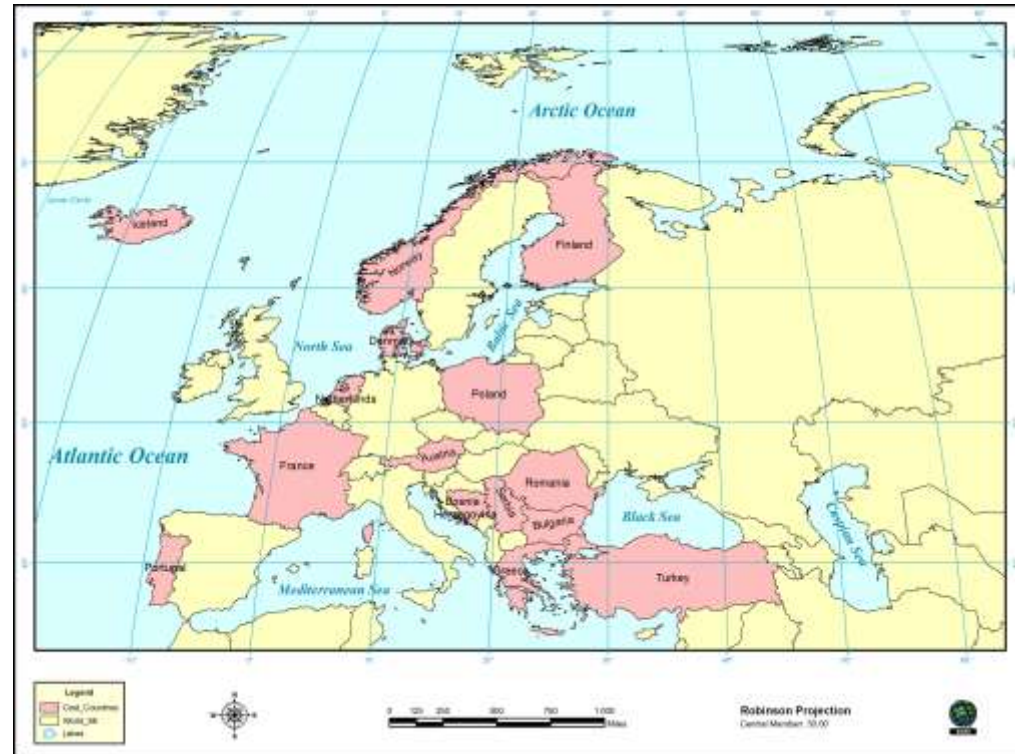


Species name	Uses								Raw material/product description					
	Food	Forage (fodder)	Medicinal	Aromatic	Colorants and dyes	Utensils, handicrafts & construction	Ornamental	Other uses (short description)	Commercial	Potential	Innovative	Collected (wild)	Cultivated	Contact*/Source
Origanum vulgare	√		√						√			√	√	
Quercus rubra								X	X					



WG3: Understory plants

- WG composition:
- Austria
- Bosnia and Herzegovina
- Bulgaria
- Denmark
- **Finland**
- France
- **Greece**
- **Iceland**
- **Lithuania**
- **Netherlands**
- **Norway**
- Poland
- Portugal
- Romania
- Serbia
- Turkey



WG3: Understory plants - Edible

		Fin	Ice	Lith	Neth	Nor	Gr
1	<i>Aegopodium podagraria</i>			√			
2	<i>Alliaria petiolata</i>			√			
3	<i>Allium ursinum</i>			√			
4	<i>Amelanchier spicata</i>			√			
5	<i>Anthoxanthum odoratum</i>		√				√
6	<i>Arctium nemorosum</i>			√			
7	<i>Berberis vulgaris</i>			√			
8	<i>Betula pubescens</i>		√ c				
9	<i>Campanula trachelium</i>			√			
10	<i>Cirsium oleraceum</i>			√			
11	<i>Corylus avellana</i>			√			√
12	<i>Empetrum nigrum</i>				√	√	
13	<i>Filipendula ulmaria</i>		√				
14	<i>Fragaria vesca</i>		√ c	√	√	√	√
15	<i>Larix decidua</i>			√			
16	<i>Malus silvestris</i>			√			
17	<i>Origanum vulgare</i>	√ c					
18	<i>Oxalis acetosella</i>			√			
19	<i>Phyteuma spicatum</i>			√			
20	<i>Picea abies</i>			√			
21	<i>Pyrus pyraister</i>			√			
22	<i>Quercus robur</i>			√			
23	<i>Ribes nigrum</i>		√ c	√			
24	<i>Ribes spicatum</i>		√ c	√			
25	<i>Ribes uva-crispa</i>						
26	<i>Rubus caesius</i>			√			√
27	<i>Rubus chamaemorus</i>				√ c	√	
28	<i>Rubus idaeus</i>		√	√	√ c	√	√
29	<i>Rubus nessensis</i>			√			
30	<i>Rubus saxatilis</i>		√	√			√
31	<i>Rumex acetosa</i>		√				
32	<i>Scorzonera humilis</i>			√			
33	<i>Sorbus aucuparia</i>			√			
34	<i>Taraxacum officinale</i>		√				
35	<i>Urtica dioica</i>			√ c			
36	<i>Vaccinium microcarpum</i>			√ c			
37	<i>Vaccinium myrtillus</i>	c	√	√ c	√	√	√
38	<i>Vaccinium oxycoccus</i>			√ c	√	√	
39	<i>Vaccinium uliginosum</i>		√	√ c	√	√	√
40	<i>Vaccinium vitis-idaea</i>	c	√	√ c	√	√	√

WG3: Understory plants - Forage

- Information from: Lithuania, Greece, Iceland
- Lithuania: 41 herbaceous species
- Greece: 80 (20 shrubs or trees and 60 herbaceous species). The list is not complete – It is only one case study
- Lithuania-Greece: Only 8 herbaceous species in common
- Iceland: *Salix herbacae*



WG3: Understory plants – Medicinal/Aromatic

Species name	Norway	Netherlands	Finland	Iceland	Lithuania	Greece
<i>Empetrum nigrum</i>	X	X		X	X	
<i>Rubus idaeus</i>	X C	X C		X C	X C	X C
<i>Vaccinium myrtillus</i>	X	X		X C	X C	X C
<i>Vaccinium oxycoccos</i>	X	X			X C	
<i>Vaccinium vitis-idaea</i>	X	X		X	X C	X
<i>Origanum vulgare</i>			X C		X	X C
<i>Arcostaphylos uva-ursi</i>				X	X C	
<i>Betula pubescens</i>				X C	X C	
<i>Calluna vulgaris</i>				X	X C	
<i>Filipendula ulmaria</i>				X	X	
<i>Fragaria vesca</i>				X C	X C	X C
<i>Geranium sylvaticum</i>				X	X	
<i>Juniperus communis</i>				X C	X C	X
<i>Prunella vulgaris</i>				X	X	X
<i>Rubus saxatilis</i>				X	X	
<i>Sorbus aucuparia</i>				X	X	
<i>Viburnum opulus</i>				X	X	

WG3: Understory plants – Medicinal/Aromatic

Except the above list:

- Greece: other 90 plant species
- Iceland: other 20 plant species
- Lithuania: other 41 plant species



WG3: Understory plants – Other Uses

Species name	Colorants and dyes		
	Iceland	Norway	Netherland
<i>Vaccinium myrtillus</i>		x	x
<i>Calluna vulgaris</i>	x		
<i>Betula pubescens</i>	x c		
<i>Vaccinium uliginosum</i>	x	x	x
<i>Geranium sylvaticum</i>	x		
<i>Juniperus communis</i>	x c		
<i>Galium verum</i>	x		
<i>Salix phylicifolia</i>	x		
<i>Galium normanii</i>	x		
<i>Trifolium repens</i>	x		
<i>Equisetum arvense</i>	x		
<i>Empetrum nigrum</i>	x		
<i>Parmelia saxatilis</i>	x		
<i>Alchemilla vulgaris</i>	x		
<i>Filipendula ulmaria</i>	x		
<i>Descampsia caespitosa</i>	x		
<i>Arcostaphylos uva-ursi</i>	x		
<i>Equisetum pratense</i>	x		

WG3: Understory plants – Other Uses

Other Uses

- Iceland : Christmas trees, Firewood
- Lithuania: 59 plant species
- Greece: 25 plant species, Ornamental, Colorants and dyes

WG3: Understory plants

Deadline the list to be completed: 2 months

- Other information will be add to the completed list (part of the plant edible, medicinal/aromatic, the way of use et)
- Focus only on a limited number of each category – Target species
- Listing the remaining



WG3: Understory plants

How the target products will be choose?

- Ecological/environment (North-Central-South)
- Economic importance (Species with common uses)
- Social importance (local importance)
- Innovative importance (new commercial products derived from the understory plants)
- Existing data and models
- Existing management system (collection?)



WG3: Understory plants

About the book title i

- Sustainable management of European
- **New directions for European NWFPs**

What contents? Each WG/TF a chapter? What within each chapter?

- 2 parts to book
- State of the art
- Innovative ideas
- The majority of the WG3 believes that it is better for each WG all the TF.



WG3: Understory plants

Review articles-state of the art

1. Access to forest resources in the European countries (public vs private, regulations etc)

Coordinator: Michal Kalinowski

Collaboration: TF4? Any other that interested.

2. Medicinal/aromatic plants Scandinavia/Mediterranean

Coordinator: Apostolos Kyriazopoulos

3. Grazing in forest??? North-South

Coordinator: Eleni Abraham and Lilja Magnusdottir



WG3: Understory plants

- Database: what database and information we want...

Innovative products...marketing, associations

- Shall we have a common survey?

It has to be defined:

1. Who is going to be asked (cost members?)

2. About what?

- Training Schools

A common with WG4

Isolation and characterization of extractions of understory plants



NWFP Thank you!



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