

## Ethnobotanical knowledge in the agro-pastoral world of Putifigari village, Sardinia, Italy

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**Abstract.** The present research was carried out from 1998 to 2000 in Putifigari, a small village in the Province of Sassari (Sardinia, Italy) with the aim of recovering traditional knowledge and customs concerning the use of plants in the community. Some important elements from the agro-pastoral heritage and the role played by plants in this context have permitted detailed description of daily scenes, with reference to breeding techniques and traditional cultivation, to uses

and costumes of the shepherd, farmer, blacksmith, joiner, charcoal-maker and their domestic life. Ethnobotanical knowledge of Putifigari corresponds to the general heritage of the Mediterranean basin and traditional uses that go back to Greek-Roman culture. Some original information about 208 species analysed can have practical use in biotechnological modern productive systems, in new breeding techniques, in handicrafts and in rural tourism.

**Key words:** Ethnobotany, Putifigari, Sardinia, Traditional plants

### INTRODUCTION

The economical and social changes that have occurred in recent years in the Mediterranean area have involved even isolated rural areas, modifying habits and ways of living of the agro-pastoral world with its secular traditions rooted in the ancient pan-Mediterranean culture. The recovery of traditional knowledge has achieved great importance all over the world and represents one of the cultural needs of international organisations, governments and NGOs that see in the loss of this knowledge the loss of cultural identity for local communities and people. Such trouble has caused also a deeper concern about ethnobotanical studies.

In this context, the island of Sardinia, Italy, is going to lose its cultural richness due to deep changes in the relationships of man and the natural environment, the disappearance of extensive agriculture and handicraft practices, and a decrease in the human presence in the countryside. Nowadays old people mainly have a concern for ethnobotanical matters (CAMARDA 1990). This situation has caused a rapid loss of traditional culture, almost consigning it exclusively to the memories of old people.

In Sardinia, the first information on plant exploitation is found in Pliny (PLINIO IL VECCHIO 1984), in the first century AD. In his works he described the harvest of galls from *Quercus coccifera* L. in order to obtain the red colouring matter used by Sardinians to pay taxes to the Romans (CAMARDA 1982). Other information can be found in classic literature of various authors, such as Virgil, Dioscorides, Sallustius and Pomponius Mela. In the more recent times, FARA (1835) paid special attention to plants under cultivation.

The first modern ethnobotanical research with a scientific approach was carried out by MORIS (1837-1859) that, studying the Sardinian flora, added local names and described uses of several plants. CHERCHI-PABA (1974-1977) and ANGIONI (1989) studied the agro-pastoral world and brought to our attention the importance of plants of economic interest. Further studies have been carried out by ATZEI (1980), FALCHI (1980), CAMARDA & VALSECCHI (1982; 1992), CHIAPPINI (1988), CAMARDA (1990), PAULIS (1992), ORRÙ *et al.* (1993, 1996), BALLERO *et al.* (1994), CAMARDA & SATTA (1996), COSSU (1996), BALLERO *et al.* (1997), BRUNI *et al.* (1997), CONGIA (1998), BALLERO & POLI (1998) and, especially, ATZEI *et al.* (1991, 1994). These authors have pointed out

different ways of plants utilisation in popular medicine, toponymy, anthropology, and social and economic sciences.

#### OBJECTIVES OF THE RESEARCH

This research has been carried out in order to point out many aspects of everyday life, habits and traditions of shepherds, farmers and their working tools, by checking all plants used in the popular tradition in Putifigari (a rural village in Sassari province) from several points of view: as food, medicine, forage crops, handicrafts, dyes, poisons, fuel, honey making, ornamental plants, and ritual use. The research has given a particular importance to dialectal names of plants, comparing them with their scientific names.

During the research, 44 people (11 women and 33 men) aged between 64 and 91 were interviewed; 33 of them are inhabitants of Putifigari and 11 of Villanova Monteleone, which is the nearest village to Putifigari and more economically developed, especially in the past. During the interviews people spoke about their knowledge of plants; on being shown the samples they said the dialect names and the specific use of the plant. Data have been compared with those already published in the scientific literature.

The dried plants have been deposited in the Department of Botany and Plant Ecology at the University of Sassari.

#### RESULTS AND DISCUSSION

On a total of 278 species examined, only 208, almost all wild, shall be considered in this synthetic project since they deserve greater attention. They have been listed alphabetically in Table 1 to briefly report their traditional use in Putifigari.

The following data are provided for each species in Table 1.

Scientific and Italian name, according to "Flora d'Italia" (PIGNATTI 1982).

English name, from "Lexicon Plantarum Medicinalium" (PENSO 1991); some endemic or Mediterranean species do not have an English name.

Local name, as name mentioned by people during the interview. Italian spelling has been preferred for transcription of Sardinian names, taking into account the pronunciation of "st" as if it were preceded by "l", according to local phonetics. Local names have been compared with those written in literature.

Local uses, referring to what emerged during the interview. This subject represents the main purpose of the research. There are many references to local idioms and to the specific use of hypogeous and epigean parts for feeding, health, handicrafts, dyeing, and forage, as well as for ornamental purposes.

Moreover, we have taken into account the useful properties of plants, especially the medical, aromatic, cosmetic and dyeing ones, according to the latest Italian bibliography (GASTALDO 1987; LODI 1986; BONI & PATRI 1995; LONARDONI 1995; BALLERO & POLI 1998) and the "Farmacopea Ufficiale della Repubblica Italiana" (MINISTERO ITALIANO DELLA SANITÀ 1998).

Legend for last column in Table 1 follows (Local Use).

(C) Combustible: as firewood and to produce coal.

(D) Dyeing: as colouring for fabrics and food.

(F) Feeding: as fresh, preserved or processed, food, including the aromatic plants used for seasoning and for making spirits.

(Fo) Forage: grazing plants, used directly as pasture or hay.

(H) Honey making: spontaneous and cultivated plants useful to honey making.

(In) Interlacing: plants with flexible branches, suitable for making baskets, trays, boxes in general, or ropes of various strengths; this category also includes fibre species or species used to create simple filters.

(Iw): Inlay Work: used daily by farmers and shepherds to build girders, uprights or simple working tools.

(M) Medical: for body care in its different aspects, such as hygiene, cosmetic or phytotherapeutic.

(O) Ornamental: cultivated in pots, gardens, streets, including also the spontaneous plants suitable to adorn gardens, parks, flowerbeds or for making dry or fresh flowers compositions; thorny

Table 1 - Data on species of ethnobotanical interest in the agro-pastoral world of Putifigari village.

| Species                                       | Family         | English Name       | Italian Name           | Local Name               | Local Use*               |
|---|----------------|--------------------|------------------------|--------------------------|--------------------------|
| <i>Adiantum capillus-veneris</i> L.           | Adiantaceae    | Venus' hair        | Capelvenere Comune     | <i>Filighéddu</i>        | <b>O</b>                 |
| <i>Aegilops geniculata</i> Roth               | Poaceae        |                    | Cerere comune          | <i>Trigu pediscinu</i>   | <b>Fo, W</b>             |
| <i>Allium cepa</i> L.                         | Liliaceae      | Onion              | Cipolla                | <i>Chibidda</i>          | <b>F, M, R</b>           |
| <i>Allium sativum</i> L.                      | Liliaceae      | Garlic             | Aglio comune           | <i>Azu</i>               | <b>F, M, R</b>           |
| <i>Allium triquetrum</i> L.                   | Liliaceae      | Triquetrous Garlic | Aglio triquetro        | <i>Appara</i>            | <b>F, R</b>              |
| <i>Alnus glutinosa</i> (L.) Gaertner          | Betulaceae     | Alder              | Ontano nero            | <i>Alinu</i>             | <b>T, D</b>              |
| <i>Anagallis arvensis</i> L.                  | Primulaceae    | Scarlet Pimpernel  | Centonchio dei Campi   | <i>Eva 'e puddas</i>     | <b>V</b>                 |
| <i>Anagallis foemina</i> Miller               | Primulaceae    |                    | Centonchio azzurro     | <i>Eva 'e puddas</i>     | <b>V</b>                 |
| <i>Anagyris foetida</i> L.                    | Fabaceae       |                    | Legno puzzo            | <i>Fae giòlva</i>        | <b>W, V</b>              |
| <i>Anthemis arvensis</i> L.                   | Asteraceae     | Corn Chamomile     | Camomilla bastarda     | <i>Sisia</i>             | <b>M, W</b>              |
| <i>Anthemis cotula</i> L.                     | Asteraceae     | Stinking Mayweed   | Camomilla fetida       | <i>Sisia</i>             | <b>W</b>                 |
| <i>Anthemis nobilis</i> L.                    | Asteraceae     | Roman Camomile     | Camomilla romana       | <i>Camomilla</i>         | <b>M</b>                 |
| <i>Apium nodiflorum</i> (L.) Lag.             | Apiaceae       | Fool's Watercress  | Sedano d'acqua         | <i>Giuru</i>             | <b>W</b>                 |
| <i>Arbutus unedo</i> L.                       | Ericaceae      | Strawberry Tree    | Corbezzolo             | <i>Mela lidone</i>       | <b>F, M, Iw, C, O, H</b> |
| <i>Arisarum vulgare</i> Targ.-Tozz.           | Araceae        |                    | Arisaro comune         | <i>Ucca 'e leone</i>     | <b>W, P</b>              |
| <i>Artemisia arborescens</i> L.               | Asteraceae     |                    | Assenzio arbustivo     | <i>Attentu</i>           | <b>O, F</b>              |
| <i>Arum italicum</i> Miller                   | Araceae        |                    | Gigaro chiaro          | <i>Tattariju</i>         | <b>W, P</b>              |
| <i>Arum maculatum</i> L.                      | Araceae        | Lords-and-Ladies   | Gigaro scuro           | <i>Tattariju</i>         | <b>W, P</b>              |
| <i>Arum pictum</i> L.                         | Araceae        |                    | Gigaro sardo-corso     | <i>Tattariju</i>         | <b>W, P</b>              |
| <i>Arundo donax</i> L.                        | Poaceae        |                    | Canna domestica        | <i>Canna</i>             | <b>M, In, T</b>          |
| <i>Asparagus acutifolius</i> L.               | Liliaceae      | Common Asparagus   | Asparago pungente      | <i>Ipàralu</i>           | <b>F, M, In</b>          |
| <i>Asparagus albus</i> L.                     | Liliaceae      |                    | Asparago bianco        | <i>Ippina santa</i>      | <b>F, In</b>             |
|   |                |                    |                        | <i>Ipàralu biancu</i>    | <b>M, In, H</b>          |
| <i>Asphodelus microcarpus</i> Salzm. et Viv.  | Liliaceae      |                    | Asfodelo               | <i>Isciaréu, Ammìttu</i> |                          |
| <i>Atractylis gummifera</i> L.                | Asteraceae     |                    | Masticogna latticifera | <i>Aldu cabiddu</i>      | <b>H, W</b>              |
| <i>Avena barbata</i> Potter et Link           | Poaceae        |                    | Avena barbata          | <i>Frenálzu</i>          | <b>Fo</b>                |
| <i>Avena fatua</i> L.                         | Poaceae        |                    | Avena selvatica        | <i>Avena, Frenálzu</i>   | <b>Fo, T</b>             |
| <i>Avena sativa</i> L.                        | Poaceae        | Oats               | Avena comune           | <i>Avena, Frenálzu</i>   | <b>Fo, T</b>             |
| <i>Avena sterilis</i> L.                      | Poaceae        |                    | Avena maggiore         | <i>Frenálzu</i>          | <b>Fo</b>                |
| <i>Bellis perennis</i> L.                     | Asteraceae     | English Daisy      | Prataiola              | <i>Fiorittu</i>          | <b>F, W</b>              |
| <i>Beta vulgaris</i> L.                       | Chenopodiaceae | Beet               | Bietola comune         | <i>Eda</i>               | <b>F, M</b>              |
| <i>Bulboschoenus maritimus</i> (L.) Palla     | Cyperaceae     |                    | Liscia marittima       | <i>Giùncu</i>            | <b>W</b>                 |
| <i>Borago officinalis</i> L.                  | Boraginaceae   | Borage             | Borragine comune       | <i>Limbòina</i>          | <b>Fo, F, H</b>          |
| <i>Calamintha nepeta</i> (L.) Sav.            | Lamiaceae      | Lesser Calamint    | Nepettella             | <i>Nibidédda</i>         | <b>F, H</b>              |
| <i>Calicotome spinosa</i> (L.) Link           | Fabaceae       |                    | Sparzio spinoso        | <i>Tiria</i>             | <b>O</b>                 |
| <i>Calicotome villosa</i> (Poiret) Link       | Fabaceae       |                    | Spazio villoso         | <i>Tiria</i>             | <b>T</b>                 |
| <i>Capparis spinosa</i> L.                    | Capparaceae    | Caper Bush         | Cappero comune         | <i>Tàppara</i>           | <b>F</b>                 |
| <i>Capsella bursa-pastoris</i> (L.) Medicus   | Brassicaceae   | Shepherd's Purse   | Borsa di pastore       | <i>Bùscia 'e pastòre</i> | <b>W</b>                 |
| <i>Carduus pycnocephalus</i> L.               | Asteraceae     |                    | Cardo saettone         | <i>Aldu piscia</i>       | <b>F, M, W</b>           |
| <i>Carlina corymbosa</i> L.                   | Asteraceae     | Carline            | Carlina raggio d'oro   | <i>Aldu anzoninu</i>     |                          |
|   |                |                    |                        | <i>A. bacchetta</i>      | <b>F, C, W</b>           |
| <i>Carlina lanata</i> L.                      | Asteraceae     |                    | Carlina lanosa         | <i>Aldu ippròne</i>      | <b>W, T</b>              |
| <i>Carlina racemosa</i> L.                    | Asteraceae     |                    | Carlina minore         | <i>Aldu ippròne</i>      | <b>W, T</b>              |
| <i>Carthamus lanatus</i> L.                   | Asteraceae     |                    | Zafferanone            | <i>Aldu bacchetta</i>    | <b>W, T</b>              |
| <i>Castanea sativa</i> L.                     | Fagaceae       | Sweet Chestnut     | Castagno               | <i>Castàrza</i>          | <b>Iw, T, C, F</b>       |
| <i>Celtis australis</i> L.                    | Ulmaceae       |                    | Bagolaro               | <i>Sulzàga</i>           | <b>Iw, T, D, C</b>       |
| <i>Centaurea calcitrapa</i> L.                | Asteraceae     | Star Thistle       | Calcatreppola          | <i>Istriscinaia</i>      |                          |
|   |                |                    |                        | <i>Ippina santa</i>      | <b>M, R, W</b>           |
| <i>Chamaerops humilis</i> L.                  | Palmae         |                    | Palma nana             | <i>Pramma</i>            | <b>In, T, F, R</b>       |
| <i>Chenopodium album</i> L.                   | Chenopodiaceae | White Goosefoot    | Farinello comune       | <i>Cadòne</i>            | <b>W</b>                 |
| <i>Chrysanthemum coronarium</i> L.            | Asteraceae     |                    | Crisantemo campestre   | <i>Cagaràntulu grogu</i> | <b>Fo, F, T, W</b>       |
| <i>Chrysanthemum segetum</i> L.               | Asteraceae     | Corn Marigold      | Crisantemo giallo      | <i>Cagaràntulu grogu</i> | <b>Fo, F, T, W</b>       |
| <i>Cichorium intybus</i> L.                   | Asteraceae     | Common Chicory     | Cicoria comune         | <i>Zicòria</i>           | <b>F, M, W</b>           |
| <i>Cirsium scabrum</i> (Poiret) Dur. et Barr. | Asteraceae     |                    | Cardo scabro           | <i>Aldu candé</i>        | <b>F, M, W</b>           |
|   |                |                    |                        | <i>Aldu timbaru</i>      |                          |
| <i>Cistus incanus</i> L.                      | Cistaceae      |                    | Cisto rosso            | <i>Mudéju</i>            | <b>C</b>                 |
| <i>Cistus monspeliensis</i> L.                | Cistaceae      |                    | Cisto di Montpellier   | <i>Mudéju</i>            | <b>C, T</b>              |
| <i>Cistus salviaefolius</i> L.                | Cistaceae      |                    | Scornabocco            | <i>Mudéju biancu</i>     | <b>C, T</b>              |
| <i>Clematis cirrhosa</i> L.                   | Ranunculaceae  |                    | Clematide cirrosa      | <i>Ligadòlza</i>         | <b>T</b>                 |
| <i>Clematis vitalba</i> L.                    | Ranunculaceae  | Traveller's Joy    | Erba dei cenciosi      | <i>Teti</i>              | <b>T</b>                 |
| <i>Conium maculatum</i> L.                    | Apiaceae       | Poison Hemlock     | Cicuta maggiore        | <i>Zicùta</i>            | <b>V, W</b>              |
| <i>Convolvulus arvensis</i> L.                | Convolvulaceae | Corn Bindweed      | Vilucchio comune       | <i>Ligadòlza</i>         | <b>W, T</b>              |

Table 1 - (continuation)

| Species  | Family         | English Name           | Italian Name              | Local Name                  | Local Use*        |
|--|----------------|------------------------|---------------------------|-----------------------------|-------------------|
| <i>Crataegus monogyna</i> Jacq.  | Rosaceae       | Single-seed hawthorn   | Biancospino comune        | <i>Calarighe</i>            | Iw, T, M          |
| <i>Cydonia oblonga</i> Miller  | Rosaceae       | Quince                 | Cotogno                   | <i>Mela ghidònza</i>        | F, M, O           |
| <i>Cynara cardunculus</i> L.   | Asteraceae     |                        | Carciofo selvatico        | <i>Aldu reu</i>             | F, M, W           |
| <i>Cynodon dactylon</i> (L.) Pers.   | Poaceae        | Bermuda-grass          | Gramigna                  | <i>Raminzu</i>              | M, W              |
| <i>Cyperus longus</i> L.   | Cyperaceae     | Galingale              | Zigolo comune             | <i>Giùncu</i>               | In                |
| <i>Cytisus villosus</i> Pourret  | Fabaceae       |                        | Citiso trifloro           | <i>Maltigusa</i>            | T, C              |
| <i>Daphne gnidium</i> L.   | Thymelaeaceae  |                        | Dafne gnidio              | <i>Trivùsciu</i>            |                   |
|  |                |                        |                           | <i>Iscanta padèddas</i>     | D, P              |
| <i>Datura stramonium</i> L.  | Solanaceae     | Thorn Apple            | Stramonio comune          | <i>Eva pùdida</i>           | P, W              |
| <i>Daucus carota</i> L.  | Apiaceae       | Wild Carrot            | Carota selvatica          | <i>Fustinàja caddina</i>    | F, Fo, T, M       |
| <i>Dipsacus ferox</i> Loisel.  | Dipsacaceae    |                        | Scardaccione spinosissimo | <i>Canna ippina</i>         | T                 |
| <i>Dipsacus fullonum</i> L.  | Dipsacaceae    | Teasel                 | Cardo dei lanaioli        | <i>Canna ippina</i>         | T                 |
| <i>Eccballium elaterium</i> A. Rich.   | Cucurbitaceae  | Squirtting Cucumber    | Cocomero asinino          | <i>Cugùmere areste</i>      | W, P              |
| <i>Echium vulgare</i> L.   | Boraginaceae   | Viper's Bugloss        | Viperina azzurra          | <i>Limba poschina</i>       |                   |
|  |                |                        |                           | <i>Suzza mele</i>           | F                 |
| <i>Equisetum telmateja</i> Ehrh.   | Equisetaceae   | Great Horsetail        | Equiseto massimo          | <i>Coa 'e caddu</i>         | W                 |
| <i>Erica arborea</i> L.  | Ericaceae      |                        | Radica                    | <i>Tìvara, Kantentàlzu</i>  | Iw, T, C, D, H    |
| <i>Erica scoparia</i> L.   | Ericaceae      |                        | Erica da scope            | <i>Tìvara, Kantentàlzu</i>  | Iw, T, C, D, H    |
| <i>Eruca sativa</i> Miller   | Brassicaceae   |                        | Rucola                    | <i>Rughitta</i>             | F                 |
| <i>Eryngium campestre</i> L.   | Apiaceae       |                        | Calcatreppola campestre   | <i>Mamaràida</i>            | W                 |
| <i>Euphorbia characias</i> L.  | Euphorbiaceae  |                        | Euforbia cespugliosa      | <i>Lattirighe</i>           | P, M              |
| <i>Euphorbia dendroides</i> L.   | Euphorbiaceae  |                        | Euforbia arborescente     | <i>Lua</i>                  | P, M              |
| <i>Ferula communis</i> L.  | Apiaceae       |                        | Ferula comune             | <i>Férula</i>               | P, U              |
| <i>Ficus carica</i> L. var. <i>caprificus</i> Risso                                  | Urticaceae     | Fig tree               | Fico comune               | <i>Crabu vigu</i>           | F, M              |
| <i>Ficus carica</i> L. var. <i>sativa</i> Fior.                                      | Urticaceae     |                        | Fico coltivato            | <i>Figu era</i>             | F, M              |
| <i>Foeniculum vulgare</i> Miller   | Apiaceae       | Fennel                 | Finocchio selvatico       | <i>Fenìju areste</i>        | F, M              |
| <i>Galactites tomentosa</i> Moench   | Asteraceae     |                        | Scarlina                  | <i>Aldu anzoninu</i>        |                   |
|  |                |                        |                           | <i>Aldu pintu</i>           | F, H, W           |
| <i>Galium aparine</i> L.   | Rubiaceae      | Cleavers               | Attaccaveste              | <i>Pigulòsu</i>             | In                |
| <i>Genista corsica</i> (Loisel.) DC.   | Fabaceae       |                        | Genista di corsica        | <i>Tiria</i>                | O                 |
| <i>Helichrysum italicum</i> (Roth) Don.<br>subsp. <i>microphyllum</i> (Willd.) Nyman | Asteraceae     |                        | Elicriso                  | <i>Usciadina</i>            |                   |
|  |                |                        |                           | <i>Fiòre 'e Santa Maria</i> | T, V              |
| <i>Holoschoenus vulgaris</i> Link  | Cyperaceae     |                        | Giunchetto commune        | <i>Tinnia</i>               | In                |
| <i>Hordeum murinum</i> L.  | Poaceae        | Wall Barley            | Orzo selvatico            | <i>Ippiga murina</i>        | Fo, In            |
| <i>Hordeum vulgare</i> L.  | Poaceae        | Barley                 | Orzo coltivato            | <i>Oltu</i>                 | Fo, F, In         |
| <i>Hyoseris radiata</i> L.   | Asteraceae     |                        | Radicchio selvatico       | <i>Pabanzòlu</i>            | F, W              |
|  |                |                        |                           | <i>Chirighia</i>            |                   |
| <i>Hypericum hircinum</i> L.   | Hypericaceae   |                        | Ruta caprina              | <i>Mirta crabina</i>        | In                |
| <i>Hypericum perforatum</i> L.   | Hypericaceae   | Common St. John's Wort | Erba di S. Giovanni       | <i>Eva 'e Santu Juanne</i>  | M, D              |
| <i>Ilex aquifolium</i> L.  | Aquifoliaceae  | Holmhay                | Agrifoglio                | <i>Agrifozzu</i>            | O                 |
| <i>Inula viscosa</i> (L.) Aiton  | Asteraceae     |                        | Cepica                    | <i>Eva pùdida</i>           | W                 |
| <i>Juncus acutus</i> L.  | Juncaceae      | Sharp Rush             | Giunco pungente           | <i>Tinnia</i>               | In                |
| <i>Juncus compressus</i> Jacq.   | Juncaceae      | Round-fruited Rush     | Giunco compresso          | <i>Tinnia</i>               | In                |
| <i>Juncus effusus</i> L.   | Juncaceae      | Soft Rush              | Giunco comune             | <i>Tinnia</i>               | In                |
| <i>Juncus inflexus</i> L.  | Juncaceae      | Hard Rush              | Giunco tenace             | <i>Tinnia</i>               | In                |
| <i>Lagurus ovatus</i> L.   | Poaceae        | Hare's-tail            | Piumino                   | <i>Coa 'e sòrighe</i>       | Fo, W             |
| <i>Laurus nobilis</i> L.   | Lauraceae      | Laurel tree            | Alloro                    | <i>Laru</i>                 | Iw, F, M, O, H, D |
| <i>Lavandula stoechas</i> L.   | Lamiaceae      | Roman lavender         | Lavanda selvatica         | <i>Archimissa</i>           | V, H, O           |
| <i>Lavatera olbia</i> L.   | Malvaceae      |                        | Malvone perenne           | <i>Nalva</i>                | O, H, M, F        |
| <i>Leopoldia comosa</i> (L.) Parl.   | Liliaceae      |                        | Giacinto dal pennacchio   | <i>Alidéddu</i>             | F, H, O           |
| <i>Linum usitatissimum</i> L.  | Linaceae       | Linseed                | Lino coltivato            | <i>Linu</i>                 | In                |
| <i>Lolium perenne</i> L.   | Poaceae        | Ray-grass              | Loglio comune             | <i>Lozu</i>                 | Fo                |
| <i>Lonicera implexa</i> Aiton  | Caprifoliaceae |                        | Caprifoglio Mediterraneo  | <i>Ide bianca</i>           | T, In, O          |
| <i>Lotus corniculatus</i> L.   | Fabaceae       | Birdsfoot-trefoil      | Ginestrino comune         | <i>Trivòzzu grogu</i>       | Fo                |
| <i>Lupinus angustifolius</i> L.  | Fabaceae       |                        | Lupino selvatico          | <i>Lupinu</i>               | P, Fo             |
| <i>Magydaris pastinacea</i> (Lam.) Paol.   | Apiaceae       |                        | Basilisco                 | <i>Férula masciu</i>        | T                 |
| <i>Malva sylvestris</i> L.   | Malvaceae      | Blue Mallow            | Malva selvatica           | <i>Prammizza</i>            | F, M, T, V        |
| <i>Marrubium vulgare</i> L.  | Lamiaceae      | White Hore-Hound       | Marrubio comune           | <i>Marriju</i>              | H                 |
| <i>Matricaria chamomilla</i> L.  | Asteraceae     | Common Camomille       | Camomilla comune          | <i>Camomilla</i>            | M, R              |
| <i>Medicago arabica</i> (L.) Hudson  | Fabaceae       | Spotted Medick         | Medica arabica            | <i>Trivòzzu grogu</i>       | Fo                |
| <i>Medicago hispida</i> Gaertner   | Fabaceae       |                        | Medica polimorpha         | <i>Trivòzzu grogu</i>       | Fo                |
| <i>Medicago sativa</i> L.  | Fabaceae       | Heart trefoli          | Medica                    | <i>Eva médica</i>           | Fo                |
| <i>Medicago tuberculata</i> (Retz) Willd   | Fabaceae       |                        | Medica tuberculata        | <i>Trivòzzu grogu</i>       | Fo                |
| <i>Mentha x piperita</i> L.  | Lamiaceae      | Peppermint             | Menta piperita            | <i>Aménta</i>               | F, M, H           |

Table 1 - (continuation)

| Species  | Family         | English Name            | Italian Name          | Local Name                 | Local Use*            |
|--|----------------|-------------------------|-----------------------|----------------------------|-----------------------|
| <i>Morus nigra</i> L.                                | Moraceae       |                         | Gelso nero            | <i>Murighéssa niédda</i>   | F, M, D, In, C        |
| <i>Myrtus communis</i> L.                            | Myrtaceae      | True Myrtle             | Mirto                 | <i>Musta</i>               | F, M, In, T, H, O, D  |
| <i>Nasturtium officinale</i> R.Br.                   | Asteraceae     | Browncrest              | Crescione d'acqua     | <i>Ascione</i>             | F                     |
| <i>Nerium oleander</i> L.                            | Apocynaceae    | Roseberry Spurge        | Oleandro              | <i>Oleàndru</i>            | P, O                  |
| <i>Ocimum basilicum</i> L.                           | Lamiaceae      | Sweet Basil             | Basilico              | <i>Basile, Fràbica</i>     | F, M, V               |
| <i>Olea europaea</i> L. var. <i>sylvestris</i> Brot. | Oleaceae       | Olive tree              | Olivastro             | <i>Ozzàstru</i>            | F, M, T, In, Iw, C, R |
| <i>Ononis spinosa</i> L.                             | Fabaceae       | Petty whin              | Arrestabue            | <i>Ippina sorighina</i>    | T, W                  |
| <i>Onopordon illyricum</i> L.                        | Asteraceae     |                         | Cardo asimino         | <i>Aldu nieddu</i>         | F, W                  |
| <i>Opuntia ficus-indica</i> (L.) Miller              | Cactaceae      |                         | Fico d'India          | <i>Fioghindia</i>          | F, Fo, T              |
| <i>Orzopsis militacea</i> (L.) Asch. et Schweinf.    | Poaceae        |                         | Miglio multiflora     | <i>Eva 'e ferri</i>        | Fo, In                |
| <i>Osyris alba</i> L.                                | Santalaceae    |                         | Ginestrella comune    | <i>Iscobile</i>            | T, In                 |
| <i>Papaver rhoeas</i> L.                             | Papaveraceae   | Red Poppy               | Papavero comune       | <i>Papàile</i>             | O, W                  |
| <i>Papaver somniferum</i> L.                         | Papaveraceae   | Opium Poppy             | Papavero domestico    | <i>Papàile</i>             | P, W                  |
| <i>Parietaria diffusa</i> Mert. et Koch              | Urticaceae     |                         | Vetriola minore       | <i>Pigulòsa</i>            | F, M, V, W            |
| <i>Phalaris bulbosa</i> L.                           | Poaceae        |                         | Scagliola bulbosa     | <i>Cucca cucca</i>         | In                    |
| <i>Phillyrea angustifolia</i> L.                     | Oleaceae       |                         | Ilatro sottile        | <i>Aladèrru</i>            | Iw, In, D, C          |
| <i>Phillyrea latifolia</i> L.                        | Oleaceae       |                         | Ilatro comune         | <i>Aladèrru</i>            | Iw, In, D, C          |
| <i>Phragmites australis</i> (Cav.) Trin.             | Poaceae        |                         | Cannuccia di palude   | <i>Cannitu</i>             | In                    |
| <i>Picris echioides</i> L.                           | Asteraceae     | Bristly Ox-Tongue       | Aspraggine volgare    | <i>Isciòccoro</i>          | F, W                  |
| <i>Pistacia lentiscus</i> L.                         | Anacardiaceae  | Mastic Tree             | Lentischio            | <i>Chessa</i>              | F, M, In, Iw, C, D    |
| <i>Polygonum aviculare</i> L.                        | Polygonaceae   | Knotgrass               | Polygono centinodia   | <i>Eva 'e chentu nodos</i> | In                    |
| <i>Polygonum scorarium</i> Réq.                      | Polygonaceae   |                         | Polygono scorario     | <i>Eva 'e chentu nodos</i> | In                    |
| <i>Polypodium australe</i> Féé                       | Polypodiaceae  | Adder's Fern            | Polipodio meridionale | <i>Filìge 'e muru</i>      | O, V                  |
| <i>Populus alba</i> L.                               | Salicaceae     | White Poplar            | Pioppo bianco         | <i>Colstàvu, Polstiàvu</i> | T, Iw                 |
| <i>Populus nigra</i> L.                              | Salicaceae     | Black Poplar            | Pioppo nero           | <i>Colstàvu, Polstiàvu</i> | T, Iw, D              |
| <i>Portulaca oleracea</i> L.                         | Portulacaceae  | Green Purslane          | Porcellana comune     | <i>Eva rassa</i>           | F, W                  |
| <i>Prunus dulcis</i> (Miller) D.A. Webb.             | Rosaceae       | Almond                  | Mandorlo              | <i>Méndula</i>             | F, Iw, C, T           |
| <i>Prunus spinosa</i> L.                             | Rosaceae       | Blackthorn              | Pruno selvatico       | <i>Prunizza</i>            | F, Iw, T, D           |
| <i>Pteridium aquilinum</i> (L.) Kuhn                 | Hypolepidaceae |                         | Felce aquilina        | <i>Filìge màsciu</i>       | T, M                  |
| <i>Punica granatum</i> L.                            | Punicaceae     | Carthaginian apple tree | Melograno             | <i>Melagrenàda</i>         | F, D, M               |
| <i>Pyrus amygdaliformis</i> Vill.                    | Rosaceae       |                         | Perastro              | <i>Piràstru</i>            | F, T, Iw, C, D        |
| <i>Pyrus communis</i> L.                             | Rosaceae       | Pear                    | Pero comune           | <i>Pira</i>                | F, T, Iw, C, D        |
| <i>Quercus ilex</i> L.                               | Fagaceae       | Evergreen Oak           | Leccio                | <i>Èlìge</i>               | F, C, Iw, T, D        |
| <i>Quercus pubescens</i> Willd.                      | Fagaceae       |                         | Roverella             | <i>Kescu</i>               | C, Iw, T, D M         |
| <i>Quercus suber</i> L.                              | Fagaceae       |                         | Sughera               | <i>Suélzu</i>              | C, Iw, T, V, D        |
| <i>Ranunculus ficaria</i> L.                         | Ranunculaceae  |                         | Ranuncolo favagello   | <i>Cunnu rassu</i>         | M                     |
| <i>Raphanus raphanistrum</i> L.                      | Brassicaceae   | Wild Radish             | Ravanello selvatico   | <i>Ammuràta</i>            | F, W                  |
| <i>Rhamnus alaternus</i> L.                          | Rhamnaceae     |                         | Alaterno              | <i>Laru màsciu</i>         | Iw, In, D, C, M       |
| <i>Rosa canina</i> L. s. l.                          | Rosaceae       | Wild Dog Rose           | Rosa selvatica comune | <i>Ru caddinu</i>          | M, F, O               |
| <i>Rosa sempervirens</i> L.                          | Rosaceae       |                         | Rosa di San Giovanni  | <i>Ru caddinu</i>          | M, O                  |
| <i>Rosmarinus officinalis</i> L.                     | Lamiaceae      | Rosemary                | Rosmarino             | <i>Romasinu</i>            | F, M, H, O            |
| <i>Rubia peregrina</i> L.                            | Rubiaceae      |                         | Robbia selvatica      | <i>Pigulòsu, Marrùbiu</i>  | D, T                  |
| <i>Rubus ulmifolius</i> Schott                       | Rosaceae       | European Blackberry     | Rovo comune           | <i>Riuu</i>                | F, M, D, In, O        |
| <i>Rumex acetosa</i> L.                              | Polygonaceae   | Garden Sorrel           | Romice acetosa        | <i>Meliàgra</i>            | Tattariasciu          |
| <i>Rumex sanguineus</i> L.                           | Polygonaceae   | Red-veined Dock         | Romice sanguineo      | <i>Tattariasciu</i>        | F, M                  |
| <i>Ruscus aculeatus</i> L.                           | Liliaceae      | Butcher's Broom         | Pungitopo             | <i>Ippina sorighina</i>    | Tattariasciu          |
| <i>Ruta chalepensis</i> L.                           | Rutaceae       |                         | Ruta d'Aleppo         | <i>Ruda</i>                | V                     |
| <i>Salix alba</i> L.                                 | Salicaceae     | White Willow            | Salice bianco         | <i>Tòa</i>                 | In                    |
| <i>Salix atrocinerea</i> Brot.                       | Salicaceae     | Common Sallow           | Salice di Gallura     | <i>Tòa</i>                 | In                    |
| <i>Salvia officinalis</i> L.                         | Lamiaceae      | Sage                    | Salvia domestica      | <i>Salvia</i>              | F, M                  |
| <i>Sambucus nigra</i> L.                             | Caprifoliaceae | Black Elder             | Sambuco nero          | <i>Sauccu</i>              | Iw, D, M              |
| <i>Scolymus hispanicus</i> L.                        | Asteraceae     |                         | Cardogna comune       | <i>Aldu mele</i>           | F, H, W               |
| <i>Senecio vulgaris</i> L.                           | Asteraceae     | Groundsel               | Senecione comune      | <i>Pedruvèghe</i>          | W, T, M               |
| <i>Silybum marianum</i> (L.) Gaertner                | Asteraceae     | Marian Thistle          | Cardo mariano         | <i>Aldu pintu</i>          | F, W                  |
| <i>Sinapis alba</i> L.                               | Brassicaceae   | White Mustard           | Senape bianca         | <i>Ammuràta</i>            | F, W                  |
| <i>Sinapis arvensis</i> L.                           | Brassicaceae   |                         | Senape selvatica      | <i>Lànsana</i>             | W                     |
| <i>Smilax aspera</i> L.                              | Liliaceae      | Sarsaparilla            | Stracciabraghe        | <i>Tittione, Téti</i>      | F, M                  |
| <i>Solanum nigrum</i> L.                             | Solanaceae     | Hound's Berry           | Pomidorella           | <i>Pummàtta aréste</i>     | W, P                  |
| <i>Sonchus oleraceus</i> L.                          | Asteraceae     | Milk-or Sow-Thistle     | Allattalepre          | <i>Aldu Pinzòne</i>        | F, Fo, W              |
| <i>Sorbus domestica</i> L.                           | Rosaceae       | Service Tree            | Sorbole               | <i>Suppéva</i>             | F, M, D               |

Table 1 - (continuation)

| Species                                    | Family           | English Name         | Italian Name              | Local Name  | Local Use*        |
|--|------------------|----------------------|---------------------------|---|-------------------|
| <i>Spartium junceum</i> L.                 | Fabaceae         |                      | Ginestra comune           | <i>Nistra</i>                                     | <b>I</b>          |
| <i>Stachys glutinosa</i> L.                | Lamiaceae        |                      | <i>Stregona spinosa</i>   | <i>Issòpo</i>                                     | <b>T, V</b>       |
| <i>Stellaria media</i> (L.) Vill.          | Caryophyllaceae  | Chickweed            | Centocchio comune         | <i>Eva puddina</i>                                | <b>W, Fo</b>      |
| <i>Tamarix africana</i> Poiret             | Tamaricaceae     |                      | Tamerice maggiore         | <i>Tramaritu</i>                                  | <b>D</b>          |
| <i>Tamus communis</i> L.                   | Dioscoreaceae    | Black Bryony         | Tamaro                    | <i>Ippàralu 'e colora</i><br><i>Criu poschinu</i> | <b>F</b>          |
| <i>Tetragonalobus purpureus</i> Moench     | Fabaceae         |                      | Ginestrino purpureo       | <i>Trivòzzu ruju</i>                              | <b>Fo</b>         |
| <i>Thapsia garganica</i> L.                | Apiaceae         |                      | Firrastrina comune        | <i>Ferulédda</i>                                  | <b>P</b>          |
| <i>Thymelaea hirsuta</i> (L.) Endl.        | Thymelaeaceae    |                      | Spazzaformo               | <i>Iscibile</i>                                   | <b>I</b>          |
| <i>Trifolium angustifolium</i> L.          | Fabaceae         |                      | Trifoglio angustifolio    | <i>Trivòzzu ruju</i>                              | <b>Fo</b>         |
| <i>Trifolium arvense</i> L.                | Fabaceae         | Hare's-foot          | Trifoglio arvense         | <i>Trivòzzu biàncu</i>                            | <b>Fo</b>         |
| <i>Trifolium campestre</i> Schreber        | Fabaceae         | Hop trefoil          | Trifoglio campestre       | <i>Trivòzzu grogu</i>                             | <b>Fo</b>         |
| <i>Trifolium incarnatum</i> L.             | Fabaceae         | Crimson Clover       | Trifoglio incarnato       | <i>Trivòzzu ruju</i>                              | <b>Fo</b>         |
| <i>Trifolium pratense</i> L.               | Fabaceae         | Red Clover           | Trifoglio pratense        | <i>Trivòzzu ruju</i>                              | <b>Fo</b>         |
| <i>Trifolium repens</i> L.                 | Fabaceae         |                      | Trifoglio ladino          | <i>Trivòzzu biàncu</i>                            | <b>Fo</b>         |
| <i>Trifolium squarrosum</i> L.             | Fabaceae         |                      | Trifoglio squarroso       | <i>Trivòzzu grogu</i>                             | <b>Fo</b>         |
| <i>Trifolium stellatum</i> L.              | Fabaceae         |                      | Trifogliostellato         | <i>Trivòzzu istellàdu</i>                         | <b>Fo</b>         |
| <i>Trifolium subterraneum</i> L.           | Fabaceae         | Subterranean Trefoil | Trifoglio subterraneo     | <i>Trivòzzu biàncu</i>                            | <b>Fo</b>         |
| <i>Typha angustifolia</i> L.               | Typhaceae        | Lesser Reedmace      | Lisca a foglie strette    | <i>Uda màsciu</i>                                 | <b>I</b>          |
| <i>Typha latifolia</i> L.                  | Typhaceae        | Great Reedmace       | Lisca maggiore            | <i>Uda fémina</i>                                 | <b>I</b>          |
| <i>Ulmus minor</i> Miller                  | Ulmaceae         | Field Elm            | Olmo comune               | <i>Ulumu</i>                                      | <b>T, Iw</b>      |
| <i>Umbilicus rupestris</i> (Salisb.) Dandy | Crassulaceae     | Pennywort            | Ombelico di Venere comune | <i>Càliche 'e muru</i>                            | <b>M</b>          |
| <i>Urginea maritima</i> (L.) Baker         | Liliaceae        | Squill               | Scilla marittima          | <i>Ampidda</i>                                    | <b>T, W</b>       |
| <i>Urospermum dalechampii</i> (L.) Schmidt | Asteraceae       |                      | Boccione maggiore         | <i>Chirighia 'e colòra</i>                        | <b>F, W</b>       |
| <i>Urtica dioica</i> L.                    | Urticaceae       | Stinging Nettle      | Ortica comune             | <i>Pittigaia</i>                                  | <b>F, V, D, W</b> |
| <i>Verbascum pulverulentum</i> Vill.       | Scrophulariaceae | Hoary Mullein        | Verbasco candelabro       | <i>Treviuddu</i>                                  | <b>P, C, T</b>    |
| <i>Viburnum tinus</i> L.                   | Caprifoliaceae   |                      | Viburno-tino              | <i>Laru màsciu</i>                                | <b>D, Iw</b>      |
| <i>Vicia faba</i> L.                       | Fabaceae         |                      | Fava                      | <i>Fàe</i>  | <b>F</b>          |
| <i>Vicia sativa</i> L.                     | Fabaceae         | Common Vetch         | Vecchia dolce             | <i>Pisu; Pisi-bisi</i>                            | <b>Fo, F</b>      |
| <i>Vinca difformis</i> Pourret             | Apocynaceae      | Periwinkle           | Pervinca ovata            | <i>Pruninca</i>                                   | <b>R</b>          |
| <i>Vitis vinifera</i> L.                   | Vitaceae         | Grape-vine           | Vite comune               | <i>Ide</i>  | <b>F, M, I</b>    |
| <i>Vulpia ligustica</i> (All.) Link        | Poaceae          |                      | Paléo ligure              | <i>Fenu leperinu</i>                              | <b>Fo, W</b>      |

\* See the text for legend

species used to make hedges are also included.

(P) Poison: species containing toxic substances, even mortal for men and animals; some of them are used as ichthyotoxins (fish poisons).

(R) Magic Ritual: plants that in popular traditions are considered to have healing powers; some of them are used in religious rituals.

(T) Working tools: for manufacturing.

(V) Vet: to treat animal illnesses or to keep away parasites and insects.

(W) Weed: plants infesting crops, including non-grazing plants, often large and thorny, that grow in pasture lands.

In Table 2, the use and the number of plants known by the people interviewed are indicated. Percentages are referred to the 208 plants listed in Table 1.

As concerns growth forms, 30 of the listed plants are trees (14,5%), 41 are shrubs (19,7%) and 137 are herbaceous plants (65,8%).

The families containing the most species used in popular traditions are Asteraceae (14%), Fabaceae (12%), Poaceae (7%), Rosaceae (5%), Liliaceae (5%), Lamiaceae (4%) and Brassicaceae (3%).

## CONCLUSIONS

In the past, the use of plants was due to practical needs. Knowledge and use in all aspects were transmitted inside the family, often as a secret. Treatment of several diseases was based on use of plants, often followed by ritual practises. For this reason the research has tried to prove the value and the truthfulness of a certain popular plant use by comparing it with recent knowledge. Some original data have come out, having a practical utility in modern biotechnological crop system.

Utilisation of an infusion of *Lavandula stoe-*

Table 2- Percentage of use of plants listed in Table 1.

| Use           | Plants No. | %    |
|---------------|------------|------|
| Feeding       | 70         | 33,6 |
| Working tools | 55         | 26,4 |
| Medical       | 52         | 25,0 |
| Interlacing   | 35         | 16,8 |
| Forage        | 34         | 16,3 |
| Dyeing        | 27         | 12,9 |
| Combustible   | 23         | 11,0 |
| Inlay work    | 22         | 10,5 |
| Ornamental    | 20         | 10,0 |
| Honey making  | 16         | 7,6  |
| Poison        | 16         | 7,6  |
| Vet use       | 13         | 6,2  |
| Magic ritual  | 8          | 3,8  |

*chas* flowers as an antiseptic was very effective to wash and disinfect the udder of sheep affected by mastitis, as was the use of *Viburnum tinus* or *Quercus suber* to colour cheese. According to natural practises in poultry farming the endemic *Stachys glutinosa* was introduced to keep away lice with its strong smell. Tradition also suggests certain simple methods to drive away mice, such as utilisation of thorny plants (*Ruscus aculeatus* or *Ononis spinosa*).

Besides having a great ethnographic and cultural value, ethnobotanical research consents to achieve some profits in science and economics. For instance, some wild plants can be exploited and rationally cultivated to become a source of income. To mention an example, flowers of *Hypericum perforatum* are used in order to make healing oils and alcoholic solutions with an anti-

depressive function. Other wild plants are used in compositions of dried or evergreen flowers. Many Poaceae (e.g. *Lagurus ovatus*) can be easily dried, as are flowers of *Typha latifolia*, *T. angustifolia* and the thorny flowers of *Eryngium campestre* and *Dipsacus ferox*.

Further species can be cultivated for ornamental purposes: some of them to cover pergolas or fences (e.g. *Clematis vitalba*, *Clematis cirrhosa*, and *Smilax aspera*), others to make hedges or adorn gardens (e.g. *Arbutus unedo*, *Erica arborea*, *E. scoparia*, *Helichrysum italicum*, *Myrtus communis*, *Olea europaea* var. *sylvestris* and other plants from the Mediterranean area).

Nowadays the rediscovery of old techniques, such as interlace or inlay work and the art of dyeing, permits us to once again manufacture items and tools as they were made in the past. Such manufactured items can be traded as products of local handicraft and employed to furnish houses.

Information taken in the small community of Putifigari corresponds to the general heritage of Mediterranean areas and represents a richness worthy of recovering, preserving and transmitting to future generations.

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