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## **Checklist of rust fungi in Turkey**

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**ABSTRACT** — This study presents a checklist of rust fungi (*Uredinales*) of Turkey together with their known host plants. The checklist enumerates 351 species of rust fungi belonging to 26 genera and 9 families. Including 778 host plants belonging to 325 genera and 63 families. A host index is also provided.

**KEY WORDS** — rust fungi, Turkey, checklist.

### **Introduction**

Rust fungi (*Uredinales*) are the most important obligate biotrophic plant parasitic group of Basidiomycota. These fungi comprise more than 7000 species in the world (Kirk et al. 2008) and parasitize a wide range of host plants, including ferns, conifers and angiosperms. As a group, these fungi are noted for their virulence, causing great losses to crops on a worldwide basis, as well as for their host specificity. The rust fungi have three unique features: 1. Up to five or six morphologically and functionally different spore states exist in the life cycle of a single species. 2. Many species need two unrelated host plants to complete their life cycle (heteroecious life cycle), although others can complete their life cycle on a single host species (autoecious life cycle). 3. Species usually have narrow and specific host ranges (Cummins & Hiratsuka 2003).

Turkey is a large peninsula situated between south-eastern Europe and Asia and its land surface is about 780,000 km<sup>2</sup>. Turkey comprises different phytogeographic regions, the Euro-Siberian, Irano-Turanian and the Mediterranean region. Due to the countries topographical and climatic diversity the flora is rich and counts approximately 10.000 vascular plant species. Many genera have their centre of diversity in Turkey and the flora shows a high level of endemism in general (Davis 1965–88; Davis et al. 1988).

Research related to the rust fungi began with Magnus, Bornmüller and Bremer in the 1890s–1940s (Magnus 1899; Bremer et al. 1947, 1952). These studies were followed by studies of Karel, Göbelez and Henderson (Karel 1958; Gobelez 1962; Henderson 1957, 1959, 1961, 1964).

Studies about rust fungi in Turkey were intensified between the years 1970–1990 (Dinc & Karaca 1975; Gurcan 1976; Karaboz & Oner 1982; Oran 1972; Oner et al. 1974; Oner & Ekmekci 1974; Selik 1972; 1973; Tamer &

Oner 1978, 1978a, 1978b, Tamer et al. 1987, 1989; Ucar & Oner M. 1977, 1989; Vural 1976.).

During the last years a large number of new species records and new species have been added (Bahçecioglu 1998, 2001; Bahçecioglu & Isiloglu 1995; Bahçecioglu & Yildiz B. 1996, 2001, 2005; Bahçecioglu et al. 2006; Demirci et al. 1997; Erdogdu et al. 2010; Guven & Tamer 1993; Huseyin 2004, 2004; Huseyin & Karahan 2005; Huseyin & Selcuk 2000a,b, 2001, 2004; Huseyin et al. 2004; Kabaktepe & Bahçecioglu 2005; 2006; Kirbag 2004; Onan & Saydam 1995; Parlak & Guzin 1993; Pekel & Azaz 2003; Sert 2009; Sert & Sumbul 2005; Sert et al. 2004a, b; Soylu et al. 2004; Tamer & Altan 1995, 1995; Tamer et al. 1990a,b, 1992, 1997, Tunalı et al. 2004, 2006; Bahçecioglu & Gjaerum 2003, 2004; Bahçecioglu et al. 2005, 2009; Huseyin & Kirbag 2003; Kirbag et al. 2001, 2011).

This checklist provides the first comprehensive overview of the rust fungi in Turkey. It also facilitates access to the scattered Turkish literature on the topic that may not be readily available to the student of Turkish microfungi.

#### **Materials and methods**

The checklist was based on published literature about rust fungi in Turkey and own data. The current names of fungi are given according to [www.indexfungorum.org](http://www.indexfungorum.org). Names of host plants and families are given according to <http://www.ipni.org>.

Rust families, genera, species and subspecies are listed alphabetically followed by the host plant names, host family and related references. The anamorph genera *Aecidium* and *Uredo* follow the teleomorph genera.

#### **Results and Discussion**

A total of 351 species of rust fungi were identified in Turkey. They belong to nine families and 26 genera. The largest genera are *Puccinia* (202 species, 10 varieties), *Uromyces* (74 species, 1 variety), *Phragmidium* (15 species) and *Melampsora* (12 species, 2 varieties) (Table 1).

The recorded rusts were found on 778 host species that belong to 325 genera and 63 families (Davis 1965–88; Davis et al. 1988).

Table 1. Species numbers and numbers of rust-host combinations of families and genera of *Uredinales* found in Turkey

<b>Taxa</b>	<b>Number of species</b>	<b>Number of rust-host combinations</b>
<b><i>Coleosporiaceae</i></b>		
<i>Coleosporium</i>	5	25
<b><i>Cronartiaceae</i></b>		
<i>Cronartium</i>	1	2
<i>Endocronartium</i>	1	2
<b><i>Melampsoraceae</i></b>		
<i>Melampsora</i>	12	50
<b><i>Phakopsoraceae</i></b>		
<i>Cerotelium</i>	1	1
<b><i>Phragmidiaceae</i></b>		
<i>Arthuriomyces</i>	1	1
<i>Frommeella</i>	1	1
<i>Kuehneola</i>	1	2
<i>Phragmidium</i>	15	46
<i>Trachyspora</i>	1	5
<i>Xenodochus</i>	1	1
<b><i>Pileolariaceae</i></b>		
<i>Pileolaria</i>	1	4
<b><i>Pucciniaceae</i></b>		
<i>Cumminsiella</i>	1	1
<i>Endophyllum</i>	1	1
<i>Gymnosporangium</i>	9	44
<i>Puccinia</i>	203	686
<i>Uromyces</i>	74	227
<i>Zaghouania</i>	1	1
<b><i>Pucciniastraceae</i></b>		
<i>Hyalopsora</i>	1	1
<i>Melampsorella</i>	2	4
<i>Melampsoridium</i>	3	3
<i>Pucciniastrum</i>	5	7
<b><i>Uropyxidaceae</i></b>		
<i>Ochropsora</i>	1	1
<i>Tranzschelia</i>	2	13
<b><i>Incertae sedis</i></b>		
<i>Aecidium</i>	6	7
<i>Uredo</i>	1	1

There are some suspect records in this checklist. Although *Phragmidium bulbosum* (Fr.) Schldl., *Uromyces polygoni* Peck and *Uromyces vesicatorius* (Bubák) Nattrass were recorded on *Rosa* sp, *Pistacia* sp. (Göbelez 1962), *Lens* sp. (Bremer 1947; Göbelez 1962), real hosts of *Phragmidium bulbosum* are *Rubus* sp., *Uromyces polygoni* are *Polygonum* sp. and *Uromyces vesicatorius* are *Leontice* sp. and *Leonotis* sp.

#### List of Taxa

##### *Coleosporiaceae*

***Coleosporium asterum*** (Dietel) Syd. & P. Syd.

*Solidago virgaurea* L. (*Asteraceae*) (Kabaktepe 2010).

***Coleosporium datisciae*** Tranzschel

*Datisca cannabina* L. (*Datisceae*) (Henderson 1961; Kabaktepe 2010).

***Coleosporium inulae*** Rabenh.

*Asteriscus aquaticus* Less. (*Asteraceae*) (Bremer et al. 1952).

*Chrysophthalmum dichotomum* Boiss. & Heldr. (*Asteraceae*) (Henderson 1961).

*Inula aucheriana* DC. (*Asteraceae*) (Kabaktepe 2010).

*Inula viscosa* (L.) Aiton (Kabaktepe 2010).

***Coleosporium telekiaie*** Thum.

*Telekia speciosa* Baumg. (*Asteraceae*) (Kabaktepe & Bahçecioglu 2005, 2006; Kabaktepe 2010).

***Coleosporium tussilaginis*** (Pers.) Kleb.

*Campanula* L. (*Campanulaceae*) (Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).

*Campanula athoa* Boiss. & Heldr. (Bremer et al. 1952 as *Coleosporium campanulae* (Pers.) Lév.).

*Campanula glomerata* L. (Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).

*Campanula lactiflora* M. Bieb. (Kabaktepe & Bahçecioglu 2006).

*Campanula lyrata* Lam. (Tamer & Oner 1978a as *C. campanulae*).

*Campanula olympica* Boiss. (Bahçecioglu & Yıldız 2005 as *C. campanulae*).

*Campanula rapunculoides* L. (Bremer et al. 1947; Göbelez 1962 as *C. campanulae*).

*Euphrasia hirtella* Jord. ex Reut. (*Scrophulariaceae*) (Kabaktepe & Bahçecioglu 2005, 2006 as *C. euphrasiae* (Schumach.) G. Winter).

*Euphrasia pectinata* Ten. (Kabaktepe 2010).

*Michauxia campanuloides* L'Hér. ex Ait. (*Campanulaceae*) (Bahcecioglu et al. 2006).

*Michauxia tchihatcheffii* Fisch. & Heldr. (Bahcecioglu et al. 2006).

*Pedicularis comosa* L. (*Scrophulariaceae*) (Henderson 1964).

*Rhinanthus angustifolius* C.C. Gmel. (*Scrophulariaceae*) (Kabaktepe 2010).

*Rhinanthus minor* L. (Henderson 1964).

*Rhynchosorys elephas* Griseb. (*Scrophulariaceae*) (Kabaktepe 2010).

*Senecio aquaticus* Hill (*Asteraceae*) (Kabaktepe 2010).

*Senecio orientalis* Mill. (Henderson 1964).

*Tussilago farfara* L. (*Asteraceae*) (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Tunali et al. 2004).

### ***Cronartiaceae***

***Cronartium quercuum*** (Berk.) Miyabe ex Shirai

*Quercus* L. (*Fagaceae*) (Henderson 1964 as *Uredo quercus* Brond.).

*Quercus coccifera* L. (Sert et al. 2004a).

***Endocronartium pini*** (Willd.) Y. Hirats.

*Pinus nigra* Aiton (*Pinaceae*) (Selik 1972 as *Cronartium pini* (Willd.) Jørst.)

*Pinus sylvestris* L. (Bremer et al. 1952 as *Peridermium pini* (Willd.) Lév.)

### ***Melampsoraceae***

***Melampsora allii-populina*** Kleb.

*Populus alba* L. (*Salicaceae*) (Bahcecioglu et al. 2006).

*Populus nigra* L. (Bahcecioglu & Isiloglu 1995; Bahcecioglu et al. 2006; Gurcan 1976; Tamer & Oner 1978a; Ucar & Oner 1977).

*Populus tremula* L. (Kabaktepe 2010).

***Melampsora apocyni*** Tranzschel

*Trachomitum venetum* L. (*Apocynaceae*) (Kirbag 2004).

***Melampsora epitea*** Thum. var. *epitea*

*Euonymus* L. (*Celastraceae*) (Henderson 1964).

*Salix* L. (*Salicaceae*) (Henderson 1961, 1964).

***Melampsora euphorbiae*** (Ficinus & C. Schub.) Castagne

*Euphorbia* L. (*Euphorbiaceae*) (Demirci et al. 1997; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Oner et al. 1974, 1984; Tamer & Altan 1995).

*Euphorbia altissima* Boiss. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006)

- Euphorbia cardiophylla* Boiss. & Heldr. (Bahçecioglu & Yıldız 2005)  
*Euphorbia cheiradenia* Boiss. & Hohen. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001; Tamer et al. 1990b).  
*Euphorbia falcata* L. (Bahçecioglu & Isiloglu 1995; Bahçecioglu et al. 2006; Gobelez 1962).  
*Euphorbia helioscopia* L. (Bahçecioglu et al. 2006; Bremer et al. 1952; Karaboz & Oner 1982; Tamer & Oner 1978a).  
*Euphorbia macroclada* Boiss. (Bahçecioglu & Yıldız 2005; Ekici et al. 2010; Erdogdu et al. 2010; Oner et al. 1984; Tamer et al. 1990b).  
*Euphorbia orientalis* L. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001)  
*Euphorbia pepus* L. (Bahçecioglu & Yıldız 2001; Gobelez 1962)  
*Euphorbia petiolata* Soland. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001).  
*Euphorbia rigida* Loisel. (Kavak 2004).  
*Euphorbia taurinensis* All. (Karaboz & Oner 1982)  
*Euphorbia tinctoria* Boiss. & Huet ex Boiss. (Bremer et al. 1947, 1952; Gobelez 1962).  
*Euphorbia virgata* Waldst. & Kit. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 1996, 2001, 2005; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Pekel & Azaz 2003; Tamer et al. 1989).
- Melampsora euphorbiae-dulcis*** G.H. Otth  
*Euphorbia heteradena* Jaub. & Spach (*Euphorbiaceae*) (Tamer et al. 1990b).  
*Euphorbia virgata* Waldst. & Kit. (Tamer et al. 1990b).
- Melampsora hypericorum*** (DC.) J. Schröt.  
*Hypericum* L. (*Clusiaceae*) (Henderson 1961).  
*Hypericum androsaemum* L. (Kabaktepe & Bahçecioglu 2006).  
*Hypericum crispum* L. (Bremer et al. 1952; Gobelez 1962).  
*Hypericum empetrifolium* Willd. (Tamer & Oner 1978a).  
*Hypericum lydiium* Boiss. (Kabaktepe 2010).  
*Hypericum perforatum* L. (Tamer et al. 1987).
- Melampsora lini*** (Ehrenb.) Lév. var. *lini*  
*Linum* L. (*Linaceae*) (Demirci et al. 1997; Henderson 1959, 1961; Oner et al. 1974).  
*Linum hirsutum* DC. (Kabaktepe 2010).  
*Linum mucronatum* Bertol. (Erdogdu et al. 2010).  
*Linum nervosum* Waldst. & Kit. (Kabaktepe 2010).  
*Linum nodiflorum* L. (Kabaktepe & Bahçecioglu 2006; Tamer et al. 1992).

*Linum usitatissimum* L. (Bremer et al. 1947; 1952; Gobelez 1962; Karel 1958; Kabaktepe 2010).

***Melampsora magnusiana*** G.H. Wagner

*Papaver rhoeas* L. (*Papaveraceae*) (Kirbag 2004).

***Melampsora occidentalis*** H.S. Jacks.

*Populus pyramidalis* Salisb. (*Salicaceae*) (Oner & Ekmekci 1974).

***Melampsora populnea*** (Pers.) P. t.

*Pinus brutia* Ten. (*Pinaceae*) (Selik 1972 as *Melampsora pinitorqua* Rostr.).

*Pinus halepensis* Mill. (Selik 1972 as *M. pinitorqua*).

*Pinus nigra* Aiton (Selik 1972 as *M. pinitorqua*).

*Pinus pinaster* Aiton (Selik 1972 as *M. pinitorqua*).

*Populus* L. (Selik 1972 as *M. pinitorqua*).

*Populus nigra* L. (Vural 1976).

***Melampsora pulcherrima*** Maire

*Populus alba* L. (Vural 1976).

***Melampsora salicis-albae*** Kleb.

*Salix* L. (*Salicaceae*) (Oner & Ekmekci 1974; Tamer et al. 1987).

*Salix alba* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Ekici et al. 2010; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Tamer & Oner 1978a).

*Salix babylonica* L. (Bahcecioglu & Isiloglu 1995; Bahcecioglu et al. 2006).

*Salix caprea* L. (Bahcecioglu et al. 2006; Kabaktepe 2010).

*Salix cinerea* L. (Bahcecioglu & Isiloglu 1995; Bahcecioglu & Yıldız 2001, 2005; Bahcecioglu et al. 2006; Kabaktepe 2010).

*Salix pseudomedemii* E.L. Wolf (Bahcecioglu & Isiloglu 1995)

*Salix triandra* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Tamer et al. 1990b).

### ***Phakopsoraceae***

***Cerotelium fici*** (Castagne) Arthur

*Ficus carica* L. (*Moraceae*) (Huseyin & Selcuk 2004).

### ***Phragmidiaceae***

***Arthuriomyces peckianus*** (Howe) Cummins & Y. Hirats.

*Rubus sanctus* Schreb. (*Rosaceae*) (Huseyin et al. 2004 as *Gymnoconia peckiana* (Howe) Trotter).

***Frommeella tormentillae*** (Fuckel) Cummins & Y. Hirats.

*Potentilla* L. (*Rosaceae*) (Bahçecioglu & Gjaerum 2004).

***Kuehneola uredinis*** (Link) Arthur

*Rubus canescens* DC. (*Rosaceae*) (Huseyin 2004).

*Rubus caesius* L. Trabzon (Huseyin 2004).

***Phragmidium acuminatum*** (Fr.) Cooke

*Rubus* L. (*Rosaceae*) (Kabaktepe & Bahçecioglu 2005, 2006).

*Rubus canescens* DC. (Kabaktepe 2010).

***Phragmidium bulbosum*** (Fr.) Schltdl.

*Rosa sulphurea* Ait. (*Rosaceae*) (Gobelez 1962 as *Teloconia rosae* (Barclay) Syd.).

Footnote: *P. bulbosum* is parasite of *Rubus* sp. There is no record showing that *P. bulbosum* is parasite on *Rosa* except Gobelez (1962).

*Rubus* L. (*Rosaceae*) (Bremer et al. 1947, 1952; Gobelez 1962; Karel 1958 as *Phragmidium rubi* (Pers.) G. Winter).

*Rubus sanctus* Schreb. (Bahçecioglu 2001, Bahçecioglu & Yıldız 2005; Ekici et al. 2010; Kabaktepe 2010).

***Phragmidium circumvallatum*** Magnus

*Geum heterocarpum* Boiss. (*Rosaceae*) (Henderson 1964).

***Phragmidium fragariae*** G. Winter

*Potentilla* L. (*Rosaceae*) (Henderson 1959).

*Fragaria vesca* L. (*Rosaceae*) (Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).

***Phragmidium hendersonii*** Bahc. & Kabakt.

*Potentilla* L. (*Rosaceae*) (Bahçecioglu et al. 2005).

***Phragmidium kamtschatkae*** (Anders) Arthur & Cummins

*Rosa foetida* Herrm. (*Rosaceae*) (Henderson 1964).

***Phragmidium mucronatum*** (Pers.) Schltdl.

*Rosa* L. (*Rosaceae*) (Bremer et al. 1947 as *Phragmidium subcorticium* (Schrank) G. Winter; Demirci et al. 1997; Guven & Tamer 1993; Oner & Ekmekci 1974; Tamer & Oner 1978a; Ucar & Oner 1977).

*Rosa canina* L. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001, 2005; Bahçecioglu et al. 2006; Ekici et al. 2010; Erdogdu et al. 2010; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010; Parlak & Gucin 1993; Pekel & Azaz 2003; Tamer et al. 1989; Tamer et al. 1990b).

*Rosa dumalis* Bechst. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001, 2005).

*Rosa foetida* J.Herm. (Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).

*Rosa horrida* Spreng. (Bahçecioglu et al. 2006).

*Rosa pimpinellifolia* L. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006).



*Rosa pulverulenta* M. Bieb. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

*Rosa villosa* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

***Phragmidium potentillae*** (Pers.) P. t.

*Potentilla* L. (*Rosaceae*) (Gobelez 1962; Henderson 1964).

*Potentilla argentea* L. (Kabaktepe 2010).

*Potentilla aucheriana* Th. Wolf ex Bornm. (Bahcecioglu & Isiloglu 1995).

*Potentilla crantzii* (Crantz) Fritsch (Kabaktepe 2010).

*Potentilla erecta* Hampe (Bahcecioglu et al. 2006).

*Potentilla inclinata* Vill (Tamer et al. 1989).

*Potentilla recta* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001, 2005; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Potentilla reptans* L. (Kabaktepe 2010).

*Potentilla speciosa* Willd. (Kabaktepe 2010).

***Phragmidium rosae-pimpinellifoliae*** Dietel

*Rosa pimpinellifolia* L. (*Rosaceae*) (Kabaktepe 2010).

***Phragmidium rubi-idaei*** (DC.) P. t.

*Rubus idaeus* L. (*Rosaceae*) (Kabaktepe 2010).

***Phragmidium rubi-saxatilis*** Liro

*Rubus canescens* DC. var. *canescens* (*Rosaceae*) (Bahcecioglu & Yıldız 2005).

***Phragmidium sanguisorbae*** (DC.) J. Schröt.

*Sanguisorba* L. (*Rosaceae*) (Erdogdu et al. 2010).

*Sanguisorba minor* Scop. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996, Bahcecioglu & Yıldız 2001, 2005; Bahcecioglu et al. 2006; Kabaktepe 2010; Karaboz & Oner 1982; Tamer & Altan 1995).

*Sarcopoterium spinosum* Spach (*Rosaceae*) (Tamer & Oner 1978a, 1978b).

***Phragmidium sarcopoterii*** Gjaerum & Bahc.

*Sarcopoterium spinosum* Spach (*Rosaceae*) (Bahcecioglu & Gjaerum 2004).

***Phragmidium tuberculatum*** Jul. Mull.

*Rosa* L. (*Rosaceae*) (Bahcecioglu et al. 2006; Bremer et al. 1947, 1952; Kabaktepe & Bahcecioglu 2006; Karel 1958)

*Rosa dumalis* Bechst. (Bahcecioglu & Yıldız 2005).

*Rosa montana* DC. (Kabaktepe 2010).

*Rosa villosa* L. subsp. *villosa* (Bahcecioglu & Yıldız 2005).

*Rosa pulverulenta* M. Bieb. (Bahcecioglu & Yıldız 2005).

***Phragmidium violaceum*** (Schultz) G. Winter

*Rubus* L. (*Rosaceae*) (Bremer et al. 1947, 1952; Gobelez 1962; Karel 1958; Oner & Ekmekci 1974).

*Rubus caesius* L. (Kabaktepe 2010).

*Rubus canescens* DC. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006).

*Rubus discolor* Weihe & Nees (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006; Kabaktepe 2010; Tamer & Oner 1978a).

*Rubus fruticosus* L. (Oner & Ekmekci 1974; Oner et al. 1974; Ucar & Oner 1977).

*Rubus hirtus* Waldst. & Kit. (Kabaktepe & Bahcecioglu 2006).

*Rubus sanctus* Schreb. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006; Oner et al. 1984).

***Trachyspora intrusa*** (Grev.) Arthur

*Alchemilla* L. (*Rosaceae*) (Henderson 1964; Tamer & Altan 1995).

*Alchemilla barbatiflora* Juz. (Bahcecioglu & Gjaerum 2004).

*Alchemilla holocycla* Rothm. (Bahcecioglu & Yıldız 2005)

*Alchemilla mollis* (Buser) Rothm. (Bahcecioglu & Gjaerum 2004).

*Alchemilla pseudocartalinica* Juz. (Kabaktepe 2010; Tamer et al. 1989).

***Xenodochus carbonarius*** Schldtl.

*Sanguisorba officinalis* L. (*Rosaceae*) (Kabaktepe 2010).

***Pileolariaceae***

***Pileolaria terebinthi*** Castagne

*Pistacia* L. (*Anacardiaceae*) (Bahcecioglu et al. 2006).

*Pistacia lentiscus* L. (Bremer et al. 1947; Karel 1958 as *Uromyces terebinthi* (DC.) G. Winter)

*Pistacia terebinthus* Mill. (Bremer et al. 1947; Erdogdu et al. 2010; Gobelez 1962; Karel 1958; Tamer & Oner 1978a as *U. terebinthi*; Oner & Ekmekci 1974; Oner et al. 1984).

*Pistacia vera* L. (Bremer et al. 1947; Karel 1958 as *U. terebinthi*).

***Pucciniaceae***

***Cumminsiella mirabilissima*** (Peck) Nannf.

*Mahonia aquifolium* Nutt. (*Berberidaceae*) (Huseyin E. 2004).

***Endophyllum sempervivi*** (Alb. & Schwein.) de Bary

*Sempervivum globiferum* L. (*Crassulaceae*) (Henderson 1964).

***Gymnosporangium amelanchieris* E. Fisch. ex F. Kern**

*Amelanchier rotundifolia* M. Roem. (*Rosaceae*) (Bahcecioglu 2001, Bahcecioglu & Yıldız 2005).

***Gymnosporangium clavariiforme* (Jacq.) DC.**

*Amelanchier rotundifolia* M. Roem. (*Rosaceae*) (Bahcecioglu et al. 2006).

*Cotoneaster nummularius* Fisch. & C. A. Mey. (*Rosaceae*) (Henderson 1957).

*Crataegus* L. (*Rosaceae*) (Bahcecioglu & Yıldız 2005; Gobelez 1962; Gurcan 1976; Guven & Tamer 1993; Selik 1972; Tamer & Altan 1995).

*Crataegus aronia* Bosc (Bahcecioglu et al. 2006).

*Crataegus azoralus* L. (Oner & Ekmekci 1974).

*Crataegus microphylla* K. Koch (Kabaktepe 2010).

*Crataegus monogyna* Jacq. subsp. *monogyna* (Karel 1958; Oner & Ekmekci 1974; Oner et al. 1974, 1984; Tamer et al. 1987).

*Crataegus orientalis* M. Bieb. (Bahcecioglu et al. 2006; Dervis et al. 2010).

*Juniperus oxycedrus* L. (*Cupressaceae*) (Selik 1972).

*Juniperus drupacea* Labill. (Selik 1972).

*Juniperus excelsa* M. Bieb. (Selik 1972).

*Juniperus foetidissima* Willd. (Selik 1972).

*Malus sylvestris* Mill. (*Rosaceae*) (Bahcecioglu et al. 2006).

*Mespilus germanica* L. (*Rosaceae*) (Karel 1958).

*Pyrus syriaca* Boiss. (*Rosaceae*) (Bahcecioglu et al. 2006).

***Gymnosporangium confusum* Plowr.**

*Cotoneaster* Medik. (*Rosaceae*) (Bahcecioglu et al. 2006).

*Cotoneaster melanocarpus* Fisch. ex Loud. (Kabaktepe 2010).

*Cotoneaster vulgaris* Lindl. (Bremer et al. 1952; Karel 1958).

*Crataegus* L. (*Rosaceae*) (Bahcecioglu & Yıldız 2005; Bremer et al. 1947; Logway 1964; Oner et al. 1984).

*Crataegus monogyna* Jacq. subsp. *monogyna* (Bahcecioglu & Yıldız 2005; Bremer et al. 1947; Dervis et al. 2010; Ekici et al. 2010; Erdogdu et al. 2010; Gobelez 1962; Selik 1972).

*Crataegus pentagyna* Waldst. & Kit. ex Wild. (Bahcecioglu & Yıldız 2005).

*Crataegus szowitsii* Pojark (Bahcecioglu & Yıldız 2005).

*Crataegus tanacetifolia* (Lam.) Pers. (Bahcecioglu & Yıldız 2005)

*Cydonia vulgaris* Pers. (*Rosaceae*) (Bremer et al. 1947; Gobelez 1962; Kabaktepe 2010).

*Juniperus oxycedrus* L. (*Cupressaceae*) (Bremer et al. 1952; Karel 1958; Logway 1964).

*Mespilus germanica* L. (*Rosaceae*) (Bremer et al. 1947, 1952; Gobelez 1962; Kabaktepe 2010; Karel 1958; Selik 1972).

***Gymnosporangium cornutum*** Arthur ex F. Kern

*Juniperus communis* L. (*Cupressaceae*) (Erdogdu et al. 2010).

*Sorbus aucuparia* Poir. (*Rosaceae*) (Huseyin & Selcuk 2001).

*Sorbus umbellata* Fritsch (Bahcecioglu & Yıldız 1996).

***Gymnosporangium fuscum*** Oerst.

*Pyrus communis* L. (*Rosaceae*) (Bahcecioglu et al. 2006).

***Gymnosporangium gaeumannii*** H. Zogg

*Juniperus nana* Willd. (*Cupressaceae*) (Ucar & Oner 1977).

***Gymnosporangium juniperi*** Link

*Sorbus subfusca* Boiss. (*Rosaceae*) (Huseyin & Selcuk 2000).

***Gymnosporangium sabiniae*** (Dicks.) G. Winter

*Juniperus excelsa* M. Bieb. (*Cupressaceae*) (Dinc & Karaca 1975 as *Gymnosporangium fuscum* DC.).

*Juniperus nana* Willd. (Dinc & Karaca 1975 as *G. fuscum*; Gobelez 1962; Selik 1972).

*Juniperus oxycedrus* L. (Bremer et al. 1952).

*Pyrus communis* L. (*Rosaceae*) (Bremer et al. 1947, 1952; Dinc & Karaca 1975; Dervis et al. 2010; Guven & Tamer 1993; Selik 1972; Oner et al. 1984; Parlak & Guvin 1993 as *G. fuscum* ).

*Pyrus elaeagnifolia* Pall. (Dinc & Karaca 1975; Oner et al. 1984 as *G. fuscum*; Kabaktepe 2010).

***Gymnosporangium tremelloides*** R. Hartig

*Malus* Mill. (*Rosaceae*) (Guven & Tamer 1993).

*Malus sylvestris* Mill. (Kabaktepe 2010).

*Pyrus communis* L. (*Rosaceae*) (Erdogdu et al. 2010).

*Pyrus malus* L. (Bremer et al. 1947, 1952; Gobelez 1962; Karel 1958).

*Sorbus aria* (L.) Crantz (*Rosaceae*) (Bremer et al. 1947).

*Sorbus aucuparia* L. (Kabaktepe 2010).

***Puccinia absinthii*** DC.

*Artemisia austriaca* Jacq. (*Asteraceae*) (Bahcecioglu 2001, Bahcecioglu & Yıldız 2005)

*Artemisia absinthium* L. (Bahcecioglu 2001, Bahcecioglu & Yıldız 2005)

*Artemisia taurica* Willd. (Bahcecioglu 2001, Bahcecioglu & Yıldız 2005)

*Tanacetum balsamita* L. (*Asteraceae*) (Bahcecioglu & Yıldız 2005)

***Puccinia acarnae*** P.Syd. & Syd.

*Picnomon acarna* (L.) Cass. (*Asteraceae*) (Bahcecioglu & Yıldız 2005; Bremer et al. 1952; Ekici et al. 2010; Erdogdu et al. 2010; Gobelez 1962; Kabaktepe 2010; Tamer et al. 1997).

***Puccinia acetosae*** Barclay

*Rumex* L. (*Polygonaceae*) (Oner & Ekmekci 1974; Tamer & Altan 1995).

*Rumex acetosa* L. (Kabaktepe 2010).

*Rumex acetosella* L. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Oner & Ekmekci 1974).

*Rumex patientia* L. (Kabaktepe 2010).

*Rumex scutatus* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Kabaktepe 2010).

*Rumex tmoleus* Boiss. (Bremer et al. 1947; Gobelez 1962).

*Rumex tuberosus* L. (Bahcecioglu & Yıldız 2005; Tamer et al. 1992; Tamer & Oner 1978a).

***Puccinia achilleae*** Cooke

*Achillea biebersteinii* Afanasiev (*Asteraceae*) (Kabaktepe 2010).

*Achillea cucullata* (Hauskn.) Bornm. (Bahcecioglu & Yıldız 2005).

*Achillea goniocephala* Boiss. & Balansa (Bahcecioglu et al. 2006).

*Achillea millefolium* L. (Bahcecioglu & Yıldız 2005; Kabaktepe & Bahcecioglu 2006).

*Achillea phrygia* Boiss. & Bal. (Bahcecioglu & Yıldız 2005).

*Achillea santolina* L. (Henderson 1959).

*Achillea sintenisii* Hub.-Mor. (Bahcecioglu & Yıldız 2005).

*Achillea sipikorensis* Hauskn. & Bornm. (Bahcecioglu & Yıldız 2005).

*Achillea teretifolia* Willd. (Bahcecioglu & Yıldız 2005)

*Achillea wilhelmsii* C.Koch (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006).

***Puccinia acroptili*** P. Syd. & Syd.

*Acroptilon picris* (Pall. ex Willd.) DC. (*Asteraceae*) (Bremer et al. 1952; Gobelez 1962; Tamer et al. 1997).

*Acroptilon repens* (L.) DC. (Demirci et al. 1997).

***Puccinia aethionematis*** Koshk.

*Aethionema iberideum* Boiss. (*Brassicaceae*) (Bahcecioglu et al. 2006).

***Puccinia allii*** Castagne

*Allium* L. (*Alliaceae*) (Bremer et al. 1947; Henderson 1964; Karaboz & Oner 1982; Oner & Ekmekci 1974; Tamer & Altan 1995; Tamer & Oner 1978a).

*Allium ampeloprasum* L. (Bremer et al. 1947; Gobelez 1962).

*Allium cepa* L. (Kabaktepe & Bahcecioglu 2006; Sagir & Ulukus 1982).

*Allium neapolitanum* Cirillo (Tamer & Oner 1978a).

*Allium rotundum* L. (Tamer & Oner 1978a).

*Allium sativum* L. (Bahçecioglu et al. 2006; Kabaktepe 2010).

***Puccinia alyssi*** Lindr.

*Alyssum minutum* Schlecht. ex DC. (*Brassicaceae*) (Tamer et al. 1987).

***Puccinia anatolica*** Gassner

*Vinca herbacea* Waldst. & Kit. (*Apocynaceae*) (Bremer et al. 1947; Karel 1958; Gobelez 1962).

***Puccinia ankarensis*** Petr.

*Lactuca* L. (*Asteraceae*) (Henderson 1961).

*Lactuca viminea* C.B. Clarke (Bremer et al. 1952; Gobelez 1962).

***Puccinia annularis*** (F. Strauss) G. Winter

*Teucrium chamaedrys* L. (*Lamiaceae*) (Bahçecioglu et al. 2006; Erdogdu et al. 2010; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010; Tamer et al. 1987, 1990a).

*Teucrium divaricatum* Sieber ex Heldr. (Tamer & Oner 1978b).

*Teucrium polium* L. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001, 2005; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006).

***Puccinia antirrhini*** Dietel & Holw.

*Antirrhinum majus* L. (*Scrophulariaceae*) (Güven & Tamer 1993; Gobelez 1962; Oner & Ekmekci 1974; Ucar & Oner 1977).

***Puccinia apii*** Desm.

*Apium graveolens* L. (*Apiaceae*) (Bahçecioglu et al. 2006; Kabaktepe 2010).

***Puccinia arabidis-conringioidis*** Maire

*Arabis graellsiiiformis* Hedge (*Brassicaceae*) (Henderson 1959).

***Puccinia ardahanensis*** R. Berndt, Bahç. & S. Kabaktepe

*Veronica armena* Boiss. & Huet (*Scrophulariaceae*) (Bahçecioglu et al. 2009; Kabaktepe 2010).

***Puccinia arenariae*** (Schumach.) J. Schröt.

*Cerastium purpurascens* Adams (*Caryophyllaceae*) (Tamer et al. 1989).

*Sagina* L. (*Caryophyllaceae*) (Henderson 1964).

*Silene* L. (*Caryophyllaceae*) (Kabaktepe 2010).

*Silene italica* (L.) Pers (Bahçecioglu & Yıldız 2005).

*Silene rhynhocarpa* Boiss. (Bahçecioglu et al. 2006).

*Silene vulgaris* (Moench) Garcke var. *vulgaris* (Kabaktepe & Bahçecioglu 2006).

***Puccinia aristolochiae*** (DC.) G. Winter

*Aristolochia* L. (*Aristolochiaceae*) (Henderson 1964; Tamer & Altan 1995).

*Aristolochia maurorum* L. (Gobelez 1962).

***Puccinia asparagi*** DC.

*Asparagus officinalis* L. (*Liliaceae*) (Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Asparagus verticillatus* L. (Bahcecioglu & Yıldız 2005).

***Puccinia asperulae-aparines*** Picbauer

*Asperula* L. (*Rubiaceae*) (Bahcecioglu & Yıldız 2005).

*Asperula pestalazzae* Boiss. (Bahcecioglu & Yıldız 2005).

***Puccinia asperulina*** (Juel) Lagerh.

*Galium mite* Boiss. & Hohen. (*Rubiaceae*) (Tamer & Altan 1995).

***Puccinia asphodeli*** Moug.

*Asphodelus microcarpus* Rchb. (*Asphodelaceae*) (Bremer et al. 1947; Gobelez 1962; Henderson 1964; Oner & Ekmekci 1974; Tamer & Oner 1978a).

***Puccinia asteris*** Schwein.

*Aster amellus* L. (*Asteraceae*) (Henderson 1964).

***Puccinia asyneumatis*** Bahc. & Kabakt.

*Asyneuma amplexicaule* Hand.-Mazz. (*Campanulaceae*) (Bahcecioglu et al. 2005).

***Puccinia ballotae*** D.M. Hend.

*Ballota rotundifolia* K.Koch (*Lamiaceae*) (Kabaktepe 2010).

*Ballota saxatilis* Guss. (Henderson 1959).

***Puccinia balsamitae*** (F. Strauss) Rabenh.

*Tanacetum balsamita* L. (*Asteraceae*) (Kabaktepe 2010).

*Tanacetum balsamitoides* Sch. Bip. (Bahcecioglu et al. 2006).

*Tanacetum cilicicum* (Boiss.) Grierson (Bahcecioglu et al. 2006).

***Puccinia behenis*** G.H. Otth

*Silene* L. (*Caryophyllaceae*) (Bahcecioglu et al. 2006).

*Silene alba* Muhl. ex Rohrb. (Kabaktepe 2010).

*Silene arguta* Fenzl (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

*Silene odontopetala* Fenzl (Tamer & Altan 1995).

***Puccinia betonicae*** (Alb. & Schwein.) DC.

*Stachys* L. (*Lamiaceae*) (Bahcecioglu et al. 2006).

*Stachys annua* L. (Kabaktepe 2010).

*Stachys iberica* M. Bieb. (Bahçecioglu & Yıldız 2005).  
*Stachys citrina* Boiss. & Heldr. (Bahçecioglu & Yıldız 2005).  
*Stachys cretica* L. (Kabaktepe 2010).  
*Stachys grandiflora* Benth. (Henderson 1964).

***Puccinia bistortae*** (F. Strauss) DC.

*Polygonum bellardii* All. (*Polygonaceae*) (Kabaktepe 2010).  
*Polygonum bistorta* L. (Tamer et al. 1989).  
*Polygonum lapathifolium* L. (Kabaktepe 2010).

***Puccinia bithynica*** Magnus

*Salvia cryptantha* Montbret & Aucher ex Benth. (*Lamiaceae*) (Henderson 1957).

***Puccinia brachypodii*** var. *poae-nemoralis* (G.H. Otth) Cummins & H.C. Grene

*Berberis* L. (*Berberidaceae*) (Henderson 1964 as *Puccinia poae-nemoralis* G.H. Otth)  
*Poa nemoralis* L. (*Poaceae*) (Tamer et al. 1989 as *P. poae-nemoralis*).

***Puccinia bromina*** Erikss.

*Bromus japonicus* Thunb. (*Poaceae*) (Bahçecioglu 2001, Bahçecioglu & Yıldız 2005 )  
*Bromus sterilis* L. (Bahçecioglu 2001, Bahçecioglu & Yıldız 2005).

***Puccinia buharica*** Jacz.

*Zoegea lepturea* L. (*Asteraceae*) (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001; Tamer et al. 1987).

***Puccinia bulbocastani*** (Cumina) Fucckel

*Bunium* L. (*Apiaceae*) (Bahçecioglu & Yıldız 2005; Henderson 1964; Tamer et al. 1989).

***Puccinia bupleuri*** (Opiz) Rudolphi

*Bupleurum* L. (*Apiaceae*) (Bremer et al. 1952; Henderson 1959, 1964 as *Puccinia bupleuri-falcati* (DC.) G. Winter; Tamer et al. 1997).

*Bupleurum subovatum* Spreng. (Bremer et al. 1952; Gobelez 1962 as *P. bupleuri-falcati*).

*Bupleurum croseum* Fenzl (Bahçecioglu & Yıldız 2005).

*Bupleurum falcatum* L. (Bahçecioglu & Yıldız 2005).

*Bupleurum rotundifolium* L. (Bahçecioglu & Yıldız 2005).

***Puccinia buxi*** DC.

*Buxus sempervirens* L. (*Buxaceae*) (Gobelez 1962).

***Puccinia calcitrapae*** DC.



*Arctium lappa* L. (*Asteraceae*) (Demirci et al. 1997 as *Puccinia bardanae* (Wallr.) Corda).

*Arctium minus* (Hill) Bernh. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Tamer & Altan 1995).

*Carduus* L. (*Asteraceae*) (Demirci et al. 1997; Ucar & Oner 1977).

*Carduus acanthoides* L. (Bahcecioglu & Yıldız 2005 as *Puccinia carduorum* Jacky).

*Carduus apenninus* Jan ex DC. (Kabaktepe 2010).

*Carduus lanuginosus* Willd. (Pekel & Azaz 2003).

*Carduus nutans* L. (Bahcecioglu & Yıldız 2001, 2005; Kabaktepe 2010; Tamer et al. 1987, 1990a; Tamer & Oner 1978a as *P. carduorum*; Bahcecioglu et al. 2006)

*Carduus pycnocephalus* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2005 as *P. carduorum*; Bahcecioglu et al. 2006; Demirci et al. 1997 as *Puccinia cardui-pycnocephali* P. Syd. & Syd.; Ekici et al. 2010; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Karaboz & Oner 1982; Tamer & Altan 1995).

*Carlina foliosa* Boiss. & Hausskn. (*Asteraceae*) (Bahcecioglu et al. 2006).

*Carlina oligocephala* Boiss. & Kotschy (Bahcecioglu & Yıldız 1996; Bahcecioglu et al. 2006; Tamer et al. 1990b as *Puccinia carlinae* Jacky).

*Centaurea* L. (*Asteraceae*) (Güven & Tamer 1993; Henderson 1959; Tamer & Altan 1995).

*Centaurea aggregata* Fisch. & Mey. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996, Bahcecioglu & Yıldız 2001).

*Centaurea cheirolopha* (Fenzl) Wagenitz (Bahcecioglu et al. 2006).

*Centaurea depressa* M. Bieb. (Kabaktepe 2010).

*Centaurea glastifolia* L. (Bahcecioglu & Yıldız 2005).

*Centaurea iberica* Trevir. ex Spreng. (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Oner et al. 1984; Tamer et al. 1987).

*Centaurea kotschyi* (Boiss. & Heldr.) Hayek (Bahcecioglu & Yıldız 2005).

*Centaurea kurdica* Reichardt (Tamer et al. 1990b).

*Centaurea macrocephala* Puschk. ex Willd. (Kabaktepe 2010).

*Centaurea polypodiifolia* Boiss. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

*Centaurea pulchella* Ledeb. (Tamer et al. 1990b).

*Centaurea salicifolia* M. Bieb. ex Willd. (Tamer et al. 1989).

*Centaurea solstitialis* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001, 2005; Bahcecioglu et al. 2006 Karaboz & Oner 1982; Tamer & Oner 1978a; Ucar & Oner 1977).

*Centaurea tomentella* Hand.-Mazz. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001).

*Centaurea urvillei* DC. (Bahçecioglu et al. 2006).

*Centaurea virgata* Lam. (Bahçecioglu & Isiloglu 1995; Bahçecioglu & Yıldız 2005; Tamer et al. 1990a).

*Cirsium acarna* (L.) Moench (*Asteraceae*) (Oner et al. 1974).

*Cirsium arvense* (L.) Scop. (Bahçecioglu & Yıldız 2005 as *Puccinia cirsii* Lasch.; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Oner et al. 1984).

*Cirsium canum* (L.) All. (Oner et al. 1984).

*Cirsium haussknechtii* Boiss. (Bahçecioglu et al. 2006).

*Cirsium lappacearum* (M. Bieb.) M. Bieb. (Bahçecioglu & Yıldız 2005 as *P. cirsii*: Bahçecioglu et al. 2006).

*Cirsium macrobotris* (C. Koch) Boiss. (Bahçecioglu & Yıldız 2005 as *P. cirsii*).

*Cirsium rhizocephalum* C. A. Mey. subsp. *sinuatum* (Boiss.) P.H.Davis & Paris (Tamer et al. 1990a).

*Cirsium vulgare* (Savi) Ten. (Bahçecioglu & Yıldız 2005 as *P. cirsii*).

*Cousinia brachyptera* DC. (*Asteraceae*) (Tamer et al. 1990a).

*Echinops galaticus* Freyn (*Asteraceae*) (Bahçecioglu & Gjaerum 2004; Bahçecioglu & Yıldız 2005 as *P. cirsii*; Kabaktepe & Bahçecioglu 2006).

*Echinops melitenensis* Hedge & Hub.-Mor. (Bahçecioglu & Gjaerum 2004; Bahçecioglu & Yıldız 2005 as *P. cirsii*).

*Echinops pungens* Trautv. var. *pungens* (Kabaktepe & Bahçecioglu 2006).

*Echinops ritro* L. (Bahçecioglu & Yıldız 2005 as *P. cirsii* Lasch.; Bahçecioglu et al. 2006; Kabaktepe 2010).

*Lappa* Scop. (*Asteraceae*) (Bremer et al. 1952; Gobelez 1962 as *Puccinia bardanae* (Wallr.) Corda)

*Notobasis syriaca* Cass. (*Asteraceae*) (Bahçecioglu et al. 2006; Karaboz & Oner 1982).

*Picnomon acarna* (L.) Cass. (*Asteraceae*) (Bahçecioglu et al. 2006).

#### ***Puccinia calthae* Link**

*Caltha polypetala* Hochst. (*Ranunculaceae*) (Henderson 1964; Kabaktepe 2010; Tamer et al. 1997).

#### ***Puccinia campanulae* Carmich.**

*Campanula tridentata* Schreb. (*Campanulaceae*) (Henderson 1964).

#### ***Puccinia cancellata* (Durieu & Mont.) Sacc. & Roum.**

*Juncus acutus* L. (*Juncaceae*) (Henderson 1964).

#### ***Puccinia caricicola* Fuckel**

*Carex* L. (*Cyperaceae*) (Kabaktepe 2010).  
*Carex atrata* L. (Bahcecioglu & Yıldız 2005).  
*Carex hirta* L. (Bahcecioglu & Yıldız 2005).  
*Carex hordeistichos* Vill. (Bahcecioglu & Yıldız 2005).  
*Carex nigra* (L.) Reichard (Bahcecioglu & Yıldız 2005).  
*Carex riparia* Curtis (Bahcecioglu & Yıldız 2005).  
*Urtica dioica* L. (*Urticaceae*) (Kabaktepe 2010).

***Puccinia caricina* DC. var. *caricina***

*Carex* L. (*Cyperaceae*) (Bahcecioglu & Gjaerum 2004; Bahcecioglu et al. 2006)  
*Carex hordeistichos* Vill. (Bahcecioglu & Gjaerum 2003).

***Puccinia caricis-erigerontis* Arthur**

*Erigeron acer* L. subsp. *acer* (*Asteraceae*) (Tamer et al. 1987).

***Puccinia carthami* Corda**

*Carthamus dentatus* Vahl (*Asteraceae*) (Bahcecioglu et al. 2006; Tamer et al. 1987).  
*Carthamus persicus* Willd. ex Boiss. (Tamer et al. 1992).  
*Carthamus tinctorius* L. (Karel 1958; Gobelez 1962).  
*Centaurea pulcherrima* Willd. (*Asteraceae*) (Kabaktepe 2010).  
*Centaurea virgata* Beser (Kabaktepe 2010).

***Puccinia centaureae* H. Mart.**

*Centaurea* L. (*Asteraceae*) (Henderson 1964).  
*Centaurea aggregata* DC. (Bahcecioglu & Yıldız 2005).  
*Centaurea consanguinea* DC. (Bahcecioglu & Yıldız 2005).  
*Centaurea glastifolia* L. (Bahcecioglu & Yıldız 2005).  
*Centaurea iberica* Trev. ex Spreng. (Bahcecioglu & Yıldız 2005).  
*Centaurea polypodiifolia* Boiss. (Bahcecioglu & Yıldız 2005).  
*Centaurea sivasica* Wagenitz (Bahcecioglu & Yıldız 2005).  
*Centaurea solstitialis* L. (Bremer et al. 1952; Gobelez 1962).  
*Centaurea virgata* Lam. (Bahcecioglu & Yıldız 2005).

***Puccinia cerinthes-agropyrina* Tranzschel**

*Cerinthe minor* L. (*Boraginaceae*) (Pekel & Azaz 2003).

***Puccinia cesatii* J. Schröt.**

*Andropogon hirtus* L. (*Poaceae*) (Bremer et al. 1952; Gobelez 1962).  
*Bothriochloa ischaemum* (L.) Keng (*Poaceae*) (Henderson 1964; Kabaktepe & Bahcecioglu 2006).

***Puccinia chaerophylli* Purton**

*Anthriscus nemorosa* Spreng. (*Apiaceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Oner & Ekmekci 1974; Tamer & Oner 1978a).

*Chaerophyllum aureum* L. (*Apiaceae*) (Kabaktepe 2010).

*Chaerophyllum bulbosum* L. (Bahçecioglu & Yıldız 1996; Kabaktepe 2010).

*Chaerophyllum byzantinum* Boiss. (Kabaktepe & Bahçecioglu 2006).

*Chaerophyllum crinitum* Boiss. (Tamer et al. 1990a).

*Chaerophyllum macrospermum* Fisch. & Mey. ex Hohen. (Bahçecioglu & Gjaerum 2004).

*Daucus carota* L. (*Apiaceae*) (Kabaktepe 2010).

***Puccinia chamaedryos*** Ces.

*Teucrium chamaedrys* L. (*Lamiaceae*) (Henderson 1964).

***Puccinia chondrillina*** Bubak

*Chondrilla juncea* L. (*Asteraceae*) (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Demirci et al. 1997; Gobelez 1962; Kabaktepe 2010; Tamer et al. 1989).

***Puccinia chrysanthemi*** Roze

*Achillea* L. (*Asteraceae*) (Bahçecioglu & Yıldız 1996)

*Achillea phrygia* Boiss. & Balansa (Bahçecioglu & Isiloglu 1995, (Bahçecioglu & Yıldız 1996).

*Chrysanthemum* L. (*Asteraceae*) (Güven & Tamer 1993).

***Puccinia circaeae*** Pers.

*Circaea* L. (*Onagraceae*) (Henderson 1964).

*Circaea lutetiana* L. (Kabaktepe & Bahçecioglu 2006).

***Puccinia cirsii*** (DC.) Sacc.

*Cirsium arvense* (L.) Scop. (*Asteraceae*) (Parlak & Gücin 1993).

***Puccinia cnici*** H. Mart.

*Carduus* L. (*Asteraceae*) (Oner & Ekmekci 1974).

*Cirsium* Mill. (*Asteraceae*) (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001).

*Cirsium anatolicum* (Petr.) Petr. ex Grossh. (Bremer et al. 1952; Gobelez 1962 as *Puccinia cirsii-eriophori* Jacky)

*Cirsium arvense* (L.) Scop. (Bahçecioglu et al. 2006).

*Cirsium bracteosum* DC. (Tamer & Altan 1995 as *P. cirsii-eriophori*).

*Cirsium ciliatum* Moench (Kabaktepe 2010).

*Cirsium eriophorum* Scop. (Bremer et al. 1947 as *P. cirsii-eriophori*)

*Cirsium haussknechtii* Boiss. (Bahçecioglu et al. 2006).

*Cirsium lappaceum* (M. Bieb.) Fischer (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Kabaktepe 2010).

*Cirsium obvallatum* M. Bieb. (Kabaktepe 2010).

*Cirsium pubigerum* (Desf.) DC. (Bahçecioglu & Yıldız 2005).

*Cirsium vulgare* (Savi) Ten. (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006).

*Picnomon acarna* (L.) Cass. (*Asteraceae*) (Oner et al. 1984 as *Puccinia cirsii-lanceolati* J. Schröt.; Tamer et al. 1987, 1990a).

***Puccinia cnici-oleracei* Pers.**

*Achillea* L. (*Asteraceae*) (Tamer & Altan 1995 as *Puccinia millefolii* Fuckel).

*Achillea kotschyi* Boiss. (Bahcecioglu et al. 2006).

*Achillea phrygia* Boiss. & Balansa (Oner et al. 1984 as *P. millefolii*).

*Achillea tenuifolia* Lam. (Kabaktepe 2010).

*Aster amellus* L. ssp. *ibericus* (Stev.) Avetian (*Asteraceae*) (Pekel & Azaz 2003).

***Puccinia conclusa* Thum.**

*Cyperus rotundus* L. (*Cyperaceae*) (Sert et al. 2004b).

***Puccinia conii* (F. Strauss) Fuckel**

*Conium maculatum* L. (*Apiaceae*) (Bahcecioglu & Isiloglu 1995; Gobelez 1962).

***Puccinia convolvuli* (Pers.) Castagne**

*Convolvulus* L. (*Convolvulaceae*) (Henderson 1964).

*Convolvulus arvensis* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Kabaktepe 2010).

*Convolvulus sepium* L. (Bremer et al. 1952; Gobelez 1962).

***Puccinia constricta* (Lagerh.) Bubák**

*Teucrium orientale* L. (*Lamiaceae*) (Bahcecioglu & Gjaerum 2004; Bahcecioglu et al. 2006).

*Teucrium polium* L. (Bahcecioglu et al. 2006).

***Puccinia coronata* var. *avenae* W.P. Fraser & Ledingham**

*Avena barbata* Pott (*Poaceae*) (Kabaktepe 2010; Oner & Ekmekci 1974).

*Avena sativa* L. (Bremer et al. 1947; Gobelez 1962 as *Puccinia coronifera* Kleb.; Karaboz & Oner 1982).

*Avena sterilis* L. (Bremer et al. 1947; Gobelez 1962; Tamer & Oner 1978a as *P. coronifera*)

*Bromus tomentosus* Trin. (*Poaceae*) (Henderson 1964).

*Frangula alnus* Mill. (*Rhamnaceae*) (Huseyin & Selcuk 2001).

*Polypogon monspeliensis* (L.) Desf. (*Poaceae*) (Henderson 1964; Karaboz & Oner 1982; Tamer & Oner 1978a).

*Rhamnus* L. (*Rhamnaceae*) (Henderson 1964).

*Rhamnus cathartica* L. (Tamer et al. 1989).

*Rhamnus pallasii* Fisch. & Mey. (Kabaktepe 2010; Pekel & Azaz 2003).

***Puccinia coronillae*** Woron.

*Coronilla orientalis* Miller (*Fabaceae*) (Bahcecioglu & Yıldız 2005; Kabaktepe & Bahcecioglu 2006).

*Coronilla varia* L. (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Puccinia crepidis*** J. Schröt.

*Crepis alpina* L. (*Asteraceae*) (Bahcecioglu & Yıldız 2005).

*Crepis foetida* L. (Bahcecioglu & Yıldız 2005).

***Puccinia crepidicola*** Syd. & P. Syd.

*Crepis* L. (*Asteraceae*) (Bahcecioglu & Isıoglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006).

*Crepis alpina* L. (Kabaktepe & Bahcecioglu 2006).

*Crepis foetida* L. (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Crepis sancta* (L.) Bab. (Tamer et al. 1987).

***Puccinia cressae*** Lagerh.

*Cressa cretica* L. (*Convolvulaceae*) (Oner & Ekmekci 1974; Tamer & Oner 1978a).

***Puccinia cruciferarum*** F. Rudolphi

*Cardamine impatiens* L. (*Brassicaceae*) (Tamer et al. 1987).

***Puccinia cyanii*** Pass.

*Centaurea cheirolopha* (Fenzl) Wagenitz (*Asteraceae*) (Bahcecioglu et al. 2006).

*Centaurea ensiformis* P.H.Davis (Henderson 1957).

*Centaurea glastifolia* L. (Kabaktepe 2010).

*Centaurea iberica* Trev. ex Spreng. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Centaurea lycopifolia* Boiss. & Kotschy ex Boiss. (Bahcecioglu et al. 2006).

*Centaurea pichleri* Boiss. (Bahcecioglu & Yıldız 2005).

*Centaurea polypodiifolia* Boiss. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006).

*Centaurea salicifolia* M. Bieb. ex Willd. (Kabaktepe 2010).

*Centaurea triumfettii* All. (Bahcecioglu & Yıldız 2005).

*Centaurea urvillei* DC. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006).

*Centaurea virgata* Lam. (Bahcecioglu & Yıldız 2005).

***Puccinia cynodontis*** Lacroix ex Desm.

*Cynodon dactylon* var. *villosus* Regel (*Poaceae*) (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Gobelez 1962; Kabaktepe 2010; Tamer et al. 1987, 1992).

*Plantago major* L. (*Plantaginaceae*) (Ekici et al. 2010).

*Mercurialis annua* L. (*Euphorbiaceae*) (Tamer & Oner 1978a).

*Viola odorata* L. (*Violaceae*) (Bahcecioglu & Isiloglu 1995).

***Puccinia cyperi* Arthur**

*Cyperus* L. (*Cyperaceae*) (Bahcecioglu & Yıldız 2005; Kabaktepe & Bahcecioglu 2006; Oner & Ekmekci 1974).

*Cyperus capitatus* Vandelli (Kabaktepe 2010).

*Eleocharis mitracarpa* Steud. (*Cyperaceae*) (Tamer & Altan 1995).

***Puccinia dioicae* Magnus var. *dioicae***

*Taraxacum* F.H.Wigg. (*Asteraceae*) (Henderson 1957).

*Carex atrata* L. (*Cyperaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Puccinia dioicae* var. *silvatica* (J. Schröt.) D.M. Hend.,**

*Senecio vernalis* Waldst. & Kit. (*Asteraceae*) (Bahcecioglu & Yıldız 2005 as *Puccinia silvatica* J. Schröt.).

***Puccinia divergens* Bubak**

*Carlina oligocephala* Boiss. & Kotschy (*Asteraceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Carlina vulgaris* L. (Kabaktepe 2010).

***Puccinia echinopsis* DC.**

*Echinops* L. (*Asteraceae*) (Demirci et al. 1997; Henderson 1959; Tamer & Altan 1995).

*Echinops ritro* L. (Bahcecioglu & Isiloglu 1995, Gobelez 1962)

*Echinops melitenensis* Hedge & Hub.-Mor. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001)

*Echinops pungens* Trautv. (Bahcecioglu & Isiloglu 1995; Tamer et al. 1992).

***Puccinia elymi* Westend.**

*Elymus repens* (L.) Gould (*Poaceae*) (Demirci et al. 1997; Tamer & Altan 1995).

***Puccinia eremuri* Kom.**

*Eremurus* M. Bieb. (*Asphodelaceae*) (Henderson 1959).

*Eremurus spectabilis* Ledeb. (Kabaktepe 2010).

***Puccinia eryngii* DC.**

*Eryngium* L. (*Apiaceae*) (Bahcecioglu et al. 2006; Bremer et al. 1952; Oner et al. 1984).

*Eryngium billardierei* Delar. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Tamer et al. 1992).

*Eryngium campestre* L. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Demirci et al. 1997; Ekici et al. 2010; Erdogdu et al. 2010; Gobelez 1962; Kabaktepe 2010; Karaboz & Oner 1982; Ucar & Oner 1977).

***Puccinia falcariae*** (Pers.) Fuckel

*Falcaria* Fabr. (*Apiaceae*) (Bahcecioglu et al. 2006; Tamer & Altan 1995).

*Falcaria rivini* Host (Bremer et al. 1952; Gobelez 1962).

*Falcaria vulgaris* Bernh. (Bahcecioglu & Yıldız 2005; Demirci et al. 1997; Guven & Tamer 1993; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Puccinia ferulae*** F. Rudolphi

*Ferula orientalis* L. (*Apiaceae*) (Kabaktepe 2010).

*Ferulago longistylis* Boiss. (*Apiaceae*) (Bahcecioglu & Yıldız 1996).

***Puccinia festucae*** Plowr.

*Festuca* L. (*Poaceae*) (Henderson 1964 as *Uredo festucae* DC.).

*Lonicera caucasica* Pall. (*Caprifoliaceae*) (Huseyin & Selcuk 2000, 2001).

***Puccinia frankeniae*** Link

*Frankenia hirsuta* L. (*Frankeniaceae*) (Henderson 1964; Tamer & Oner 1978a, 1978b).

***Puccinia fuckelii*** Korn.

*Jurinea aucheriana* DC. (*Asteraceae*) (Bahcecioglu & Yıldız 1996, 2005; Bahcecioglu 1998).

***Puccinia galii-cruciatae*** Duby

*Cruciata laevipes* Opiz (*Rubiaceae*) (Bahcecioglu & Yıldız 2005 as *Puccinia celakovskyana* Bub.).

*Cruciata taurica* (Pall.) Ehrend. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001, 2005; Kabaktepe & Bahcecioglu 2006 as *P. celakovskyana*; Bahcecioglu et al. 2006; Kabaktepe 2010).

*Galium verum* L. (*Rubiaceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Puccinia gentianae*** Rohl.

*Gentiana cruciata* L. (*Gentianaceae*) (Demirci et al. 1997; Kabaktepe 2010; Pekel & Azaz 2003).

*Gentiana lutea* L. (Pekel & Azaz 2003).



*Gentiana septemfida* Pall. (Kabaktepe 2010).

***Puccinia geranii-silvatici*** P. Karst.

*Geranium* L. (*Geraniaceae*) (Güven & Tamer 1993; Tamer et al. 1997).

*Geranium tuberosum* L. (Gobelez 1962).

***Puccinia gjaerumii*** Bahc. & Kabakt.

*Bellardiochloa polychroa* (Trautv.) Roshev. (*Poaceae*) (Bahcecioglu et al. 2005).

***Puccinia gladioli*** Castagne

*Gladiolus atrovioleaceus* Boiss. (*Iridaceae*) (Bremer et al. 1952; Karel 1958).

*Gladiolus kotschyanus* Boiss. (Kabaktepe 2010).

***Puccinia glechomatis*** DC.

*Salvia euphratica* Montbr. & Auch. (*Lamiaceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996, Bahcecioglu & Yıldız 2001).

*Salvia rosifolia* Sm. (Kabaktepe 2010).

***Puccinia glomerata*** Grev.

*Senecio eriospermus* DC. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995).

*Senecio orientalis* Mill. (Henderson 1964).

***Puccinia glumarum*** J.C. Schmidt

*Aegilops cylindrica* Sibth. & Sm. (*Poaceae*) (Bremer et al. 1947; Gobelez 1962).

*Aegilops ovata* L. (Bremer et al. 1947; Gobelez 1962).

*Bromus madritensis* L. (*Poaceae*) (Bremer et al. 1952).

*Hordeum murinum* L. (*Poaceae*) (Bremer et al. 1947; Gobelez 1962).

*Hordeum sativum* Pers. (Bremer et al. 1947, 1952; Karel 1958).

*Secale cereale* L. (*Poaceae*) (Bremer et al. 1947; Karel 1958).

*Triticum sativum* Lam. (*Poaceae*) (Bremer et al. 1947, 1952; Karel 1958).

***Puccinia gnaphalii*** (Speg.) Henn.

*Inula* L. (*Asteraceae*) (Henderson 1961).

*Inula graveolens* Desf. (Oner & Ekmekci 1974).

*Inula viscosa* (L.) Aiton (Oner & Ekmekci 1974; Oner et al. 1974).

***Puccinia graminis*** Pers.

*Aegilops speltoides* Tausch (*Poaceae*) (Bahcecioglu & Yıldız 2005).

*Aegilops umbellulata* Zhuk. (Bahcecioglu & Yıldız 2005).

*Agropyron repens* (L.) P.Beauv. (*Poaceae*) (Bremer et al. 1947, 1952).

*Alopecurus arundinaceus* Poir. (*Poaceae*) (Bahcecioglu & Yıldız 2005).

*Avena barbata* Pott (*Poaceae*) (Bremer et al. 1947; Kabaktepe & Bahcecioglu 2006; Karaboz & Oner 1982; Oner et al. 1984).

- Avena sativa* L. (Bahçecioglu & Yıldız 2005).  
*Avena sterilis* L. (Bremer et al. 1947).  
*Berberis* L. (*Berberidaceae*) (Karel 1958; Henderson 1964).  
*Berberis crataegina* DC. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001, 2005; Bahçecioglu et al. 2006; Kabaktepe 2010).  
*Berberis vulgaris* L. (Bahçecioglu & Yıldız 2005; Kabaktepe 2010; Oner & Ekmekci 1974).  
*Bromus* L. (*Poaceae*) (Henderson 1964; Tamer et al. 1990b).  
*Bromus erectus* Huds. (Karaboz & Oner 1982).  
*Bromus japonicus* Thunb. (Bahçecioglu et al. 2006).  
*Bromus lanceolatus* Roth (Bahçecioglu & Yıldız 2005; Kabaktepe & Bahçecioglu 2006).  
*Bromus sterilis* L. (*Poaceae*) (Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Karaboz & Oner 1982).  
*Bromus tectorum* L. (Karaboz & Oner 1982).  
*Calamagrostis pseudophragmites* (Haller f.) Koeler (*Poaceae*) (Bahçecioglu & Yıldız 2005).  
*Dactylis glomerata* L. (*Poaceae*) (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Demirci et al. 1997; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010; Oner et al. 1984).  
*Elymus caput-medusae* L. (*Poaceae*) (Bremer et al. 1947).  
*Elymus elongatus* (Host) Runemark subsp. *turcicus* (McGuire) Melderis (Bahçecioglu & Yıldız 2005).  
*Elymus hispidus* (Opiz) Melderis ssp. *hispidus* (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).  
*Elymus lazicus* (Boiss.) Melderis subsp. *divaricatus* (Boiss. & Bal.) Melderis (Bahçecioglu & Yıldız 2005).  
*Elymus lazicus* (Boiss.) Melderis subsp. *lazicus* (*Poaceae*) (Bahçecioglu & Yıldız 2005).  
*Elymus nodosus* (Nevski) Melderis subsp. *gypsicolus* Melderis (Bahçecioglu & Yıldız 2005).  
*Elymus repens* (L.) Gould subsp. *repens* (Bahçecioglu & Yıldız 2005; Guven & Tamer 1993; Kabaktepe 2010).  
*Eremopoa persica* (Trin.) Roshev. (*Poaceae*) (Bahçecioglu & Yıldız 2005).  
*Festuca valesiaca* Schleich. ex Gaudin (*Poaceae*) (Kabaktepe & Bahçecioglu 2006).  
*Hordeum* L. (*Poaceae*) (Guyen & Tamer 1993; Henderson 1964; Kabaktepe & Bahçecioglu 2006).

- Hordeum bulbosum* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yildiz 2001; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).
- Hordeum distichon* L. (Bahcecioglu & Yildiz 2005).
- Hordeum marinum* With. (Kabaktepe & Bahcecioglu 2006).
- Hordeum murinum* L. (Kabaktepe 2010).
- Hordeum sativum* Pers. (Bremer et al. 1947; Karel 1958).
- Lolium* L. (*Poaceae*) (Bahcecioglu et al. 2006; Henderson 1964; Kabaktepe & Bahcecioglu 2006).
- Lolium multiflorum* Lam. (Kabaktepe & Bahcecioglu 2006).
- Lolium persicum* Boiss. & Hohen. (Parlak & Gucin 1993).
- Lolium perenne* L. (Karaboz & Oner 1982; Tamer & Oner 1978a).
- Lolium rigidum* Gaudin (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Parlak & Gucin 1993).
- Melica ciliata* L. subsp. *ciliata* (*Poaceae*) (Bahcecioglu & Yildiz 2005).
- Phleum graecum* Boiss. & Heldr. (*Poaceae*) (Karaboz & Oner 1982).
- Phleum pratense* L. (Kabaktepe 2010).
- Phragmites australis* Cav. (*Poaceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yildiz 1996).
- Poa annua* L. (*Poaceae*) (Kabaktepe 2010).
- Poa longifolia* Trin. (Bahcecioglu & Yildiz 2005).
- Poa nemoralis* L. (Henderson 1964).
- Polypogon viridis* (*Poaceae*) (Gouan) Breistr. (Kabaktepe & Bahcecioglu 2006).
- Secale cereale* L. var. *cereale* (*Poaceae*) (Bahcecioglu & Yildiz 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006).
- Secale cereale* var. *voronovii* (Grossh.) Mayss. (Bahcecioglu & Yildiz 2005).
- Secale montanum* Guss. (Bahcecioglu & Yildiz 2005).
- Setaria viridis* (L.) P.Beauv (*Poaceae*) (Kabaktepe & Bahcecioglu 2006).
- Triticum* L. (*Poaceae*) (Akan et Al. 2006; Bahcecioglu & Yildiz 2005; Karaboz & Oner 1982; Tamer & Altan 1995).
- Triticum aestivum* L. (Gucen & Tamer 1993).
- Triticum carthlicum* Nevski (Parlak & Gucin 1993).
- Triticum dicoccon* Schrank (Bahcecioglu et al. 2006).
- Triticum sativum* Lam. (Bremer et al. 1947, 1952; Karel 1958; Oner et al. 1984).
- Triticum turgidum* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yildiz 2001; Bahcecioglu et al. 2006; Kabaktepe 2010; Parlak & Gucin 1993).
- Triticum vulgare* Vill. (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006).

***Puccinia gundeliae*** Cooke.

*Gundelia tournefortii* L. subsp. *tenuisecta* Willd. (*Asteraceae*) (Bahçecioğlu & Yıldız 2005; Bahçecioğlu et al. 2006; Henderson 1959; Kabaktepe 2010).

***Puccinia hariotii*** Lagerh.

*Stachys* L. (*Lamiaceae*) (Henderson 1957).

***Puccinia hedysari-obscuri*** DC.

*Hedysarum pogonocarpum* Boiss. (*Asteraceae*) (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 1996, Bahçecioğlu & Yıldız 2001)

*Hedysarum pycnostachyum* Hedge & Hub.-Mor. (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001)

*Hedysarum rotundifolium* Boiss. & Noë (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001).

***Puccinia heldreichiana*** Dietel

*Asphodelus* L. (*Asphodelaceae*) (Henderson 1957).

***Puccinia helianthi*** Schwein.

*Helianthus annuus* L. (*Asteraceae*) (Bahçecioğlu et al. 2006; Bremer et al. 1947; Kabaktepe & Bahçecioğlu 2006; Kabaktepe 2010).

*Xanthium strumarium* L. (*Asteraceae*) (Oner et al. 1984).

***Puccinia hendersonii*** Huseyin & Kirbag

*Centaurea kurdica* Reichardt (*Asteraceae*) (Kirbag et al. 2001).

***Puccinia heraclei*** Grev.

*Heracleum* L. (*Apiaceae*) (Bahçecioğlu & Yıldız 1996, Bahçecioğlu 1998).

*Heracleum trachyloma* Fisch. & Mey. (Kabaktepe 2010).

***Puccinia heterophyllae*** Cooke

*Serratula cerinthifolia* (Sibth. & Sm.) Boiss. (*Asteraceae*) (Erdogdu et al. 2010; Henderson 1957).

***Puccinia hieracii*** (Rohl.) H. Mart. var. ***hieracii***

*Acroptilon repens* (L.) DC. (*Asteraceae*) (Bahçecioğlu et al. 2006; Bremer et al. 1947 as *Puccinia jaceae* G.H. Oth; Kabaktepe 2010).

*Centaurea carduiiformis* DC. (*Asteraceae*) (Kabaktepe 2010).

*Centaurea cheirolopha* (Fenzl) Wagenitz (Bahçecioğlu et al. 2006).

*Centaurea lycopifolia* Boiss. & Kotschy ex Boiss. (Bahçecioğlu et al. 2006).

*Centaurea macrocephala* Puschk. ex Willd. (Kabaktepe 2010).

*Centaurea mucronifera* DC. (Bahçecioğlu et al. 2006).

*Centaurea solstitialis* L. (Bahçecioğlu et al. 2006).

*Chondrilla juncea* L. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995 Oner et al. 1984).

*Cichorium intybus* L. (*Asteraceae*) (Bahcecioglu et al. 2006; Bremer et al. 1947; Demirci et al. 1997; Guven & Tamer 1993 as *Puccinia cichorii* (DC.) Bellyneck; Karaboz & Oner 1982; Oner et al. 1984).

*Cichorium pumilum* Jacq. (Bahcecioglu & Isiloglu 1995; Bahcecioglu & Yıldız 2005 as *P. cichorii*).

*Hieracium* L. (*Asteraceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Hieracium olympicum* Boiss. (Tamer et al. 1989).

*Hieracium pannosum* Boiss. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Tamer et al. 1987).

*Inula aucheriana* DC. (*Asteraceae*) (Kabaktepe 2010).

*Picris hieracioides* L. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu 2001; Bahcecioglu & Yıldız 2005 as *Puccinia picridis* Hazsl.; Kabaktepe 2010).

*Picris pauciflora* Willd. (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005 as *P. picridis*; Karaboz & Oner 1982).

*Picris strigosa* M. Bieb. (Bahcecioglu & Isiloglu 1995, Bahcecioglu 2001; Bahcecioglu & Yıldız 2005 as *P. picridis*)

*Serratula cerinthifolia* (Sibth. & Sm.) Boiss. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995)

*Serratula oligocephala* DC. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996; Bahcecioglu et al. 2006).

*Serratula radiata* M. Bieb. (Kabaktepe 2010).

*Taraxacum* F.H.Wigg. (*Asteraceae*) (Bahcecioglu et al. 2006; Bremer et al. 1952; Demirci et al. 1997; Erdogdu et al. 2010; Guven & Tamer 1993; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Oner et al. 1984).

*Taraxacum assemani* C.I.Blanche ex Boiss. (Bahcecioglu et al. 2006).

*Taraxacum bessarabicum* (Hornem.) Hand.Mazz. (Bahcecioglu & Yıldız 2005 as *Puccinia taraxaci* Plowr.).

*Taraxacum montanum* (C.A.Mey.) DC. (Bahcecioglu & Yıldız 2005; Tamer et al. 1990a as *P. taraxaci*).

*Taraxacum officinale* Weber (Ekici et al. 2010).

*Taraxacum serotinum* (Waldst. & Kit.) Poiret (Bahcecioglu & Yıldız 2005 as *P. taraxaci*).

*Taraxacum syriacum* Boiss. (Bahcecioglu & Yıldız 2005).

***Puccinia hieracii* var. *piloselloidarum*** (Probst) Jørst.

*Pilosella* Hill (*Asteraceae*) (Bahcecioglu et al. 2006).

*Pilosella auriculoides* (Láng) P.D.Sell & C.West (Bahcecioglu & Gjaerum 2004; Bahcecioglu et al. 2006; Tamer et al. 1987).

*Pilosella fallax* Arv.-Touv. (Bahcecioglu & Isiloglu 1995).

*Pilosella piloselloides* (Vill.) Sojak (Kabaktepe 2010).

*Pilosella verruculata* (Link) Soják (Bahcecioglu & Gjaerum 2004).

***Puccinia holboellii*** (Hornem.) Rostr.

*Erysimum repandum* L. (*Brassicaceae*) (Tamer et al. 1987).

***Puccinia hordei*** G.H.Otth

*Hordeum* L. (*Poaceae*) (Bahcecioglu et al. 2006).

*Hordeum bulbosum* L. (Bahcecioglu et al. 2006; Kabaktepe 2010).

*Hordeum distichon* L. (Bahcecioglu & Yıldız 2005; Parlak & Gucin 1993).

*Hordeum sativum* Pers. (Bremer et al. 1947; Karel 1958 as *Puccinia simplex* (Korn.) Erikss. & Henning).

*Hordeum vulgare* L. (Kavak 2004).

*Holcus setiglumis* Boiss. & Reut. (*Poaceae*) (Bremer et al. 1952 as *Puccinia holcina* Erikss.; Gobelez 1962).

*Lolium* L. (*Poaceae*) (Henderson 1957).

*Triticum aestivum* L. (*Poaceae*) (Guvén & Tamer 1993).

***Puccinia hysteriorum*** Rohl.

*Rhagadiolus angulosus* (Jaub. & Spach) Kupicha (*Asteraceae*) (Tamer et al. 1990b).

*Rhagadiolus stellatus* DC. (Oner et al. 1974; Tamer et al. 1992).

*Tragopogon* L. (*Asteraceae*) (Demirci et al. 1997; Guvén & Tamer 1993).

*Tragopogon aureus* Boiss. (Bahcecioglu & Yıldız 2005 as *Puccinia tragopogi* (Pers.) G.Winter; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Tamer et al. 1989).

*Tragopogon latifolius* Boiss. (Bremer et al. 1947; Gobelez 1962 as *P. tragopogi*).

***Puccinia hysteriiformis*** Peck

*Minuartia recurva* Schinz & Thell (*Caryophyllaceae*) (Kabaktepe 2010).

***Puccinia imperatae*** (Magnus) G. Poirault

*Imperata cylindrica* (L.) P.Beauv. (*Poaceae*) (Bremer et al. 1952; Gobelez 1962).

***Puccinia iridis*** Wallr.

*Iris* L. (*Iridaceae*) (Bahcecioglu & Yıldız 2005).

*Iris sari* Scott ex Baker (Kabaktepe & Bahcecioglu 2006).

*Iris taochia* Woronow ex Grossh. (Henderson 1964; Pekel & Azaz 2003; Tamer & Altan 1995).

***Puccinia isiacae*** (Thum.) G. Winter

*Lepidium draba* L. (*Brassicaceae*) (Bremer et al. 1947; Gobelez 1962).

*Myagrum perfoliatum* L. (*Brassicaceae*) (Bremer et al. 1947).

***Puccinia jasmini*** DC.

*Jasminum fruticans* L. (*Oleaceae*) (Bahcecioglu & Isiloglu 1995; Bahcecioglu et al. 2006; Ekici et al. 2010; Erdogan et al. 2010; Gobelez 1962; Kabaktepe & Bahcecioglu 2006; Oner et al. 1984; Tamer et al. 1990a; Tamer & Oner 1978a; Ucar & Oner 1977).

***Puccinia jurineae* Cooke**

*Jurinea* L. (*Asteraceae*) (Henderson 1957).

***Puccinia lactucarum* P. Syd.**

*Cephalorrhynchus tuberosus* (Steven) Schchian (*Asteraceae*) (Bahcecioglu et al. 2006).

*Lactuca* L. (Bahcecioglu et al. 2006).

*Scariola* F.W.Schmidt (*Asteraceae*) (Bahcecioglu et al. 2006).

*Scariola viminea* F.W.Schmidt (Bahcecioglu & Gjaerum 2003).

***Puccinia lapsanae* Fuckel**

*Jurinea consanguinea* L. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

*Lapsana* L. (*Asteraceae*) (Demirci et al. 1997).

*Lapsana communis* L. (Bahcecioglu & Isiloglu 1995; Bahcecioglu & Yıldız 2001, 2005; Bahcecioglu & Gjaerum 2004; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Lapsana intermedia* M. Bieb. (Bremer et al. 1947; Gobelez 1962).

***Puccinia lecokiae* Kotschy**

*Lecokia cretica* DC. (*Apiaceae*) (Tamer et al. 1987).

***Puccinia leontodontis* Jacky.**

*Leontodon crispus* Vill. (*Asteraceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005)

*Leontodon asperrimus* (Willd.) J. Ball (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Puccinia libani* Magnus**

*Peucedanum pisidicum* Boiss. (*Apiaceae*) (Henderson 1959).

*Prangos* Lindl. (*Apiaceae*) (Bahcecioglu et al. 2006; Henderson 1959).

*Prangos ferulacea* Lindl. (Kabaktepe 2010).

*Prangos pabularia* Lindl. (Bahcecioglu & Gjaerum 2004; Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

***Puccinia libanotidis* Lindr.**

*Prangos* Lindl. (*Apiaceae*) (Henderson 1964).

***Puccinia liliacearum* Duby**

*Ornithogalum* L. (*Hyacinthaceae*) (Bahcecioglu & Yıldız 2005; Henderson 1959; Tamer & Altan 1995).

*Ornithogalum pyrenaicum* L. (Bahçecioglu & Yıldız 1996)

*Tulipa sintenisii* Baker (*Liliaceae*) (Bahçecioglu & Yıldız 1996).

***Puccinia lojkaiana*** Thum.

*Hyacinthella lineata* (Steud.) Chouard (*Hyacinthaceae*) (Henderson 1964).

***Puccinia limosae*** Magnus

*Lysimachia vulgaris* L. (*Primulaceae*) (Demirci et al. 1997).

***Puccinia littoralis*** Rostr.

*Juncus gerardii* Loisel. (*Juncaceae*) (Bremer et al. 1947).

***Puccinia maculosa*** Schwein.

*Cicerbita* Wallr. (*Asteraceae*) (Bahçecioglu et al. 2006).

*Cicerbita bourgaei* Beauverd (Kabaktepe 2010).

*Cicerbita brevirostris* (Sch. Bip. ex Vis. & Pančić) C. Jeffrey (Bahçecioglu et al. 2006).

*Gundelia tournefortii* L. (*Asteraceae*) (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001; Tamer & Altan 1995).

***Puccinia madritensis*** Maire

*Clematis cirrhosa* L. (*Ranunculaceae*) (Gobelez 1962).

***Puccinia magnusiana*** Korn.,

*Phragmites australis* (*Poaceae*) (Cav.) Trin ex Steudel (Kabaktepe 2010).

***Puccinia major*** Dietel

*Crepis paludosa* Moench (*Asteraceae*) (Henderson 1964).

***Puccinia majoricensis*** Maire

*Teucrium chamaedrys* L. (*Lamiaceae*) (Kabaktepe 2010).

*Teucrium polium* L. (Kabaktepe 2010).

***Puccinia malatyensis*** Gjaerum & Bahc.

*Johrenia berytea* Boiss. & Hausskn. ex Boiss. (*Apiaceae*) (Bahçecioglu & Gjaerum 2003).

***Puccinia malvacearum*** Bertero ex Mont.

*Alcea* L. (*Malvaceae*) (Oner et al. 1984).

*Alcea apterocarpa* Boiss. (Bremer et al. 1947).

*Alcea heldreichii* Boiss. (Tamer et al. 1997).

*Alcea hohenackeri* Boiss. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 1996, Bahçecioglu & Yıldız 2001; Bahçecioglu et al. 2006; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).

*Alcea rosea* L. (Bahçecioglu & Isiloglu 1995).



*Alcea setosa* Alef. (Bahcecioglu & Isiloglu 1995 Bahcecioglu & Yıldız 2001).

*Alcea striata* Alef. (Bahcecioglu et al. 2006).

*Althaea* L. (*Malvaceae*) (Bremer et al. 1947; Karaboz & Oner 1982).

*Althaea rosea* Cav. (Bremer et al. 1947; Karel 1958; Gobelez 1962; Kavak 2006).

*Lavatera punctata* All. (*Malvaceae*) (Karaboz & Oner 1982).

*Malva* L. (*Malvaceae*) (Güven & Tamer 1993).

*Malva neglecta* Wallr. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Malva sylvestris* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Ekici et al. 2010; Gobelez 1962; Karaboz & Oner 1982; Oner & Ekmekci 1974; Tamer & Oner 1978a; Ucar & Oner 1977).

***Puccinia mariana*** Sacc.

*Silybum marianum* (L.) Gaertn. (*Asteraceae*) (Tamer & Oner 1978a).

***Puccinia martianoffiana*** Thum.

*Paeonia mascula* (L.) Mill. (*Paeoniaceae*) (Henderson 1957).

***Puccinia menthae*** Pers.

*Calamintha* Mill. (*Lamiaceae*) (Henderson 1961, 1964).

*Clinopodium vulgare* L. subsp. *arundanum* (Boiss.) Nyman (*Lamiaceae*) (Bahcecioglu & Gjaerum 2003; Bahcecioglu et al. 2006 Erdogdu et al. 2010).

*Mentha* L. (*Lamiaceae*) (Bahcecioglu & Isiloglu 1995; Demirci et al. 1997; Güven & Tamer 1993; Oner & Ekmekci 1974; Oner et al. 1984; Tamer & Altan 1995).

*Mentha longifolia* Huds. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006).

*Mentha pulegium* L. (Erdogdu et al. 2010; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Tamer & Oner 1978a).

*Mentha spicata* L. (Bahcecioglu & Yıldız 1996, Bahcecioglu & Yıldız 2001, 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Micromeria fruticosa* (L.) Druce (*Lamiaceae*) (Henderson 1961; Tamer et al. 1997).

*Origanum vulgare* L. (*Lamiaceae*) (Bahcecioglu et al. 2006; Henderson 1964; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Pekel & Azaz 2003; Tamer et al. 1990a).

*Satureja* L. (*Lamiaceae*) (Henderson 1957).

*Satureja macrantha* C. A. Mey. (Tamer et al. 1989).

***Puccinia mertensiae*** Peck

*Omphalodes* Mill. (*Boraginaceae*) (Henderson 1959).

***Puccinia mesnieriana*** Thum.

*Rhamnus oleoides* L. (*Rhamnaceae*) (Henderson 1959).

***Puccinia minutissima*** Arthur

*Lythrum salicaria* L. (*Lythraceae*) (Oner et al. 1974).

***Puccinia montana*** Fuckel

*Centaurea axillaris* Willd. (*Asteraceae*) (Henderson 1964).

*Centaurea carduiiformis* DC. (Bahcecioglu & Yıldız 2005).

*Centaurea kotschy* (Boiss. & Heldr.) Hayek (Bahcecioglu & Yıldız 2005).

*Centaurea mucronifera* DC. (Bahcecioglu & Yıldız 2005).

*Centaurea rhizantha* C. A. Mey. (Bahcecioglu & Yıldız 2005).

***Puccinia mulgedii*** (Westend.) P.Syd. & Syd.

*Cicerbita mulgedioides* (*Asteraceae*) (Sch. Bip. ex Vis. & Panc.) Beauvred (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Puccinia nevodovskii*** Gamalitzk.

*Galium floribundum* Sibth. & Sm. (*Rubiaceae*) (Ekici et al. 2010).

***Puccinia nigrescens*** Kirchn.

*Salvia* L. (*Lamiaceae*) (Erdogdu et al. 2010; Kabaktepe & Bahcecioglu 2006).

*Salvia amasiana* Freyn & Bornm. (Henderson 1964).

*Salvia multicaulis* Vahl (Bahcecioglu & Yıldız 2005).

*Salvia verticillata* L. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Puccinia nishidana*** Henn.

*Cirsium lappaceum* (M. Bieb.) Fischer (*Asteraceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

***Puccinia nitida*** Barclay

*Aethusa cynapium* L. (*Apiaceae*) (Demirci et al. 1997 as *Puccinia aethusae* H. Mart.).

***Puccinia notobasidis*** Politis

*Notobasis syriaca* Cass. (*Asteraceae*) (Henderson 1957).

***Puccinia obscura*** J. Schröt.

*Luzula* DC. (*Juncaceae*) (Henderson 1964).

*Luzula campestris* (L.) DC. (Tamer et al. 1989).

***Puccinia onosmatis*** Gjaerum & Bahc.

*Onosma sericea* Willd. (*Boraginaceae*) (Bahcecioglu & Gjaerum 2003).

***Puccinia onosmaticola*** Gjaerum & Bahc.

*Onosma molle* DC. (*Boraginaceae*) (Bahcecioglu & Gjaerum 2004).

***Puccinia opopanacis* Ces.**

*Opopanax orientalis* Boiss. (*Apiaceae*) (Henderson 1964).

*Silaus carvifolius* C. A. Mey. (*Apiaceae*) (Henderson 1964).

***Puccinia pachyderma* Wettst.**

*Gagea granatelli* Boiss. (*Liliaceae*) (Bahcecioglu & Yıldız 1996, Bahcecioglu 1998).

***Puccinia pachyphloea* P. Syd. & Syd.**

*Rumex acetosella* L. (*Polygonaceae*) (Henderson 1957).

***Puccinia pedunculata* J. Schröt.**

*Rumex scutatus* L. (*Polygonaceae*) (Kabaktepe 2010).

***Puccinia persica* Wettst.**

*Centaurea aggregata* Fisch. & Mey. (*Asteraceae*) (Bremer et al. 1952; Gobelez 1962; Tamer et al. 1992).

***Puccinia phaeopappi* Maire**

*Staelhelia lobelii* DC. (*Asteraceae*) (Henderson 1959).

***Puccinia phlomidis* Thum**

*Phlomis* L. (*Lamiaceae*) (Tamer & Altan 1995).

*Phlomis armeniaca* Willd. (Bremer et al. 1947, 1952 Gobelez 1962).

*Phlomis kurdica* Rech. f. (Tamer et al. 1987).

*Phlomis pungens* Willd. (Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Phlomis russeliana* Lag. ex Benth. (Kabaktepe 2010).

***Puccinia phragmitis* (Schumach.) Korn.**

*Arundo donax* L. (*Poaceae*) (Oner et al. 1984; Tamer & Oner 1978a; Ucar & Oner 1977).

*Rumex* L. (*Polygonaceae*) (Bremer et al. 1952; Gobelez 1962).

*Phragmites* L. (*Poaceae*) (Demirci et al. 1997; Oner & Ekmekci 1974).

*Phragmites australis* Cav. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001, 2005; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Phragmites communis* Trin. (Gobelez 1962).

***Puccinia phrynae* Huseyin & Kirbag**

*Phryna ortegioides* (Fisch. & Mey.) Pax & K.Hoffm. (*Caryophyllaceae*) (Kirbag & Huseyin 2003).

***Puccinia physospermi* Pass.**

*Cnidium orientale* Boiss. (*Apiaceae*) (Henderson 1961).

***Puccinia pimpinellae* (F.Strauss) Link**

*Pimpinella* L. (*Apiaceae*) (Bremer et al. 1947; Gobelez 1962; Henderson 1959; Tamer & Altan 1995).

*Pimpinella anthriscoides* Boiss. (Kabaktepe 2010).

*Pimpinella aurea* DC. (Bahcecioglu & Yıldız 2005).

*Pimpinella corymbosa* Boiss. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006).

*Pimpinella cretica* Vis. (Bremer et al. 1947).

*Pimpinella kotschyana* Boiss. (Bahcecioglu et al. 2006; Tamer et al. 1990a, 1990b).

*Pimpinella olivierioides* Boiss. & Hausskn. (Bahcecioglu & Yıldız 2005; Tamer et al. 1990b).

*Pimpinella rhodantha* Boiss. (Kabaktepe & Bahcecioglu 2006).

*Pimpinella tragium* Vill. subsp. *lythophyta* (Schisck.) Tutin (Bahcecioglu & Yıldız 2005; Bremer et al. 1952).

*Tordylium apulum* L. (*Apiaceae*) (Karaboz & Oner 1982).

***Puccinia platypoda*** Syd. & P. Syd.

*Atraphaxis billardierei* Jaub. & Spach (*Polygonaceae*) (Henderson 1959; Kabaktepe 2010).

***Puccinia plicata*** Kom.

*Prangos* Lindl. (*Apiaceae*) (Henderson 1964).

*Prangos denticulata* Fisch. & Mey. (Bremer et al. 1947; Gobelez 1962).

*Prangos pabularia* Lindl. (Bahcecioglu & Yıldız 1996).

***Puccinia poarum*** E. Nielsen

*Phleum pratense* L. (*Poaceae*) (Gobelez 1962).

*Poa* L. (*Poaceae*) (Henderson 1964).

*Poa annua* L. (Ekici et al. 2010).

*Poa bulbosa* L. (Oner et al. 1974).

*Poa nemoralis* L. (Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Tussilago farfara* L. (*Asteraceae*) (Bahcecioglu & Gjaerum 2003; Bremer et al. 1952; Ekici et al. 2010; Gobelez 1962; Pekel & Azaz 2003).

***Puccinia podospermi*** DC.

*Scorzonera cinerea* Boiss. (*Asteraceae*) (Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

***Puccinia polygoni-amphibii*** var. *convolvuli* Arthur

*Polygonum* L. (*Polygonaceae*) (Bremer et al. 1947; Gobelez 1962; Karaboz & Oner 1982).

*Polygonum alpinum* All. (Tamer et al. 1989).

*Polygonum arenarium* Waldst. & Kit. (Tamer et al. 1992).

*Polygonum arenastrum* Bor. (Oner et al. 1984).

*Polygonum convolvuli* L. (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Polygonum lapathifolium* L. (Bahcecioglu & Yıldız 2005 as *Puccinia polygoni* Alb. & Schwein.).

***Puccinia prenanthis-purpureae*** (DC.) Lindr.

*Lactuca* L. (*Asteraceae*) (Henderson 1964).

***Puccinia prostii*** Duby

*Tulipa armena* Boiss. (*Liliaceae*) (Tamer et al. 1990a).

*Tulipa hayatii* O.Schwarz (Karaboz & Oner 1982).

***Puccinia pulverulenta*** Grev.

*Epilobium* L. (*Onagraceae*) (Bahcecioglu et al. 2006).

*Epilobium hirsutum* L. (Erdogdu et al. 2010; Gobelez 1962 as *Puccinia epilobii-tetragoni* G. Winter; Kabaktepe 2010).

*Epilobium minutiflorum* Hausskn. (Tamer et al. 1992 as *P. epilobii-tetragoni*).

*Epilobium montanum* Boiss. (Kabaktepe 2010).

*Epilobium parviflorum* Schreb. (Kabaktepe 2010).

*Epilobium tetragonum* L. (Tamer et al. 1990a as *P. epilobii-tetragoni*).

***Puccinia pulvinata*** Rabenh.

*Echinops* L. (*Asteraceae*) (Bahcecioglu & Gjaerum 2004; Bremer et al. 1952; Gobelez 1962).

*Echinops ritro* L. (Bahcecioglu & Gjaerum 2004).

***Puccinia punctata*** Link

*Galium* L. (*Rubiaceae*) (Erdogdu et al. 2010; Henderson 1959; Tamer et al. 1997).

*Galium aparine* L. (Tamer & Oner 1978a, 1978b).

*Galium humifusum* M. Bieb. (Bahcecioglu & Yıldız 2005).

*Galium margaceum* Ehrend. & Schonb.Tem. (Bahcecioglu & Yıldız 2005).

*Galium psilophyllum* Ehrend. & Schonb.Tem. (Bahcecioglu & Yıldız 2005).

*Galium verum* L. (Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Galium verum* L. subsp. *glabrescens* Ehrend. (Bahcecioglu & Yıldız 2005).

***Puccinia punctiformis*** (F. Strauss) Rohl.

*Cirsium arvense* (L.) Scop. (*Asteraceae*) (Demirci et al. 1997; Gobelez 1962 as *Puccinia suaveolens* (Pers.) Rostr.; Henderson 1964).

*Cirsium simplex* C. A. Mey. (Demirci et al. 1997).

*Cirsium vulgare* (Savi) Ten. (Kabaktepe & Bahçecioglu 2006).

***Puccinia purpurea*** Cooke

*Andropogon halepensis* (L.) Brot. (*Poaceae*) (Bremer et al. 1952; Gobelez 1962).

***Puccinia pygmaea*** Erikss.

*Calamagrostis littorea* DC. (*Poaceae*) (Henderson 1964).

***Puccinia ranunculi*** A. Blytt

*Ranunculus repens* L. (*Ranunculaceae*) (Tamer et al. 1989).

***Puccinia recondita*** Dietel & Holw.

*Aconitum nasutum* Rchb. (*Ranunculaceae*) (Kabaktepe 2010).

*Agropyron repens* (L.) P.Beauv. (*Poaceae*) (Bremer et al. 1947 as *Puccinia persistens* Plowr.)

*Agrostis stolonifera* L. (*Poaceae*) (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Anchusa* L. (*Boraginaceae*) Trabzon (Bremer et al. 1947; Demirci et al. 1997; Gobelez 1962 as *Puccinia dispersa* Erikss. & Henning).

*Anchusa leptophylla* Roemer & Schultes (Kabaktepe 2010).

*Bromus* L. (*Poaceae*) (Demirci et al. 1997).

*Bromus japonicus* Thunb. (Kabaktepe 2010).

*Bromus lanceolatus* Roth. (Kabaktepe 2010; Tamer et al. 1990b).

*Bromus sterilis* L. (Tamer et al. 1987).

*Bromus tectorum* L. (Bremer et al. 1947 as *Puccinia symphyti-bromorum* Fr. Mull.).

*Cerintho minor* L. (*Boraginaceae*) (Bahçecioglu & Gjaerum 2004; Kabaktepe 2010).

*Clematis cirrhosa* L. (*Ranunculaceae*) (Gobelez 1962 as *Puccinia agropyri* Ellis & Everh.)

*Echium* L. (*Boraginaceae*) (Oner et al. 1984).

*Echium plantagineum* L. (*Poaceae*) (Karaboz & Oner 1982).

*Elymus elongatus* (Host) Runemark subsp. *turcicus* (McGuire) Melderis (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Elymus lazicus* (Boiss.) Melderis subsp. *lazicus* (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Elymus longearistatus* (Boiss.) Tzvelev (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Elymus nodosus* (Nevski) Melderis subsp. *gypsicolus* Melderis (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Elymus repens* (L.) Gould subsp. *repens* (Bahçecioglu & Yıldız 2005 as *P. persistens*).

*Leontodon crispus* Vill. (*Asteraceae*) (Pekel & Azaz 2003 as *Puccinia dispersa* Erikss. & Henning).

*Lolium rigidum* Gaudin (*Poaceae*) (Kabaktepe 2010).

*Myosotis lithospermifolia* Hornem. (*Boraginaceae*) (Bahcecioglu & Gjaerum 2004).

*Ranunculus caucasicus* M. Bieb. (*Ranunculaceae*) (Kabaktepe 2010).

*Secale cereale* L. (*Poaceae*) (Bremer et al. 1947; Karel 1958 as *P. dispersa*).

*Symphytum asperum* Lepechin (*Boraginaceae*) (Kabaktepe 2010).

*Thalictrum minus* L. (*Ranunculaceae*) (Kabaktepe 2010).

*Triticum* L. (*Poaceae*) (Akan et al. 2006).

*Triticum sativum* Lam. (Bremer et al. 1947; Karel 1958 as *Puccinia triticina* Erikss.).

***Puccinia rhagadioli*** (Pass.) Syd.

*Rhagadiolus hedynois* All. (*Asteraceae*) (Henderson 1959, 1964).

***Puccinia romagnoliana*** Maire & Sacc.

*Cyperus* L. (*Cyperaceae*) (Bremer et al. 1952; Gobelez 1962).

***Puccinia rubiae-tataricae*** Syd. & P.Syd.

*Rubia tinctoria* Salisb. (*Rubiaceae*) (Bahcecioglu et al. 2006; Ekici et al. 2010).

***Puccinia salviae*** Unger

*Salvia* L. (*Lamiaceae*) (Demirci et al. 1997; Guven & Tamer 1993; Tamer & Altan 1995).

***Puccinia salihae*** Kirbag & Aime

*Thymelaea aucheri* Meisn. (*Thymelaeaceae*) (Kirbag et al. 2011).

***Puccinia saxifragae*** Schldtl.

*Saxifraga* L. (*Saxifragaceae*) (Henderson 1964).

*Saxifraga sibirica* L. (Bremer et al. 1952; Henderson 1959 as *Puccinia heucherae* var. *saxifragae* (Schldtl.) Savile; Gobelez 1962).

***Puccinia schemahensis*** Uljan.

*Blysmus compressus* (L.) Panzer (*Cyperaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Puccinia schirajewskii*** Tranzschel

*Serratula cerinthifolia* (Sibth. & Sm.) Boiss. (*Asteraceae*) (Henderson 1964).

***Puccinia scorzonerae*** (Schumach.) Jacky

*Scorzonera* L. (*Asteraceae*) (Bahcecioglu & Isiloglu 1995;\_Henderson 1959; Tamer et al. 1997).

*Scorzonera cana* (C. A. Mey.) Hoffm. (Guven & Tamer 1993).

*Scorzonera cinerea* Boiss. (Bahçecioglu & Yıldız 1996).

*Scorzonera eriophora* DC. (Bahçecioglu & Yıldız 2005; Kabaktepe 2010).

*Scorzonera mollis* M. Bieb. subsp. *mollis* (Bahçecioglu & Yıldız 2005).

*Scorzonera tomentosa* L. (Bahçecioglu & Isiloglu 1995; Bahçecioglu & Yıldız 1996; Bahçecioglu et al. 2006).

***Puccinia serratulae*** Thum.

*Serratula cerinthifolia* (*Asteraceae*) (Sibth. & Sm.) Boiss. (Tamer et al. 1987, 1990a, 1992).

***Puccinia sessilis*** J. Schröt.

*Phalaris arundinacea* L. (*Poaceae*) (Henderson 1961).

***Puccinia sherardiana*** Korn.

*Malvella sherardiana* Jaub. & Spach (*Malvaceae*) (Bremer et al. 1952; Gobelez 1962).

***Puccinia serpylli*** Lindr.

*Thymus fallax* Fisch. & Mey. (*Lamiaceae*) (Bahçecioglu & Gjaerum 2004).

*Thymus fedtschenkoi* Ronniger (Bahçecioglu & Gjaerum 2004).

*Thymus kotschyanus* Boiss. & Hohen. (Bahçecioglu & Gjaerum 2004; Bahçecioglu et al. 2006; Henderson 1959).

*Thymus transcaucasicus* Ronniger (Kabaktepe 2010).

***Puccinia smilacis*** Schwein.

*Smilax excelsa* L. (*Smilacaceae*) (Huseyin & Karahan 2005; Kabaktepe & Bahçecioglu 2005, 2006).

***Puccinia smyrnii*** Biv.

*Smyrniium cordifolium* Boiss. (*Apiaceae*) (Bahçecioglu & Yıldız 1996).

*Smyrniium rotundifolium* Mill. (Oner et al. 1974).

***Puccinia sorghi*** Schwein.

*Zea mays* L. (*Poaceae*) (Bahçecioglu & Isiloglu 1995; Bahçecioglu et al. 2006; Karel 1958; Kabaktepe & Bahçecioglu 2006).

***Puccinia stachydis*** DC.

*Stachys annua* L. (*Lamiaceae*) (Kabaktepe 2010).

***Puccinia stapfiana*** Petr.

*Phlomis armeniaca* Willd. (*Lamiaceae*) (Henderson 1957).

***Puccinia stipae*** (Opiz) Arthur var. *stipae*

*Salvia cadmica* Boiss. (*Lamiaceae*) (Bahçecioglu & Yıldız 2005).



*Salvia cryptantha* Montbret & Aucher ex Bent. (Bahcecioglu & Yıldız 2005).

*Salvia euphratica* Montbret & Aucher ex Bent. (Bahcecioglu & Yıldız 2005).

*Salvia multicaulis* Vahl (Bahcecioglu & Yıldız 2005).

*Stipa holosericea* Trin. (*Poaceae*) (Güven & Tamer 1993).

*Stipa pontica* P. Smirnow (Kabaktepe 2010).

***Puccinia stipae* var. *stipina*** (Tranzschel) H.C. Greene & Cummins

*Thymus kotschyanus* Boiss. & Hohen. (*Lamiaceae*) (Bahcecioglu & Gjaerum 2004).

***Puccinia stipina*** Tranzschel

*Salvia cryptantha* Montbret & Aucher ex Benth. (*Lamiaceae*) (Bahcecioglu et al. 2006).

*Salvia multicaulis* Vahl (Bahcecioglu et al. 2006).

*Salvia rosifolia* Sm. (Kabaktepe 2010).

*Salvia viridis* L. (Bahcecioglu et al. 2006).

*Stipagrostis plumosa* Munro ex T.Anderson (*Poaceae*) (Tamer et al. 1990b).

*Thymus fallax* Fisch. & Mey. (*Lamiaceae*) (Bahcecioglu et al. 2006).

***Puccinia striiformis*** Westend

*Aegilops* L. (*Poaceae*) (Henderson 1964).

*Aegilops triuncialis* L. (Karaboz & Oner 1982; Ucar & Oner 1977).

*Aegilops umbellulata* Zhuk. (Karaboz & Oner 1982).

*Bromus armenus* Boiss. (*Poaceae*) (Tamer & Oner 1978a).

*Bromus sterilis* L. (Kabaktepe 2010).

*Dactylis glomerata* L. (*Poaceae*) (Bahcecioglu & Yıldız 2005).

*Elymus hispidus* (Opizi) Melderis (*Poaceae*) (Ekici et al. 2010; Kabaktepe 2010).

*Elymus repens* (L.) Gould (Kabaktepe 2010).

*Hordeum* L. (*Poaceae*) (Bahcecioglu et al. 2006; Güven & Tamer 1993).

*Hordeum murinum* L. (Karaboz & Oner 1982).

*Inula* L. (*Asteraceae*) (Oner et al. 1984).

*Inula viscosa* (L.) Aiton (Ucar & Oner 1977).

*Lolium perenne* L. (*Poaceae*) (Kabaktepe 2010).

*Phleum pratense* L. (*Poaceae*) (Kabaktepe 2010).

*Taeniatherum crinitum* (Schreb.) Nevski (*Poaceae*) (Henderson 1964; Karaboz & Oner 1982).

*Tragopogon longirostris* Bischoff ex Sch. Bip. (*Asteraceae*) (Tamer et al. 1990b).

*Triticum* L. (*Poaceae*) (*Poaceae*) (Akan et al. 2006).

*Triticum carthlicum* Nevski (Parlak & Gücin 1993).

***Puccinia syriaca*** P. Syd. & Syd.

*Crucianella* L. (*Rubiaceae*) (Henderson 1961).

***Puccinia tanacetii*** DC.

*Artemisia absinthium* L. (*Asteraceae*) (Demirci et al. 1997 Kabaktepe 2010).

*Artemisia campestris* L. (Bahcecioglu et al. 2006).

*Artemisia marschalliana* Spreng. (Kabaktepe 2010).

*Artemisia vulgaris* L. (Bahcecioglu et al. 2006; Kabaktepe 2010).

*Tanacetum* L. (*Asteraceae*) (Henderson 1959, 1964; Tamer et al. 1997).

*Tanacetum argenteum* Willd. (Bahcecioglu & Isiloglu 1995; Bahcecioglu & Yıldız 2005).

*Tanacetum cilicicum* (Boiss.) Grierson (Bahcecioglu et al. 2006).

*Tanacetum densum* (Labill.) Heywood (Bahcecioglu & Yıldız 1996; Bahcecioglu & Yıldız 2005; Bahcecioglu et al. 2006).

*Tanacetum nitens* (Boiss. & Noë) Grierson (Bahcecioglu & Yıldız 1996).

*Tanacetum vulgare* L. (Bahcecioglu & Yıldız 2005).

***Puccinia tendae*** Gäum.

*Thymus fedtschenkoi* Ronniger (*Lamiaceae*) (Kabaktepe 2010).

***Puccinia tepperi*** F. Ludw.

*Phragmites australis* Cav. (*Poaceae*) (Bahcecioglu & Gjaerum 2004; Bahcecioglu et al. 2006).

***Puccinia thesii*** (Desv.) Chaillet

*Thesium arvense* Horvdtovszky (*Santalaceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Thesium compressum* Boiss. & Heldr. (Bahcecioglu & Yıldız 1996).

*Thesium macranthum* Fenzl (Henderson 1959).

*Thesium procumbens* C. A. Mey. (Bahcecioglu & Yıldız 2005).

*Thesium stelleroides* Jaub. & Spach (Bahcecioglu & Yıldız 2005).

*Thesium tauricum* Boiss. & Hausskn. (Bahcecioglu & Yıldız 2005).

***Puccinia thlaspeos*** C.Schub.

*Thlaspi violascens* Schott & Kotschy ex Unger & Kotschy (*Brassicaceae*) (Bahcecioglu et al. 2006).

***Puccinia trabutii*** Roum.

*Lepidium* L. (*Brassicaceae*) (Henderson 1964).

*Phragmites communis* Trin. (*Poaceae*) (Bremer et al. 1952; Gobelez 1962).

*Sisymbrium altissimum* L. (*Brassicaceae*) (Tamer et al. 1987).

*Sisymbrium officinale* (L.) Scop. (Tamer et al. 1987).

***Puccinia umbilicicola*** Gjaerum & Bahc.

*Umbilicus erectus* DC. (*Crassulaceae*) (Bahcecioglu & Gjaerum 2003).

***Puccinia uralensis*** Tranzschel

*Senecio vernalis* Waldst. & Kit (*Asteraceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Puccinia variabilis*** Grev.

*Taraxacum* F. H. Wigg. (*Asteraceae*) (Kabaktepe 2010).

***Puccinia violae*** (Schumach.) DC.

*Viola* L. (*Violaceae*) (Henderson 1964).

*Viola canica* L. (Tamer et al. 1987).

*Viola kitaibeliana* Roem. & Schult. (Bremer et al. 1952; Gobelez 1962; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Viola odorata* L. (Bahcecioglu et al. 2006).

*Viola sieheana* W. Becker (Bahcecioglu & Yıldız 1996).

***Puccinia vincae*** (DC.) Plowr.

*Vinca* L. (*Apocynaceae*) (Henderson 1961, 1964).

*Vinca major* L. (Bremer et al. 1952; Karel 1958; Gobelez 1962).

***Puccinia vossii*** Korn. ex G. Winter

*Stachys setifera* subsp. *lycia* (Gand.) R. Bhattacharjee (*Lamiaceae*) (Tamer et al. 1987).

***Puccinia wolgensis*** Navashin

*Stipa szowitsiana* Trin. ex Hohen. (*Poaceae*) (Henderson 1957).

***Puccinia xanthii*** Schwein.

*Xanthium spinosum* L. (*Asteraceae*) (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006).

*Xanthium strumarium* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006; Gobelez 1962; Kabaktepe 2010; Oner & Ekmekci 1974; Oner et al. 1984; Ucar & Oner 1977).

***Puccinia yildizii*** Gjaerum & Bahc.

*Echinophora tenuifolia* L. (*Apiaceae*) (Bahcecioglu & Gjaerum 2003).

***Puccinia ziziphorae*** P. Syd. & Syd.

*Ziziphora clinopodioides* Lam. (*Lamiaceae*) (Bahcecioglu & Yıldız 1996, 2005; Henderson 1959, 1961; Kabaktepe 2010; Tamer et al. 1987).

***Uromyces acantholimonis*** Syd. & P. Syd.

*Acantholimon* Boiss. (*Plumbaginaceae*) (Bremer et al. 1947; Gobelez 1962; Tamer et al. 1997).

*Acantholimon caryophyllaceum* Boiss. (Bahcecioglu & Yıldız 1996; Kabaktepe 2010).

***Uromyces acetosae*** J. Schröt.

*Rumex acetosae* L. (*Polygonaceae*) (Tamer et al. 1997).

*Rumex acetoselloides* Bal. (Bremer et al. 1947; Gobelez 1962).

***Uromyces aeluropodis-repentis*** Natrass

*Aeluropus littoralis* (Gouan) Parl. (*Poaceae*) (Bahçecioğlu 2001; Bahçecioğlu & Yıldız 2005).

***Uromyces alopecuri*** Seym.

*Alopecurus arundinaceus* Poir. (*Poaceae*) (Tamer et al. 1987).

***Uromyces alsinis*** Tranzschel

*Minuartia* L. (*Caryophyllaceae*) (Bahçecioğlu et al. 2006).

*Minuartia meyeri* Bornm. (Bahçecioğlu 2001).

*Minuartia hamata* Mattf. (Bahçecioğlu 2001).

***Uromyces anagyridis*** (Rabenh.) Roum.

*Anagyris foetida* L. (*Fabaceae*) (Bremer et al. 1952; Gobelez 1962; Henderson 1964; Oner & Ekmekci 1974; Oner et al. 1974; Tamer & Oner 1978a).

***Uromyces anthyllidis*** (Grev.) J. Schröt.

*Anthyllis vulneraria* L. (*Fabaceae*) (Bahçecioğlu & Yıldız 2005).

*Dorycnium graecum* Ser. (*Fabaceae*) (Bahçecioğlu & Yıldız 2005; Bahçecioğlu et al. 2006).

*Dorycnium pentaphyllum* Scop. (Bahçecioğlu et al. 2006).

*Hippocrepis unisiliquosa* L. (*Fabaceae*) (Karaboz & Oner 1982).

*Lotus corniculatus* L. (*Fabaceae*) (Bahçecioğlu & Yıldız 2005; Bahçecioğlu et al. 2006; Kabaktepe 2010).

***Uromyces appendiculatus*** (Pers.) Unger

*Phaseolus vulgaris* L. (*Fabaceae*) (Bahçecioğlu et al. 2006; Kabaktepe & Bahçecioğlu 2006; Kabaktepe 2010; Karel 1958).

***Uromyces arenariae*** Tranzschel

*Arenaria gypsophiloides* L. (*Caryophyllaceae*) (Tamer et al. 1987; Tamer et al. 1990b).

***Uromyces arenariae-grandiflorae*** Mayor

*Arenaria saponarioides* Boiss. & Ball. (*Caryophyllaceae*) (Sert 2009).

***Uromyces arenariae-leptocladi*** Vienn.-Bourg.

*Arenaria leptoclados* (Rchb.) Guss. (*Caryophyllaceae*) (Sert 2009).

***Uromyces astragali*** Jordi

*Astragalus* L. (*Fabaceae*) (Tamer et al. 1997).

***Uromyces baumlerianus*** Bubák

*Melilotus neapolitanus* Ten. ex Guss. (*Fabaceae*) (Kabaktepe & Bahcecioglu 2005, 2006).

*Melilotus officinalis* (L.) Lam. (Kabaktepe & Bahcecioglu 2006).

***Uromyces behenis*** (DC.) Unger

*Silene* L. (*Caryophyllaceae*) (Bahcecioglu et al. 2006; Gobelez 1962).

*Silene alba* Muhl. ex Rohrb. (Kabaktepe 2010).

*Silene italica* (L.) Pers (Bahcecioglu & Yıldız 2005).

*Silene marschallii* C. A. Mey. (Henderson 1964; Tamer et al. 1989).

*Silene vulgaris* (Moench) Garcke (Bahcecioglu & Yıldız 2005; Kabaktepe & Bahcecioglu 2006).

***Uromyces beticola*** (Belynyck) Boerema, Loer. & Hamers

*Beta vulgaris* L. (*Chenopodiaceae*) (Bremer et al. 1947, 1952; Gobelez 1962 as *Uromyces betae* (Pers.) J.G. Kuhn; Kabaktepe 2010).

***Uromyces caricis-sempervirentis*** E. Fisch.

*Carex stenophylla* Wahlenb. (*Cyperaceae*) (Tamer et al. 1987).

***Uromyces chenopodii*** (Duby) J. Schröt.

*Suaeda maritima* (L.) Dumort. (*Chenopodiaceae*) (Oner et al. 1974).

***Uromyces ciceris-arietini*** (Grognot) Jacz. & Boyd

*Cicer arietinum* L. (*Fabaceae*) Hatay, (Bahcecioglu et al. 2006; Gobelez 1962; Kabaktepe & Bahcecioglu 2006).

***Uromyces colchici*** Massee

*Colchicum speciosum* Steven (*Colchicaceae*) (Kabaktepe 2010).

***Uromyces cytisi*** J. Schröt.

*Genista aucheri* Boiss. (*Fabaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Uromyces dactylidis*** G.H. Otth

*Dactylis glomerata* L. (*Poaceae*) (Kabaktepe 2010).

*Ficaria grandiflora* Robert (*Ranunculaceae*) (Bremer et al. 1952; Gobelez 1962 as *Uromyces poae* Rabenh.).

*Poa bulbosa* L. (*Poaceae*) (Henderson 1964).

*Ranunculus oxyspermus* Willd. (*Ranunculaceae*) (Henderson 1964).

***Uromyces dianthi*** (Pers.) Niessl

*Bufonia tenuifolia* L. (*Caryophyllaceae*) (Tamer et al. 1990b).

*Bufonia virgata* Boiss. (Bahcecioglu & Gjaerum 2003).

*Dianthus* L. (*Caryophyllaceae*) (Güven & Tamer 1993 as *Uromyces caryophyllinus* (Schränk) J. Schröt.).

*Dianthus barbatus* L. (Bremer et al. 1952; Karel 1958 as *U. caryophyllinus*).

*Dianthus calocephalus* Boiss. (Erdogdu et al. 2010; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Dianthus floribundus* Boiss. (Bahcecioglu & Yıldız 1996; Bahcecioglu & Yıldız 2005).

*Dianthus masmenaeus* Boiss. (Tamer et al. 1990b).

*Dianthus orientalis* Adams (Bahcecioglu & Yıldız 2005; Tamer et al. 1987 as *U. caryophyllinus*).

*Dianthus strictus* Banks & Sol. (Bahcecioglu & Yıldız 2005; Tamer et al. 1987 as *Uromyces caryophyllinus*).

*Dianthus zonatus* Fenzl (Kabaktepe 2010).

*Gypsophila pilosa* Hud. (*Caryophyllaceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001).

*Petrorhagia alpina* (Habl.) P.W.Ball & Heywood (*Caryophyllaceae*) (Bahcecioglu & Gjaerum 2003).

***Uromyces dorystoechadis*** Gjaerum & Bahc.

*Dorystoechas hastata* Boiss. & Heldr. ex Benth. (*Lamiaceae*) (Bahcecioglu & Gjaerum 2004).

***Uromyces eurotiae*** Tranzschel

*Krascheninnikovia ceratoides* (L.) Gueldenst. (*Chenopodiaceae*) (Bahcecioglu & Gjaerum 2003).

***Uromyces ficariae*** (Schumach.) Lév.

*Ficaria* Hall. (*Ranunculaceae*) (Oner et al. 1974).

***Uromyces fischeri-eduardi*** Magnus

*Vicia cracca* L. (*Fabaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Vicia freyniana* Bornm. (Kabaktepe & Bahcecioglu 2006).

*Vicia villosa* Roth (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Uromyces gageae*** Beck

*Gagea granatelli* Parl. (*Liliaceae*) (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996).

***Uromyces galegae*** (Opiz) Sacc.

*Galega officinalis* L. (*Fabaceae*) (Tunali et al. 2006).

***Uromyces galegicola*** Woron.

*Galega officinalis* L. (*Fabaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Uromyces genistae*** Fuckel

*Genista tinctoria* L. (*Fabaceae*) (Kabaktepe 2010).

***Uromyces geranii*** Speg.

*Erodium* L'Hér. (*Geraniaceae*) (Güven & Tamer 1993).

*Geranium* L. (*Geraniaceae*) (Bahcecioglu et al. 2006; Güven & Tamer 1993; Oner et al. 1984; Tamer & Altan 1995).

*Geranium cinereum* Cav. (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

*Geranium pyrenaicum* Burm. (Bahcecioglu & Yıldız 1996; Bahcecioglu & Yıldız 2005)

*Geranium rotundifolium* L. (Bahcecioglu & Isiloglu 1995; Kabaktepe 2010).

***Uromyces glycyrrhizae*** (Rabenh.) Magnus

*Glycyrrhiza* L. (*Fabaceae*) (Bahcecioglu et al. 2006; Oner et al. 1984).

*Glycyrrhiza echinata* L. (Bahcecioglu & Yıldız 2005; Kabaktepe 2010).

*Glycyrrhiza glabra* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Demirci et al. 1997; Kabaktepe 2010; Oner & Ekmekci 1974; Tamer et al. 1987).

***Uromyces gypsophilae*** Cooke

*Gypsophila* L. (*Caryophyllaceae*) (Tamer et al. 1997).

*Gypsophila hispida* Boiss. (Kabaktepe & Bahcecioglu 2006).

*Gypsophila pallida* Stapf (Bahcecioglu & Yıldız 1996).

*Gypsophila perfoliata* L. (Bahcecioglu & Yıldız 2005).

*Saponaria* L. (*Caryophyllaceae*) (Henderson 1964).

*Vaccaria pyramidata* Medik. (*Caryophyllaceae*) (Bahcecioglu & Yıldız 1996, 2005; Gobelez 1962).

***Uromyces hedysari-obscuri*** (DC.) Carestina & Picc.

*Hedysarum* L. (*Fabaceae*) (Bahcecioglu 2001)

*Hedysarum pestalozzae* Boiss. (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

*Hedysarum varium* Willd. (Bahcecioglu & Yıldız 2005).

***Uromyces helichrysi*** Lagerh.

*Helichrysum plicatum* DC. (*Asteraceae*) (Bahcecioglu et al. 2006).

***Uromyces heliotropii*** Sred.

*Heliotropium* L. (*Boraginaceae*) (Henderson 1964; Tamer et al. 1997).

*Heliotropium eichwaldi* Steud. (Bremer et al. 1952; Gobelez 1962).

*Heliotropium ellipticum* Gurke in Engl. & Prantl (Kabaktepe 2010).

*Heliotropium europaeum* L. (Bremer et al. 1947, 1952).

***Uromyces hymenocarpi*** Jaap

*Hymenocarpus circinnatus* (L.) Savi (*Fabaceae*) (Bahcecioglu et al. 2006; Karaboz & Oner 1982; Tamer & Oner 1978a, 1978b).

***Uromyces inaequialtus*** Lasch

*Silene laxa* Boiss. & Kotschy (*Caryophyllaceae*) (Tamer et al. 1997).

***Uromyces iranensis*** Vienn.-Bourg.

*Hordeum bulbosum* L. (*Poaceae*) (Oran 1972).

***Uromyces klebahnii*** E. Fisch.

*Astragalus aduncus* Willd. (*Fabaceae*) (Tamer et al. 1990b).

***Uromyces kochiae*** Petr. & Syd.

*Kochia prostrata* (L.) Schrad. (*Chenopodiaceae*) (Kabaktepe 2010).

***Uromyces laevis*** Korn.

*Euphorbia macroclada* Boiss. (*Euphorbiaceae*) (Henderson 1964).

***Uromyces lapponicus*** Lagerh.

*Astragalus pinetorum* Boiss. (*Fabaceae*) (Henderson 1964).

***Uromyces limonii*** (DC.) Lev.

*Limonium* Mill. (*Plumbaginaceae*) (Bahçecioglu & Yıldız 2005; Henderson 1964).

*Limonium gmelini* (Willd.) Kuntze (Bahçecioglu & Yıldız 2005).

*Statice limonium* Pall. (*Plumbaginaceae*) (Oner et al. 1984).

*Statice sinuata* L. (Bremer et al. 1947; Gobelez 1962).

***Uromyces lineolatus*** (Desm.) J. Schröt.

*Scirpus maritimus* L. (*Cyperaceae*) (Henderson 1964).

***Uromyces magnusii*** Kleb.

*Medicago rigidula* (L.) Desr. (*Fabaceae*) (Tamer et al. 1990a, 1992).

***Uromyces muscari*** Lev.

*Hyacinthus orientalis* L. (*Hyacinthaceae*) (Bahçecioglu & Yıldız 2005).

*Muscari* L. (*Liliaceae*) (Bahçecioglu & Yıldız 2005; Gobelez 1962; Henderson 1964).

*Muscari comosum* (L.) Mill. (Kabaktepe 2010).

*Urginea maritima* Baker (*Hyacinthaceae*) (Bremer et al. 1952; Gobelez 1962 as *Uromyces scillarum* (Grev.) G. Winter).

***Uromyces ononidis*** Pass.

*Ononis spinosa* L. (*Fabaceae*) (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Gobelez 1962; Kabaktepe 2010).

***Uromyces petitmenginii*** Maire

*Minuartia meyeri* Bornm. (*Caryophyllaceae*) (Henderson 1964).

***Uromyces pisi-sativi*** (Pers.) Liro

*Astragalus* L. (*Fabaceae*) (Henderson 1961 as *Uromyces punctatus* J. Schröt.; Kabaktepe & Bahçecioglu 2006; Kabaktepe 2010).



- Astragalus densifolius* Lam. (Bahcecioglu & Gjaerum 2004 as *U. punctatus*).
- Astragalus gummifer* Labill. (Bahcecioglu et al. 2006 as *Uromyces pisi* (DC.) G.H. Otth).
- Astragalus lagurus* Willd. (Bahcecioglu et al. 2006 as *U. pisi*).
- Astragalus ponticus* Pall. (Kabaktepe & Bahcecioglu 2006).
- Astragalus squalidus* Boiss. & Noë (Bahcecioglu & Yıldız 1996 as *U. pisi*).
- Colutea* L. (*Fabaceae*) (Bremer et al. 1952; Karel 1958; Gobelez 1962 as *Uromyces genistae-tinctoriae* (Pers.) Fuckel ex G. Winter).
- Euphorbia cyparissias* L. (*Euphorbiaceae*) (Erdogdu et al. 2010).
- Euphorbia virgata* Waldst. & Kit. ex Willd. (Bahcecioglu & Yıldız 2005 as *Uromyces pisi*; Kabaktepe 2010).
- Genista tinctoria* L. (*Fabaceae*) (Kabaktepe & Bahcecioglu 2006).
- Lathyrus annuus* L. (*Fabaceae*) (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).
- Lathyrus pratensis* L. (Bahcecioglu et al. 2006 as *U. pisi*).
- Lathyrus roseus* Stev. (Kabaktepe 2010).
- Lotus corniculatus* L. (*Fabaceae*) (Bahcecioglu et al. 2006 as *U. pisi*).
- Lotus gebelia* Vent. (Tamer et al. 1990b as *Uromyces loti* A. Blytt).
- Medicago falcata* L. (*Fabaceae*) (Bahcecioglu et al. 2006 as *U. pisi*; Kabaktepe 2010).
- Medicago littoralis* Loisel. (Bahcecioglu et al. 2006 as *U. pisi*).
- Medicago lupulina* L. (Bahcecioglu et al. 2006 as *U. pisi*; Kabaktepe & Bahcecioglu 2006).
- Medicago papillosa* Boiss. (Kabaktepe 2010).
- Medicago polymorpha* L. (Kabaktepe 2010).
- Medicago rigidula* (L.) All. (Kabaktepe 2010).
- Medicago sativa* L. (Kabaktepe 2010).
- Medicago varia* Martyn (Bahcecioglu et al. 2006 as *U. pisi*; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).
- Onobrychis* Mill. (*Fabaceae*) (Demirci et al. 1997 as *Uromyces onobrychidis* (Desm.) Lév.).
- Onobrychis altissima* Grossh. (Kabaktepe 2010).
- Onobrychis armena* Boiss (Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).
- Onobrychis cappadocica* Boiss. (Bahcecioglu & Yıldız 2005 as *U. onobrychidis*).
- Onobrychis galegifolia* Boiss. (Bahcecioglu & Yıldız 1996 as *U. onobrychidis*).
- Onobrychis hypargyrea* Boiss. (Bremer et al. 1952; Gobelez 1962 as *U. onobrychidis*)

*Onobrychis radiata* (Desf.) M. Bieb. (Bahçecioğlu & Yıldız 2005 as *U. onobrychidis*; Kabaktepe 2010).

*Onobrychis transcaucasica* Grossh. (Kabaktepe 2010).

*Onobrychis viciifolia* Scop. (Bremer et al. 1947; Karel 1958; Gobelez 1962 as *U. onobrychidis*; Kabaktepe 2010).

*Trifolium pratense* L. (*Fabaceae*) (Bahçecioğlu et al. 2006 as *U. pisi*).

*Vicia* L. (*Fabaceae*) (Bahçecioğlu et al. 2006 as *U. pisi*).

#### ***Uromyces polygoni* Peck**

*Pistacia lentiscus* L. (*Anacardiaceae*) (Gobelez 1962).

Footnote: *U. polygoni* parasite of *Polygonum* sp. There is no record of *U. polygoni* on *Pistacia* except in Gobelez (1962).

*Polygonum* L. (*Polygonaceae*) (Bremer et al. 1947).

*Polygonum alpestre* C. A. Mey. (Bremer et al. 1952; Gobelez 1962).

*Polygonum arenastrum* Bor. (Bahçecioğlu & Yıldız 2005; Tamer et al. 1989).

*Polygonum bellardii* All. (Bahçecioğlu & Yıldız 2005).

*Polygonum cognatum* Meisn. (Tamer et al. 1987).

*Polygonum maritimum* L. (Bremer et al. 1947).

#### ***Uromyces polygoni-avicularis* (Pers.) P. t.**

*Polygonum* L. (*Polygonaceae*) (Demirci et al. 1997).

*Polygonum aviculare* L. (Demirci et al. 1997; Kabaktepe 2010).

*Polygonum bellardii* All. (Kabaktepe & Bahçecioğlu 2006; Kabaktepe 2010).

*Polygonum bistorta* L. (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001).

*Polygonum cognatum* Meisn. (Pekel & Azaz 2003; Tamer et al. 1989).

*Polygonum lapathifolium* L. (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001).

*Polygonum luzuloides* Jaub. & Spach (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001).

*Polygonum polycnemoides* Jaub. & Spach (Bahçecioğlu et al. 2006).

*Rumex acetosella* L. (*Polygonaceae*) (Erdogdu et al. 2010).

#### ***Uromyces rumicis* (Schumach.) G. Winter**

*Rumex* L. (*Polygonaceae*) (Bahçecioğlu & Yıldız 2005; Guven & Tamer 1993; Karaboz & Oner 1982).

*Rumex acetosella* L. (Bahçecioğlu & Isıloğlu 1995, Bahçecioğlu & Yıldız 2001)

*Rumex angustifolius* Campd. (Bahçecioğlu & Isıloğlu 1995; Kabaktepe & Bahçecioğlu 2006).

*Rumex alpinus* L. (Kabaktepe & Bahçecioğlu 2006).

*Rumex conglomeratus* Murray (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 1996, Bahcecioglu & Yıldız 2001; Bahcecioglu et al. 2006).

*Rumex cristatus* DC. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001)

*Rumex obtusifolius* L. (Bahcecioglu & Isiloglu 1995)

*Rumex patientia* L. (Bahcecioglu & Isiloglu 1995; Bahcecioglu et al. 2006; Gobelez 1962; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Ucar & Oner 1977).

*Rumex pulcher* L. (Bahcecioglu et al. 2006; Oner et al. 1974; Tamer & Oner 1978a).

*Rumex scutatus* L. (Bahcecioglu & Isiloglu 1995, Bahcecioglu & Yıldız 2001; Ekici et al. 2010).

*Rumex tuberosus* L. (Bahcecioglu et al. 2006; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Uromyces salsolae*** Reichardt.

*Noaea* Moq. (*Chenopodiaceae*) (Demirci et al. 1997; Tamer et al. 1997).

*Noaea mucronata* (Forssk.) Aschers. & Schweinf. subsp. *mucronata* (Bahcecioglu & Yıldız 2005; Bremer et al. 1952; Kabaktepe 2010).

*Noaea spinosissima* Moq. (Gobelez 1962).

*Petrosimonia brachiata* Bunge (*Chenopodiaceae*) (Henderson 1961).

***Uromyces scleranthi*** Rostr.

*Minuartia hamata* Mattf. (*Caryophyllaceae*) (Bahcecioglu & Gjaerum 2004; Bahcecioglu & Yıldız 2005).

*Minuartia juniperina* Maire & Petitm. (Bahcecioglu et al. 2006).

*Minuartia meyeri* (Boiss.) Bornm. (Bahcecioglu & Yıldız 2005).

***Uromyces scutellatus*** (Schrank) Lév.

*Euphorbia virgata* Waldst. & Kit. (*Euphorbiaceae*) (Henderson 1964; Kabaktepe 2010).

***Uromyces silenes*** (Schltdl.) Fuckel

*Silene* L. (*Caryophyllaceae*) (Oner & Ekmekci 1974).

***Uromyces silenes-ponticae*** Const.

*Silene rhynchocarpa* Boiss. (*Caryophyllaceae*) (Bahcecioglu et al. 2006).

*Silene spergulifolia* M. Bieb. (Bahcecioglu et al. 2006).

***Uromyces sommerfeltii*** Hyl., Jørst. & Nannf.

*Solidago* L. (*Asteraceae*) (Henderson 1964).

***Uromyces sophorae-flavescentis*** Kusano

*Sophora jaubertii* Spach ex Jaub. & Spach (*Fabaceae*) (Kabaktepe & Bahcecioglu 2005, 2006; Kabaktepe 2010).

***Uromyces striatus* S. Schröt.**

*Argyrolobium biebersteinii* P.W. Ball (*Fabaceae*) (Kabaktepe & Bahçecioglu 2006).

*Medicago* L. (*Fabaceae*) (Bremer et al. 1952; Henderson 1964).

*Medicago falcata* L. (Bahçecioglu & Yıldız 2005).

*Medicago minima* (L.) Bartal. (Tamer & Oner 1978a).

*Medicago sativa* L. Bilecik (Bremer et al. 1947, 1952; Karel 1958; Gobelez 1962).

*Medicago varia* Martyn (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Erdogdu et al. 2010).

*Pisum sativum* L. (*Fabaceae*) (Kabaktepe 2010).

*Trifolium pratense* L. (*Fabaceae*) (Bahçecioglu et al. 2006).

***Uromyces tenuicutis* McAlpine**

*Parietaria judaica* L. (*Urticaceae*) (Pekel & Azaz 2003).

***Uromyces thapsi* (Opiz) Bubák**

*Verbascum* L. (*Scrophulariaceae*) (Henderson 1964).

***Uromyces tinctoriicola* Magnus**

*Euphorbia* L. (*Euphorbiaceae*) (Bahçecioglu & Isiloglu 1995; Bahçecioglu et al. 2006; Tamer & Altan 1995).

*Euphorbia cardiophylla* Boiss. & Heldr. (Bahçecioglu & Isiloglu 1995; Bahçecioglu & Yıldız 2005).

*Euphorbia macroclada* Boiss. (Tamer et al. 1987, 1990a, 1992).

*Euphorbia petrophila* C. A. Mey. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001)

*Euphorbia virgata* Waldst. & Kit. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001, 2005).

***Uromyces trifolii* (R. Hedw.) Lév.**

*Trifolium* L. (*Fabaceae*) (Bahçecioglu & Isiloglu 1995; Bremer et al. 1952; Guven & Tamer 1993; Henderson 1964 as *Uromyces nerviphilus* (Grognot) Hotson; Karaboz & Oner 1982; Oner & Ekmekci 1974; Tamer & Altan 1995).

*Trifolium alpestre* L. (Bahçecioglu & Yıldız 2005).

*Trifolium ambiguum* M. Bieb. (Bahçecioglu & Isiloglu 1995, Bahçecioglu & Yıldız 2001).

*Trifolium fragiferum* L. (Bahçecioglu et al. 2006).

*Trifolium nigrescens* Viv. (Tamer & Oner 1978a).

*Trifolium pratense* L. (Bahçecioglu & Yıldız 2005; Bahçecioglu et al. 2006; Kabaktepe 2010).

*Trifolium pannonicum* Jacq. subsp. *elongata* (Willd.) Zoh. (Bahçecioglu & Yıldız 2005).

*Trifolium repens* L. (Bahcecioglu et al. 2006; Karel 1958; Demirci et al. 1997; Henderson 1964 as *Uromyces nerviphilus* (Grognot) Hotson; Tamer et al. 1987).

*Trifolium resupinatum* L. (Bahcecioglu et al. 2006; Tamer & Oner 1978a).

***Uromyces trifolii-repentis* var. *fallens* (Arthur) Cummins**

*Medicago falcata* L. (*Fabaceae*) (Kabaktepe & Bahcecioglu 2006).

*Medicago lupulina* L. (Kabaktepe & Bahcecioglu 2006).

*Medicago rigidula* (L.) All. (Kabaktepe & Bahcecioglu 2006).

*Trifolium pratense* L. (*Fabaceae*) (Bahcecioglu & Gjaerum 2004; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010; Karel 1958).

***Uromyces trigonellae* Pass.**

*Trigonella cancellata* Desf. (*Fabaceae*) (Kabaktepe 2010).

*Trigonella fischeriana* Ser. (Kabaktepe & Bahcecioglu 2006).

*Trigonella foenum-graecum* L. (Bremer et al. 1952; Karel 1958).

*Trigonella monantha* C. A. Mey. (Bahcecioglu & Yıldız 2005).

*Trigonella monspeliaca* L. (Tamer et al. 1990a).

***Uromyces valerianae* Fuckel**

*Valeriana* L. (*Valerianaceae*) (Henderson 1964).

*Valeriana dioscoridis* Sibth. & Sm. (Tamer et al. 1990a).

***Uromyces veratri* (DC.) J. Schröt.**

*Veratrum album* L. (*Melanthiaceae*) (Kabaktepe 2010).

***Uromyces verruculosus* J. Schröt.**

*Silene alba* (Miller) Krause (*Caryophyllaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

*Silene spergulifolia* M. Bieb. (Kabaktepe 2010).

*Silene italica* (L.) Pers. (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Uromyces vesicatorius* (Bubák) Natrass**

*Lens esculenta* Moench (*Fabaceae*) (Bremer et al. 1947; Gobelez 1962).

Footnote: *U. vesicatorius* is parasite of *Leontice* sp. and *Leonotis* sp. There is no record of *U. vesicatorius* on *Lens esculenta* except in Bremer (1947) and Gobelez (1962).

*Leontice leontopetaloides* L. (*Berberidaceae*) (Henderson 1959).

***Uromyces viciae-fabae* (Pers.) J. Schröt.**

*Lathyrus tuberosus* L. (*Fabaceae*) (Parlak & Guçin 1993).

*Lens esculenta* Moench (*Fabaceae*) (Bremer et al. 1952; Karel 1958; Gobelez 1962 as *Uromyces fabae* (Pers.) de Bary).

*Pisum sativum* L. (*Fabaceae*) (Bremer et al. 1952; Gobelez 1962 as *U. fabae*).

*Vicia* L. (*Fabaceae*) (Bahcecioglu et al. 2006).

*Vicia cracca* L. (Bahcecioglu & Yıldız 2005 as *U. fabae*).  
*Vicia faba* L. (Bremer et al. 1947, 1952; Karel 1958 as *U. fabae*).  
*Vicia hybrida* L. (Henderson 1964; Tamer & Oner 1978a).  
*Vicia narbonensis* L. (Tamer et al. 1990a).  
*Vicia sativa* L. (Bremer et al. 1947 as *U. fabae*).  
*Vicia villosa* Roth (Kabaktepe 2010).

***Uromyces viciae-craccae* Const.**

*Vicia cracca* L. (*Fabaceae*) (Bahcecioglu 2001; Bahcecioglu & Yıldız 2005).

***Uromyces vignae* Barclay**

*Vigna sinensis* L. (*Fabaceae*) Mugla (Oner et al. 1984 as *Uromyces phaseoli* var. *vignae* (Barclay) Arthur).

***Zaghouania phillyreae* Pat.**

*Phillyrea latifolia* L. (*Oleaceae*) (Bahcecioglu & Gjaerum 2004).

***Pucciniastraceae***

***Hyalopsora polypodii* (Pers.) Magnus**

*Cystopteris fragilis* (L.) Bernh. (*Woodsiaceae*) (Henderson 1961; Tamer et al. 1989).

***Melampsorella caryophyllacearum* (DC.) J. Schröt.**

*Abies bornmuelleriana* Mattf. (*Pinaceae*) (Bremer et al. 1947; Karel 1958; Gobelez 1962).

*Abies nordmanniana* Spach (Henderson 1964).

*Arenaria leptoclados* (Rchb.) Guss. (Sert & Sumbul 2005).

***Melampsorella symphyti* Bubák**

*Symphytum* L. (*Boraginaceae*) (Henderson 1964).

***Melampsorium betulinum* (Pers.) Kleb.**

*Betula pendula* Roth. (*Betulaceae*) (Huseyin & Selcuk 2000, 2001, 2004).

***Melampsorium carpini* (Nees) Dietel**

*Carpinus betulus* L. (*Betulaceae*) (Huseyin & Selcuk 2000, 2001, 2004).

***Melampsorium hiratsukanum* S. Ito ex Hirats. f.**

*Alnus orientalis* Decne. (*Betulaceae*) (Sert & Sumbul 2005).

***Pucciniastrum agrimoniae* (Dietel) Tranzschel**

*Agrimonia* L. (*Rosaceae*) (Bahcecioglu et al. 2006).

*Agrimonia eupatoria* L. (Henderson 1964; Kabaktepe & Bahcecioglu 2006; Kabaktepe 2010).

***Pucciniastrum brachybotrydis* (Tranzschel) Jørst.**

*Omphalodes cappadocica* DC. (*Boraginaceae*) (Henderson 1964).

***Pucciniastrum circaeae*** (Schumach.) Speg.

*Circaea alpina* L. (*Onagraceae*) (Henderson 1964).

***Pucciniastrum epilobii*** G.H. Otth

*Epilobium angustifolium* L. (*Onagraceae*) (Kabaktepe 2010).

*Epilobium hirsutum* L. (Bremer et al. 1947,1952; Gobelez 1962).

***Pucciniastrum pyrolae*** Dietel ex Arthur

*Pyrola media* Hayne (*Ericaceae*) (Henderson 1964).

#### ***Uropyxidaceae***

***Ochropsora ariae*** (Fuckel) Ramsb.

*Anemone blanda* Schott & Kotschy (*Ranunculaceae*) (Bahcecioglu & Gjaerum 2004).

***Tranzschelia discolor*** (Fuckel) Tranzschel & M.A. Litv.

*Prunus* L. (*Rosaceae*) (Bahcecioglu et al. 2006).

*Prunus armeniaca* L. (Onan & Saydam 1995).

*Prunus divaricata* Ledeb. (Bahcecioglu et al. 2006).

*Prunus spinosa* L. (Kabaktepe & Bahcecioglu 2006).

***Tranzschelia pruni-spinosae*** (Pers.) Dietel

*Amygdalus communis* L. (*Rosaceae*) (Bremer et al. 1947; Karel 1958; Gobelez 1962 as *Puccinia pruni-spinosae* Pers.; Ucar & Oner 1977).

*Amygdalus orientalis* Mill. (Bremer et al. 1947; Karel 1958 as *P. pruni-spinosae*).

*Anemone coronaria* L. (*Ranunculaceae*) (Bremer et al. 1947; Gobelez 1962; Tamer & Oner 1978a as *P. pruni-spinosae*).

*Prunus amygdalus* Batsch (*Rosaceae*) (Oner et al. 1984).

*Prunus armeniaca* L. (Bremer et al. 1947, 1952; Karel 1958 as *P. pruni-spinosae*).

*Prunus cerasifera* Ehrh. (Soylu et al. 2004)

*Prunus domestica* L. (Bremer et al. 1947; Karel 1958 as *P. pruni-spinosae*; Oner et al. 1984; Ucar & Oner 1977).

*Prunus persica* (L.) Batsch (Bremer et al. 1947; Karel 1958 as *P. pruni-spinosae*).

*Prunus spinosa* L. (Kabaktepe 2010).

#### ***Incertae sedis***

***Aecidium haussknechtianum*** Henn.

*Berberis crataegina* DC. (*Berberidaceae*) (Bremer et al. 1952; Gobelez 1962).

***Aecidium leontices*** Tranzschel

*Leontice leontopetaloides* L. (*Berberidaceae*) (Gobelez 1962; Henderson 1959).

***Aecidium marcii*** Bubák

*Mercurialis annua* L. (*Euphorbiaceae*) (Bremer et al. 1947; Gobelez 1962).

***Aecidium otitis*** Schltldl.

*Silene italica* (L.) Pers. (*Caryophyllaceae*) (Bahçecioglu 2001; Bahçecioglu & Yıldız 2005).

***Aecidium phlomidis*** Thum.

*Phlomis capitata* Boiss. (*Lamiaceae*) (Henderson 1957).

***Aecidium scabiosae*** Dozy & Molk.

*Scabiosa palaestina* L. (*Dipsacaceae*) (Bremer et al. 1952; Gobelez 1962).

*Scabiosa rotata* M. Bieb. (Bremer et al. 1952; Gobelez 1962).

***Uredo daphnicola*** Dietel

*Daphne oleoides* Schreb. (*Thymelaeaceae*) (Kabaktepe & Bahçecioglu 2005, 2006).

**Host Index**

*Abies bornmuelleriana*: *Melampsorella caryophyllacearum*

*Abies nordmanniana*: *Melampsorella caryophyllacearum*

*Acantholimon*: *Uromyces acantholimonis*

*Acantholimon caryophyllaceum*: *Uromyces acantholimonis*

*Achillea*: *Puccinia chrysanthemi*, *P. cnici-oleracei*

*Achillea biebersteinii*: *Puccinia achilleae*

*Achillea cucullata*: *Puccinia achilleae*

*Achillea gonioccephala*: *Puccinia achilleae*

*Achillea kotschyi*: *Puccinia cnici-oleracei*

*Achillea millefolium*: *Puccinia achilleae*

*Achillea phrygia*: *Puccinia achilleae*, *P. chrysanthemi*, *P. cnici-oleracei*

*Achillea santolina*: *Puccinia achilleae*

*Achillea sintenisii*: *Puccinia achilleae*

*Achillea sipikorensis*: *Puccinia achilleae*

*Achillea tenuifolia*: *Puccinia cnici-oleracei*

*Achillea teretifolia*: *Puccinia achilleae*

*Achillea wilhelmsii*: *Puccinia achilleae*

*Aconitum nasutum*: *Puccinia recondita*

*Acroptilon picris*: *Puccinia acroptili*

*Acroptilon repens*: *Puccinia acroptili*, *P. hieracii* var. *hieracii*



- Aegilops*: *Puccinia striiformis*  
*Aegilops cylindrica*: *Puccinia glumarum*  
*Aegilops ovata*: *Puccinia glumarum*  
*Aegilops speltoides*: *Puccinia graminis*  
*Aegilops triuncialis*: *Puccinia striiformis*  
*Aegilops umbellulata*: *Puccinia graminis*, *P. striiformis*  
*Aeluropus littoralis*: *Uromyces aeluropodis-repentis*  
*Aethionema iberideum*: *Puccinia aethionematis*  
*Aethusa cynapium*: *Puccinia nitida*  
*Agrimonia*: *Pucciniastrum agrimoniae*  
*Agrimonia eupatoria*: *Pucciniastrum agrimoniae*  
*Agropyron repens*: *Puccinia graminis*, *P. recondita*  
*Agrostis stolonifera*: *Puccinia recondita*  
*Alcea*: *Puccinia malvacearum*  
*Alcea apterocarpa*: *Puccinia malvacearum*  
*Alcea heldreichii*: *Puccinia malvacearum*  
*Alcea hohenackeri*: *Puccinia malvacearum*  
*Alcea rosea*: *Puccinia malvacearum*  
*Alcea setosa*: *Puccinia malvacearum*  
*Alcea striata*: *Puccinia malvacearum*  
*Alchemilla*: *Trachyspora intrusa*  
*Alchemilla barbatiflora*: *Trachyspora intrusa*  
*Alchemilla holocycla*: *Trachyspora intrusa*  
*Alchemilla mollis*: *Trachyspora intrusa*  
*Alchemilla pseudocartalinica*: *Trachyspora intrusa*  
*Allium*: *Puccinia allii*  
*Allium ampeloprasum*: *Puccinia allii*  
*Allium cepa*: *Puccinia allii*  
*Allium neapolitanum*: *Puccinia allii*  
*Allium rotundum*: *Puccinia allii*  
*Allium sativum*: *Puccinia allii*  
*Alnus orientalis*: *Melampsorium hiratsukanum*  
*Alopecurus arundinaceus*: *Puccinia graminis*, *Uromyces alopecuri*  
*Althaea*: *Puccinia malvacearum*  
*Althaea rosea*: *Puccinia malvacearum*  
*Alyssum minutum*: *Puccinia alyssi*  
*Amelanchier rotundifolia*: *Gymnosporangium amelanchieris*, *G. clavariiforme*  
*Amygdalus communis*: *Tranzschelia pruni-spinosae*  
*Amygdalus orientalis*: *Tranzschelia pruni-spinosae*  
*Anagyris foetida*: *Uromyces anagyridis*  
*Anchusa*: *Puccinia recondita*

*Anchusa leptophylla*: *Puccinia recondita*  
*Andropogon halepensis*: *Puccinia purpurea*  
*Andropogon hirtus*: *Puccinia cesatii*  
*Anemone blanda*: *Ochropsora ariae*, *Tranzschelia pruni-spinosae*  
*Anthriscus nemorosa*: *Puccinia chaerophylli*  
*Anthyllis vulneraria*: *Uromyces anthyllidis*  
*Antirrhinum majus*: *Puccinia antirrhini*  
*Apium graveolens*: *Puccinia apii*  
*Arabis graellsiiiformis*: *Puccinia arabidis-conringioidis*  
*Arctium lappa*: *Puccinia calcitrapae*  
*Arctium minus*: *Puccinia calcitrapae*  
*Arenaria gypsophiloides*: *Uromyces arenariae*  
*Arenaria leptoclados*: *Uromyces arenariae-leptocladi*, *Melampsorella caryophyllacearum*  
*Arenaria saponarioides*: *Uromyces arenariae-grandiflorae*  
*Argyrolobium biebersteinii*: *Uromyces striatus*  
*Aristolochia*: *Puccinia aristolochiae*  
*Aristolochia maurorum*: *Puccinia aristolochiae*  
*Artemisia austriaca*: *Puccinia absinthii*  
*Artemisia absinthium*: *Puccinia absinthii*, *P. tanacetii*  
*Artemisia campestris*: *Puccinia tanacetii*  
*Artemisia marschalliana*: *Puccinia tanacetii*  
*Artemisia taurica*: *Puccinia absinthii*  
*Artemisia vulgaris*: *Puccinia tanacetii*  
*Arundo donax*: *Puccinia phragmitis*  
*Asparagus officinalis*: *Puccinia asparagi*  
*Asparagus verticillatus*: *Puccinia asparagi*  
*Asperula*: *Puccinia asperulae-aparines*  
*Asperula pestalazae*: *Puccinia asperulae-aparines*  
*Asphodelus*: *Puccinia heldreichiana*  
*Asphodelus microcarpus*: *Puccinia asphodeli*  
*Aster amellus*: *Puccinia asteris*, *P. cnici-oleracei*  
*Asteriscus aquaticus*: *Coleosporium inulae*  
*Astragalus*: *Uromyces astragali*, *U. pisi-sativi*  
*Astragalus aduncus*: *Uromyces klebahnii*  
*Astragalus densifolius*: *Uromyces pisi-sativi*  
*Astragalus gummifer*: *Uromyces pisi-sativi*  
*Astragalus lagurus*: *Uromyces pisi-sativi*  
*Astragalus pinetorum*: *Uromyces lapponicus*  
*Astragalus ponticus*: *Uromyces pisi-sativi*  
*Astragalus squalidus*: *Uromyces pisi-sativi*  
*Asyneuma amplexicaule*: *Puccinia asyneumatis*

*Atraphaxis billardierei*: *Puccinia platypoda*  
*Avena barbata*: *Puccinia coronata* var. *avenae*, *P. graminis*  
*Avena sativa*: *Puccinia coronata* var. *avenae*, *P. graminis*  
*Avena sterilis*: *Puccinia coronata* var. *avenae*, *P. graminis*  
*Ballota rotundifolia*: *Puccinia ballotae*  
*Ballota saxatilis*: *Puccinia ballotae*  
*Bellardiocloa polychroa*: *Puccinia gjaerumii*  
*Berberis*: *Puccinia brachypodii* var. *poae-nemoralis*, *P. graminis*  
*Berberis crataegina*: *Puccinia graminis*, *Aecidium haussknechtianum*  
*Berberis vulgaris*: *Puccinia graminis*  
*Beta vulgaris*: *Uromyces beticola*  
*Betula pendula*: *Melampsorium betulinum*  
*Blysmus compressus*: *Puccinia schemahensis*  
*Bothriochloa ischaemum*: *Puccinia cesatii*  
*Bromus*: *Puccinia graminis*, *P. recondita*  
*Bromus armenus*: *Puccinia striiformis*  
*Bromus erectus*: *Puccinia graminis*  
*Bromus japonicus*: *Puccinia bromina*, *P. graminis*, *P. recondita*  
*Bromus lanceolatus*: *Puccinia graminis*  
*Bromus madritensis*: *Puccinia glumarum*  
*Bromus sterilis*: *Puccinia bromina*, *P. graminis*, *P. recondita*, *P. striiformis*  
*Bromus tectorum*: *Puccinia graminis*, *P. recondita*  
*Bromus tomentosus*: *Puccinia coronata* var. *avenae*  
*Bufonia tenuifolia*: *Uromyces dianthi*  
*Bufonia virgata*: *Uromyces dianthi*  
*Bunium*: *Puccinia bulbocastani*  
*Bupleurum*: *Puccinia bupleuri*  
*Bupleurum subovatum*: *Puccinia bupleuri*  
*Bupleurum croseum*: *Puccinia bupleuri*  
*Bupleurum falcatum*: *Puccinia bupleuri*  
*Bupleurum rotundifolium*: *Puccinia bupleuri*  
*Buxus sempervirens*: *Puccinia buxi*  
*Caltha polypetala*: *Puccinia calthae*  
*Calamagrostis littorea*: *Puccinia pygmaea*  
*Calamagrostis pseudophragmites*: *Puccinia graminis*  
*Calamintha*: *Puccinia menthae*  
*Campanula*: *Coleosporium tussilaginis*  
*Campanula athoa*: *Coleosporium tussilaginis*  
*Campanula glomerata*: *Coleosporium tussilaginis*  
*Campanula lactiflora*: *Coleosporium tussilaginis*  
*Campanula lyrata*: *Coleosporium tussilaginis*  
*Campanula olympica*: *Coleosporium tussilaginis*

*Campanula rapunculoides*: *Coleosporium tussilaginis*  
*Campanula tridentata*: *Puccinia campanulae*  
*Cardamine impatiens*: *Puccinia cruciferarum*  
*Carduus*: *Puccinia calcitrapae*, *P. cnici*  
*Carduus acanthoides*: *Puccinia calcitrapae*  
*Carduus apenninus*: *Puccinia calcitrapae*  
*Carduus lanuginosus*: *Puccinia calcitrapae*  
*Carduus nutans*: *Puccinia calcitrapae*  
*Carduus pycnocephalus*: *Puccinia calcitrapae*  
*Carex*: *Puccinia caricicola*, *P. caricina* var. *caricina*  
*Carex atrata*: *Puccinia caricicola*, *P. dioicae* var. *dioicae*  
*Carex hirta*: *Puccinia caricicola*  
*Carex hordeistichos*: *Puccinia caricicola*, *P. caricina* var. *caricina*  
*Carex nigra*: *Puccinia caricicola*  
*Carex riparia*: *Puccinia caricicola*  
*Carex stenophylla*: *Uromyces caricis-sempervirentis*  
*Carlina foliosa*: *Puccinia calcitrapae*  
*Carlina oligocephala*: *Puccinia calcitrapae*, *P. divergens*  
*Carlina vulgaris*: *Puccinia divergens*  
*Carpinus betulus*: *Melampsorium carpini*  
*Carthamus dentatus*: *Puccinia carthami*  
*Carthamus persicus*: *Puccinia carthami*  
*Carthamus tinctorius*: *Puccinia carthami*  
*Centaurea*: *Puccinia calcitrapae*, *P. centaureae*  
*Centaurea aggregata*: *Puccinia calcitrapae*, *P. centaureae*, *P. persica*  
*Centaurea axillaris*: *Puccinia montana*  
*Centaurea carduiiformis*: *Puccinia hieracii* var. *hieracii*, *P. montana*  
*Centaurea cheirolopha*: *Puccinia calcitrapae*, *P. cyanii*, *P. hieracii* var. *hieracii*  
*Centaurea consanguinea*: *Puccinia centaureae*  
*Centaurea depressa*: *Puccinia calcitrapae*  
*Centaurea ensiformis*: *Puccinia cyanii*  
*Centaurea glastifolia*: *Puccinia calcitrapae*, *P. centaureae*, *P. cyanii*  
*Centaurea iberica*: *Puccinia calcitrapae*, *P. centaureae*, *P. cyanii*  
*Centaurea kotschyi*: *Puccinia calcitrapae*, *P. montana*  
*Centaurea kurdica*: *Puccinia calcitrapae*, *P. hendersonii*  
*Centaurea lycopifolia*: *Puccinia cyanii*, *P. hieracii* var. *hieracii*  
*Centaurea macrocephala*: *Puccinia calcitrapae*, *P. hieracii* var. *Hieracii*  
*Centaurea mucronifera*: *Puccinia hieracii* var. *hieracii*, *P. montana*  
*Centaurea pichleri*: *Puccinia cyanii*  
*Centaurea polypodifolia*: *Puccinia calcitrapae*, *P. centaureae*, *P. cyanii*  
*Centaurea pulchella*: *Puccinia calcitrapae*

- Centaurea pulcherrima*: *Puccinia carthami*  
*Centaurea rhizantha*: *Puccinia montana*  
*Centaurea salicifolia*: *Puccinia calcitrapae*, *P. cyanii*  
*Centaurea sivasica*: *Puccinia centaureae*  
*Centaurea solstitialis*: *Puccinia calcitrapae*, *P. centaureae*, *P. hieracii* var. *hieracii*  
*Centaurea tomentella*: *Puccinia calcitrapae*  
*Centaurea triumfettii*: *Puccinia cyanii*  
*Centaurea urvillei*: *Puccinia calcitrapae*, *P. cyanii*  
*Centaurea virgata*: *Puccinia calcitrapae*, *P. carthami*, *P. centaureae*, *P. cyanii*  
*Cephalorrhynchus tuberosus*: *Puccinia lactucarum*  
*Cerastium purpurascens*: *Puccinia arenariae*  
*Cerinthe minor*: *Puccinia cerinthes-agropyrina*, *P. recondita*  
*Chaerophyllum aureum*: *Puccinia chaerophylli*  
*Chaerophyllum bulbosum*: *Puccinia chaerophylli*  
*Chaerophyllum byzantinum*: *Puccinia chaerophylli*  
*Chaerophyllum crinitum*: *Puccinia chaerophylli*  
*Chaerophyllum macrospermum*: *Puccinia chaerophylli*  
*Chondrilla juncea*: *Puccinia chondrillina*, *P. hieracii* var. *hieracii*  
*Chrysanthemum*: *Puccinia chrysanthemi*  
*Chrysophthalmum dichotomum*: *Coleosporium inulae*  
*Cicer arietinum*: *Uromyces ciceris-arietini*  
*Cicerbita*: *Puccinia maculosa*  
*Cicerbita bourgaei*: *Puccinia maculosa*  
*Cicerbita brevirostris*: *Puccinia maculosa*  
*Cicerbita mulgedioides*: *Puccinia mulgedii*  
*Cichorium intybus*: *Puccinia hieracii* var. *hieracii*  
*Cichorium pumilum*: *Puccinia hieracii* var. *hieracii*  
*Circaea*: *Puccinia circaeae*  
*Circaea alpina*: *Pucciniastrum circaeae*  
*Circaea lutetiana*: *Puccinia circaeae*  
*Cirsium*: *Puccinia cnici*  
*Cirsium acarna*: *Puccinia calcitrapae*  
*Cirsium anatolicum*: *Puccinia cnici*  
*Cirsium arvense*: *Puccinia calcitrapae*, *P. cirsii*, *P. cnici*, *P. punctiformis*  
*Cirsium bracteosum*: *Puccinia cnici*  
*Cirsium canum*: *Puccinia calcitrapae*  
*Cirsium ciliatum*: *Puccinia cnici*  
*Cirsium eriophorum*: *Puccinia cnici*  
*Cirsium haussknechtii*: *Puccinia calcitrapae*, *P. cnici*  
*Cirsium lappacearum*: *Puccinia calcitrapae*, *P. cnici*, *P. nishidana*

*Cirsium macrobotris*: *Puccinia calcitrapae*  
*Cirsium obvallatum*: *Puccinia cnici*  
*Cirsium pubigerum*: *Puccinia cnici*  
*Cirsium rhizocephalum*: *Puccinia calcitrapae*  
*Cirsium simplex*: *Puccinia punctiformis*  
*Cirsium vulgare*: *Puccinia calcitrapae*, *P. cnici*, *P. punctiformis*  
*Clematis cirrhosa*: *Puccinia madritensis*, *P. recondita*  
*Clinopodium vulgare*: *Puccinia menthae*  
*Cnidium orientale*: *Puccinia physospermi*  
*Colchicum speciosum*: *Uromyces colchici*  
*Colutea*: *Uromyces pisi-sativi*  
*Conium maculatum*: *Puccinia conii*  
*Convolvulus*: *Puccinia convolvuli*  
*Convolvulus arvensis*: *Puccinia convolvuli*  
*Convolvulus sepium*: *Puccinia convolvuli*  
*Coronilla orientalis*: *Puccinia coronillae*  
*Coronilla varia*: *Puccinia coronillae*  
*Cotoneaster*: *Gymnosporangium confusum*  
*Cotoneaster melanocarpus*: *Gymnosporangium confusum*  
*Cotoneaster nummularius*: *Gymnosporangium clavariiforme*  
*Cotoneaster vulgaris*: *Gymnosporangium confusum*  
*Cousinia brachyptera*: *Puccinia calcitrapae*  
*Crataegus*: *Gymnosporangium clavariiforme*, *G. confusum*  
*Crataegus aronia*: *Gymnosporangium clavariiforme*  
*Crataegus azoralus*: *Gymnosporangium clavariiforme*  
*Crataegus microphylla*: *Gymnosporangium clavariiforme*  
*Crataegus monogyna* subsp. *monogyna*: *Gymnosporangium clavariiforme*, *G. confusum*  
*Crataegus orientalis*: *Gymnosporangium clavariiforme*  
*Crataegus pentagyna*: *Gymnosporangium confusum*  
*Crataegus szowitsii*: *Gymnosporangium confusum*  
*Crataegus tanacetifolia*: *Gymnosporangium confusum*  
*Crepis*: *Puccinia crepidicola*  
*Crepis alpina*: *Puccinia crepidis*, *P. crepidicola*  
*Crepis foetida*: *Puccinia crepidis*, *P. crepidicola*  
*Crepis paludosa*: *Puccinia major*  
*Crepis sancta*: *Puccinia crepidicola*  
*Cressa cretica*: *Puccinia cressae*  
*Cruciata laevipes*: *Puccinia galii-cruciatae*  
*Cruciata taurica*: *Puccinia galii-cruciatae*  
*Crucianella*: *Puccinia syriaca*  
*Cydonia vulgaris*: *Gymnosporangium confusum*

*Cynodon dactylon*: *Puccinia cynodontis*  
*Cyperus*: *Puccinia cyperi*, *P. romagnoliana*  
*Cyperus capitatus*: *Puccinia cyperi*  
*Cyperus rotundus*: *Puccinia conclusa*  
*Cystopteris fragilis*: *Hyalopsora polypodii*  
*Dactylis glomerata*: *Puccinia graminis*, *P. striiformis*, *Uromyces dactylidis*  
*Daphne oleoides*: *Uredo daphnicola*  
*Datisca cannabina*: *Coleosporium datiscaae*  
*Daucus carota*: *Puccinia chaerophylli*  
*Dianthus*: *Uromyces dianthi*  
*Dianthus barbatus*: *Uromyces dianthi*  
*Dianthus calocephalus*: *Uromyces dianthi*  
*Dianthus floribundus*: *Uromyces dianthi*  
*Dianthus masmenaeus*: *Uromyces dianthi*  
*Dianthus orientalis*: *Uromyces dianthi*  
*Dianthus strictus*: *Uromyces dianthi*  
*Dianthus zonatus*: *Uromyces dianthi*  
*Dorycnium graecum*: *Uromyces anthyllidis*  
*Dorycnium pentaphyllum*: *Uromyces anthyllidis*  
*Dorystoechas hastata*: *Uromyces dorystoechadis*  
*Echinophora tenuifolia*: *Puccinia yildizii*  
*Echinops*: *Puccinia echinopsis*, *P. pulvinata*  
*Echinops galaticus*: *Puccinia calcitrapae*  
*Echinops melitenensis*: *Puccinia calcitrapae*, *P. echinopsis*  
*Echinops pungens* var. *pungens*: *Puccinia calcitrapae*, *P. echinopsis*  
*Echinops ritro*: *Puccinia calcitrapae*, *P. echinopsis*, *P. pulvinata*  
*Echium*: *Puccinia recondita*  
*Echium plantagineum*: *Puccinia recondita*  
*Eleocharis mitracarpa*: *Puccinia cyperi*  
*Elymus caput-medusae*: *Puccinia graminis*  
*Elymus elongatus*: *Puccinia graminis*, *P. recondita*  
*Elymus hispidus*: *Puccinia graminis*, *P. striiformis*  
*Elymus lazicus*: *Puccinia graminis*, *P. recondita*  
*Elymus longearistatus*: *Puccinia recondita*  
*Elymus nodosus*: *Puccinia graminis*, *P. recondita*  
*Elymus repens*: *Puccinia elymi*, *P. graminis*, *P. recondita*, *P. striiformis*  
*Epilobium*: *Puccinia pulverulenta*  
*Epilobium angustifolium*: *Pucciniastrum epilobii*  
*Epilobium hirsutum*: *Puccinia pulverulenta*, *Pucciniastrum epilobii*  
*Epilobium minutiflorum*: *Puccinia pulverulenta*  
*Epilobium montanum*: *Puccinia pulverulenta*  
*Epilobium parviflorum*: *Puccinia pulverulenta*

*Epilobium tetragonum*: *Puccinia pulverulenta*  
*Eremopoa persica*: *Puccinia graminis*  
*Eremurus*: *Puccinia eremuri*  
*Eremurus spectabilis*: *Puccinia eremuri*  
*Erigeron acer*: *Puccinia caricis-erigerontis*  
*Erodium*: *Uromyces geranii*  
*Eryngium*: *Puccinia eryngii*  
*Eryngium billardierei*: *Puccinia eryngii*  
*Eryngium campestre*: *Puccinia eryngii*  
*Erysimum repandum*: *Puccinia holboellii*  
*Euonymus*: *Melampsora epitea* var. *epitea*  
*Euphorbia*: *Melampsora euphorbiae*, *Uromyces tinctoriicola*  
*Euphorbia altissima*: *Melampsora euphorbiae*  
*Euphorbia cardiophylla*: *Melampsora euphorbiae*, *Uromyces tinctoriicola*  
*Euphorbia cheiradenia*: *Melampsora euphorbiae*  
*Euphorbia cyparissias*: *Uromyces pisi-sativi*  
*Euphorbia falcata*: *Melampsora euphorbiae*  
*Euphorbia helioscopia*: *Melampsora euphorbiae*  
*Euphorbia heteradena*: *Melampsora euphorbiae-dulcis*  
*Euphorbia macroclada*: *Melampsora euphorbiae*, *Uromyces laevis*, *U. tinctoriicola*  
*Euphorbia orientalis*: *Melampsora euphorbiae*  
*Euphorbia peplus*: *Melampsora euphorbiae*  
*Euphorbia petiolata*: *Melampsora euphorbiae*  
*Euphorbia petrophila*: *Uromyces tinctoriicola*  
*Euphorbia rigida*: *Melampsora euphorbiae*  
*Euphorbia taurinensis*: *Melampsora euphorbiae*  
*Euphorbia tinctoria*: *Melampsora euphorbiae*  
*Euphorbia virgata*: *Melampsora euphorbiae*, *M. euphorbiae-dulcis*, *Uromyces pisi-sativi*, *U. scutellatus*, *U. tinctoriicola*  
*Euphrasia hirtella*: *Coleosporium tussilaginis*  
*Euphrasia pectinata*: *Coleosporium tussilaginis*  
*Falcaria*: *Puccinia falcariae*  
*Falcaria rivini*: *Puccinia falcariae*  
*Falcaria vulgaris*: *Puccinia falcariae*  
*Ferula orientalis*: *Puccinia ferulae*  
*Ferulago longistylis*: *Puccinia ferulae*  
*Festuca*: *Puccinia festucae*  
*Festuca valesiaca*: *Puccinia graminis*  
*Ficaria*: *Uromyces ficariae*  
*Ficaria grandiflora*: *Uromyces dactylidis*  
*Ficus carica*: *Cerotelium fici*



*Fragaria vesca*: *Phragmidium fragariae*  
*Frangula alnus*: *Puccinia coronata* var. *avenae*  
*Frankenia hirsuta*: *Puccinia frankeniae*  
*Gagea granatelli*: *Puccinia pachyderma*, *Uromyces gageae*  
*Galega officinalis*: *Uromyces galegae*, *U. galegicola*  
*Galium*: *Puccinia punctata*  
*Galium aparine*: *Puccinia punctata*  
*Galium floribundum*: *Puccinia nevodovskii*  
*Galium humifusum*: *Puccinia punctata*  
*Galium margaceum*: *Puccinia punctata*  
*Galium mite*: *Puccinia asperulina*  
*Galium psilophyllum*: *Puccinia punctata*  
*Galium verum*: *Puccinia galii-cruciatae*, *P. punctata*  
*Genista aucheri*: *Uromyces cytisi*  
*Genista tinctoria*: *Uromyces genistae*, *U. pisi-sativi*  
*Gentiana cruciata*: *Puccinia gentianae*  
*Gentiana lutea*: *Puccinia gentianae*  
*Gentiana septemfida*: *Puccinia gentianae*  
*Geranium*: *Puccinia geranii-silvatici*, *Uromyces geranii*  
*Geranium cinereum*: *Uromyces geranii*  
*Geranium pyrenaicum*: *Uromyces geranii*  
*Geranium rotundifolium*: *Uromyces geranii*  
*Geranium tuberosum*: *Puccinia geranii-silvatici*  
*Geum heterocarpum*: *Phragmidium circumvallatum*  
*Gladiolus atrovioleaceus*: *Puccinia gladioli*  
*Gladiolus kotschyanus*: *Puccinia gladioli*  
*Glycyrrhiza*: *Uromyces glycyrrhizae*  
*Glycyrrhiza echinata*: *Uromyces glycyrrhizae*  
*Glycyrrhiza glabra*: *Uromyces glycyrrhizae*  
*Gypsophila*: *Uromyces gypsophilae*  
*Gypsophila hispida*: *Uromyces gypsophilae*  
*Gypsophila pallida*: *Uromyces gypsophilae*  
*Gypsophila perfoliata*: *Uromyces gypsophilae*  
*Gundelia tournefortii*: *Puccinia gundeliae*, *P. maculosa*  
*Gypsophila pilosa*: *Uromyces dianthi*  
*Hedysarum*: *Uromyces hedysari-obscuri*  
*Hedysarum pestalozzae*: *Uromyces hedysari-obscuri*  
*Hedysarum pogonocarpum*: *Puccinia hedysari-obscuri*  
*Hedysarum pycnostachyum*: *Puccinia hedysari-obscuri*  
*Hedysarum rotundifolium*: *Puccinia hedysari-obscuri*  
*Hedysarum varium*: *Uromyces hedysari-obscuri*  
*Helianthus annuus*: *Puccinia helianthi*

*Helichrysum plicatum*: *Uromyces helichrysi*  
*Heliotropium*: *Uromyces heliotropii*  
*Heliotropium eichwaldi*: *Uromyces heliotropii*  
*Heliotropium ellipticum*: *Uromyces heliotropii*  
*Heliotropium europaeum*: *Uromyces heliotropii*  
*Heracleum*: *Puccinia heraclei*  
*Heracleum trachyloma*: *Puccinia heraclei*  
*Hieracium*: *Puccinia hieracii* var. *hieracii*  
*Hieracium olympicum*: *Puccinia hieracii* var. *hieracii*  
*Hieracium pannosum*: *Puccinia hieracii* var. *hieracii*  
*Hippocrepis unisiliquosa*: *Uromyces anthyllidis*  
*Holcus setiglumis*: *Puccinia hordei*  
*Hordeum*: *Puccinia graminis*, *P. hordei*, *P. striiformis*  
*Hordeum bulbosum*: *Puccinia graminis*, *P. hordei*, *Uromyces iranensis*  
*Hordeum distichon*: *Puccinia graminis*, *P. hordei*  
*Hordeum marinum*: *Puccinia graminis*  
*Hordeum murinum*: *Puccinia glumarum*, *P. graminis*, *P. striiformis*  
*Hordeum sativum*: *Puccinia glumarum*, *P. graminis*, *P. hordei*  
*Hordeum vulgare*: *Puccinia hordei*  
*Hyacinthella lineata*: *Puccinia lojkaiana*  
*Hyacinthus orientalis*: *Uromyces muscari*  
*Hymenocarpus circinnatus*: *Uromyces hymenocarpi*  
*Hypericum*: *Melampsora hypericorum*  
*Hypericum androsaemum*: *Melampsora hypericorum*  
*Hypericum crispum*: *Melampsora hypericorum*  
*Hypericum empetrifolium*: *Melampsora hypericorum*  
*Hypericum lydiium*: *Melampsora hypericorum*  
*Hypericum perforatum*: *Melampsora hypericorum*  
*Imperata cylindrica*: *Puccinia imperatae*  
*Inula*: *Puccinia gnaphalii*, *Puccinia striiformis*  
*Inula aucheriana*: *Coleosporium inulae*, *Puccinia hieracii* var. *hieracii*  
*Inula graveolens*: *Puccinia gnaphalii*  
*Inula viscosa*: *Coleosporium inulae*, *Puccinia gnaphalii*, *P. striiformis*  
*Iris*: *Puccinia iridis*  
*Iris sari*: *Puccinia iridis*  
*Iris taochia*: *Puccinia iridis*  
*Jasminum fruticans*: *Puccinia jasmini*  
*Johrenia berytea*: *Puccinia malatyensis*  
*Juncus acutus*: *Puccinia cancellata*  
*Juncus gerardii*: *Puccinia littoralis*  
*Juniperus communis*: *Gymnosporangium cornutum*  
*Juniperus drupacea*: *Gymnosporangium clavariiforme*

- Juniperus excelsa*: *Gymnosporangium clavariiforme*, *G. sabiniae*  
*Juniperus foetidissima*: *Gymnosporangium clavariiforme*  
*Juniperus nana*: *Gymnosporangium gaeumannii*, *G. sabiniae*  
*Juniperus oxycedrus*: *Gymnosporangium clavariiforme*, *G. confusum*, *G. sabiniae*  
*Jurinea*: *Puccinia jurineae*  
*Jurinea aucheriana*: *Puccinia fuckelii*  
*Jurinea consanguinea*: *Puccinia lapsanae*  
*Kochia prostrata*: *Uromyces kochiae*  
*Krascheninnikovia ceratoides*: *Uromyces eurotiae*  
*Lactuca*: *Puccinia ankarensis*, *P. lactucarum*, *P. prenanthis-purpureae*  
*Lactuca viminea*: *Puccinia ankarensis*  
*Lappa*: *Puccinia calcitrapae*  
*Lapsana*: *Puccinia lapsanae*  
*Lapsana communis*: *Puccinia lapsanae*  
*Lapsana intermedia*: *Puccinia lapsanae*  
*Lathyrus annuus*: *Uromyces pisi-sativi*  
*Lathyrus pratensis*: *Uromyces pisi-sativi*  
*Lathyrus roseus*: *Uromyces pisi-sativi*  
*Lathyrus tuberosus*: *Uromyces viciae-fabae*  
*Lavatera punctata*: *Puccinia malvacearum*  
*Lecokia cretica*: *Puccinia lecokiae*  
*Lens esculenta*: *Uromyces vesicatorius*, *U. viciae-fabae*  
*Leontice leontopetaloides*: *Uromyces vesicatorius*, *Aecidium leontices*  
*Leontodon crispus*: *Puccinia leontodontis*, *P. recondita*  
*Leontodon asperrimus*: *Puccinia leontodontis*  
*Lepidium*: *Puccinia trabutii*  
*Lepidium draba*: *Puccinia isiacae*  
*Limonium*: *Uromyces limonii*  
*Limonium gmelini*: *Uromyces limonii*  
*Linum*: *Melampsora lini* var. *lini*  
*Linum hirsutum*: *Melampsora lini* var. *lini*  
*Linum mucronatum*: *Melampsora lini* var. *lini*  
*Linum nervosum*: *Melampsora lini* var. *lini*  
*Linum nodiflorum*: *Melampsora lini* var. *lini*  
*Linum usitatissimum*: *Melampsora lini* var. *lini*  
*Lolium*: *Puccinia graminis*, *P. hordei*  
*Lolium multiflorum*: *Puccinia graminis*  
*Lolium persicum*: *Puccinia graminis*  
*Lolium perenne*: *Puccinia graminis*, *P. striiformis*  
*Lolium rigidum*: *Puccinia graminis*, *P. recondita*  
*Lonicera caucasica*: *Puccinia festucae*

- Lotus corniculatus*: *Uromyces anthyllidis*, *U. pisi-sativi*  
*Lotus gebelia*: *Uromyces pisi-sativi*  
*Luzula*: *Puccinia obscura*  
*Luzula campestris*: *Puccinia obscura*  
*Lysimachia vulgaris*: *Puccinia limosae*  
*Lythrum salicaria*: *Puccinia minutissima*  
*Mahonia aquifolium*: *Cumminsia mirabilissima*  
*Malva*: *Puccinia malvacearum*  
*Malva neglecta*: *Puccinia malvacearum*  
*Malva sylvestris*: *Puccinia malvacearum*  
*Malus*: *Gymnosporangium tremelloides*  
*Malus sylvestris*: *Gymnosporangium clavariiforme*, *G. tremelloides*  
*Malvella sherardiana*: *Puccinia sherardiana*  
*Medicago*: *Uromyces striatus*  
*Medicago falcata*: *Uromyces pisi-sativi*, *U. striatus*, *U. trifolii-repentis* var. *fallens*  
*Medicago littoralis*: *Uromyces pisi-sativi*  
*Medicago lupulina*: *Uromyces pisi-sativi*, *U. trifolii-repentis* var. *fallens*  
*Medicago minima*: *Uromyces striatus*  
*Medicago papillosa*: *Uromyces pisi-sativi*  
*Medicago polymorpha*: *Uromyces pisi-sativi*  
*Medicago rigidula*: *Uromyces magnusii*, *U. pisi-sativi*, *U. trifolii-repentis* var. *fallens*  
*Medicago sativa*: *Uromyces pisi-sativi*, *U. striatus*  
*Medicago varia*: *Uromyces pisi-sativi*, *U. striatus*  
*Melica ciliata*: *Puccinia graminis*  
*Melilotus neapolitanus*: *Uromyces baeumlerianus*  
*Melilotus officinalis*: *Uromyces baeumlerianus*  
*Mentha*: *Puccinia menthae*  
*Mentha longifolia*: *Puccinia menthae*  
*Mentha pulegium*: *Puccinia menthae*  
*Mentha spicata*: *Puccinia menthae*  
*Mercurialis annua*: *Puccinia cynodontis*, *Aecidium marcii*  
*Mespilus germanica*: *Gymnosporangium clavariiforme*, *G. confusum*  
*Michauxia campanuloides*: *Coleosporium tussilaginis*  
*Michauxia tchihatcheffii*: *Coleosporium tussilaginis*  
*Micromeria fruticosa*: *Puccinia menthae*  
*Minuartia*: *Uromyces alsinis*  
*Minuartia hamata*: *Uromyces alsinis*, *U. scleranthi*  
*Minuartia juniperina*: *Uromyces scleranthi*  
*Minuartia meyeri*: *Uromyces alsinis*, *U. petitmenginii*, *U. scleranthi*  
*Minuartia recurva*: *Puccinia hysteriiformis*

*Muscari: Uromyces muscari*  
*Muscari comosum: Uromyces muscari*  
*Myagrurn perfoliatum: Puccinia isiacae*  
*Myosotis lithospermifolia: Puccinia recondita*  
*Noaea: Uromyces salsolae*  
*Noaea mucronata: Uromyces salsolae*  
*Noaea spinosissima: Uromyces salsolae*  
*Notobasis syriaca: Puccinia calcitrapae, P. notobasidis*  
*Omphalodes: Puccinia mertensiae*  
*Omphalodes cappadocica: Pucciniastrum brachybotrydis*  
*Onobrychis: Uromyces pisi-sativi*  
*Onobrychis altissima: Uromyces pisi-sativi*  
*Onobrychis armena: Uromyces pisi-sativi*  
*Onobrychis cappadocica: Uromyces pisi-sativi*  
*Onobrychis galegifolia: Uromyces pisi-sativi*  
*Onobrychis hypargyrea: Uromyces pisi-sativi*  
*Onobrychis radiata: Uromyces pisi-sativi*  
*Onobrychis transcaucasica: Uromyces pisi-sativi*  
*Onobrychis viciafolia: Uromyces pisi-sativi*  
*Ononis spinosa: Uromyces ononidis*  
*Onosma molle: Puccinia onosmaticola*  
*Onosma sericea: Puccinia onosmatis*  
*Opopanax orientalis: Puccinia opopanax*  
*Origanum vulgare: Puccinia menthae*  
*Ornithogalum: Puccinia liliacearum*  
*Ornithogalum pyrenaicum: Puccinia liliacearum*  
*Paeonia mascula: Puccinia martianoffiana*  
*Papaver rhoeas: Melampsora magnusiana*  
*Parietaria judaica: Uromyces tenuicutis*  
*Pedicularis comosa: Coleosporium tussilaginis*  
*Petrorrhagia alpina: Uromyces dianthi*  
*Petrosimonia brachiata: Uromyces salsolae*  
*Peucedanum pisidicum: Puccinia libani*  
*Phalaris arundinacea: Puccinia sessilis*  
*Phaseolus vulgaris: Uromyces appendiculatus*  
*Phillyrea latifolia: Zaghouania phillyreae*  
*Phleum graecum: Puccinia graminis*  
*Phleum pratense: Puccinia graminis, P. poarum, P. striiformis*  
*Phlomis: Puccinia phlomidis*  
*Phlomis armeniaca: Puccinia phlomidis, P. stapfiana*  
*Phlomis capitata: Aecidium phlomidis*  
*Phlomis kurdica: Puccinia phlomidis*

*Phlomis pungens*: *Puccinia phlomidis*  
*Phlomis russeliana*: *Puccinia phlomidis*  
*Phragmites*: *Puccinia phragmitis*  
*Phragmites australis*: *Puccinia graminis*, *P. magnusiana*, *P. phragmitis*, *P. tepperi*  
*Phragmites communis*: *Puccinia phragmitis*, *P. trabutii*  
*Phryna ortegioides*: *Puccinia phrynae*  
*Picnomon acarna*: *Puccinia acarnae*, *P. calcitrapae*, *P. cnici*  
*Picris hieracioides*: *Puccinia hieracii* var. *hieracii*  
*Picris pauciflora*: *Puccinia hieracii* var. *hieracii*  
*Picris strigosa*: *Puccinia hieracii* var. *hieracii*  
*Pilosella*: *Puccinia hieracii* var. *piloselloidarum*  
*Pilosella auriculoides*: *Puccinia hieracii* var. *piloselloidarum*  
*Pilosella fallax*: *Puccinia hieracii* var. *piloselloidarum*  
*Pilosella piloselloides*: *Puccinia hieracii* var. *piloselloidarum*  
*Pilosella verruculata*: *Puccinia hieracii* var. *piloselloidarum*  
*Pimpinella*: *Puccinia pimpinellae*  
*Pimpinella anthriscoides*: *Puccinia pimpinellae*  
*Pimpinella aurea*: *Puccinia pimpinellae*  
*Pimpinella corymbosa*: *Puccinia pimpinellae*  
*Pimpinella cretica*: *Puccinia pimpinellae*  
*Pimpinella kotschyana*: *Puccinia pimpinellae*  
*Pimpinella olivierioides*: *Puccinia pimpinellae*  
*Pimpinella rhodantha*: *Puccinia pimpinellae*  
*Pimpinella tragium*: *Puccinia pimpinellae*  
*Pinus brutia*: *Melampsora populnea*  
*Pinus halepensis*: *Melampsora populnea*  
*Pinus nigra*: *Endocronartium pini*, *Melampsora populnea*  
*Pinus pinaster*: *Melampsora populnea*  
*Pinus sylvestris*: *Endocronartium pini*  
*Pistacia*: *Pileolaria terebinthi*  
*Pistacia lentiscus*: *Pileolaria terebinthi*, *Uromyces polygoni*  
*Pistacia terebinthus*: *Pileolaria terebinthi*  
*Pistacia vera*: *Pileolaria terebinthi*  
*Pisum sativum*: *Uromyces striatus*, *U. viciae-fabae*  
*Plantago major*: *Puccinia cynodontis*  
*Poa*: *Puccinia poarum*  
*Poa annua*: *Puccinia graminis*, *P. poarum*  
*Poa bulbosa*: *Puccinia poarum*, *Uromyces dactylidis*  
*Poa longifolia*: *Puccinia graminis*  
*Poa nemoralis*: *Puccinia brachypodii* var. *poae-nemoralis*, *P. graminis*, *P. poarum*

- Polygonum*: *Puccinia polygoni-amphibii* var. *convolvuli*, *Uromyces polygoni*, *U. polygoni-avicularis*  
*Polygonum alpestre*: *Uromyces polygoni*  
*Polygonum alpinum*: *Puccinia polygoni-amphibii* var. *convolvuli*  
*Polygonum arenarium*: *Puccinia polygoni-amphibii* var. *convolvuli*  
*Polygonum arenastrum*: *Puccinia polygoni-amphibii* var. *convolvuli*, *Uromyces polygoni*  
*Polygonum aviculare*: *Uromyces polygoni-avicularis*  
*Polygonum bellardii*: *Puccinia bistortae*, *Uromyces polygoni*, *U. polygoni-avicularis*  
*Polygonum bistorta*: *Puccinia bistortae*, *U. polygoni-avicularis*  
*Polygonum cognatum*: *Uromyces polygoni*, *U. polygoni-avicularis*  
*Polygonum convolvuli*: *Puccinia polygoni-amphibii* var. *convolvuli*  
*Polygonum lapathifolium*: *Puccinia bistortae*, *P. polygoni-amphibii* var. *convolvuli*, *U. polygoni-avicularis*  
*Polygonum luzuloides*: *Uromyces polygoni-avicularis*  
*Polygonum maritimum*: *Uromyces polygoni*  
*Polygonum polycnemoides*: *Uromyces polygoni-avicularis*  
*Polypogon monspeliensis*: *Puccinia coronata* var. *avenae*  
*Polypogon viridis*: *Puccinia graminis*  
*Populus*: *Melampsora populnea*  
*Populus alba*: *Melampsora allii-populina*, *M. pulcherrima*  
*Populus nigra*: *Melampsora allii-populina*, *M. populnea*  
*Populus pyramidalis*: *Melampsora occidentalis*  
*Populus tremula*: *Melampsora allii-populina*  
*Potentilla*: *Frommeella tormentillae*, *Phragmidium fragariae*, *P. hendersonii*, *P. potentillae*  
*Potentilla argentea*: *Phragmidium potentillae*  
*Potentilla aucheriana*: *Phragmidium potentillae*  
*Potentilla crantzii*: *Phragmidium potentillae*  
*Potentilla erecta*: *Phragmidium potentillae*  
*Potentilla inclinata*: *Phragmidium potentillae*  
*Potentilla recta*: *Phragmidium potentillae*  
*Potentilla reptans*: *Phragmidium potentillae*  
*Potentilla speciosa*: *Phragmidium potentillae*  
*Prangos*: *Puccinia libani*, *P. libanotidis*, *P. plicata*  
*Prangos denticulata*: *Puccinia plicata*  
*Prangos ferulacea*: *Puccinia libani*  
*Prangos pabularia*: *Puccinia libani*, *P. plicata*  
*Prunus*: *Tranzschelia discolor*  
*Prunus amygdalus*: *Tranzschelia pruni-spinosae*  
*Prunus armeniaca*: *Tranzschelia discolor*, *T. pruni-spinosae*

*Prunus cerasifera*: *Tranzschelia pruni-spinosae*  
*Prunus divaricata*: *Tranzschelia discolor*  
*Prunus domestica*: *Tranzschelia pruni-spinosae*  
*Prunus persica*: *Tranzschelia pruni-spinosae*  
*Prunus spinosa*: *Tranzschelia discolor*, *T. pruni-spinosae*  
*Pyrola media*: *Pucciniastrum pyrolae*  
*Pyrus communis*: *Gymnosporangium fuscum*, *G. sabiniae*, *G. tremelloides*  
*Pyrus elaeagnifolia*: *Gymnosporangium sabiniae*  
*Pyrus malus*: *Gymnosporangium tremelloides*  
*Pyrus syriaca*: *Gymnosporangium clavariiforme*  
*Quercus*: *Cronartium quercuum*  
*Quercus coccifera*: *Cronartium quercuum*  
*Ranunculus caucasicus*: *Puccinia recondita*  
*Ranunculus oxyspermus*: *Uromyces dactylidis*  
*Ranunculus repens*: *Puccinia ranunculi*  
*Rhagadiolus angulosus*: *Puccinia hysteriorum*  
*Rhagadiolus hedyppnois*: *Puccinia rhagadioli*  
*Rhagadiolus stellatus*: *Puccinia hysteriorum*  
*Rhamnus*: *Puccinia coronata* var. *avenae*  
*Rhamnus cathartica*: *Puccinia coronata* var. *avenae*  
*Rhamnus oleoides*: *Puccinia mesnieriana*  
*Rhamnus pallasii*: *Puccinia coronata* var. *avenae*  
*Rhinanthus angustifolius*: *Coleosporium tussilaginis*  
*Rhinanthus minor*: *Coleosporium tussilaginis*  
*Rhynchocorys elephas*: *Coleosporium tussilaginis*  
*Rosa*: *Phragmidium mucronatum*, *P. tuberculatum*  
*Rosa canina*: *Phragmidium mucronatum*  
*Rosa dumalis*: *Phragmidium mucronatum*, *P. tuberculatum*  
*Rosa foetida*: *Phragmidium kamschatkae*, *P. mucronatum*  
*Rosa horrida*: *Phragmidium mucronatum*  
*Rosa montana*: *Phragmidium mucronatum*  
*Rosa pimpinellifolia*: *Phragmidium mucronatum*, *P. rosae-pimpinellifoliae*  
*Rosa pulverulenta*: *Phragmidium mucronatum*, *P. mucronatum*  
*Rosa villosa*: *Phragmidium mucronatum*, *P. mucronatum*  
*Rosa sulphurea*: *Phragmidium bulbosum*  
*Rubia tinctoria*: *Puccinia rubiae-tataricae*  
*Rubus*: *Phragmidium acuminatum*, *P. bulbosum*, *P. violaceum*  
*Rubus caesius*: *Kuehneola uredinis*, *Phragmidium violaceum*  
*Rubus canescens*: *Kuehneola uredinis*, *Phragmidium acuminatum*, *P. rubi-saxatilis*, *P. violaceum*  
*Rubus discolor*: *Phragmidium violaceum*  
*Rubus fruticosus*: *Phragmidium violaceum*



- Rubus hirtus*: *Phragmidium violaceum*  
*Rubus idaeus*: *Phragmidium rubi-idaei*  
*Rubus sanctus*: *Arthuriomyces peckianus*, *Phragmidium bulbosum*, *P. violaceum*  
*Rumex*: *Puccinia acetosae*, *Puccinia phragmitis*, *Uromyces rumicis*  
*Rumex acetosa*: *Puccinia acetosae*,  
*Rumex acetosae*: *Uromyces acetosae*  
*Rumex acetosella*: *Puccinia acetosae*, *P. pachyphloea*, *Uromyces polygoni-avicularis*, *U. rumicis*  
*Rumex acetoselloides*: *Uromyces acetosae*  
*Rumex alpinus*: *Uromyces rumicis*  
*Rumex angustifolius*: *Uromyces rumicis*  
*Rumex conglomeratus*: *Uromyces rumicis*  
*Rumex cristatus*: *Uromyces rumicis*  
*Rumex obtusifolius*: *Uromyces rumicis*  
*Rumex patientia*: *Puccinia acetosae*, *U. rumicis*  
*Rumex pulcher*: *Uromyces rumicis*  
*Rumex scutatus*: *Puccinia acetosae*, *P. pedunculata*, *Uromyces rumicis*  
*Rumex tmoleus*: *Puccinia acetosae*  
*Rumex tuberosus*: *Puccinia acetosae*, *Uromyces rumicis*  
*Sagina*: *Puccinia arenariae*  
*Salix*: *Melampsora epitea* var. *epitea*, *M. salicis-albae*  
*Salix alba*: *Melampsora salicis-albae*  
*Salix babylonica*: *Melampsora salicis-albae*  
*Salix caprea*: *Melampsora salicis-albae*  
*Salix cinerea*: *Melampsora salicis-albae*  
*Salix pseudomedemii*: *Melampsora salicis-albae*  
*Salix triandra*: *Melampsora salicis-albae*  
*Salvia*: *Puccinia nigrescens*, *P. salviae*  
*Salvia amasiana*: *Puccinia nigrescens*  
*Salvia cadmica*: *Puccinia stipae* var. *stipae*  
*Salvia cryptantha*: *Puccinia bithynica*, *P. stipae* var. *stipae*, *P. stipina*  
*Salvia euphratica*: *Puccinia glechomatis*, *P. stipae* var. *stipae*  
*Salvia multicaulus*: *Puccinia nigrescens*, *P. stipae* var. *stipae*, *P. stipina*  
*Salvia rosifolia*: *Puccinia glechomatis*, *P. stipina*  
*Salvia verticillata*: *Puccinia nigrescens*  
*Salvia viridis*: *Puccinia stipina*  
*Sanguisorba*: *Phragmidium sanguisorbae*  
*Sanguisorba minor*: *Phragmidium sanguisorbae*  
*Sanguisorba officinalis*: *Xenodochus carbonarius*  
*Saponaria*: *Uromyces gypsophilae*  
*Sarcopoterium spinosum*: *Phragmidium sanguisorbae*, *P. sarcopoterii*

*Satureja*: *Puccinia menthae*  
*Satureja macrantha*: *Puccinia menthae*  
*Saxifraga*: *Puccinia saxifragae*  
*Saxifraga sibirica*: *Puccinia saxifragae*  
*Scabiosa palaestina*: *Aecidium scabiosae*  
*Scabiosa rotata*: *Aecidium scabiosae*  
*Scariola*: *Puccinia lactucarum*  
*Scariola viminea*: *Puccinia lactucarum*  
*Scirpus maritimus*: *Uromyces lineolatus*  
*Scorzonera*: *Puccinia scorzonerae*  
*Scorzonera cana*: *Puccinia scorzonerae*  
*Scorzonera cinerea*: *Puccinia podospermi*, *P. scorzonerae*  
*Scorzonera eriophora*: *Puccinia scorzonerae*  
*Scorzonera mollis*: *Puccinia scorzonerae*  
*Scorzonera tomentosa*: *Puccinia scorzonerae*  
*Secale cereale*: *Puccinia graminis*, *P. recondita*  
*Secale montanum*: *Puccinia graminis*  
*Sempervivum globiferum*: *Endophyllum sempervivi*  
*Senecio aquaticus*: *Coleosporium tussilaginis*  
*Senecio eriospermus*: *Puccinia glomerata*,  
*Senecio orientalis*: *Coleosporium tussilaginis*, *Puccinia glomerata*  
*Senecio vernalis*: *Puccinia dioicae* var. *silvatica*, *P. uralensis*  
*Serratula cerinthifolia*: *Puccinia heterophyllae*, *P. schirajewskii*, *P. serratulae*  
*Serratula cerinthifolia*: *Puccinia hieracii* var. *hieracii*  
*Serratula oligocephala*: *Puccinia hieracii* var. *hieracii*  
*Serratula radiata*: *Puccinia hieracii* var. *hieracii*  
*Setaria viridis*: *Puccinia graminis*  
*Silau carvifolius*: *Puccinia opopanacis*  
*Silene*: *Puccinia arenariae*, *P. behenis*, *Uromyces behenis*, *U. silenes*  
*Silene alba*: *Puccinia behenis*, *Uromyces behenis*, *U. verruculosus*  
*Silene arguta*: *Puccinia behenis*  
*Silene italica*: *Puccinia arenariae*, *Uromyces behenis*, *U. verruculosus*,  
*Aecidium otitis*  
*Silene laxa*: *Uromyces inaequialtus*  
*Silene marschallii*: *Uromyces behenis*  
*Silene odontopetala*: *Puccinia behenis*  
*Silene rhynchocarpa*: *Puccinia arenariae*, *Uromyces silenes-ponticae*  
*Silene spergulifolia*: *Uromyces silenes-ponticae*, *U. verruculosus*  
*Silene vulgaris*: *Puccinia arenariae*, *Uromyces behenis*  
*Silybum marianum*: *Puccinia mariana*  
*Sisymbrium altissimum*: *Puccinia trabutii*

- Sisymbrium officinale*: *Puccinia trabutii*  
*Smilax excelsa*: *Puccinia smilacis*  
*Smyrniium cordifolium*: *Puccinia smyrnii*  
*Smyrniium rotundifolium*: *Puccinia smyrnii*  
*Solidago*: *Uromyces sommerfeltii*  
*Solidago virgaurea*: *Coleosporium asterum*.  
*Sophora jaubertii*: *Uromyces sophorae-flavescentis*  
*Sorbus aria*: *Gymnosporangium tremelloides*  
*Sorbus aucuparia*: *Gymnosporangium cornutum*, *G. tremelloides*  
*Sorbus subfusca*: *Gymnosporangium juniperi*  
*Sorbus umbellata*: *Gymnosporangium cornutum*  
*Stachys*: *Puccinia betonicae*, *P. hariotii*  
*Stachys annua*: *Puccinia betonicae*, *P. stachydis*  
*Stachys iberica*: *Puccinia betonicae*  
*Stachys citrina*: *Puccinia betonicae*  
*Stachys cretica*: *Puccinia betonicae*  
*Stachys grandiflora*: *Puccinia betonicae*  
*Stachys setifera*: *Puccinia vossii*  
*Staelina lobelii*: *Puccinia phaeopappi*  
*Statice limonium*: *Uromyces limonii*  
*Statice sinuata*: *Uromyces limonii*  
*Stipa holosericea*: *Puccinia stipae* var. *stipae*  
*Stipa pontica*: *Puccinia stipae* var. *stipae*  
*Stipa szowitsiana*: *Puccinia wolgensis*  
*Stipagrostis plumosa*: *Puccinia stipina*  
*Suaeda maritima*: *Uromyces chenopodii*  
*Symphytum*: *Melampsorella symphyti*  
*Symphytum asperum*: *Puccinia recondita*  
*Taeniatherum crinitum*: *Puccinia striiformis*  
*Tanacetum*: *Puccinia tanaceti*  
*Tanacetum argenteum*: *Puccinia tanaceti*  
*Tanacetum balsamita*: *Puccinia absinthii*, *P. balsamitae*  
*Tanacetum balsamitoides*: *Puccinia balsamitae*  
*Tanacetum cilicicum*: *Puccinia balsamitae*, *P. tanaceti*  
*Tanacetum densum*: *Puccinia tanaceti*  
*Tanacetum nitens*: *Puccinia tanaceti*  
*Tanacetum vulgare*: *Puccinia tanaceti*  
*Taraxacum*: *Puccinia dioicae* var. *dioicae*, *P. hieracii* var. *hieracii*, *P. variabilis*  
*Taraxacum assemani*: *Puccinia hieracii* var. *hieracii*  
*Taraxacum bessarabicum*: *Puccinia hieracii* var. *hieracii*  
*Taraxacum montanum*: *Puccinia hieracii* var. *hieracii*

*Taraxacum officinale*: *Puccinia hieracii* var. *hieracii*  
*Taraxacum serotinum*: *Puccinia hieracii* var. *hieracii*  
*Taraxacum syriacum*: *Puccinia hieracii* var. *hieracii*  
*Telekia speciosa*: *Coleosporium telekiae*  
*Teucrium chamaedrys*: *Puccinia annularis*, *P. chamaedryos*, *P. majoricensis*  
*Teucrium divaricatum*: *Puccinia annularis*  
*Teucrium orientale*: *Puccinia constricta*  
*Teucrium polium*: *Puccinia annularis*, *P. constricta*, *P. majoricensis*  
*Thalictrum minus*: *Puccinia recondita*  
*Thesium arvense*: *Puccinia thesii*  
*Thesium compressum*: *Puccinia thesii*  
*Thesium macranthum*: *Puccinia thesii*  
*Thesium procumbens*: *Puccinia thesii*  
*Thesium stelleroides*: *Puccinia thesii*  
*Thesium tauricolum*: *Puccinia thesii*  
*Thlaspi violascens*: *Puccinia thlaspeos*  
*Thymelaea aucheri*: *Puccinia salihae*  
*Thymus fallax*: *Puccinia serpylli*, *P. stipina*  
*Thymus fedtschenkoi*: *Puccinia serpylli*, *P. tendae*  
*Thymus kotschyanus*: *Puccinia serpylli*, *P. stipae* var. *stipina*  
*Thymus transcaucasicus*: *Puccinia serpylli*  
*Tordylium apulum*: *Puccinia pimpinellae*  
*Trachomitum venetum*: *Melampsora apocyni*  
*Tragopogon*: *Puccinia hystereum*  
*Tragopogon aureus*: *Puccinia hystereum*  
*Tragopogon latifolius*: *Puccinia hystereum*  
*Tragopogon longirostris*: *Puccinia striiformis*  
*Trifolium*: *Uromyces trifolii*  
*Trifolium alpestre*: *Uromyces trifolii*  
*Trifolium ambiguum*: *Uromyces trifolii*  
*Trifolium fragiferum*: *Uromyces trifolii*  
*Trifolium nigrescens*: *Uromyces trifolii*  
*Trifolium pannonicum*: *Uromyces trifolii*  
*Trifolium pratense*: *Uromyces pisi-sativi*, *U. striatus*, *U. trifolii*, *U. trifolii-repentis* var. *fallens*  
*Trifolium repens*: *Uromyces trifolii*  
*Trifolium resupinatum*: *Uromyces trifolii*  
*Trigonella cancellata*: *Uromyces trigonellae*  
*Trigonella fischeriana*: *Uromyces trigonellae*  
*Trigonella foenum-graecum*: *Uromyces trigonellae*  
*Trigonella monantha*: *Uromyces trigonellae*  
*Trigonella monspeliaca*: *Uromyces trigonellae*

*Triticum*: *Puccinia graminis*, *P. recondita*, *P. striiformis*  
*Triticum aestivum*: *Puccinia graminis*, *P. hordei*  
*Triticum carthlicum*: *Puccinia graminis*, *P. striiformis*  
*Triticum dicoccon*: *Puccinia graminis*  
*Triticum sativum*: *Puccinia graminis*, *P. recondita*  
*Triticum turgidum*: *Puccinia graminis*  
*Triticum vulgare*: *Puccinia graminis*  
*Tulipa armena*: *Puccinia prostii*  
*Tulipa hayati*: *Puccinia prostii*  
*Tulipa sintenisii*: *Puccinia liliacearum*  
*Tussilago farfara*: *Coleosporium tussilaginis*, *Puccinia poarum*  
*Umbilicus erectus*: *Puccinia umbilicicola*  
*Urginea maritima*: *Uromyces muscari*  
*Urtica dioica*: *Puccinia caricicola*  
*Vaccaria pyramidata*: *Uromyces gypsophilae*  
*Valeriana*: *Uromyces valerianae*  
*Valeriana dioscoridis*: *Uromyces valerianae*  
*Veratrum album*: *Uromyces veratri*  
*Verbascum*: *Uromyces thapsi*  
*Veronica armena*: *Puccinia ardahanensis*  
*Vicia*: *Uromyces pisi-sativi*, *U. viciae-fabae*  
*Vicia cracca*: *Uromyces fischeri-eduardi*, *U. viciae-fabae*, *U. viciae-cracca*  
*Vicia faba*: *Uromyces viciae-fabae*  
*Vicia freyniana*: *Uromyces fischeri-eduardi*  
*Vicia hybrida*: *Uromyces viciae-fabae*  
*Vicia narbonensis*: *Uromyces viciae-fabae*  
*Vicia sativa*: *Uromyces viciae-fabae*  
*Vicia villosa*: *Uromyces fischeri-eduardi*, *U. viciae-fabae*  
*Vigna sinensis*: *Uromyces vignae*  
*Vinca*: *Puccinia vincae*  
*Vinca herbacea*: *Puccinia anatolica*  
*Vinca major*: *Puccinia vincae*  
*Viola*: *Puccinia violae*  
*Viola canica*: *Puccinia violae*  
*Viola kitaibeliana*: *Puccinia violae*  
*Viola odorata*: *Puccinia cynodontis*, *P. violae*  
*Viola sieheana*: *Puccinia violae*  
*Xanthium spinosum*: *Puccinia xanthii*  
*Xanthium strumarium*: *Puccinia helianthi*, *P. xanthii*  
*Zea mays*: *Puccinia sorghi*  
*Ziziphora clinopodioides*: *Puccinia ziziphorae*  
*Zoegea leptaura*: *Puccinia buharica*

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