



Biography and studies of Fanny Andrews Shepard: Türkiye's first female plant collector

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Türkiye'nin ilk kadın bitki koleksiyoncusu Fanny Andrews Shepard'ın hayatı ve çalışmaları

Abstract: Fanny Andrews Shepard was an American medical doctor who lived in Gaziantep (Türkiye) between 1882-1915. F.A. Shepard collected plants from Gaziantep and its environs, from the Nur and Amanos Mountains. F.A. Shepard, together with her husband Dr. Frederick Douglas Shepard, she worked as a faculty member in the Department of Medicine at Aintab Central Türkiye College. F.A. Shepard was the first female lecturer and plant collector to give Medical Botany lessons in Turkey and create a collection of Turkish plants. F.A. Shepard discovered nine endemic plant species in the region during her field trips and brought them to the scientific world. She collected and sent approximately 350 plant specimens to Dr. George Edward Post, a botanical faculty member at the American University of Beirut. Dr. George Edward Post (1838-1909) published these plants in Flora of Syria, Palaestine and Sinai and Plantae Postianum. He named 17 of the plants which he published, after Shepard. In this study, the biography of Fanny Andrews Shepard, who lived in Gaziantep between 1882-1915, the collection she created with the plant specimens she collected, her contributions to the Flora of Gaziantep and the current situation of the plants were investigated.

Key words: Botanist, flora, Gaziantep, herbarium

Özet: Fanny Andrews Shepard, 1882-1915 yılları arasında Gaziantep (Türkiye)'te yaşamış Amerikalı bir tıp doktorudur. F.A. Shepard, Gaziantep ve çevresinden, Nur ve Amanos Dağlarından bitki toplamıştır. F.A. Shepard, eşi Dr. Frederick Douglas Shepard ile birlikte Antep Merkezi Türkiye Koleji (Aintab Central Turkey College) Tıp Bölümünde öğretim üyesi olarak çalışmışlardır. F.A. Shepard, Türkiye'de Tıbbi Botanik dersi veren ve Türkiye bitkilerinden bir koleksiyon oluşturan ilk kadın öğretim üyesi ve bitki toplayıcısıdır. F.A. Shepard arazi gezilerinde bölgede dokuz endemik bitki türü keşfetmiş ve bilim dünyasına kazandırmıştır. Topladığı 350'ye yakın bitki örneğini Beyrut Amerikan Üniversitesinde görev yapan botanik öğretim üyesi Dr. George Edward Post'a göndermiştir. Dr. George Edward Post (1838-1909) incelediği bitkileri Flora of Syria, Palaestine and Sinai ve Plantae Postianum isimli eserlerinde yayınlamıştır. Yayınladığı bitkilerin 17 tanesine Shepard'ın adını vermiştir. Bu çalışmada, 1882-1915 tarihleri arasında Gaziantep'te yaşamış olan Fanny Andrews Shepard'ın biyografisi, topladığı bitki örnekleriyle oluşturduğu koleksiyon, Gaziantep Florasına katkıları ve bitkilerin günümüzdeki durumu araştırılmıştır.

Anahtar Kelimeler: Botanikçi, flora, Gaziantep, herbarium

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1. Introduction

Türkiye has a very rich plant diversity on the subject of floristics. It is among the few countries in the world in terms of its geographical location, climate and edaphic differences and endemic plant diversity (Davis & Hedge, 1975). For this reason, many researchers and travelers were interested in the plants of Türkiye and collected plants from Anatolia (Baytop, 2010). The first studies on the flora of Türkiye were made by Western and Central European travelers and naturalists since the sixteenth century (Baytop, 2000; Çetin and Genç, 2014). The first botanical researches in Anatolia were made by the French naturalist and traveler Pierre Belon between 1546-1549. Later, between 1573 and 1576, Leonhart Rauwolff, in the early 18th century J.P. de Tournefort, G.A. Oliver, J.G. Bruguier, Karl T. Kotschy, Pierre E. Boissier; in 1834-1835 Rémi Aucher-éloy; in 1865-1867 Hofrat Prof. Carl

Haussknecht, B. Balansa, E. Bourgeau, P. Sintenis, G.V. Aznavour, J.N. Bornmuller, W. Siehe, Michael Dimonie (1870-1935) and in 1934-1935 Edward Kent Balls (1892-1984) collected plants (Baytop, 2000; 2005; İskender et al., 2006; Baytop, 2008a; 2008b; 2010; Çetin and Genç, 2014; Panchschwöll et al, 2019).

A comprehensive study on the Flora of Turkey was made by Peter Hadland Davis between 1965-1988 and he published a ten-volume work called Flora of Turkey and the East Aegean Islands, consisting of nine main and one additional volume. The second additional volume was published in 2000 (Davis, 1965-1985; Davis, 1988; Güner et al, 2000).

Yet another researcher who collected plants was Dr. Fanny Andrews Shepard (Fig. 1). Fanny Andrews Shepard (1856-1920), an American medical doctor, lived in Gaziantep between 1882-1915. F.A. Shepard collected plants from

Gaziantep and its surroundings, Nur and Amanos Mountains (Baytop, 1996). F.A. Shepard, her husband, Dr. Frederick Douglas Shepard and their son, Dr. Lorrin Shepard worked as a faculty member in the Medicine Department of Antep Central Turkey College between 1882-1921 (Barlas, 1971; Baytop, 2003; Taşkın, 2011; Tuzcu Ünsal, 2015). F.A. Shepard was the first female lecturer and plant collector to give Medical Botany lessons in Türkiye and created a collection of Turkish herbs (Fig. 2).

In this study, the biography of Fanny Andrews Shepard, lived in Gaziantep between 1882-1915, the collection she created with the plant specimens she collected and her contributions to the Flora of Gaziantep were investigated.

Biography

Fanny Perkins Andrews Shepard was born on July 14, 1856, in Honolulu (Hawaii/USA) to the missionary Andrews family. She lived in Maui until the age of 17 (Baytop, 1999; 2003). Her father was also a missionary teacher, F.A. Shepard attended Mount Holyoke College in 1877, after graduating from this school, she began medical education and graduated from the University of Michigan Medical School in 1882. In the same year, on July 5, 1882, was married to her school friend Frederick Douglas Shepard (1855-1915). Together with her husband, who was a missionary physician like her, she first came to Istanbul by ship, then to Iskenderun, and then to Gaziantep by road on October 10, 1882, to work at Gaziantep Center Turkey College (Anonymous, 1901; Barlas, 1971; Baytop, 1996; 2003; Taşkın, 2011). The Shepards had three children named Florence, Lorrin and Alice Claudius (Anonymous, 2022a).

One of the colleges established by the American Board of "American Board of Commissioners for Foreign Missions" within the borders of Türkiye was the Central Turkish

College in Gaziantep. Established in 1876 at the request of the Armenian notables, this school consisted of three departments: preparatory, medicine and medical sciences. Many doctors, pharmacists, dentists, teachers, engineers, lawyers and priests were trained in this college, which the Ottoman government accepted as a university in 1914. Health services were also provided by the doctors working with the college (Taşkın, 2012).

Aintab Central Turkey College also had a museum called the Mary A. Dickinson Museum, which contained important works. This museum contained botany, zoology, mineralogy, geology and archaeological materials. The museum had seaweeds, plants from America and California, a collection showing geological species in the Mississippi valley, mineral specimens, and various species from American Yellowstone Park. In addition, there were plant specimens from Gaziantep and its surroundings collected by Mrs Shepard (Anonymous, 1901).

While Dr. F.D. Shepard was getting a work permit in Istanbul, he asked for permission to work as a doctor in the Ottoman lands for his wife, Mrs. Shepard, who was also a doctor, but this was rejected by the authorities in Istanbul (Baytop, 2003; Taşkın, 2011). Although F.A. Shepard was not allowed to work as a doctor, she provided outpatient services to female patients informally at first, and later taught Medicinal Botany to students of medicine, pharmacy and dentistry in the Medical Department of Central Turkey College. In addition, she worked as a nurse and midwife in the hospital affiliated with the college and took care of female patients until the midwife Caroline Hamilton came to the hospital in 1893 (Baytop, 2003) (Fig. 3; 4).

Fanny A. Shepard established a lace and sewing workshop to help widows and orphans in Gaziantep, helping them to make a living by selling the products they produced (Anonymous, 2022d; Anonymous, 2022e). Frederick and



Figure 1. F.A. Shepard (Anonymous, 2022b)



Figure 2. F.A. Shepard (Anonymous, 2022c)

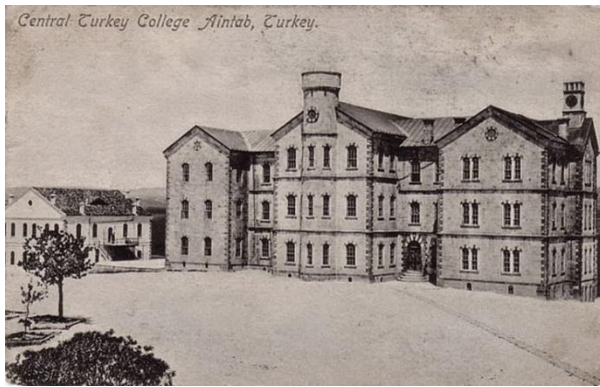


Figure 3. Antep Central Türkiye College (Aintab Central Turkey College)

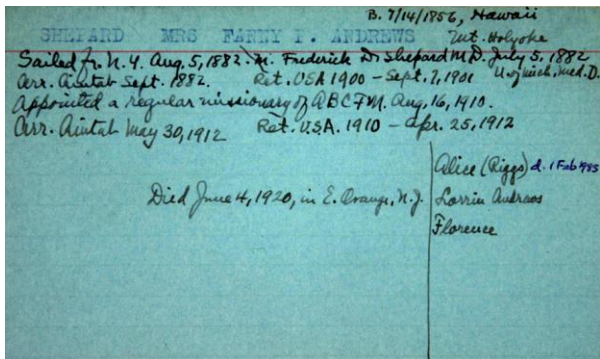


Figure 4. Personnel card for Fanny P. Andrews Shepard an employee of the American Board (Anonymous, 2022j).

Fanny Shepard had a hard time in Gaziantep in the first years, they were affected by the cholera, diphtheria and typhoid epidemics in the region, Fanny's sister and brother-in-law, who came to Antep with them, died during the epidemics (Baytop, 2003).

Dr. F.D. Shepard had taken an active role in the medical school and hospital since his arrival in Gaziantep. He served as a physician in Gaziantep for 33 years, traveled through the villages on horseback and looked after patients, and his wife, Fanny Andrews Shepard, participated in most of these travels. F.D. Shepard was honored with the Distinguished Service Medal by the American Red Cross in 1910. He was awarded the Fifth Degree Medjidi Order by Sultan Reşad. Dr. F.D. Shepard caught typhus in 1915 and died in Gaziantep on 18 December 1915. His grave is located in the garden of Gaziantep American Hospital (Baytop, 2003).

Fanny A. Shepard was closely interested in the plants of Gaziantep and its surroundings, besides giving medical botanical training at the medical school, she collected plants from the region with her husband while camping with her family in the Amanos Mountains every summer. F.A. Shepard discovered nine endemic plant species in the region during her field trips and brought them to the scientific world. She collected and sent nearly 300 plant specimens to Dr. George Edward Post, a botanist professor at the American University of Beirut. Dr George Edward Post (1838-1909) published the plants he studied in *Flora of Syria, Palaestine and Sinai and Plantae Postianum*. He named 17 of the plants he published after Shepard. (Post, 1888, 1890, 1891, 1892, 1892a,b; Post & Autran 1893a, 1893b, 1895, 1896, 1897, 1899, 1900; Post, 1932-1933; Musselman and Saoud, 2004).

After her husband's passing in 1915, F.A Shepard went to Beirut with her daughter and lived the with her daughter Florence, second daughter Alice, and son-in-law Ernest Riggs until the end of World War I. She also worked in the management of an orphanage while she was in Beirut. Mrs. Shepard returned to the United States on October 25, 1919 and began to live with her sister Lucy. She died on June 4, 1920 in East Orange (New Jersey, USA) (Fig. 5). Her ashes were brought to Antep and placed next to her husband's grave (Baytop, 2003; Shepard Riggs, 1920). Her obituary was published in The New York Times dated 15.06.1920 (Anonymous, 2022k).

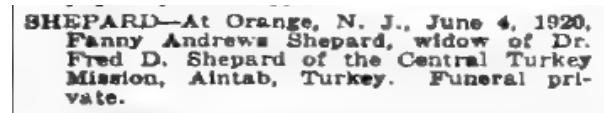


Figure 5. F.A. Shepard's obituary in The New York Times dated 15.06.1920

2. Materials and Method

Herbarium specimens of plants collected by F.A Shepard from Gaziantep and its surroundings constitute the material of this study. To check the published records these plants, *Flora of Turkey and East Eagean Islands* (Davis, 1965-1985; Davis et al., 1988; Güner, et al, 2000) and *Flora of Syria, Palaestine and Sinai and Plantae Postianae* (Post, 1888, 1890, 1891, 1892, 1892a,b; Post & Autran, 1893a,b, 1895, 1896,1897, 1899, 1900; Post, 1932-1933; Musselman and Saoud, 2004) were scanned.

Considering that the plant specimens, Shephard had sent G.E. Post, could be found in herbariums of American University of Beirut (Post Herbarium) (BEI), The New York Botanical Garden (NY) and Conservatoire et Jardin botaniques de la Ville de Genève (G), The Natural History Museum, London (BM), Royal Botanic Gardens (K), Royal Botanic Garden Edinburgh (E), Smithsonian Institution (US), Botanischer Garten und Botanisches Museum Freie Universität Berlin (B), University of Copenhagen (C), Royal Botanic Garden Edinburgh (E), Field Museum of Natural History (F), Natural History Museum Firenze (FI), University of Michigan (MICH), Missouri Botanical Garden (MO), University of Oxford (OXF), Herbarium of the University of Zürich (Z), University of Reading Herbarium (RNG) and G.E. Post's articles were investigated. The digital images of the plant specimens were examined by interviewing the managers of the herbariums where the plant specimens were found. The names of the plants collected by Shepard in these herbariums were checked on the websites Bizim Bitkiler (Anonymous, 2022f), The Plant List (Anonymou, 2022g) and IPNI (Anonymous, 2022h) and their synonyms and valid names were determined.

F.A. Shepard's plant collection

Since F.A Shepard was the first female plant collector who researched the flora of Gaziantep and collected plants, it is important that she and her studies are brought to the scientific world. The first study on Fanny Andrew Shepard was made by Prof. Dr. Asuman Baytop. Although this study is stated that F. A Shepard had a collection of around 300 plants (Baytop, 1996), in reality it is unknown exactly how many plants F.A. Shepard collected (Fig. 6a,b).

George E Post published lists of plants, including plants from Shepard's collection, in the *Bulletin de l'Herbier Bossier*,

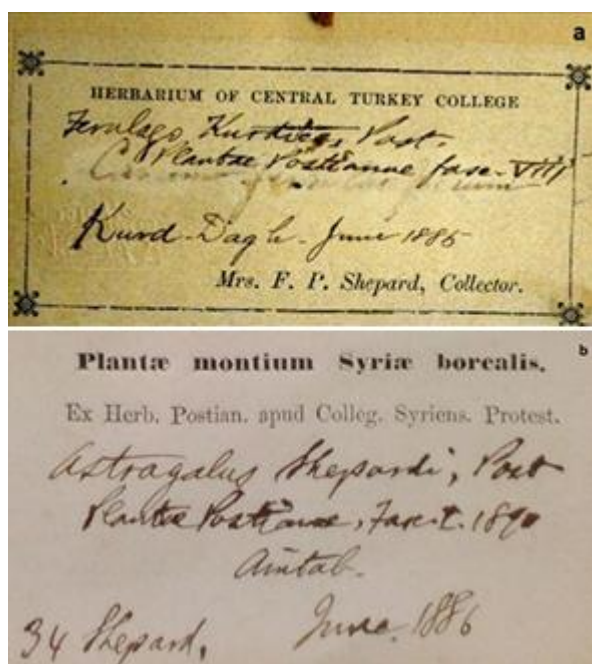


Figure 6. Fanny A. Shepard's herbarium label specimens (a: Herbarium of Central Turkey College; b: Post Herbarium)

Geneva Plantae Postianae, and The Linnean Society Journal (Post, 1888, 1890, 1891, 1892a,b; Post & Autran 1893a,b, 1895, 1896, 1897, 1899, 1900; Post, 1932-1933; Musselman and Saoud, 2004).

Fanny A. Shepard collected plants from Gaziantep, Nur and Amanos Mountains. Shepard did not identify and did not publish the plant. According to the label information in the plant specimens she collected, it was observed that the localities were recorded as Türkiye, Amasia, Aintab, Amanus, Asia Minor, highlands near Aintab, Gaiour-Dagh, Kurd Dag, Akherdagh. Shepard sent the plant specimens she collected to Dr George Edward Post, who was then at the American University of Beirut and was preparing the Syrian, Palestinian and Industrial flora. Yet he identified and published the species that he defined as new (Post, 1888, 1890, 1891, 1892a,b; Post & Autran 1893a,b, 1895, 1896, 1897, 1899, 1900).

Plant specimens by F.A. Shepard were studied at the American University of Beirut (BEI), The New York Botanical Garden (NY), and Conservatoire et Jardin botaniques de la Ville de Genève (G), The Natural History Museum, London (BM), Royal Botanic Gardens (K), Royal Botanic Garden Edinburgh (E), Smithsonian Institution (US) herbarium. It is known that 288 plant specimens collected by Shepard from Gaziantep and its environs between 1882-1915 were in Wellesley College Herbarium (WELC) and these specimens were later transferred to the New York Botanical Garden Herbarium (NY) (Baytop, 1996; 2003). Type specimens of plants belonging to the Shepard collection were sent to Geneva (G) herbarium by G.E Post.

In our study, it was determined that the plant specimens Shepard collected from Gaziantep and its surroundings were found in BEI, NY, BM, K, E, G and US herbariums and that the plant specimens belonging to Shepard in these herbariums were dispersed within the herbarium, not as a separate collection.

Until now, it was unknown exactly how many specimens

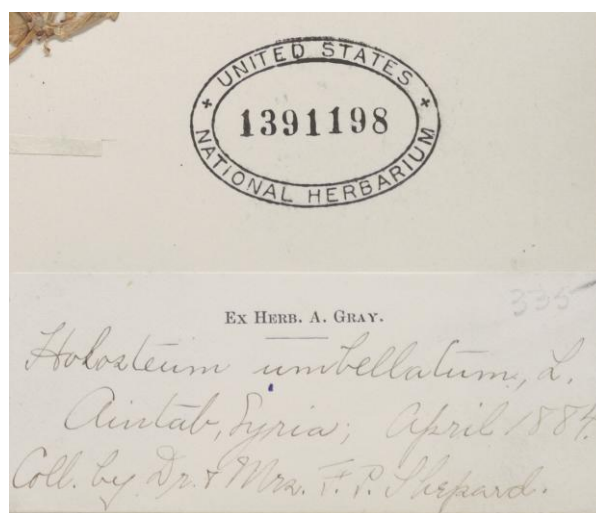


Figure 7. Fanny A. Label of herbarium specimen number 335 belonging to Shepard

Shepard had in her collection. However, in this study, it was observed that there were herbarium specimens with a collector number of 335 in the Smithsonian Herbarium. This suggests that there are around 350 plant specimens in Shepard's collection (Fig. 7).

As a result of scanning the catalogs of BEI, G, BM, NY, K, E and US herbariums, it has been determined that there are -106 in BEI, 8 in G, 2 in BM, 4 in NY, 5 in K, 1 in E, 38 in US- a total of 164 plant specimens belonging to the Shepard collection. Despite the information that Shepard's plant collection was first moved to the WELC and then to the NY herbarium, only two specimens were found in NY, suggesting that these specimens may have been lost.

Shepard specimens at the American University of Beirut Herbarium (BEI)

In the interview with the creator of the American University of Beirut herbarium (Post Herbarium) (BEI), it was stated that there were 76 specimens of Shepard in the herbarium. In the study conducted by Saoud and Jury (2009), it was also stated that there were 30 types of samples in BEI, and it was determined that there was a total of 106 samples collected by Shepard in BEI (Table 1).

Shepard specimens at the Geneva Conservatoire Botanique (G) Herbarium

Shepard's specimens were taken to the Geneva herbarium for examination by the G.E. Post. These samples were published in the Bulletin de l'Herbier Boissier (Plantae Postianae) (Post, 1890; 1891; 1892a,b; Post & Autran, 1893a; 1895; 1897; 1899; 1900).

All of the Shepard specimens found in the Geneva (G) herbarium are type specimens (Fig. 8; 9; 10; 11). It was determined that there were 8 specimens collected by Shepard and 5 specimens bearing the shepardii epithet published by Post in the Geneva Herbarium (Table 2).

Shepard specimens at The Natural History Museum, London (BM) Herbarium

It was stated that there were two types of specimens collected by Shepard in The Natural History Museum Herbarium, and one herbarium specimen with a shepardii epithet (Saoud and Jury, 2009; Anonymous, 2022i) (Table 3).



Figure 8. *Knautia shepardii* Post type specimen (Anonymous, 2021)



Figure 10. *Pteroccephalus shepardii* Post type specimen (Anonymous, 2021).

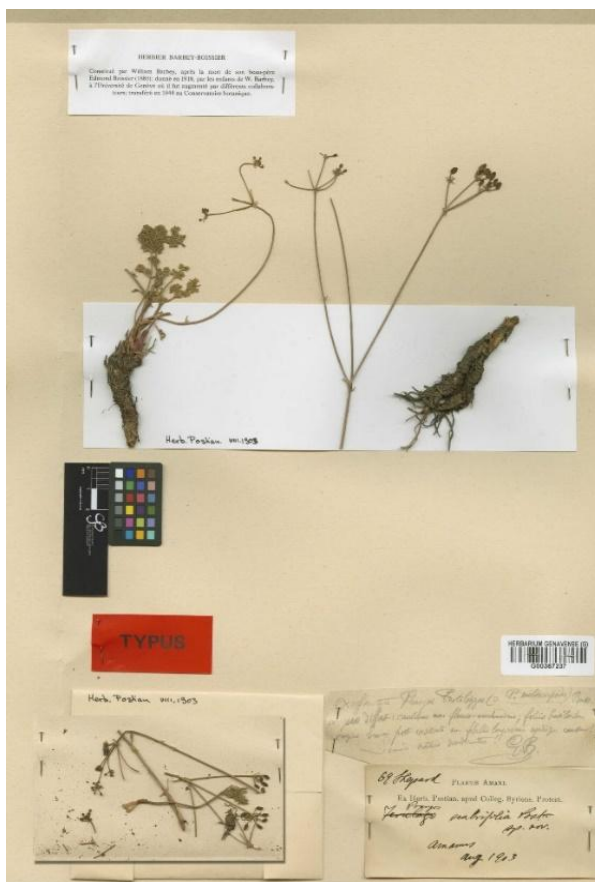


Figure 9. *Prangos scabrifolia* Post & Beauverd type specimen (Anonymoys, 2022).



Figure 11. *Astragalus aleppicus* Post type specimen (Anonymous, 2022).

Table 1. List of Shepard specimens in the American University of Beirut (Post Herbarium) (BEI) herbarium specimens

	Name	Status	Collection date	Accepted name	Col. No
1	<i>Achillea shepardii</i> Post	Synonymous	Shepard, summer 1886	<i>Tanacetum argenteum</i> (Lam.) Wild. subsp. <i>canum</i> (K.Koch) Grierson	-
2	<i>Alsine setacea</i> Thuill var. <i>puberulenta</i> Post	Synonymous	Shepard, summer 1892	<i>Minuartia setacea</i> (Thuill.) Hayek	-
3	<i>Anthemis flabellata</i> Post	Synonymous	Shepard vii.1891	<i>Anthemis kotschyana</i> Boiss. var. <i>kotschyana</i> H. Duman	-
4	<i>Anthemis tinctoria</i> L. <i>discoidea</i> (All.) DC.	Synonymous	Shepard, VIII.1891	<i>Cota tinctoria</i> (L.) J.Gay	93
5	<i>Asperula cymulosa</i> Post	Accepted	Shepard, vii.1891	<i>Asperula cymulosa</i> Post	87
6	<i>Astragalus barbeyanus</i> Post	Accepted	Shepard, vii.1891	<i>Astragalus barbeyanus</i> Post	72
7	<i>Hypericum laeve</i> Boiss.	Synonymous	Shepard, VI.1886	<i>Hypericum capitatum</i> Choisy var. <i>luteum</i> N.Robson	-
8	<i>Centaurea amani</i> Post	Synonymous	viii.1891, Shepard (BEI)	<i>Centaurea aggregata</i> Fisch. & C.A. Mey. ex DC. subsp. <i>aggregata</i>	95
9	<i>Centaurea cheiracantha</i> Fenzl. var. <i>latifolia</i> Post,	Synonymous	vii.1891, Shepard	<i>Centaurea cheirololpha</i> (Fenzl) Wagenitz	97
10	<i>Cirsium amani</i> Post	Accepted	ix.1891, Shepard	<i>Cirsium amani</i> Post	21
11	<i>Erigeron shepardii</i> Post	Synonymous	Shepard vii.1891	<i>Erigeron acris</i> L. subsp. <i>acris</i>	92
12	<i>Delphinium amani</i> Post	Synonymous	viii/ix.1892, Shepard	<i>Delphinium fissum</i> Waldst. & Kit. subsp. <i>anatolicum</i> Chowdhuri & P.H.Davis	295
13	<i>Ferulago kurdica</i> Post	Accepted	Mrs.Shepard vi.1885	<i>Ferulago kurdica</i> Post	-
14	<i>Ferulago blancheana</i> Post	Accepted	vii.1886, Shepard	<i>Ferulago blancheana</i> Post	-
15	<i>Fritillaria aintabensis</i> Post	Synonymous	iii.1889, Shepard	<i>Fritillaria imperialis</i> L.	-
16	<i>Hieracium barbeyi</i> Post	Accepted	Shepard vii.1891,	<i>Hieracium barbeyi</i> Post	104
17	<i>Ononis antiquorum</i> L. var. <i>leiosperma</i> (Boiss.) Post	Synonymous	Shepard vi.1886	<i>Ononis spinosa</i> L. subsp. <i>antiquorum</i> (L.) Briq.	28
18	<i>Ononis antiquorum</i> L. var. <i>longispina</i> Post	Synonymous	Shepard vi.1886	<i>Ononis spinosa</i> L. subsp. <i>antiquorum</i> (L.) Briq.	-
19	<i>Origanum amanum</i> Post	Accepted	Shepard viii/ix.1892	<i>Origanum amanum</i> Post	323
20	<i>Phaeopappus aintabicus</i> Post	Synonymous	Shepard 1889	<i>Centaurea lycopifolia</i> Boiss. & Kotschy	-
21	<i>Pterocephalus shepardii</i> Post & Beauverd	Accepted	Shepard viii.1903	<i>Pterocephalus shepardii</i> Post & Beauverd Dinsm.	-
22	<i>Pyrethrum depauperatum</i> Post	Synonymous	Shepard viii/ix.1892	<i>Tanacetum depauperatum</i> (Post) Grierson	328
23	<i>Rhynchosorys boissieri</i> Post	Accepted	Shepard vii.1891	<i>Rhynchosorys elephas</i> (L.) Griseb. subsp. <i>boissieri</i> (Post) R.B. Burb. & I. Richardson	114
24	<i>Scabiosa kurdica</i> Post	Accepted	Shepard	<i>Scabiosa kurdica</i> Post	18
25	<i>Sedum amani</i> Post	Synonymous	Shepard vii.1891	<i>Sedum cepaea</i> L.	79
26	<i>Serratula kurdica</i> Post	Synonymous	vi.1891, Shepard	<i>Klasea kurdica</i> (Post) Greuter & Wagenitz	-
27	<i>Sideritis montana</i> L. var. <i>xanthostegia</i> Post	Synonymous	summer 1886, Shepard	<i>Sideritis montana</i> L.	-
28	<i>Silene infedeli</i> Post	Synonymous	summer 1892, Shepard	<i>Silene spergulfolia</i> (Desf.) Bieb.	304
29	<i>Silene intricata</i> Post	Unknown	viii/ix.1892, Shepard	<i>Silene intricata</i> Post	302
30	<i>Thesium brachystegium</i> Post	Accepted	Shepard viii/ ix.1892	<i>Thesium brachystegium</i> Post	-
31	<i>Trigonella noeana</i> Boiss. var. <i>minor</i> Post	Synonymous	v.1886, Shepard	<i>Trigonella monantha</i> C.A. Meyer	-
32	<i>Verbascum aintabicum</i> Post	Synonymous	vi.1884, Shepard	<i>Verbascum glomeratum</i> Boiss.	-
33	<i>Anchusa aucheri</i> A.DC. <i>brunneo purpurea</i> Post	Synonymous	Shepard, V.1886	<i>Phyllocara aucheri</i> (A.DC.) Gusuleac	93
34	<i>Anemone blanda</i> Schott et Kotschy	Accepted	Shepard, IV.1889	<i>Anemone blanda</i> Schott et Kotschy	-
35	<i>Anthemis tinctoria</i> L. <i>discoidea</i>	Synonymous	Shepard, VIII.1891	<i>Cota tinctoria</i> (L.) J.Gay	132 (BEI)L
36	<i>Astragalus echinops</i> Auch	Accepted	Shepard, VI.1886	<i>Astragalus echinops</i> Aucher ex Boiss.	35
37	<i>Astragalus kotschyanus</i> Boiss.	Synonymous	Shepard, V.1887	<i>Astragalus aduncus</i> Willd.	10
38	<i>Astragalus neurocarpus</i> Boiss.	Endemic	Shepard, VI.1886	<i>Astragalus neurocarpus</i> Boiss.	34
39	<i>Astragalus tuberosus</i> DC.	Synonymous	Shepard, V.1886	<i>Astragalus suberosus</i> Banks & Sol.	25
40	<i>Biarum bovei</i> Decne	Accepted	Shepard, 1891	<i>Biarum bovei</i> Blume	-
41	<i>Bupleurum</i>	Accepted	Shepard, vii.1886	-	-
42	<i>Centaurea urvillei</i> DC.	Accepted	Shepard, VI.1886	<i>Centaurea urvillei</i> DC.	90
43	<i>Centaurea urvillei</i> DC.	Accepted	Shepard, 1885	<i>Centaurea urvillei</i> DC.	65
44	<i>Centaurea urvillei</i> DC.	Accepted	Shepard, IX.1891	<i>Centaurea urvillei</i> DC.	80
45	<i>Cercis siliquastrum</i> L.	Accepted	Shepard, VIII.1891	<i>Cercis siliquastrum</i> L.	35
46	<i>Convolvulus hirsutus</i> M. Bieb.	Synonymous	Shepard, 1884	<i>Convolvulus betonicifolius</i> Mill. subsp. <i>betonicifolius</i>	-
47	<i>Convolvulus hirsutus</i> M. Bieb.	Synonymous	Shepard, V.1886	<i>Convolvulus betonicifolius</i> Mill. subsp. <i>betonicifolius</i>	38
48	<i>Corydalis solida</i> Smith	Accepted	Shepard, 12.IV.1893	<i>Corydalis solida</i> (L.) Clairv	329
49	<i>Cotyledon tuberosa</i> (L.) Halacsy	Synonymous	Shepard, VII.1886	<i>Umbilicus rupestris</i> (Salisb.) Dandy	165

50	<i>Echinophora tenuifolia</i> L.	Accepted	Shepard, VI.1886	<i>Echinophora tenuifolia</i> L.	136
51	<i>Eremostachys laciniata</i> L.	Synonymous	Shepard, V.1887	<i>Phlomoides laciniata</i> (L.) Kamelin & Makhm.	73
52	<i>Eremostachys laciniata</i> L.	Synonymous	Shepard, V.1887	<i>Phlomoides laciniata</i> (L.) Kamelin & Makhm.	
53	<i>Eremostachys laciniata</i> L.	Synonymous	Shepard, 27.IV.1886	<i>Phlomoides laciniata</i> (L.) Kamelin & Makhm.	
54	<i>Euphorbia macroclada</i> Boiss.	Accepted	Shepard, 1884	<i>Euphorbia macroclada</i> Boiss.	
55	<i>Euphorbia denticulata</i> Lam.	Accepted	Shepard, 11.IV.1893	<i>Euphorbia denticulata</i> Lam.	75
56	<i>Euphorbia denticulata</i> Lam.	Accepted	Shepard, VIII	<i>Euphorbia denticulata</i> Lam.	47
57	<i>Eryngium campestre</i> L.	Accepted	Shepard, VIII.1903	<i>Eryngium campestre</i> L.	270
58	<i>Alkanna syriaca</i> Boiss.	Accepted	Shepard, 1885	<i>Alkanna syriaca</i> (Boiss. & Hohen.) Boiss.	-
59	<i>Allium sphaerocephalum</i> L.	Accepted	Shepard	<i>Allium sphaerocephalum</i> L.	-
60	<i>Arundo donax</i> L.	Accepted	Shepard, V.1887	<i>Arundo donax</i> L.	-
61	<i>Galium articulatum</i> L.	Synonymous	Shepard, V.1877	<i>Galium rubioides</i> L.	
62	<i>Garidella unguicularis</i> Lam.	Synonymous	Shepard, V.1885	<i>Nigella unguicularis</i> (Poir.) Spenn.	
63	<i>Garidella unguicularis</i> Lam.	Synonymous	Shepard, 1885	<i>Nigella unguicularis</i> (Poir.) Spenn.	
64	<i>Geranium trilophum</i> Boiss. <i>maculatum</i> Bornm.	Synonymous	Shepard, IV.1889	<i>Geranium gracile</i> Ledeb. ex Nordm.	14
65	<i>Helichrysum plicatum</i> DC.	Accepted	Shepard, VIII.1903	<i>Helichrysum plicatum</i> DC.	167
66	<i>Hesperis aintabica</i> Post	Accepted	Shepard, IV.1886	<i>Hesperis aintabica</i> Post	-
67	<i>Hypericum acutum</i> Moench.	Synonymous	Shepard, VII.1891	<i>Hypericum tetrapterum</i> Fr.	75
68	<i>Hypericum spectabile</i> Jaub.& Spach.	Accepted	Shepard, VI.1886	<i>Hypericum spectabile</i> Jaub.& Spach.	1887
69	<i>Iris histrio</i> Reich	Accepted	Shepard, III	<i>Iris histrio</i> Rchb.f.	-
70	<i>Iris histrio</i> Rchb.f.	Accepted		<i>Iris histrio</i> Rchb.f.	-
71	<i>Iris pseudacorus</i> var. <i>ochroleuca</i> Pete	Synonymous	Shepard, 13.IV.1885	<i>Iris pseudacorus</i> L.	-
72	<i>Juncus kotschy</i> Boiss.	Synonymous	Shepard, IV.1889	<i>Juncus fontanesii</i> J.Gay ex Laharpe subsp. <i>kotschy</i> (Boiss.) Snogerup	115
73	<i>Lepidium latifolium</i> L.	Accepted	Shepard, VII.1886	<i>Lepidium latifolium</i> L.	3
74	<i>Lisaea syriaca</i> Boiss.	Accepted	Shepard, VI.1891	<i>Lisaea syriaca</i> Boiss.	103
75	<i>Lithospermum arvense</i> L.	Synonymous	Shepard, V.1884	<i>Buglossoides arvensis</i> (L.) I.M. Johnst.	232
76	<i>Medicago lupulina</i> L.	Accepted	Shepard, VII.1891	<i>Medicago lupulina</i> L.	34
77	<i>Medicago lupulina</i> L.	Accepted	Shepard, VII.1903	<i>Medicago lupulina</i> L.	24
78	<i>Medicago truncatula</i> Gaertn. <i>tribuloides</i> Desr.	Synonymous	Shepard, V.1886	<i>Medicago truncatula</i> Gaertn.	32
79	<i>Onobrychis cadmea</i> Boiss.	Synonymous	Shepard, VII.1903	<i>Onobrychis montana</i> DC. subsp. <i>cadmea</i> (Boiss.) P.W. Ball	72
80	<i>Onopordum illyricum</i> L.	Accepted	Shepard, 1885	<i>Onopordum illyricum</i> L.	63
81	<i>Onosma sericea</i> Willd.	Accepted	Shepard, V.1884	<i>Onosma sericea</i> Willd.	546
82	<i>Phlomis rigida</i> L.	Accepted	Shepard, VI.1885	<i>Phlomis rigida</i> L.	
83	<i>Poa bulbosa</i> L.	Accepted	Shepard, V.1887	<i>Poa bulbosa</i> L.	
84	<i>Poa macroglossa</i> Hack	Synonymous	Shepard, VIII.1891	<i>Poa timoleonis</i> Heldr. ex Boiss.	
85	<i>Poa persica major</i> Boiss.	Synonymous	Shepard, V.1887	<i>Eremopoa persica</i> (Trin.) Roshev.	
86	<i>Polygonum bellardi</i> All.	Accepted	Shepard, 1884	<i>Polygonum bellardi</i> All.	
87	<i>Potentilla raptans</i> L.	Accepted	Shepard, 1886	<i>Potentilla raptans</i> L.	37
88	<i>Prunella vulgaris</i> L.	Accepted	Shepard, VII.1903	<i>Prunella vulgaris</i> L.	175
89	<i>Rhagadiolus stellatus</i> L.	Accepted	Shepard, 1885	<i>Rhagadiolus stellatus</i> (L.) Gaertn.	51
90	<i>Rosa canina</i> L.	Accepted	Shepard, VIII.1891	<i>Rosa canina</i> L.	88
91	<i>Teucrium multicaule</i> Montbret & Aucher ex Benth.	Accepted	Shepard, V.1884	<i>Teucrium multicaule</i> Montbret & Aucher ex Benth.	
92	<i>Teucrium parviflorum</i> Schreb	Accepted	Shepard, VI.1884	<i>Teucrium parviflorum</i> Schreb	
93	<i>Trifolium nervulosum</i> Boiss. et Heldr.	Accepted	Shepard, IV.1889	<i>Trifolium nervulosum</i> Boiss. & Heldr.	129
94	<i>Trigonella coelesyriaca</i> Boiss.	Synonymous	Shepard, V.1887	<i>Trigonella caelesyriaca</i> Boiss.	8
95	<i>Trigonella coelesyriaca</i> Boiss.	Synonymous	Shepard, IV.1889	<i>Trigonella caelesyriaca</i> Boiss.	
96	<i>Trigonella crassipes</i> Boiss.	Synonymous	Shepard, V.1887	<i>Medicago crassipes</i> (Boiss.) E.Small	12
97	<i>Trigonella radiata</i> L.	Synonymous	Shepard, 1886	<i>Medicago radiata</i> L.	21
98	<i>Tulipa praecox</i> Ten.	Synonymous	Shepard, IV.	<i>Tulipa agenensis</i> DC.	B-456
99	<i>Queria hispanica</i> L.	Synonymous	Shepard, V.1887	<i>Minuartia hamata</i> (Hausskn.) Mattf.	56
100	<i>Queria hispanica</i> L.	Synonymous	Shepard, IV.1889	<i>Minuartia hamata</i> (Hausskn.) Mattf.	114
101	<i>Vaccaria pyramidata</i>	Synonymous	Shepard, IV.1889	<i>Vaccaria hispanica</i> (Mill.) Rauschert	27
102	<i>Valerianella orientalis</i> Sch.	Accepted	Shepard, IV.1889	<i>Valerianella orientalis</i> Boiss. & Balansa	79
103	<i>Verbascum aintabicum</i> Post	Synonymous	Shepard, VI.1884	<i>Verbascum glomeratum</i> Boiss.	
104	<i>Verbascum aintabicum</i> Post	Synonymous	Shepard, VI.1884	<i>Verbascum glomeratum</i> Boiss.	
105	<i>Verbascum aintabicum</i> Post	Synonymous	Shepard, VI.1884	<i>Verbascum glomeratum</i> Boiss.	
106	<i>Verbascum aintabicum</i> Post	Synonymous	Shepard, 7.IV.1893 (BEI)L	<i>Verbascum glomeratum</i> Boiss.	
107	<i>Xeranthemum inapertum</i> L.	Accepted	Shepard, 1885	<i>Xeranthemum inapertum</i> (L.) Mill.	54
108	<i>Ziziphora tenuior</i> L.	Accepted	Shepard, IV.1889	<i>Ziziphora tenuior</i> L.	

Table 2. Shepard specimens in the Geneva Herbarium

Name	Status	Collection Date	Accepted name	Herbarium No	Coll. No
1 <i>Achillea shepardii</i> Post	Synonymous	Shepard summer 1886	<i>Tanacetum argenteum</i> (Lam.) Wild. subsp. <i>canum</i> (K.Koch) Grierson		
2 <i>Campanula shepardii</i> Post	Synonymous		<i>Campanula postii</i> (Boiss.) Engl.		
3 <i>Knautia shepardii</i> Post & Beauverd	Accepted	Shepard, 1903	<i>Knautia shepardii</i> Post & Beauverd	TSIB number: 268295/2, (G)	217
4 <i>Knautia shepardii</i> Post & Beauverd	Accepted	Shepard, 1903	<i>Knautia shepardii</i> Post & Beauverd	Typus, SIB number: 268295/1, (G) (2 sheets)	217i
5 <i>Prangos scabrifolia</i> Post & Beauverd	Accepted	Shepard, Aug. 1903	<i>Prangos scabrifolia</i> Post & Beauverd	SIB number: 262553/1, (G)	69
6 <i>Pterocephalus shepardii</i> Post & Beauverd	Endemic Accepted	Shepard, 1903, Typus	<i>Pterocephalus shepardii</i> Post & Beauverd	SIB number: 272246/1, (G) G00360149 (2 sheets)	79
7 <i>Centaurea shepardii</i> Post	Synonymous	Shepard July, 1903 Typus	<i>Centaurea lycopifolia</i> Boiss. & Kotschy	G00016436	230
8 <i>Erigeron shepardii</i>	Synonymous	Shepard July, 1891	<i>Erigeron acris</i> L. subsp. <i>acris</i>	G00273725	92
1 <i>Achillea shepardii</i> Post	Synonymous	Shepard summer 1886	<i>Tanacetum argenteum</i> (Lam.) Wild. subsp. <i>canum</i> (K.Koch) Grierson		
2 <i>Campanula shepardii</i> Post	Synonymous		<i>Campanula postii</i> (Boiss.) Engl.		
1 <i>Astragalus shepardii</i> Post	Synonymous	Post, G.E., 1891, Typus	<i>Astragalus aleppicus</i> Boiss.	SIB number: 278804/3, (G)	11
2 <i>Medicago shepardii</i> Post ex Boiss.	Endemic Accepted	Post, 1884 Typus	<i>Medicago shepardii</i> Post ex Boiss.	SIB number: 276097/2 (G)	
3 <i>Medicago shepardii</i> Post ex Boiss.	Endemic Accepted	Post, 1891 Typus	<i>Medicago shepardii</i> Post ex Boiss.	SIB number: 403703/1 (G)	2
4 <i>Medicago shepardii</i> Post ex Boiss.	Endemic Accepted	Post, Spring 1891, Typus	<i>Medicago shepardii</i> Post ex Boiss.	SIB number: 276097/1 (G)	
5 <i>Paracaryum shepardii</i> Post & Beauverd	Endemic Accepted	Post, G.E., 1903, Typus	<i>Paracaryum shepardii</i> Post & Beauverd	SIB number: 185717/1, (G)	272
5 <i>Paracaryum shepardii</i> Post & Beauverd	Endemic Accepted	Post, G.E., 1903, Typus	<i>Paracaryum shepardii</i> Post & Beauverd	SIB number: 185717/1, (G)	272

Table 3. Shepard specimens in The Natural History Museum Herbarium

Name	Status	Coll. Date	Accepted name	Coll. No
1 <i>Asperula cymulosa</i> (Post) Post	Endemic Accepted	vii.1891, Shepard	<i>Asperula cymulosa</i> (Post) Post	87
2 <i>Ferulago blancheana</i> Post	Endemic Accepted	vii.1891, Shepard	<i>Ferulago blancheana</i> Post	87
3 <i>Astragalus shepardii</i> Post	Synonymous	Post vi, 1891	<i>Astragalus pisidicus</i> Boiss. & Heldr. subsp. <i>shepardii</i> (Post) Ponert	

Table 4. Specimens found at The New York Botanical Garden (New York, USA) (NY)

Name	Status	Coll. Date	Accepted name	Herbarium No	Coll. No
1 <i>Papaver somniferum</i> L.	Accepted	F. Shepard, 1882-1883	<i>Papaver somniferum</i> L.	NY Barcode: 1414492	
2 <i>Solidago ulmifolia</i> Muhl. & Cronquist var. <i>ulmifolia</i>	Synonymous	F. Shepard, s.n., Aug. 27	<i>Solidago ulmifolia</i> Muhl. & Willd.	NY Barcode: 2373586	89
3 <i>Anacamptis sancta</i> (L.) M.Bateman, Pridgeon & M.W.Chase		F. Shepard s.n. May 1884			
4 <i>Ophrys lutea</i> Cav.		F. Shepard, 1884			

Shepard specimens at Wellesley College (WELC) and The New York Botanical Garden (NY) Herbarium

While 288 plant duplicates from the Shepard collection collected between 1882 and 1884 are in Wellesley College, Massachusetts (USA) (WELC), these plant specimens were

transferred to The New York Botanical Garden (New York, USA) (NY) in 1988 (Zanoni and Whalen, 1995). However, according to our research in the herbarium catalogue, there are only 4 records of Shepard in NY (Table 4) (Fig. 12; 13; 14).

Shepard specimens at the Royal Botanic Gardens (K) Herbarium

It was determined that there were 5 plant specimens collected by Shepard in the Royal Botanic Gardens (K) herbarium (Table 5).



Figure 12. *Solidago ulmifolia* Muhl. & Cronquist. example of ulmifolia



Figure 13. *Himantoglossum hircinum* subsp. *affine* (Anonymous, 2022m)

Shepard specimens at the Royal Botanic Garden Edinburgh (E) Herbarium

There is one plant specimen collected by Shepard at the Royal Botanic Garden Edinburgh (E) (Table 6).



Figure 14. *Hesperis aintabica* Post (Anonymous, 2022n)

Shepard specimens at the Smithsonian Institution
(National Museum of Natural History) Herbarium (US)

It was determined that there were 38 plant specimens collected by Shepard in the Smithsonian Institution (National Museum of Natural History) Herbarium (US) (Table 7).

3. Results and Discussion

Fanny A. Shepard was an American medical doctor who lived in Gaziantep between 1882-1919. Together with her husband, Dr. Frederick Douglas Shepard, she worked as a faculty member in the Department of Medicine at Aintab Central Turkey College. Fanny Andrews Shepard (1856-1920), collected plants from Gaziantep and its surroundings, Nur and Amanos Mountains. She was the first female lecturer and plant collector to give Medical Botany lessons in Türkiye and create a collection of Turkish herbs.

In our study, plant specimens collected by F.A. Shepard from Gaziantep and its surroundings were investigated in international herbariums, and it was determined that the specimens were found in BEL, G, NY, BM, K, E and US herbariums. It was determined that plant specimens belonging to Shepard were not found as a separate

Table 5. Shepard specimens in the Royal Botanic Gardens (K) herbarium

Name	Status	Coll. No & Date	Accepted name	Herbarium No	Coll. No
1 <i>Delphinium amani</i> Post	Synonymous	F.Shepard, 1892	<i>Delphinium fissum</i> Waldst. & Kit	Barcode Id: K000692415	295
2 <i>Hesperis aintabica</i> Post	Endemic	F.Shepard, s.n., april 1886 Typus	<i>Hesperis podocarpa</i> Boiss.	Barcode Id: K000693678	188
3 <i>Himantoglossum hircinum</i> subsp. <i>affine</i> (Boiss.) H.Sund.	Synonymous	F.Shepard, 05/1887	<i>Himantoglossum affine</i> (Boiss.)Schltr.	Barcode Id: K000796435	73
4 <i>Silene intricata</i> Post	Unknown	F. Shepard, 08/1892		Barcode Id: K000728450	302
5 <i>Viola amani</i> Post	Accepted	F. Shepard, 07/1891	<i>Viola amani</i> Post	Barcode Id: K000370084	110

Table 6. Shepard specimens in the Royal Botanic Garden Edinbrugh (E) herbarium

Name	Status	Coll. Date	Accepted name	Herbarium No	Coll. No
1 <i>Bunium nudum</i> (Post) H.Wolff	Accepted	Shepard, July 1885	<i>Bunium nudum</i> (Post) H.Wolff	Barcode: E00780875, (E)	137

Table 7. Specimens collected by Shepard in the Smithsonian National Museum of Natural History Herbarium

Name	Status	Coll. Date	Accepted name	Herbarium No	Coll. No
1 <i>Alyssum campestre</i> (L.) L.	Synonymous	Shepard, F.P.	<i>Alyssum alyssoides</i> (L.) L.	US Catalog No.: 805763 Barcode: 03762228	297
2 <i>Aristolochia maurorum</i> L.	Accepted	Shepard, F.P.; s.n.	<i>Aristolochia maurorum</i> L.	US Catalog No.: 805762 Barcode: 01183385	
3 <i>Astragalus shepardii</i> Post	Synonymous	Shepard, F.P.; s.n.	<i>Astragalus pisidicus</i> subsp. <i>shepardii</i> (Post) Ponert	US Catalog No.: 805764 Barcode: 01108155	
4 <i>Buglossoides incrassata</i> (Guss.) I.M. Johnst.	Accepted	Shepard, F.P.	<i>Buglossoides incrassata</i> (Guss.) I.M. Johnst.	US Catalog No.: 805776 Barcode: 02915549	280
5 <i>Centaurea macrolopha</i> Fenzl ex Boiss.	Synonymous	Shepard, Mrs. s.n.	<i>Centaurea drabifolia</i> subsp. <i>floccosa</i> (Boiss.) Wagenitz & Greuter (Endemic)	US Catalog No.: 805767 Barcode: 02162099	
6 <i>Chardinia xeranthemoides</i> Desf.	Synonymous	Shepard, F.P.	<i>Chardinia orientalis</i> (L.) Kuntze	US Catalog No.: 805768 Barcode: 02153770	294
7 <i>Chondrilla juncea</i> L.	Accepted	Shepard, F.P. s.n.	<i>Chondrilla juncea</i> L.	US Catalog No.: 805766 Barcode: 00916500	
8 <i>Crepis pulchra</i> L.	Accepted	Shepard, F.P.	<i>Crepis pulchra</i> L.	US Catalog No.: 805765 Barcode: 02178315	292
9 <i>Ferulago blancheana</i> Post ex Boiss.	Accepted Endemic	Shepard, F.P.	<i>Ferulago blancheana</i> Post ex Boiss.	US Catalog No.: 805771 Barcode: 03092752	289
10 <i>Gladiolus atroviolaceus</i> Boiss.	Synonymous	Shepard, F.P.	<i>Gladiolus atroviolaceus</i> Boiss.	US Catalog No.: 805772 Barcode: 03947381	300
11 <i>Holosteum umbellatum</i> L.	Accepted	Shepard, F.P.	<i>Holosteum umbellatum</i> L.	US Catalog No.: 1391198 Barcode: 03604124	335?
12 <i>Lens montbretii</i> (Fisch. & C.A. Mey.) P.H. Davis & Plitmann	Synonymous	Shepard, F.P.	<i>Vicia montbretii</i> Fisch. & C.A.Mey.	US Catalog No.: 805770 Barcode: 02440225	273
13 <i>Medicago sativa</i> L.	Accepted	Shepard, F.P.	<i>Medicago sativa</i> L.	US Catalog No.: 1336939 Barcode: 02293099	330
14 <i>Medicago truncatula</i> Gaertn.	Accepted	Shepard, Mrs.	<i>Medicago truncatula</i> Gaertn.	US Catalog No.: 1336935 Barcode: 02294389	329
15 <i>Muscari neglectum</i> Guss. ex Ten.	Accepted	Shepard, Mrs.; s.n.	<i>Muscari neglectum</i> Guss. ex Ten.	US Catalog No.: 805777 Barcode: 03960472	
16 <i>Nepeta nuda</i> L.	Accepted	Shepard, F.P.	<i>Nepeta nuda</i> L.	US Catalog No.: 805778 Barcode: 02772066	295
17 <i>Ononis spinosa</i> L.	Accepted	Shepard, F.P.	<i>Ononis spinosa</i> L.	US Catalog No.: 805781 Barcode: 02292373	274
18 <i>Onosma caeruleascens</i> Boiss.	Accepted	Shepard, Mrs.; s.n.	<i>Onosma caeruleascens</i> Boiss.	US Catalog No.: 805780 Barcode: 02915868	
19 <i>Onosma flava</i> Vatke ex Boiss.	Synonymous	Shepard, F.P.	<i>Onosma sericea</i> Willd.	US Catalog No.: 805779 Barcode: 02915922	278
20 <i>Pisum sativum</i> L.	Accepted	Shepard;	<i>Pisum sativum</i> L.	US Catalog No.: 805784 Barcode: 02333882	327
21 <i>Potentilla recta</i> L.	Accepted	Shepard, Mrs.; s.n.	<i>Potentilla recta</i> L.	US Catalog No.: 805783 Barcode: 03743872	

22	<i>Potentilla recta</i> L.	Accepted	Shepard, Mrs.	<i>Potentilla recta</i> L.	US Catalog No.: 805782 Barcode: 03743878	288
23	<i>Scandix iberica</i> M. Bieb.	Accepted	Shepard, F.P.	<i>Scandix iberica</i> M. Bieb.	US Catalog No.: 805786 Barcode: 03078117	285
24	<i>Scandix pecten-veneris</i> L.	Accepted	Shepard, F.P.	<i>Scandix pecten-veneris</i> L.	US Catalog No.: 805785 Barcode: 03078098	284
25	<i>Silene conoidea</i> L.	Accepted	Shepard, F.P.	<i>Silene conoidea</i> L.	US Catalog No.: 1418564 Barcode: 03633957	334
26	<i>Symphytum palaestinum</i> Boiss.		Shepard, F.P.	<i>Symphytum brachycalyx</i> Boiss.	US Catalog No.: 805787 Barcode: 02910097	279
27	<i>Trifolium scabrum</i> L.	Accepted	Shepard, F.P.; s.n.	<i>Trifolium scabrum</i> L.	US Catalog No.: 805790 Barcode: 02305424	
28	<i>Trifolium spumosum</i> L.	Accepted	Shepard, F.P.	<i>Trifolium spumosum</i> L.	US Catalog No.: 805791 Barcode: 02305411	271
29	<i>Trigonella kotschy</i> Fenzl ex Boiss.	Accepted	Shepard, F.P.	<i>Trigonella kotschy</i> Fenzl ex Boiss.	US Catalog No.: 805788 Barcode: 02292609	328
30	<i>Turgenia latifolia</i> Hoffm.	Accepted	Shepard, F.P.; s.n.	<i>Turgenia latifolia</i> Hoffm.	US Catalog No.: 805789 Barcode: 03079492	
31	<i>Veronica hederifolia</i> L.	Accepted	Shepard	<i>Veronica hederifolia</i> L.	US Catalog No.: 805795 Barcode: 03890115	281
32	<i>Veronica orientalis</i> Mill.	Accepted		<i>Veronica orientalis</i> Mill.	US Catalog No.: 805793 Barcode: 03890358	283
33	<i>Veronica syriaca</i> Roem. & Schult.	Accepted	Shepard, F.P.; s.n.	<i>Veronica syriaca</i> Roem. & Schult.	US Catalog No.: 805794 Barcode: 03890458	
34	<i>Vicia angustifolia</i> L.	Synonymous	Shepard, F.P.	<i>Vicia sativa</i> subsp. <i>nigra</i> (L.) Ehrh.	US Catalog No.: 1364186 Barcode: 02438651	332
35	<i>Vicia noeana</i> Boiss.	Accepted	Shepard, F.P.	<i>Vicia noeana</i> Boiss. & Reut. ex Boiss.	US Catalog No.: 805796 Barcode: 02439705	270
36	<i>Vicia sericocarpa</i> Fenzl	Accepted	Shepard, F.P.	<i>Vicia sericocarpa</i> Fenzl	US Catalog No.: 1364210 Barcode: 02439876	333
37	<i>Vicia</i> sp.		Shepard, Mrs.		US Catalog No.: 1364192 Barcode: 02440063	331
38	<i>Viola modesta</i> House	Accepted	Shepard, F.P.; s.n.	<i>Viola modesta</i> House	US Catalog No.: 805792 Barcode: 03020110	

collection, but dispersed in the herbarium. Approximately 300 plant specimens collected by F.A. Shepard from Gaziantep and its environs between 1882-1915 were located in Wellesley College Herbarium, Massachusetts USA (WELC), and the specimens were later transferred to NY. Today, these specimens are in the US herbarium, and

the type specimens are in the Geneva (G) herbarium. G.E Post published herbs including Shepard's herbs in Bulletin de l'Herbier and Flora Syria, Palestina and Sinai.

Until now, it was not known exactly how many specimens Shepard had in her collection. However, in our study, it was

Table 8. Taxa bearing the Shepard epithet

1	<i>Papaver shepardii</i> Post ex Dinsm. Fl. Syr. 1:32 (1932).
2	<i>Astragalus shepardii</i> Post, Pl. Postianae 1:6 (1890), 4:5 (1892). (Synonymous) <i>Astragalus shepardii</i> Post is a synonym of <i>Astragalus pisidicus</i> subsp. <i>shepardii</i> (Post) Ponert
3	<i>Medicago shepardii</i> Post ex Boiss. Fl. Or. Suppl. 163 (1888). (Endemic)
4	<i>Erigeron shepardii</i> Post, Herb. Boiss. 1:22 (1893). (Synonymous) <i>Erigeron shepardii</i> Post is a synonym of <i>Erigeron acris</i> L. subsp. <i>acris</i>
5	<i>Achillea shepardii</i> Post in J. Linn. Soc. (Bot.) 24:433 (1888). (Synonymous) <i>Achillea shepardii</i> Post is a synonym of <i>Tanacetum argenteum</i> subsp. <i>canum</i> (K.Koch) Grierson
6	<i>Pyrethrum shepardii</i> (Post) Post Herb. Boiss. 3:158 (1895).
7	<i>Centaurea shepardii</i> Post et Beauverd, Pl. Postianae et Dinsmoriana 1:7 (1932). (Synonymous) <i>Centaurea shepardii</i> Dinsm. is a synonym of <i>Centaurea lycopifolia</i> Boiss. & Kotschy ex Boiss. & Kotschy
8	<i>Campanula shepardii</i> Post in Bull. Herb. Boiss. 1:25 (1893). (Synonymous) <i>Campanula shepardii</i> Post is a synonym of <i>Campanula postii</i> (Boiss.) Harms
9	<i>Paracaryum shepardii</i> Post et Beauverd, Pl. Postianae et Dinsmoriana 1:8 (1932). (Endemic)
10	<i>Verbascum shepardii</i> Post, Fl. Syr. 20 (1896). (Synonymous) <i>Verbascum shepardii</i> Post is a synonym of <i>Verbascum cheiranthifolium</i> var. <i>cataonicum</i>
11	<i>Phlomis shepardii</i> Post, Fl. Syr. 658 (1896). (Synonymous) <i>Phlomis shepardii</i> Post is a synonym of <i>Phlomis rigida</i> Labill.
12	<i>Nepeta shepardii</i> Post in J. Linn. Soc. (Bot.) 24:439 (1888). (Synonymous) <i>Nepeta shepardii</i> Post is a synonym of <i>Clinopodium congestum</i> (Boiss. & Hausskn.) Kuntze
13	<i>Micromeria shepardii</i> (Post) Post in bull. Herb. Boiss. Ser.1, 1:405 (1893). (Synonymous) <i>Micromeria shepardii</i> (Post) Post is a synonym of <i>Clinopodium congestum</i> (Boiss. & Hausskn.) Kuntze
14	<i>Asperula shepardii</i> in herb.
15	<i>Galium shepardii</i> Post, Fl. Syr. 15 (1896). (Endemic)
16	<i>Knautia shepardii</i> Post & Beauverd, Pl. Postianae et Dinsmoriana 1:7 (1932). (Endemic)
17	<i>Pterocephalus shepardii</i> Post & Beauverd, Pl. Postianae et Dinsmoriana 1:7 (1932). (Endemic)

seen that there were herbarium specimens with 335 collector numbers in the Smithsonian Institution Herbarium (US). This makes us think that there are around 350 plant specimens in Shepard's collection. As a result of scanning the catalogs of American University of Beirut (BEI), The New York Botanical Garden (NY) and Conservatoire et Jardin botaniques de la Ville de Genève (G), The Natural History Museum, London (BM), Royal Botanic Gardens (K), Royal Botanic Garden Edinburgh (E), Smithsonian Institution (US) herbariums, it was determined that of 164 plant specimens belonging to the Shepard collection were 106 in BEI, 8 in G, 2 in BM, 4 in NY, 5 in K, 1 in E, 38 in US.

When the specimens with the shepardii epithet dedicated to F. A. Shepard's name in BEI, BM, G, E, NY, K and US herbariums were examined, it was observed that a total of 17 plants were given the shepardii / shepardii epithet after Shepard's name (Table 8).

It has been determined that there are 5 endemic plant taxa named after Mrs. Shepard, and there are 4 more taxa collected and defined as endemic by Mrs. Shepard. Ten plant taxa were introduced to the scientific world by Mrs Shepard.

Nine of the plants collected by F.A. Shepard were found to be endemic, and five of these endemic taxa bear Shepard's

name. Looking at the current endemism status of these endemic taxa, *Ferulago blancheana* Post, *Galium shepardii* Post & Beauverd, *Knautia shepardii* Post & Beauverd, and *Medicago shepardii* Post ex Boiss. *Ferulago blancheana* Post, *Galium shepardii* Post, *Knautia shepardii* Post & Beauverd are distributed in Lebanon, Syria, and Türkiye, their endemic status has changed and they are no longer endemic, *Hesperis aintabica* Post is a synonym of *Hesperis podocarpa* Boiss. is a synonym of the species *Hesperis podocarpa* Boiss., the genus name of the species *Paracaryum shepardii* Post et Beauverd has changed and is now *Mattiastrum shepardii* (Post & Beauverd) Valdés, and the endemic status of the species *Asperula cymulosa* Post continues.

Conflict of Interest

Authors have declared no conflict of interest.

Authors' Contributions

The authors contributed equally.

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