

دراسة مظهرية مقارنة للجنس *Senecio* L. (Composite) في العراق

Senecio L.

S. cineraria

compositae	<i>Senecio</i> L.		
26 Species plantarum	(1753) Linnaeus		
tribes	(Bentham, 1873)		
(Boissier, 1875)	.Senecionoae		
	72 sections		
16 series	(Jeffery <i>et al.</i> , 1972)		
.Macro & Micromorphological characters			
(Jeffery & Ling,	(Chater & Walters, 1976)	(Matthews, 1976)	
		1984)	
	<i>Senecio</i>		
	(Al-Rawi & Chakravarty, 1964)		
	(Kotb, 1985)		
(Karim & Quraan, 1986)			
(Oran & Al-Eisawi, 1998)			
(Zohary,	(Handle-Mazzetti, 1910)	-	
.(Al-Rawi, 1964)	(Rechinger, 1964)	(Blackelock, 1949)	1946)

(BSRA, BUNH, BUE, BUA,

BUH)

Olympus

Senecio

Wild Camera Lucida

S. doriiformous, S. desfontainei, S. cineraria, S. :

eriospermous, S. vulgaris, S. vernalis, S. paucilobous, S. othonnae, S. mollis.

Senecio

shrubby

sub shrubby

S. cineraria

.Tap Root

Senecio

S. cineraria S. vulgaris

Erect

S. desfontainei S. vernalis

.Ascending

S. mollis

(126.5-36.5)

(29.5)

S. doriiformous S. cineraria S. eriospermous S. othonnae

S. S. paucilobous

S. S. cineraria

S. doriiformous S. othonnae mollis

eriospermous

Striate

S.

Woolly

S. doriiformous

S. eriospermous cineraria

petiolate

S. cineraria S. eriospermous S. paucilobous

(1.5-0.3×2.5-0.8)

S. cineraria

(7-1.8×19.5-6.5) *S. desfontainei*

S. vernalis (2.8–0.3×6.3–0.5)
S. cineraria (7–1.5×19.5–6.5)
S. doriiformous
S. cineraria
S. vulgaris S. vernalis
S. mollis S. othonnae - *S. desfontainei*
- *S. paucilobous S. doriiformous eriospermous*

Racemose *Senecio*
S. paucilobous Compound Corymbos
S. cineraria S. othonnae
Tubular Discoïd
S. vulgaris Hermaphrodite Homogamous
Heterogamous Radiate *S. paucilobous*

Flat Naked
Convex *S. cineraria S. vernalis S. vulgaris*

.phyllaries

S. desfontainei (11) (0.7)
.paucilobous

(10)

(10) *S. eriospermous S. cineraria S. othonnae S. paucilobous*

(20-7) *S. vernalis S. vulgaris S. mollis S. desfontaine*

S. cineraria S. paucilobous S. vulgaris (2)

(2)

Linner

S. eriospermous

Lanceolate-Linner

S. vernalis *S. vulgaris* Black tipped
S. mollis *S. defontainei*

Senecio

S. doriiformous *S. cineraria* *S. othonnae*
 (6.5-5) *S. paucilobous* (4.25-3.5)

S. defontainei - *S. mollis* *S. paucilobous* oblong
 - *S. vernalis* *S. eriospermous* *S. othonnae*
S. vulgaris

S. paucilobous *S. eriospermous* *S. cineraria*

Senecio

Hermaphrodite Tubular florets Homogamous

S. paucilobous *S. vulgaris*

Discflorets Heterogamuos

Fertile Ray florets

A

Scabrous

-

Caducous

Persisten *S. vulgaris* *S. vernalis* *S. defontainei*

(5.5-2.5)

B

Tube

(2.75-0.75)

S. eriospermous (4-3) *S. defontainei*

Ligule

- Obtuse-acute - Obtuse

S. eriospermous

(1.4-1.20×3.75-3)

S. eriospermous (1.7-1.5×11.5-10) *S. vernalis*

	Limb	Corolla tube	
(5) <i>S. eriospermous</i>	<i>S. paucilobous</i>		(4)
S.	(0.25 – 0.2 × 0.3 – 0.25)		
	<i>S. paucilobous</i>	(0.5 – 0.4 × 0.75 – 0.5)	<i>vulgaris</i>
(0.2 – 0.1 × 3.5 – 3.25)	<i>S. desfontainei</i>	(0.2 – 0.1 × 2.5 – 0.75)	
S.	()		<i>S. doriiformous</i>
	(0.6 – 0.4 × 7.5 – 6.75)		<i>doriiformous</i>
S.			.
			<i>eriospermous</i>

.C

Stigmatic style

pistil

	<i>S. cineraria</i>	<i>S. mollis</i>	Trifids
<i>S. mollis</i>	(5-3.5)	<i>S. desfontainei</i>	(3.75-1.5)
(7.25-6)	<i>S. vernalis</i>	(3.5-1.5)	
			<i>S. othonnae</i>

<i>S. vernalis</i>	(1.5-0.4)	<i>S. cineraria</i>	(0.5-0.4)
(2.25-1)	<i>S. cineraria</i>	(0.75-0.4)	

S. paucilobous

.D

S. eriospermous *S. paucilobous*

Staminal cylinder

Syngenesious

Basifixed

Hasitate

Sagittate

-

sterile appendage

Anther collar

<i>S. cineraria</i>	<i>S. mollis</i>	<i>S. desfontaiuei</i>	<i>S. vulgaris</i>
<i>S. doriiformous</i>	<i>S. eriospermous</i>	<i>S. othonnae</i>	(1.8-0.8)

(3.5-2.15)

S. othonnae (4-3.75) *S. vernalis* (1.75-0.5)

Cypselia
Beakless

Senecio

Senecio

subterete

S. desfontaiuei

S. eriospermous *S. mollis* *S. vernalis* *S. vulgaris* terete

S. doriiformous *S. cineraria* *S. othonnae*

S. paucilobous

(0.5-0.25×3.5-1.75) *S. defuntaine* (0.4-0.2×1.75-0.5)

(5-4)

S. paucilobous

S. othonnae

(3-2)

S. paucilobous *S. vernalis*

S. cineraria *S. eriospermous*

Glabrous

(5-3)

(0.5-0.4×2.5-2.25) *S. vernalis*

(0.3-0.2×0.75-0.5)

S. paucilobous

Senecio

Whip-shapped

S. paucilobous *S. mollis*

S. eriospermous

S. eriospermous *S. cineraria*

S. vernalis

Senecio

(Mathews, 1975)

S. mollis

Senecio

(Willis, 1973)

S. johustonii

(Bhattacheryya and Johri, 1998)

(Parsa, 1943)

(Mathews, 1975)

(Richinger, 1964)

(Alexander, 1979)

(Chater and Walters, 1976)

(Jeffery and Ling, 1984)

Senecio

(Jeffery *et al.*, 1977)

(Alexander, 1979)

Senecio

Petiolate

(Jeffery *et al.*, 1977)

Sessile

(Jeffery, 1979)

(Jeffery *et al.*, 1977)

(Post, 1933)

(Hooker, 1882)

(Karis, 1993)

(Alexander, 1979)

S. eriospermous

S. paucilobous

S. vulgaris (5) (4) *S. eriospermous*
Senecio
S. paucilobous

S. paucilobous (5) (4) *S. eriospermous*

Anther collar

.|Anther base

S. paucilobous

S. othonnae S. cineraria

Ribs

S. paucilobous Glabrous

S. cineraria S. doriiformous

S. eriospermous S. mollis

(Boissier, 1875) groups sections *Senecio*
 (Alexander, 1979) (Jeffery *et al.*, 1977) (Post, 1933)
 .(Keris, 1993) (Jeffery and Ling, 1984)

.Unreliable characters

Senecio

.(Super Benus) (Barkley, 1985)

2)	-
3)	-
5			-
	<i>S. vulgaris</i>		-
4			-
	<i>S. paucilobous</i>		-
	<i>S. eriospermous</i>	4 4	-
4	5 5	-
	<i>S. cineraria</i>		-4

5	-
<i>S. vernalis</i>	-
6	-
<i>S. doriiformous</i>	-
7	-
	Calyculus -
<i>S. othonnae</i>	
	Calyculus -
8	-
<i>S. defoutainei</i>	-
	-
<i>S. mollis</i>	

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Abstract

The paper deals with characters of nine species belong to the genus *Senecio* L. in Iraq, based on comparative morphology of all vegetative and reproductive parts. The taxonomic importance of each character was discussed. Most of species have been investigated for the first time. *S. cineraria* is reported for the first time for Iraq.