

( ) = ( ) . – 2015. - 2 (85). – . 57-65

**(MEDICAGO SATIVA L.)**

· · · , · · · ,  
· · · , · · ·

Small. *M. difalcata* Sinsk., *M. falcata* L. ( )  
*Medicagosativa* subsp. *falcata* (L.) Arcang. ( Small); *M. trautvetteri* Sumn.,  
*M. varia* Mart., *M. tianshanica* Vass.- *Medicago sativa nothosubsp. varia*  
(Martin) Arcang. , *Medicago sativa*  
*nothosubsp. varia* (Martin) Arcang.; *Medicago sativa subsp. falcata* (L.) Arcang.  
*Medicagosativa* subsp. *sativa*.

· : - , *Medicagosativa* L., , , ,

(*Medicagosativa* L.) ,

« »

[1, c. 3 – 9,  
2].

*Medicago* *Falcago* (Reichb.)  
Grossh. , 2378

450

900

[3].

[4, 5].

, · · ·

[6].  
 (SARDI), (USDA-GRIN),  
 (ICARDA) (INRA,  
 Montpellier)[7].  
 GRIN ( ) USDA-  
 94 7000  
 [8].

11 *Falcago*  
 58 59

*Medicagosativa* subsp. *sativa*  
 8 [11c. 19 - 66].  
 [1c.  
 14 - 19]

[12 - 19].

Small[2, c. 24] E.  
 21

*Medicago* L.

*Medicago*,  
 4 : *Dendrotelis*,  
*Medicago*, *Carstiensae*, *Platycarpae*.  
*Medicago* *M.*  
*sativa* L.

10].

[9, *Medicagosativa-falcata*  
 (*Medicagosativa-falcata* complex  
*Medicagosativa-falcata* continuum),  
 7 : *M.*  
*sativa* subsp. *sativa*, *M. sativa* subsp.  
*caerulea*, *M. sativa* subsp. *sativa* subsp.  
*glomerata*, *M. sativa* subsp.  
 [11]. 22 *glomerata*, *M. sativa* subsp. *falcata* var.

*falcata*, *M. sativa* subsp. *glomerata* var.  
*viscosa*, *M. sativa* subsp. *xvaria*

»  
 (USDA-GRIN).

87 : 51

« » 36  
 (USDA-GRIN) 1990

[11] E. Small[2].

7 E. Small[2] ( 1). 10 [11]

1– [11] E. Small [2]

	E. Small
<i>Medicago hemicycla</i> Grossh.	<i>Medicago sativa</i> nothosubsp. <i>hemicycla</i> (Grossh) C.R.Gunn
<i>Medicago glutinosa</i> ieb.	<i>Medicago sativa</i> subsp. <i>glomerata</i> (Balb.) Rouy
<i>Medicago coerulea</i> Less.	<i>Medicago sativa</i> subsp. <i>caerulea</i>
<i>Medicago polychroa</i> Grossh.	<i>Medicago sativa</i> nothosubsp. <i>tunetana</i> Murb.
<i>Medicago difalcata</i> Sinsk.	<i>Medicago sativa</i> subsp. <i>falcata</i> (L.) Arcang.
<i>Medicago falcate</i> L.	<i>Medicago sativa</i> subsp. <i>falcata</i> (L.) Arcang.
<i>Medicago trautvetteri</i> Sumn.	<i>Medicago sativa</i> nothosubsp. <i>varia</i> (Martin) Arcang
<i>Medicago varia</i> Mart.	<i>Medicago sativa</i> nothosubsp. <i>varia</i> (Martin) Arcang
<i>Medicago tianshanica</i> Vass.	<i>Medicago sativa</i> nothosubsp. <i>varia</i> (Martyn) Arcang.)
<i>Medicago sativa</i> L.	<i>Medicago sativa</i> subsp. <i>sativa</i>

1 *Medicago sativa* subsp. *falcata* (L.) Arcang. ( E. Small).  
*Medicago difalcata* Sinsk. *Medicago trautvetteri* Sumn.,  
*Medicago falcate* L. ( . . )

*Medicagovaria* Mart.,  
*Medicagotianshanica* Vass.,  
*Medicago sativa* 2.  
*nothosubsp. varia* (Martin) Arcang.  
 2 –

[11]

	-
	-
<i>Medicagohemicycla</i> Grossh.	2
<i>Medicagoglutinosa</i> ieb.	1
<i>Medicagocoerulea</i> Less.	5
<i>Medicagopolychroa</i> Grossh.	1
<i>Medicagodifalcata</i> Sinsk.	1
<i>Medicagofalcate</i> L.	7
<i>Medicagotrautvetteri</i> Sumn.	9
<i>Medicagovaria</i> Mart.	9
<i>Medicagotianshanica</i> Vass.	7
<i>Medicagosativa</i> L.	9

2

USDA-GRIN

( 9)

( ),

*Medicagosativa* L., *Medicagosativa*  
*Medicagovaria*Mart.,  
*Medicagotrautvetteri*Sumn., 7 *Medicagosativanothosubsp. varia*  
 - *Medicagofalcate* L. (Martin) Arcang. – 20  
*Medicagotianshanica*Vass., 5 *Medicagosativasubsp. falcata* (L.)  
 - *Medicagocoerulea*Less., 2 - Arcang. – 12  
*Medicagohemicycla*Grossh. *Medicagosativasubsp. sativa* – 4  
*Medicagoglutinosa* ieb., ( 3).  
*Medicagopolychroa*Grossh.  
*Medicagodifalcata*Sinsk.

3 –

USDA-

GRIN ( )

	-
<i>Medicago sativa subsp. falcata</i> (L.) Arcang.	12
<i>Medicago sativa nothosubsp. varia</i> (Martin) Arcang	20
<i>Medicagosativasubsp. sativa</i>	4

4.

4 –

( E. Small [2])

E. Small	-
<i>Medicago sativa</i> nothosubsp. <i>hemicycla</i> (Grossh) C.R.Gunn	2
<i>Medicago sativa</i> subsp. <i>glomerata</i> (Balb.) Rouy	1
<i>Medicagosativa</i> subsp. <i>caerulea</i>	5
<i>Medicago sativa</i> nothosubsp. <i>tunetana</i> Murb.	1
<i>Medicago sativa</i> subsp. <i>falcata</i> (L.) Arcang.	20
<i>Medicago sativa</i> nothosubsp. <i>varia</i> (Martin) Arcang	45
<i>Medicagosativa</i> subsp. <i>sativa</i>	13

*Medicagosativa* subsp.

(45) ) *falcata* (L.) Arcang. 13 -  
*Medicagosativa* nothosubsp. *varia* *Medicagosativa* subsp. *sativa*.  
(Martin) Arcang.; 20

*Falcago* (Reichenb.) Grossh. :  
- *Medicago* L. 1972 (*Medicagosativa* subsp. *sativa*)  
. [11], - *M. sativa* L.  
*subsp. transoxana* *M. sativa* L. subsp.  
*aucaonica* (Vass.) Lub.

. . .  
. . . *Medicagosativa* subsp. *sativa*  
[11, c.14-15] 22 8 ,  
, 41 . , -  
, 13 .

11 . ,  
58 *Falcago* 59  
[11, 19 - 66].

: (2n=16), *Medicagovaria* Mart. ( )  
13 , )  
(2n=32) - 6 . . [11, c. 39-45]  
(2n=48) 2- [11, c.14-15]. *Medicagovaria* Mart.

, *Medicagovaria* Mart. 3  
, 1  
*Medicagosativa* L. ( )  
). . . ,  
, *Medicagovaria* Mart.

43].

[1, c. 86; 11, c.

[1, c. 85; 11, c.

52-53].

*Medicagodifalcata* Sinsk.

87].

[1, c.

( - ) -

*Falcago*

(*Medicagosativa* L.)

( ) *Medicagofalcate* L. -

(*Medicagofalcate* L.),

(*Medicagoborealis* Grossh.),

20

(*Medicagoquasifalcata* Sinsk).

*MedicagoTrautvetteri* Sumn.,

9-

[1, c. 87,

11, c. 45-52].

*Medicagocoerulea* Less.

5-

2

6

[11, c.62-63].

[11, c.

58-61].

*Medicagotianshanica* Vass.

*M. sativa*

*Medicagosativa*L.      *M. falcate*L.,  
:  
- , - (2n=16)  
, - (4n=32)  
,  
- .  
[20, c. 25]

*Medicagohemicycla*Grossh.,*M. trautvetteri*Sumn., *M. glutinosa*Bieb., *M. polychroa*Grossh., *M. tianchanica*Vass., *M. varia*T. Martyn, *M. saxatilis*Bieb., *M. cancellata*Bieb.

E. Small[2, c.24]

21

*Medicago*.

*Medica go sativa-falcata* complex (*Medicago sativa-falcata* *Medicago sativa-falcata* continuum).

*Medicagosativa*

1.

*M. sativa* subsp. *caerulea* (Less. Ex Ledeb.) Schmalh, *M. sativa* subsp. *falcate* (L.) Arcang. *M. sativa* subsp. *glomerata* (Balb.) Rouy.

*M. sativa*

*Medicago* 4 : *Dendrotelis*, *Medicago*, *Carstiensae*, *Platycarpae*.

*Dendrotelis*, *Carstiensae*, *Platycarpae* 3, 1 4 .

*Medicago Suffruticosae*, 11 2 . *Medicago* - *M. sativa*L. -

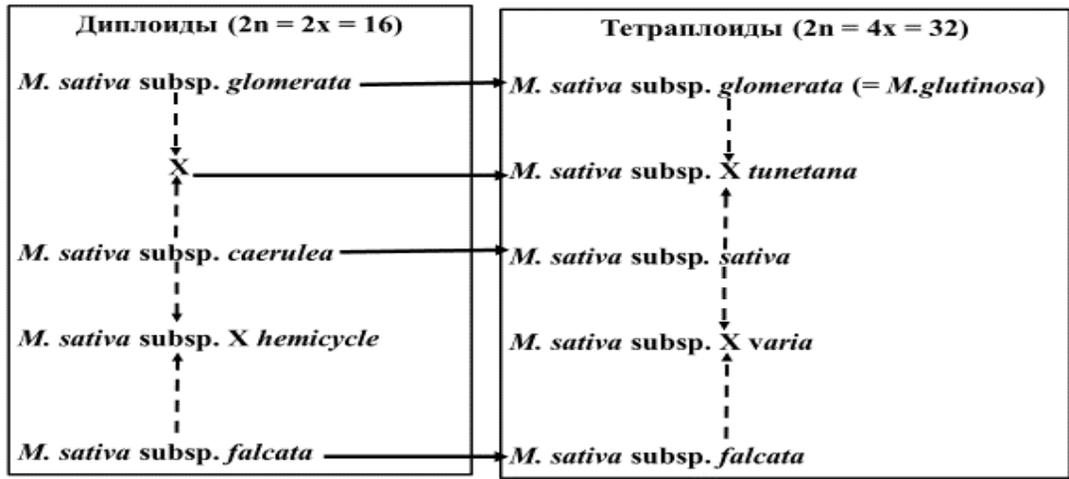
*Medicagosativa* subsp. *sativa*,

*glomerata* *caerulea*. *falcate*

*M. sativa* subsp. *hemicycle* (ossh.) C.R. Gunn

*M. sativa*L.

*caerulea* *falcate*.



1 -

*M. sativa*,

Havanandaetal. [15].

*M. sativa* subsp. *x varia* (Martyn)  
Arcang.

*sativa*  
*falcate.*

[21]

*M. s.* subsp. *x tunetana*  
Murb.

*caerulea*  
*glomerata,*  
*sativa*

*glomerata.*  
Havanandaetal. [15]  
*tunetana*

*Medicago sativa* subsp. *faurei* Maire  
*polychroa* Grossh.

(subspecies),

«*Medicago sativa* subsp. *glomerata*».



2 –  
[21]

:  
, -  
,  
, .. - ,  
-

[1c. 88].

Greeneetal. [23],

[22].

( , , ).

( ). [24].

*satíva* L *M. falcate*L.

*M.*

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. . . . .  
( *Medicago* *Falcado* (Reichb) Grossh. ). –  
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//  
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9. . . . .  
(*MedicagoL.*) //  
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10. . . . .  
. . . . .  
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11. . . . . - *Medicago L.* ( *Medicago*  
*Falcago* (Reichenb.) Grossh. //Tp. . . . .  
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## Summary

Systematization of the Kazakhstan collection of perennial species of alfalfausing bothP. Lubenets and E. Small taxonomies is carried out. Distinctions in approaches are shown. Two species as *M. difalcata* Sinsk., *M. falcate* L. (on. P. Lubenets) are united in one subspecies of *Medicago sativa* subsp. *falcata* (L.) Arcang. (on E.Small); three species of *M. trautvetteri* Sumn., *M. varia* Mart., *M. tianshanica* Vass. - in subspecies of *Medicago sativa* nothosubsp. *varia* (Martin) Arcang. The studied samples, generally belong to *Medicago sativa* nothosubsp. *varia* (Martin) Arcang.; *Medicago sativa* subsp. *falcata* (L.) Arcang. and *Medicago sativa* subsp. *sativa*. The information should to be considered at an exchange of genetic resources, molecular and genetic investigations.