

Two new genera of Texan plants discovered by F. Lindheimer and described by G. Engelmann, M.D. 87  
*Lindheimeria* calyx inferus, corollatus, 5 dentatus, lina densa vestitus, persistens!  
 corolla infera, tubulosa 5 dentata, scariosa, persistens, antherae uniloculares  
 sessiles in fauce corollae et alternantes cum lobis, ovarium superum loculare  
 stylus unicus stigma capitatus; calyx fructiferus induratus, compressus,  
 marginibus spinoso-cistatus latere altero basi 1-spinosus, altero  
 2 spinosus tota lina densa vestitus. Utriculus membranaceus indehiscent  
 1-spermas. semen funiculo longo capillares a fundo capsulae orto  
 instructum et ex ejus apice recurvo pendulum. Embryo cylindricus  
 circum albumen farinaceum incurvus, periphericus, radícula ad  
 hilum versa.

Genus *Pleuranthaceis* maxime affine et a *Guilleminia*  
 solummodo corollae monopetalae distinctum.

Herba texana annua, erecta, lanuginosa, foliis oppositis  
 ex stipulatis floribus spicatis, spicis interruptis, ramosis  
 Genus amississimum F. Lindheimer percontatore floral texanae diligentissimo dicatum.

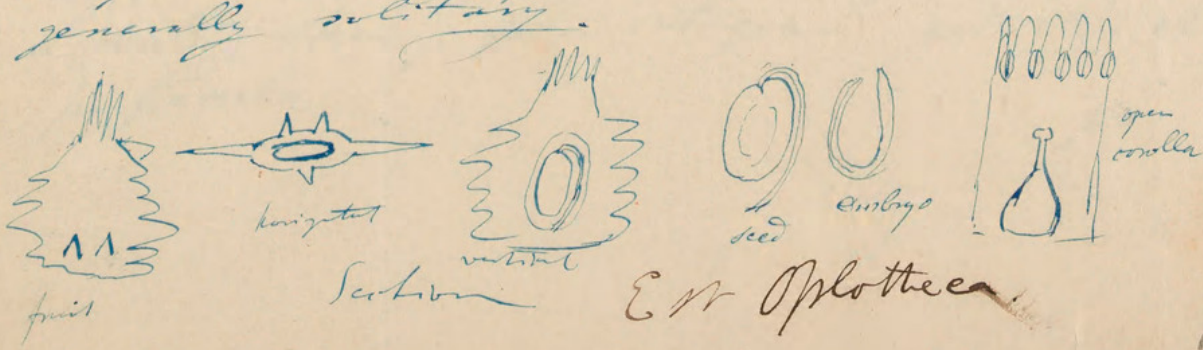
*L. texana* foliis lanceolatis, inferioribus in petiolum attenuatis  
 superioribus sessilibus, supra viridibus scabridis, subtus  
 albo-lanuginosis

Plant of the habit of *Agrostemma* comaria, about 15 or 20 inches high.  
 flowers small, densely spiked in interrupted dense clusters  
 forming an interrupted spike; corolla yellowish, anthers  
 bright red; grows in small groups in sandy places near  
 Houston Texas; flowers in September & October.

*Crinidium* spathe bifida uniflora, perigonium superum longe tubulosum  
 limbo sex partito regulari, antherae 6 lineares, biloculares, ad basin  
 limbi sessiles; stylus exsertus, stigma globum, capsula  
 infera 3-valvis 3 locularis, semina <sup>plura</sup> disticha, rubricata  
 (4-8 in loculis singulis).  
 Genus *Crino* affine spathe uniflorae tubo elongato et antheris  
 sessilibus diversum. Nomen ex affinitate *Crini*.

Herba bulbosa texana.  
*Crinidium autumnale* foliis linearibus, scapo brevioribus  
 tubo floris elongato (4-6 pollicari), laciniis limbi ovato-lanceolatis  
 exterioribus mucronatis (pollinaribus) capsula depresso  
 Grows in dry prairies near Houston Texas (F. Lindheimer)  
 in flower from August to October.

Leaves 3 to 4 inches long, linear-filiform, frequently  
 withered about the time of flowering; scape 4 to 8 inches high  
 and tube of the white flower nearly the same length.  
 It grows in many places between Houston and Galveston, but  
 generally solitary.



Lindheimeria  
 sent from  
 Febre vol. 2, p. 2  
 2 cts vol.  
 2, part. 3,  
 Return enclosed.

E. R. Ophtheca

Amund Jan. 13,  
My dear Doctor

St Louis Jan 18<sup>th</sup> Bof 3

Mr Tenore will leave here tomorrow and take with him a package of more than 70 seeds, some of them of our rarer plants, but the greater part of them from my friend Lindheimer from Texas, included in the parcel is the bulb of new *Amaryllis* like plant and of a *Crinum*; this last may be *C. americanum* or probably some other species, both from Texas; the first is certainly a new genus, *Conidium*, of which below. Besides this parcel of seeds there is a considerable package of plants, with a few exceptions *Compositae*, rare or doubtful, which, on a few of which, may be useful to you. I am afraid I have made the parcel too large already, though I have confined myself to this family alone. But before spring I hope to be able to send to you another large parcel, with rare plants. — Together with the *Compositae* is a small parcel containing all my *Cuscutaceae* 11 species for Hooker. you will oblige me by forwarding them together with a request to send me if possible a specimen or at least a small piece of this american, californian, oregonian *Cuscutae*, especially *C. arvensis* & *umbrosa*; and if it can be done, a flower or two of the *Gonovian*, *Jamaican* and other specimens of the old *Hebaria*.

Lindheimer is with me at present, and we study his and my specimens — so that he will be enabled to make more valuable collections yet next season, than he did before. You have seen some of his specimens, and will see more; and can judge from them that they are better <sup>selected</sup> & more complete and better preserved specimens than most of those you may have seen before if I except Mr Jeger's — they are not pressed so tight — crushed to pieces — like Mr Lapham's nor dried like hay like Mr Buckley's — nor only the top of the plants like Mr Brownne's. — Now, as Lindheimer is to devote a few years entirely to the exploration of Texas and the collection of plants there, and intend to make at least his living by it; he as Jeger is to do the same thing in our western & northern country. I have conceived the idea to offer their collections for sale, by Centuries. We would guarantee the genuineness, the good preservation and careful selection of the specimens, and that only the rarest plants of the western and southwestern country would be contained in this collection; that therefore only two to four Centuries in one year could be furnished but that the price could not be under 8 or 10 dollars furnished in St Louis, or New York; first Centuria to be delivered next

Summer of fall, and payment to be made on <sup>giving the order for the</sup> Delivery <sup>plants</sup> ~~plants~~ What  
do you say to that plan? If you approve of it, and think it  
feasible, you will do me a favour to publish an advertisement  
in Silliman's Journal to that effect, and Botanists who  
wish to obtain a collection, may apply to you or to me,  
it would be well to say in <sup>the</sup> Journal also a few words, referring  
to the advertisement and to publish the same also in England  
— I will take care to put it in French and German journals.  
In that way we would encourage adventurous and ardent  
Botanists, would get a better knowledge of distant and  
little known countries, and obtain full suits of good  
specimens therefrom. If such undertakings find favour  
they might be extended to the Mountains and Oregon  
where Nuttall & Douglas may have done much but certainly  
not all. Tell me your opinion about it. The price  
might be put at two £ Sterling, less than \$ dollar it would  
not well be, for 100 plants.

I was determined to have called a beautiful and interesting new genus  
by my friend Lindheimer's name, and I believe I have found one  
now amongst those collected by him last fall. It is rather an  
anomalous thing, but though it is monopetalous, I can not  
but must class it near Elaeagnaceae, it is hardly in any way  
different from the South American *Guilleminea* except by the  
monopetalous corolla! and impossible, I think to divide it from it  
and ~~so~~ take it for this family Solanaceae: You find a specimen and  
seeds in the parcels sent now by me. The Latin description of this  
and another new genus you find on another page and if it meets with  
your approval I beg you to send it to Dr. Silliman to insert it  
if I am not too late already. I should not like to lose  
the right to name that plant after my friend.

Besides these the parcel contains a pretty full suit of *Missonia*  
— *Texa Vernoniae* — only the transition of the *V. fasciculata*  
and *praealtis* is not there, but full suits may be obtained  
even more readily than between the other. — Some of the  
plants are marked: please return, which I wish you to  
return when you have examined them, as they are only  
specimens. The others you will please to keep if you like.  
Perhaps Dr. Torrey expects me to write to him about the  
Cuscutae of this herbarium. I shall do so and send him  
also a full suit of my specimens together with some other  
rare plants. — Our *Asclepias* *argentea* near Drummond's  
has probably been mistaken for this Texan plant; you  
will be able to examine <sup>three</sup> specimens, which I send you.

not come at all, rather somewhat flattened. fl. - Texas - April  
& May. rays  $1\frac{1}{2}$  -  $1\frac{3}{4}$  inches long. - *E. sanguinea* is  
shorter, peduncle long, monostate for some distance below  
the head and considerable so immediately below it. head  
is large again hemispherical and somewhat convex.  
fl. near St. Louis: Mar. & June. rays 2 -  $2\frac{1}{2}$  inches long.  
*Helianthus recurvatus* n. sp. similar to *H. angustifolius*. stem  
erect, scabrous above & hispid beneath. pappi  
not purple, inflorescences with long exserted anthers. disc brown  
equal to corolla tube of corolla smooth (not pubescent) - the a. anthers  
one fourth as long as the neck (not one half as long). Pale  
tip of segments of corolla purplish - achenia, pappi,  
paleae the same as both.

*Hel. Dgo. microphylla* n. sp. caule glabro angulato (pleniusque robusto)  
superius virgatum ramoso; foliis glabris apice serratis, marginibus  
et subtus ad nervos ciliatis - scabris, reticulatis, caulibus  
superioribus lanceolatis, basi attenuatis, subspectulatis, acutis,  
racemis secundis elongatis virgatum paniculatis, subintegris  
involucris linearibus acutis, virid. nervis, acheniis pubescentibus  
fl. disci 4-6, radii 2-4. - Margin of woods with (H. alba) near  
Houston Texas, Sept. Oct. - Near S. brachyphylla

*Hel. Dgo. Linckermanni* caule basi ascendente piloso glabro simpliciter  
foliis linearibus lanceolatis, mucronatis, erectis, superioribus  
elongatis, <sup>basalibus</sup> superioribus brevioribus, sem. amplius involucri  
virid. nervis, sparsim venosis, pappi reticulatis  
(subcarnosus) integris, margine scabris; panicula glabris  
pedicellis longis bracteis subsecundis, angulatis, ovatis  
velis, capituli majusculis, squamis linearibus  
glabris, externis brevibus, laxis, fl. radialibus 6-10  
fl. disci 11-13 acheniis minutis pubescentibus  
Common place - a high prairie west of Houston, fl. June  
& July.

Similar to *S. angustata* T. & G. but distinguished by the  
ascending stem, foliis integris, pedicellis elongatis, acheniis  
pubescentibus.

I don't trouble you at present with my notes on other plants. - If you send the short article on the two new genera to Silliman, please to cut off the rough figures which I have appended. - The parcel for you, sent last fall is not yet here, but probably on a boat on the Mississippi - the Ice or on a Sambar. Mr Poppe will soon send a large quantity of goods here.

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Dr Asa Gray

Cambridge Mass.



that will be a good opportunity to send me something, also a copy of 2<sup>nd</sup> no of 2<sup>nd</sup> volume of flora for Linde's which I bespoke through Dr Brown; - if you have not yet sent it, please let me have it, and charge me with it. Write soon!

Yours entirely

J Engelmann

Dr A Gray  
Cambridge



Engelmann, George. 1843. "Engelmann, George Jan. 18, 1843." *George Engelmann letters to Asa Gray*

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