1 Trees or shrubs
+ Herb, sometimes with a suffruticose base, rarely shrubs
   (2)

2 (1) Style 2-fid.
+ Style 4-fid
   (3)

3 (1) Style terminal.
+ Style gynobasic.
   (4)

4 (3) Styles 2, not dilated towards apex or base.
+ Style 1, dilated towards apex or base.
   (5)

5 (3) Fruit with 2 nutlets.
+ Fruit with 4 nutlets, at least in young stage.
   (6)

6 (5) Corolla distinctly zygomorphic
+ Corolla actinomorphic
   (7)

7 (6) Gynobase pyramidal. Style simple. Nutlets with a sessile lateral attachment
+ Gynobase flat. Style usually 2-fid at apex, rarely entire. Nutlets without a lateral attachment
   (8)

8 (6) Tips of anthers elongated and contorted
+ Tips of anthers obtuse or apiculate, not contorted
   (9)

9 (8) Stamens unequal, with 1 anther larger than the other four
+ Stamens of equal size
   (10)

10 (9) Corolla throat with scales absent; throat sometimes villous
+ Corolla throat with scales present; sometimes sparsely hairy or with small glands
   (11)

11 (10) Flowers nodding at anthesis; corolla lobes reduced. Anther connective elongated
+ Flowers ± erect; corolla lobes distinct. Anther connective not elongated
   (12)

12 (11) Corolla throat vinous. Style simple
+ Corolla throat glabrous. Style divided
   (13)

13 (12) Corolla throat glabrous. Style 24-fid, rarely undivided; stigmas 2-4
+ Corolla throat glabrous to hairy; style 2-fid; stigmas 2
   (14)

14 (13) Perennials. Corolla throat not hairy. Nutlets ovoid
+ Annuals. Corolla throat hairy. Nutlets ± pear shaped, surface tuberculate or rugose
   (15)

15 (10) Margin and middle dorsal area of nutlets glabrous to hairy or variously ornamented but never prickly or appendiculate
+ Margin and middle dorsal area of nutlets prickly or appendiculate
   (16)

16 (15) Calyx irregular; much enlarged (12-14 mm) and saucer-like in fruit; lobes unequal, dentate in between
+ Calyx regular, not much enlarged (up to 10 mm) in fruit; lobes equal or subequal, not dentate in between
   (17)

17 (16) Throat scales fimbriate or densely pubescent. Areola prominently hollowed, with a thick girdle
+ Throat scales not fimbriate, glabrous or puberulous. Areola not prominently hollowed out
   (18)

18 (17) Calyx in fruit stellately spreading
+ Calyx in fruit not stellately spreading
   (19)

19 (18) Flowers axillary (at least lower ones)
+ Flowers in terminal cymes
   (20)

20 (19) Areole of nutlet with surface of attachment concave, margin prominently thickened
+ Areole of nutlet with surface of attachment flat, margin not thickened
   (21)

21 (20) Perennials. Corolla infundibuliform or cylindrical-campanulate, blue to deep purple-blue
+ Annual or perennial. Corolla rotate or hypocrateriform, blue or white
   (22)

22 (21) Flowers (at least the lower ones) bracteate. Nutlets minutely tuberculate
+ Flowers ebracteate. Nutlets smooth
   (23)

23 (15) Nutlets attached laterally to the gynobase and decurrent on style
+ Nutlets not as above
   (24)

24 (23) Dorsal middle area of nutlet partly covered by the incurved margin
+ Dorsal middle area of nutlet not covered by the margin
   (25)

25 Rochelia

26 Echion

27 Paracaryum

28 Mattiastrum
25 (23) Middle area of nutlet ovate; inner face above areola keeled throughout its length
+ Middle area of nutlet not ovate; inner face above areola not keeled throughout its length
   29 *Lepechiiniella*

26 (25) Nutlets inseparable from gynobase; base of
   + Nutlets separable from gynobase; bases of marginal appendages usually not confluent
      30 *Heterocaryum*

27 (26) Nutlets ± globose or napiform
   + Nutlets pyramidal to truncate-pyramidal-oblong
      26 *Cynoglossum*

28 (27) Filaments longer than anthers, attached above throat scales. Stamens distinctly exserted
   + Filaments equalling anthers, attached below throat scales. Stamens included or barely exserted
      31 *Solenanthus*

29 (28) Corolla funnel-shaped, tube exceeding calyx length. Stamens exserted
   + Corolla rotate, the tube not exceeding calyx length. Stamens included
      22 *Hackelia*

30 (27) Nutlets ± equalling the gynobase length, attached for nearly the whole length; but not over topping the calyx
   + Nutlets exceeding the gynobase and style, attached obliquely
      23 *Eritrichium*

31 (30) Tall plants with broad leaves. Fruiting calyx reflexed
   + Generally caespitose plants with small narrow leaves. Fruiting calyx not reflexed
      22 *Hackelia*