

side of the pronotum is covered with punctae and striae in *L. punctithorax*; the sides of the pronoti of *L. manni* and *L. bristoli* are predominantly smooth and shining, with fine striae.

Biology: Unknown.

Leptothorax (Myrafant) rugatulus Emery
Figs. 4, 72, 153, 154, 155, 156, & 157; Map 41

Leptothorax rugatulus Emery, 1895: 321, worker, S. Dakota, Colorado [restricted to Colorado by Creighton, 1950]; *Leptothorax curvispinosus rugatulus*: Wheeler, 1903a:241, Plate 12, Fig. 12; *Leptothorax rugatulus*: Wheeler, 1917:509; *Leptothorax (Myrafant) rugatulus*: M. Smith, 1950:30; Taber and Cokendolpher, 1988:98-100, karyotype

Leptothorax curvispinosus rugatulus cockerelli Wheeler, 1903a:241-242; *Leptothorax rugatulus* var. *cockerelli*: Wheeler, 1917:509 (Creighton, 1950:267-268)

Leptothorax curvispinosus annectens Wheeler, 1903a:242, Plate 12, Fig. 13 (Creighton, 1950:267-268)

Leptothorax rugatulus mediorufus Wheeler, 1917:510 (Creighton, 1950:267-268)

L. rugatulus dakotensis Wheeler and Wheeler, 1944:247 (Creighton, 1950:268)

L. rugatulus brunneascens Wheeler, 1917:510-511. **New Synonymy**
Species complex: *longispinosus*

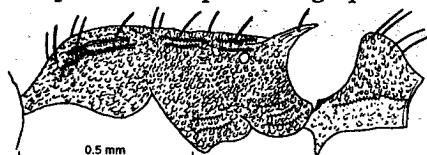


Fig. 153. Mesosoma of a worker of *Leptothorax rugatulus* (NM).

Diagnosis: Workers of this species have an 11 segmented antenna, a coarsely rugose dorsal surface of the head, the dorsum (and sides to a lesser extent) of the mesosoma and petiole are rugose as the head, the propodeal spines are well developed, longer than the distance between their bases, the dorsum of the postpetiole has rough punctures.

Distribution: Washington, Oregon, Idaho, Montana, North Dakota, South Dakota, Wyoming, California, Nevada, Utah, Colorado, Arizona, New Mexico, Texas; Canada: British Columbia, Alberta. (Map 41).

Type series: AMNH, MCSN [seen].

Discussion: This species can be recognized by the coarse rugae on the head, the areas between the rugae are punctured, but shiny (Fig. 156). This characteristic separates *L. rugatulus* from *L. bradleyi* and *L. smithi*. It is smaller than *L. josephi* and is basically concolorous