

***Pseudosinella styriaca* sp.n. (Collembola: Entomobryidae)
a New Collembolan Species from the Styrian Cave
„Raudner - Höhle” (Austria)**

by

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DESCRIPTION

Length of body of the *Pseudosinella* - specimens without antennae and furcula: 1.1-1.4 mm. Pigment and eyes absent. Claw III is very similar to that of *Pseudosinella immaculata* (Lic - Pettersen, 1896). The repartition of macrochaetae on the head and abdomen is quite different.

Head. - The ratio of antennae: diagonal of head is 1.9 : 1. Sense organ of Ant. III consists of two club-like sensillae and two long guard setae (Fig. 1) and three small, smooth setae. Dorsal median macrochaetae are distributed as e.g. in *Pseudosinella infrequens* and *Pseudosinella impediens* Gisin et Da Gama, 1969. Next to these median macrochaetae there is a transversal row of 7 macrochaetae directed to the lateral margin (Fig. 2).

Thorax. - Unguis III with one small and one large proximal tooth. The distal unpaired tooth is situated at a point 45% down the length of the internal lamella. The lateral teeth are very fine and are almost invisible (Figs. 3,4,5). Mesothorax with 1 pseudoporus and 3 macrochaetae. Metathorax with 1 pseudoporus and 2 macrochaetae.

Abdomen. - Abd. I-IV, each with 1 pseudopore. Macrochaetae are present on Abd. I (2 in number), Abd. II (4 in number), Abd. III (2 in number) and Abd. IV (3 in number). The trichobothria occur on Abd. II-IV (Fig. 6). Mucro bidentated (Fig. 7).

AFFINITY

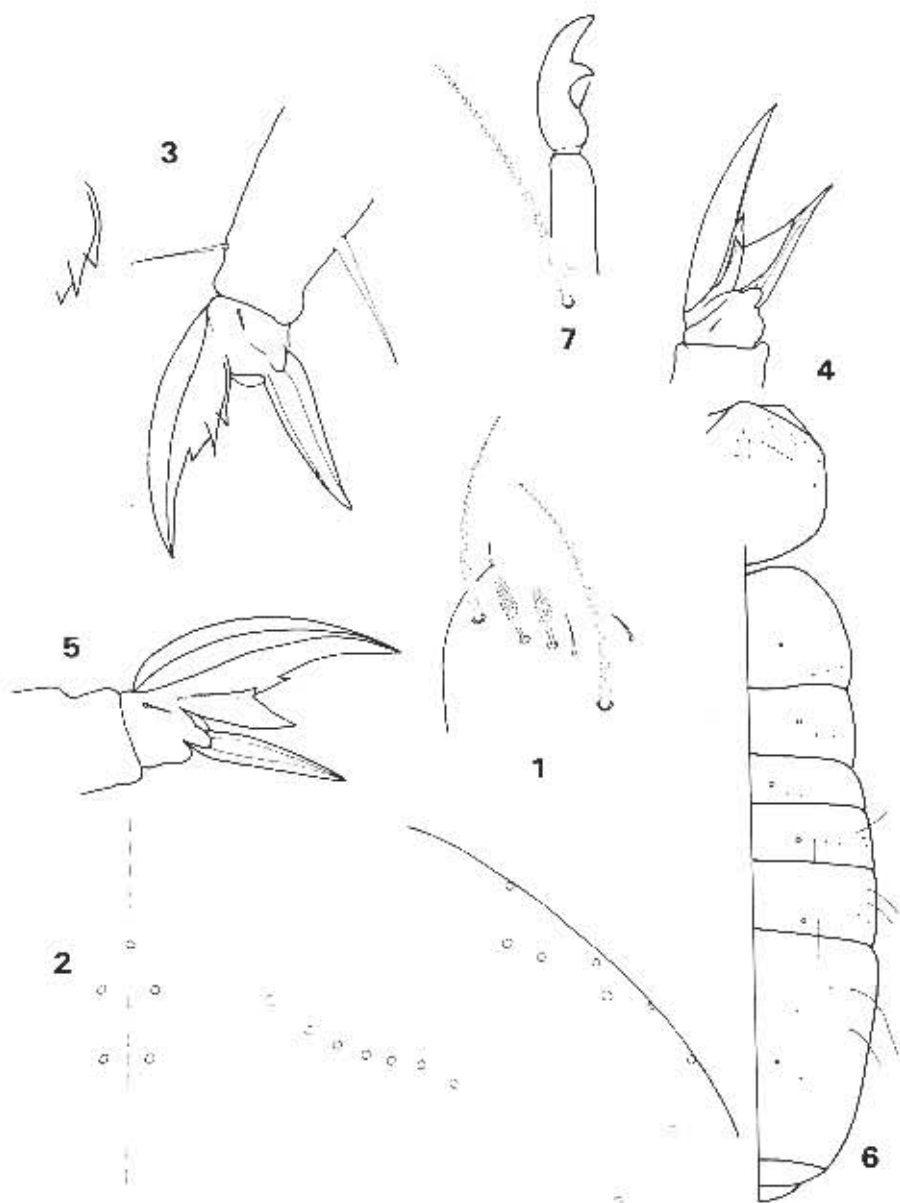
The new species *Pseudosinella styriaca* belongs to the troglodytic species and to the Mediterranean group of *Pseudosinella*.

Locality in which the animal was found: Raudner - Höhle in Styria; 11 specimens, author* legit.

Holotype mounted in Polyvinylalcohol kept in Landesmuseum Joanneum,

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Raubergasse 10, A8010, Graz Austria and paratypes, 2 in number, kept in Museum d'Histoire naturelle de Genève, Switzerland.

SUMMARY

Description of a new cavernicolous species of *Pseudosinella*, *P. styriaca*. The species was found in the cave „Raudner - Höhle” (Styria, Austria). *P. styriaca* sp. n. belongs to the Mediterranean group of *Pseudosinella*.

ZUSAMMENFASSUNG

Beschreibung einer neuen trogllobionten Art der Gattung *Pseudosinella*: *P. styriaca*. Die Art wurde in der „Raudner-Höhle” (Steiermark, Österreich) gefunden. *P. styriaca* sp. n. gehört der mediterranen Gruppe von *Pseudosinella* an.

REFERENCES

- GISIN, H. et M.M. DA GAMA 1969: Espèces nouvelles de *Pseudosinella* cavernicoles (Insecta: Collembola). — Rev. Suisse de Zool., 76, 1, 143-181.
 — 1970: *Pseudosinella* cavernicoles de France (Insecta: Collembola). — Rev. Suisse de Zool., 77, 1, 161-188.
 — 1970: Notes taxonomiques et évolutives sur quatre espèces de *Pseudosinella* cavernicoles (Insecta: Collembola). — Rev. Suisse de Zool., 77, 2, 293-303.
 — 1972: Notes taxonomiques et évolutives sur *Pseudosinella* immaculata et *Ps. dohertyi*. — Rev. Suisse de Zool., 79, 1, 253-259.
 — 1972: *Pseudosinella* cavernicoles d'Espagne (Insecta: Collembola). — Rev. Suisse de Zool., 79, 1, 261-278.

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Figs. 1-7. *Pseudosinella styriaca* sp.n.

- Fig. 1. Sense organ of Ant. III
 Fig. 2. Repartition of macrochaetae on head
 Fig. 3. The third leg in different view
 Fig. 4. The third leg in different view
 Fig. 5. The third leg in different view
 Fig. 6. Repartition of pseudopores, macrochaetae and trichobothria
 Fig. 7. Mucro