Acarologia is proudly non-profit,
with no page charges and free open access

Please help us maintain this system by
encouraging your institutes to subscribe to the print version of the journal
and by sending us your high quality research on the Acari.

Subscriptions: Year 2019 (Volume 59): 450 €
http://www1.montpellier.inra.fr/CBGP/acarologia/subscribe.php

Previous volumes (2010-2017): 250 € / year (4 issues)
Acarologia, CBGP, CS 30016, 34988 MONTFERRIER-sur-LEZ Cedex, France
ISSN 0044-586X (print), ISSN 2107-7207 (electronic)

The digitalization of Acarologia papers prior to 2000 was supported by Agropolis Fondation under the reference ID 1500-024 through the « Investissements d’avenir » programme
(Labex Agro: ANR-10-LABX-0001-01)

Acarologia is under free license and distributed under the terms of the
Creative Commons-BY-NC-ND which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original author and source are credited.
REDISCOVERY AND REDESCRIPTION
OF **ACERIA ONYCHIUS** (NALEPA, 1915)
(ACARI, PROSTIGMATA, ERIOPHYIDAE)

by Carlos H. W. FLECHTMANN¹, Philippe AUGER² & Serge KREITER²

(Accepted January 2001)

**ACERIA ONYCHIUS**
REDESCRIPTION
ERIOPHYIDAE
SOUTHERN FRANCE
PHLOMIS

**SUMMARY:** *Aceria onychius* (Nalepa, 1915), known only from the original description and type locality in Dalmatia is redescribed and illustrated from specimens collected in Southern France.

**NALEPA** (1915) described *Eriophyes onychius*, an eriophyid mite causing patches of white erinea on leaves of the Jerusalem Sage, *Phlomis fruticosa* L., Labiatae or Lamiaceae, from Gravosa and Ragusa, in Dalmatia, then Yugoslavia. As far as we are aware this is the only reference to this mite. **NALEPA** (1915) did not present an illustration of this species.

Recently, we collected specimens of an eriophyid on *Phlomis herba-venti* L., in southern France, which agrees with **NALEPA**'s description of *E. onychius*, which is herein redescribed and Fig.d.

**Aceria onychius** (Nalepa, 1915) (Figs. 1, 2)


**FEMALE.** — measurements in micrometers, refer to the length of the structure, unless otherwise stated. (n = 6). Idiosoma vermiform, 233-277 and 61-69 wide, **Gnathosoma:** rostrum 23-25; basal setae 3; antapical setae 5-7; chelicerae 20-23. **Prodorsal shield:** 33-39 long; with small anterior rounded lobe. Median line variable, either extending over entire length of shield (Fig. 1, AD 1) or restricted to posterior half of shield (Fig. 1, AD 2); admedian lines extending over entire shield length; one pair of submedian lines on anterior half of shield, consisting mainly of a continuous line of coarse granules. Shield laterally covered with granules. Prodorsal shield setae (Fig. 1, AD 1, and Fig. 2, AL, sc) 18-22, set on nearly hemisphaeric tubercles, 24-26 apart. **Legs:** legs I (Fig. 2, L1) 34-36, from trochanter basis; femora 8-10, femoral setae (bv) 11-14; genua 5-6, genual setae (f) 25-27; tibiae 6-8.

---

1. CNPq Brasil, researchers - Sao Paulo, ESALQ Zoologia 13418-900, Piracicaba, Brasil.
2. Zoologie-Acarologie, ENSAM, 2 Pl. P. Viala, 34060 Montpellier Cedex 1, France.

Fig. 1: *Aceria onychius* (Nalepa), female.
AD 1: anterior dorsal body region, median line entire; AD 2: id., median line restricted to posterior half of dorsal shield; CAD: caudal area, dorsal; CAV: caudal area, ventral; CGF: coxigenital region; c2: lateral setae; d, e, f: ventral setae 1, 2, 3; sc: scapular setae.
tibial setae \((f')\) 7-9; tarsi 8-10, solenidia 11-12, empo-
dia 7-8, 4-rayed, dorsal setae \((f''\)\) 18-21, lateral setae
\((f'')\) 26-30, unguinal setae \((u')\) 6. Legs II (FIG. 2, L2)
30-33; femora 8-11, \(bv\) 12-14; genua 4-5, \(l'\) 10-11;
tibiae 4-5, with a distolateral thin spine resembling a
minute seta; tarsi 7-9, solenidia 13-15, empodia 7-8,
4-rayed, \(f''\) 9-11, \(f'\) 28-31, \(u'\) 6-7. Coxae: coxal setae I
\((1b)\) 9-11, 13-15 apart; coxal setae II \((1a)\) 19-24, 11-13
apart; coxal setae III \((2a)\) 46-50, 28-31 apart. Coxae I
and II with a transverse row of granules and a few
scattered granules. Coxisternal area with 7-10 annuli,
microtuberculate. **Genitalia:** 24-28 wide, 17-18 long.
Genital coverflap (epigynium) with 16-18 longitudinal
 scorings. Genital setae \((3a)\) 16-18. **Opisthosoma:**
annuli nearly subequal dorsoventrally, evenly micro-
tuberculate. Microtubercles on dorsal annuli small,
on rear margin of annuli; on ventral annuli, small,
beadlike, with a strong projection and thin, elongate
on last 7-8 ventral annuli. Lateral setae (FIG. 1, CGF,
and FIG. 2, AL, \(c2)\) 27-29, on annulus 3-4 from pos-
terior margin of genitalia; ventral setae 1 (FIG. 1, \(d)\)
54-64, 42-44 apart, on annulus 18-23; ventral setae 2
(Fig. 1, \(e)\) 14-19, 23-26 apart, on annulus 39-47;
ventral setae 3 (FIG. 1, CAV, \(f)\) 19-24, 18-20 apart, on
annuli 69-82 or 7th-8th from rear. Total dorsal annuli
70-78; total ventral annuli 75-89. Caudal setae \((h2)\)
62-82; accessory setae (FIG. 2, CAD, \(h1)\) 4-5.

**MALE.** (n = 2). Smaller than female, 220-228,
60-63 wide. **Gnathosoma:** basal setae 3; antapical
setae 5; chelicerae 18-20. **Prodorsal shield** 36-39; \(sc\) 18,
24-26 apart. **Legs:** legs I 32-33; femora 11, \(bv\) 13;
genua 5, \(l'\) 23-26; tibiae 6, \(l'\) 6-8; tarsi 7-8, solenidia
12-13, empodia 7, 4-rayed, \(f''\) 18-19, \(f'\) 31, \(u'\) 5-7.
Legs II 28-29; femora 10-11, \(bv\) 12; genua 4-5, \(l'\)
10-11; tibiae 3-4; tarsi 7-8, solenidia 15, empodia 8,
4-rayed, \(f''\) 8-10, \(f'\) 29-30, \(u'\) 6-7. Coxae: \(1b\) 8-10, 13
apart; \(1a\) 18, 11 apart; \(2a\) 44, 24-27 apart. Coxisternal
region with 6-8 annuli, microtuberculate. **Genitalia**
(FIG. 2, GM) 19 wide, 16 long, caudally densely
microtuberculate; \(3a\) 12-14. **Opisthosoma:** as in
female; \(c2\) 26-28, on annulus 3; \(d\) 53-55, 37-42 apart,
on annulus 15-16; e 12-14, 22-25 apart, on annulus 34; f 26-27, 19-20 apart, on annulus 63-64 or 6th-7th from rear. Total dorsal annuli 71-75; total ventral annuli 69-70. Caudal setae (h2) 66-67; h1 4.

Material Examined. — 9 females, 2 males, from Phlomis herba-venti L. (Labiatae or Lamiaceae), Pic Saint-Loup, Hérault, France, collected by P. Auger, May 2000. On 4 microscopic preparations; 1 preparation in ENSAM/INRA, Département de Santé des Plantes et Environnement, Laboratoire d’Acarologie, Montpellier, France; 3 preparations in the collection of Departamento de Entomologia, Fitopatologia e Zoologia Agricola, ESALQ, Universidade de São Paulo, Piracicaba, SP, Brasil.

Leaf vagrants, sparse erineum patches.

Remarks. — The long tarsal solenidia, a third as long as leg on leg I and half as long as leg on leg II, is an outstanding characteristic of this species, from which Nalepa derived the specific designation onychius (Greek, onyx, onychos, meaning claw, talon or nail).

REFERENCES
