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## Key to the Genus *Ornithodoros* (of Russia) (After Pavlovsky, 1955)

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TRANSLATION 4 (T4)

DEPARTMENT OF MEDICAL ZOOLOGY  
UNITED STATES  
NAVAL MEDICAL RESEARCH UNIT NO. 3  
c/o American Embassy  
Cairo, Egypt

TRANSLATION FROM RUSSIAN OF PP. 83-85 of Galuzo (1957)  
Argasid ticks and their epizootological significance.  
Alma-Ata (Acad. Sci. Kazakh SSR). 131 pp.

KEY TO THE GENUS ORNITHODOROS (OF RUSSIA)  
(After Pavlovsky, 1955)

Females and Males

- 1 (10) Cheeks present. With a "cross" on ventral side of body posterior of anal aperture.
- 2 (7) Cheeks entire, free, uncommonly deeply cleft anteriorly, or grown fast to rostrum. Unpaired (postanal) bristle absent posterior of anal aperture. Bristles on body thin, of average length or rather long. Length of post-hypostomal and post-palpal bristles approximately equal.
- 3 (6) A design formed by irregularly distributed protuberances present on integument of body. Cheeks always entire, free.
- 4 (5) Transverse post-anal groove wavy, its general direction nearly straight. Integument of body with small, irregularly assembled protuberances of star-like form. Protuberances of nearly equal size on all parts of body. Dorsal surface of tarsus I wavy, protuberances (4-5) weakly expressed, of equal size. Cheeks of female long, stretched, of the male sometimes nearly triangular. Length of female body 6.5 to 8.2 mm., width 3.6 to 4.6 mm.; length of male body 5.3 to 5.8 mm., width 2.9 to 3.4 mm. .... 1. O. PAPILLIPES (Birula, 1895)

- 5 (4) Transverse post-anal groove slightly wavy, angled. Integument of body with rounded-convex protuberances of average size, larger on posterior part of body where they form a circular design. Dorsal surface of tarsus I with 5 protuberances (including apical protuberance) of which the middle is higher than others. Cheeks of female rather short, trapezoid, or bean-like; of male slightly longer and narrower. Length of female body 4.0 to 7.9 mm., width 2.3 to 5.0 mm.; length of male body 3.5 to 5.6 mm., width 1.9 to 3.5 mm. Bristles of body of moderate length, thin, sometimes slightly expanded apically.....  
 ..... 2. O. VERRUCOSUS Ol., Sas, Fen., 1934
- 6 (3) Integument of body with comparatively small protuberances, protuberances not connected and do not form any definite design. Cheeks usually entire, with a wrinkled surface and an uneven free margin; sometimes deeply cleft anteriorly or grown fast to rostrum. Hypostome of slightly mace-like form, with large denticles. Bristles of body thin, pointed, long. Tarsus I with three clearly expressed protuberances. Small and medium size ticks with oval, wide, short bodies. Length of female body 2.0 to 6.0 mm., width 0.8 to 3.5 mm.; length of male body 1.6 to 4.0 mm., width 0.8 to 2.5 mm.....  
 ..... 3. O. TARTAKOVSKIYI Olenev, 1931
- 7 (2) Cheeks composed of separate lacinae. Unpaired (post-anal) bristle present posterior of anal aperture; a pair of post-anal bristles rarely present. Bristles on body short, mostly with blunt apex, few with pointed apex. Post-palpal bristles nearly half as long as post-hypostomal bristles. Integument of body evenly covered with ribbed protuberances,
- 8 (9) Lacinae of cheeks of nearly equal size, narrow, finger-like, sometimes in 2 rows. Semilunar, sieve-like disk of spiracular plate wide, larger (than following species). Integument of body rather coarse. Tarsi I and II of female carry separate pointed bristles on ventral ribs, and also wide, blunt bristles with discoidal profile. Tarsus IV long. Hypostome (especially of male) nearly cylindrical, with a noticeable indentation at apex. Length of female body 4.1 to 5.0 mm., width 2.5 to 3.2 mm.; length of male body 2.5 to 3.5 mm., width 1.5 to 2.1 mm..... 4. O. NEREENSIS Pavlovsky, 1941

- 9 (8) Lacinae of cheeks of unequal sizes; some narrow, finger-like, others shapeless, thick. Semilunar, sieve-like disk of spiracular plate narrow, small. Integument of body softer. Tarsus I of female with pointed ventral bristles, tarsus IV with bristles pointed and slightly blunted. Tarsus IV shorter. Hypostome thinner, slightly mace-like, with a weakly discernible indentation. Length of female body 3.1 to 5.5 mm., width 1.5 to 3.5 mm.; length of male body 2.3 to 4.0 mm., width 1.4 to 3.0 mm..... 5. O. ALACTAGALIS Issaakjan, 1936
- 10 (1) Cheeks absent. Without "cross" grooves on ventral side of body posterior of anal aperture.
- 11 (12) Large ticks: length of female body 14.0 mm., width 8.0 mm.; length of male body 10.0 mm., width 5.0 mm. Grooves absent posterior of anal aperture; disk attachments of muscle strands present. Chitinous covering has a rough net of trabeculae with rounded or irregular cavities between them. Trabeculae transversally striated..... 6. O. CANESTRINI (Birula, 1895)
- 12 (11) Large ticks of regular form. Integument with a delicate star-like design. Length of female body 7.5 to 10.0 mm., width 3.0 to 5.6 mm.; length of male body 6.0 to 8.0 mm., width 3.4 to 4.5 mm..... 7. O. LAHORENSIS (Neumann, 1908)