

GENERAL CONSIDERATIONS CONCERNING THE ORDER ANOPLURA IN ROMANIA

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The purpose of this paper was to present a synthesis of the anoplurological investigations of the Romanian fauna, started 67 years ago by Dr. N. Leon [1]. Further studies were made by St. Negru and Maria Suciu [7], M. C. Voicu [9-15], C. Pisică and M. C. Voicu [8] and Zofia Wegner [16].

Investigations on the ecology of *Anoplura* [12] were made, attention being focussed on their specificity and on the adaptability of one and the same species to more hosts (e.g. *Linognathus vituli* L. on *Bubalus bubalis* L. and *Bos taurus* L.). Also investigated were: the influence of lice on their hosts, the degree of infestation in different host animals as well as the effect of environmental conditions on the mass reproduction of parasites. The Anoplura may find optimum conditions for their reproduction in winter, when animals are housed for longer periods in stables. Humidity plays a prominent part in the mass reproduction of lice in winter.

For the first time, larval stages II and III of *Enderleinellus sphaerocephalus* Nitzsch [14], larval stages of the species *Polyplax reclinata* Nitzsch [15] and the ecology of the same species have been described.

As a result of the above — mentioned investigations, 25 species and one subspecies of *Anoplura* living on 27 species and subspecies of host mammals (Table) are known in Romania at present. From the species investigated, 3 species were reported in the past on man [1], 9 species are living on 9 species of domestic mammals and 13 species and one subspecies infest 17 species and one subspecies of wild mammals.

From the systematic point of view, the study of *Anoplura* living on mammals in Romania is nearly completed; investigations concerning the biology, the ecology and geographical distribution have been partially approached.

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TABLE

The species of *Anoplura* and their hosts in Romania¹

No.	Species of lice	Hosts species
1	<i>Pediculus capitis</i> Leach	<i>Homo sapiens</i>
2	<i>Pediculus vestimenti</i> Leach	<i>Homo sapiens</i>
3	<i>Pthirus pubis</i> L.	<i>Homo sapiens</i>
4	<i>Haematopinus aperis</i> Ferris	<i>Sus scrofa attila</i> Thomas
5	<i>Haematopinus asini</i> L.	<i>Equus asinus</i> L. <i>Equus caballus</i> L.
6	<i>Haematopinus eurysternus</i> Nitzsch	<i>Bos taurus</i> L.
7	<i>Haematopinus suis</i> L.	<i>Sus scrofa domestica</i> L. <i>Sus scrofa attila</i> Thomas
8	<i>Haematopinus tuberculatus</i> Burm.	<i>Bubalus bubalis</i> L.
9	<i>Polyplax affinis</i> Burm.	<i>Apodemus sylvaticus</i> L.
10	<i>Polyplax gracilis</i> Fahr.	<i>Micromys minutus</i> Pallas
11	<i>Polyplax reclinata</i> Nitzsch	<i>Crocidura leucodon</i> Hermann <i>Crocidura suaveolens</i> Pallas <i>Mesocricetus newtoni</i> Nehring
12	<i>Polyplax reclinata leucodontis</i> Jancke	<i>Crocidura leucodon</i> Hermann
13	<i>Polyplax serrata</i> Burm.	<i>Apodemus sylvaticus</i> L. <i>Apodemus agrarius</i> Pallas <i>Apodemus flavicollis</i> Melchior <i>Crocidura suaveolens</i> Pallas
14	<i>Polyplax spinulosa</i> Burm.	<i>Rattus norvegicus</i> Berkenhout
15	<i>Neohaematopinus laeviusculus</i> Grube	<i>Citellus citellus</i> Pallas
16	<i>Hoplopleura acanthopus</i> Burm.	<i>Apodemus sylvaticus</i> L. <i>Clethrionomys glareolus</i> Schreber <i>Microtus arvalis</i> Pallas <i>Microtus agrestis</i> L. <i>Mus musculus</i> L. <i>Mus musculus spicilegus</i> Petényi <i>Rattus norvegicus</i> Berkenhout <i>Pitymys subterraneus</i> De Sélys-Longhamps
17	<i>Hoplopleura affinis</i> Burm.	<i>Apodemus agrarius</i> Pallas <i>Apodemus sylvaticus</i> L.
18	<i>Hoplopleura captiosa</i> Johnson	<i>Mus musculus spicilegus</i> Petényi
19	<i>Hoplopleura longula</i> Herm.	<i>Micromys minutus</i> Pallas <i>Mus musculus spicilegus</i> Petényi
20	<i>Schizophtirus pleurophaeus</i> Burm.	<i>Dryomys nitedula</i> Pallas
21	<i>Linognathus africanus</i> Kellogg	<i>Capra hircus</i> L.
22	<i>Linogbathus setosus</i> Olfers	<i>Canis familiaris</i> L.

23	<i>Linognathus stenopsis</i> Burm.	<i>Capra hircus</i> L. <i>Ovis aries</i> L.
24	<i>Linognathus vituli</i> L.	<i>Bos taurus</i> L. <i>Bubalus bubalis</i> L.
25	<i>Haemodipsus ventricosus</i> Denny	<i>Oryctolagus cuniculus domesticus</i> L.
26	<i>Enderleinellus sphaerocephalus</i> Nitzsch	<i>Sciurus vulgaris</i> L.

¹ Drawn up on the basis of the completn anoplurological bibliography of Romania

THE COMPLETE ANOPLUROLOGICAL BIBLIOGRAPHY OF ROMANIA

1. Leon, N.: *Bull. Med. Nat., Jassy*, 9-10: 34-41; 96-97, 1908.
2. Leon, N.: *Annuarei général de L'Université de Jassy*. — Jubilé du cinquante-naire, 97, 1911.
3. Leon, N.: *Anal. Acad. Rom., Seria a II-a, Mem. sect. st.*, 34, 2: 13-14, 1912.
4. Leon, N.: *Anal. Acad. Rom., Seria a II-a, Mem. sect. st.*, 34, 14: 157-161, 1912.
5. Leon, N.: Primejdia insectelor in timp de război si mijloacele de a le combate. — Iași 1917.
6. Leon, N.: *J. Parasit. March*, 6, 144-147, 1920.
7. Negru, Șt. și Suciu, M.: *Com. Acad. Rom.*, 9, 11: 1151-1153, 1959.
8. Pisiča, C. și Voicu, C. M.: *Stud. Com., St. Nat., Muz. jud. Suceava*, 2, 1: 219-226, 1971.
9. Voicu, M.: *Soc. Șt. Biol. R. S. R., Com. Zool., București*, 113-115, 1968.
10. Voicu, M. și Stratton, C.: *Stud. Com. Biol., seria Zool.*, 20, 6: 547-549, 1968.
11. Voicu, M.: *Stud. cercet. biol., seria Zool.*, 21, 1: 25-27, 1969.
12. Voicu, C. M.: *Stud. Com. Ocrot. Nat., Suceava*, 1, 157-161, 1970.
13. Voicu, C. M. și Cazacu, C.: *Stud. Com. Șt. Nat., Muz. jud. Suceava*, 1, 103-106, 1970.
14. Voicu, M.: *Soc. Șt. Biol. R.S.R., Com. Zool., București*, 197-202, 1970.
15. Voicu, C. M.: *Stud. Com. Șt. Nat., Muz. jud. Suceava*, 1, 107-122, 1970.
16. Wegner, Z.: *Soc. Șt. Biol. R.S.R., Com. Zool., București*, 305-314, 1970.

O BADANIACH NAD ANOPLURA W RUMUNII

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Praca przedstawia w ujęciu syntetycznym kierunki badawcze, uwypukla publikacje dotyczące ekologii, nasilenia infestacji w nawiązaniu do wpływów środowiskowych oraz morfologii rozwoju. Pełna bibliografia obejmuje prace od 1908 r. i zawiera m. in. 1 pozycję polskiego autora. W tabeli zestawiono 26 gatunków i podgatunków *Anoplura*, znanych obecnie z terenu Rumunii, wraz z żywicielami. Zdaniem autora, opracowania wymaga zwłaszcza biologia i ekologia wszyscy.