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TOPOONYMS AND ETHNONYMS IN THE NAMES OF ROVNO AMBER ANIMALS AND PLANTS

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Toponyms and Ethnonyms in the Names of Rovno Amber Animals and Plants. Perkovsky E. E. — Out of 49 names of genera described from Rovno amber, 10 names (20.4 %) are related to Ukrainian toponyms. One way or another, 15.7 % of names out of 217 animal species described from Rovno amber and 67 % out of 6 described plant species are related to Ukrainian toponyms and ethnonyms. Today, only 8 out of 217 species described from Rovno amber, are known from Baltic amber. The ratio between Ukrainian and Baltic toponyms in the names of Rovno representatives of any given family directly depends both on the degree of exploration of a family in the corresponding faunas and floras, and on the degree of a family's link with the ecosystem of the amber forest itself. Ant *Formica paleopolonica* Dlussky is recorded for Rovno amber for the first time.

Key words: Rovno amber, Baltic amber, Late Eocene, endemics, arthropods, Bryophyta, inclusion, toponym, ethnonym, Ukraine, Russia, France, Lebanon, New Jersey.

Топонимы и этнонимы в названиях животных и растений из ровенского янтаря
Перковский Е. Э. — Из 49 названий таксонов родового ранга, описанных из ровенского янтаря, с украинскими топонимами связано 10 (20,4 %). Так или иначе с украинскими топонимами и этнонимами связаны названия 15,7 % из 217 описанных из ровенского янтаря видов животных и 67 % из 6 описанных видов растений. На сегодняшний день лишь 8 из 217 видов, описанных из ровенского янтаря, известны из балтийского янтаря. Соотношение украинских и балтийских топонимов в названиях ровенских представителей того или иного семейства прямо связано как со степенью изученности семейства в соответствующих фаунах и флорах, так и с тем, насколько семейство связано с экосистемой самого янтарного леса. Муравей *Formica paleopolonica* Dlussky впервые указан для ровенского янтаря.

Ключевые слова: ровенский янтарь, балтийский янтарь, поздний эоцен, эндемики, артроподы, мхи, включения, топонимы, этнонимы, Украина, Россия, Франция, Ливан, Нью-Джерси.

Derivatives from toponyms and ethnonyms are very common in the names of animals and plants from different fossil resins. For example, 36 generic and 24 species names of animals from Early Cretaceous Lebanese amber (Azar et al., 2010; Grimaldi, Engel, 2009), included in 58 (35.6 % out of total 163) binomens (Arnold et al., 2002; Azar et al., 2010; Grimaldi, Engel, 2009) are etymologically derived from Lebanese toponyms or Phoenician theonyms and ethnonyms. Out of 104 names of animals, recorded from Late Cretaceous New Jersey amber (Grimaldi, Nascimbene, 2010), 14, or 13.5 %, are derived from toponyms of New Jersey or America in general (6 generic and 6 species names). Out of 79 names of animals found in the earliest Eocene Oise amber (Nel, Brasero, 2010; Nel et al., 2005), 17 (21.5 %, 4 generic and 13 species names) are based on Gallic toponyms and ethnonyms.

In contrast to the amber faunas referred to above (and other more ancient faunas), those from the Late Eocene succinates all have Priabonian age (Perkovsky et al., 2007, 2010; Dlussky, Rasnitsyn, 2009) and are located only some 200–500 km one from another (Perkovsky, 2011). As a result, they had many dominant species in common (Dlussky, Rasnitsyn, 2009; Perkovsky, 2013). That is why no wonder to encounter in the Baltic amber, for instance, the taxa, named “saxonicus” or “bitterfeldi”, that is, described originally from the Bitterfeldian amber (Sontag, Szadziewski, 2011) or representatives of genus *Rovnodactylomyia* Fedotova et Perkovsky, 2011 (Fedotova, Perkovsky, 2011).

Similarly to other ambers, the taxa described from the Baltic amber commonly have respective toponyms and ethnonyms. Among the Baltic amber biting midges, they take 17 out of 73 species names (23.2 %), including with toponyms and ethnonyms related with the Baltic region — 16 (21.9 %) (Perkovsky, 2013). The ants show a lower ratio: 9 (9.2 %) and 8 from 98 (8.2 %) (Dlussky, Rasnitsyn, 2009; Dlussky, Radchenko, 2009; Dlussky, 2010; Dubovikoff, 2011; Dlussky, Dubovikoff, 2013; Radchenko, Dlussky, 2013). Recently revised Bethylinae wasps in the Baltic amber have 3 from 11 species names (27.3 %) etymologically connected with Russia and Baltic coast (Ramos et al., 2014).

The degree of exploration of arthropods from various families in Rovno amber is extremely irregular; hardly a tenth of the fauna being explored (Perkovsky et al., 2010), while Ukrainian-based geographic origin of Rovno amber is still actively disputed (Sontag, Szadziewski, 2011; Szwedo, Sontag, 2013; Zakrzewska, Gilka, 2014). It is also interesting to compare representation of toponyms and ethnonyms related to various regions in the names of Rovno's animals and plants (table 1).

We presented the bibliography on the most animal names related to Ukrainian toponyms earlier (Perkovsky, Vlaskin, 2014), but that bibliography did not include several basically recent publications (Fedotova, Perkovsky, 2008, 2014, 2015; Melnitsky, Ivanov, 2013; Radchenko, Dlussky, 2013; Buffington et al., 2014; Kazantsev, Perkovsky, 2014; Konikiewicz, Mąkol, 2014; Simutnik, Perkovsky, 2015). The present is a good opportunity to fill the gap.

It is worth mentioning that when a taxon has strong relation to amber forest, its composition in the Baltic and Rovno ambers is generally more similar than in the case of taxa of less fidelity to that particular kind of vegetation. Baltic amber having long story of exploration comparing the Rovno amber, no wonder is that the Rovno insect assemblage shows a higher proportion of Baltic toponyms among its underexplored families (Perkovsky, 2013), because its knowledge relies mainly on that of the Baltic fauna. When a taxon is well-studied in both Baltic and Rovno amber, number of Baltic and Ukrainian toponyms is equal (table 2). When a taxon is best known in the Rovno amber, Baltic toponyms are rare. In contrast, the strictly amber forest insects being excluded, hardly a single Baltic toponym can be found among remaining Rovno amber insects (*Riga toni* Evenhuis, 2013 has another etymology: see Evenhuis, 2013).

Table 1. Bryophyta (fig. 1, 1) with toponyme-derived names in Rovno amber (Ignatov, Perkovsky, 2013; Konstantinova et al.; 2012; Mamontov et al., 2013, 2015)

Family (Order)	Scientific name	Source region
Frullaniaceae (Porellales)	<i>Frullania ucrainica</i> Konstant. et Ignatov, 2012	Ukraine
Lejeuneaceae (Porellales)	<i>Acrolejeunea ucrainica</i> Mamontov et al., 2013	Ukraine
Anastrophyllaceae (Jungermanniales)	<i>Anastrophyllum rovnoi</i> Mamontov et al., 2015	Ukraine
Calymperaceae (Dicranales)	<i>Calymperites ucrainicus</i> Ignatov et Perkovsky, 2013	Ukraine
Rhachitechiaceae (Dicranales)	<i>Hypnodontopsis mexicana</i> (Ther.) H. Rob., 1964	Mexico

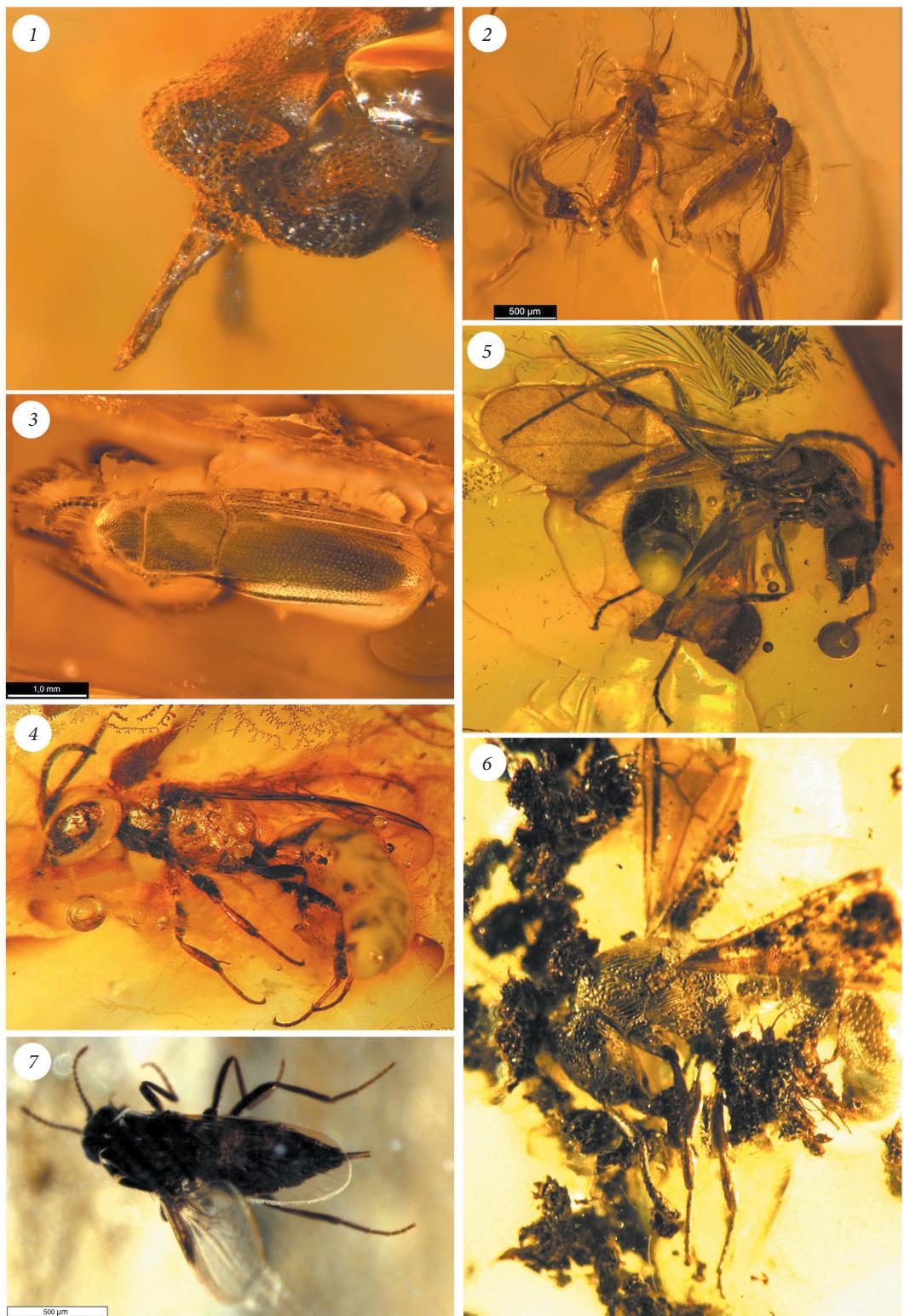


Fig. 1. Liverworts (1) and insects (2–7) from Rovno amber collection of SIZK (table 1, 2): 1—*Frullania ucrainica*, holotype; 2—*Eohelea gedanica*, male and female; 3—*Xenohimatium rovnense*, holotype; 4—*Rovnoecus klesovicus*, holotype; 5—*Leptoconops rovnensis*, holotype; 6—*Bilobomyrma ukrainica*, holotype; 7—*Gnampogenys europaea*, neotype.

Table 2. Rovno amber arthropods (fig. 1, 2–7) names, derived from toponyms and ethnonyms

Family (Order)	Scientific name	Source region
Trombidiidae (Acari)	<i>Paratrombium rovniense</i> Konikiewicz et Mąkol, 2014	Ukraine
Mimetidae (Aranei)	<i>Succinero rovnoensis</i> Wunderlich, 2004	Ukraine
Anapidae (Aranei)	<i>Balticonopsis perkovskyi</i> Wunderlich, 2004	Baltic
Buthidae (Scorpiones)	<i>Palaeoananteris ukrainensis</i> Lourenço et Weitschat, 2009	Ukraine
Capniidae (Plecoptera)	<i>Rovnacapnia amrita</i> Sinitshenkova, 2009	Ukraine
Capniidae (Plecoptera)	<i>Rovnacapnia atra</i> Sinitshenkova, 2009	Ukraine
Eriosomatidae (Hemiptera)	<i>Germaphis baltica</i> Heie, 1967	Baltic
Eriosomatidae (Hemiptera)	<i>Germaphis (Balticorostrum) oblonga</i> Heie, 1967	Baltic
Ceratopogonidae (Diptera)	<i>Brachypogon balticus</i> Szadziewski, 1988	Baltic
Ceratopogonidae (Diptera)	<i>Ceratopogon bitterfeldi</i> Szadziewski, 1993	Saxony-Anhalt
Ceratopogonidae (Diptera)	<i>Gedanohelea loewi</i> Szadziewski, 1988	Baltic
Ceratopogonidae (Diptera)	<i>Eohelea gedanica</i> Szadziewski, 1988	Baltic
Ceratopogonidae (Diptera)	<i>Leptoconops rovnensis</i> Sontag et Szadziewski, 2011	Ukraine
Psychodidae (Diptera)	<i>Sycorax ukrainensis</i> Azar, Nel et Perkovsky, 2013	Ukraine
Cecidomyiidae (Diptera)	<i>Tutkowskia ukrainica</i> Fedotova et Perkovsky, 2008	Ukraine
Cecidomyiidae (Diptera)	<i>Volnococcopsis korniushini</i> Fedotova et Perkovsky, 2008	Ukraine
Cecidomyiidae (Diptera)	<i>Rovnididactylomyia zosimovichi</i> Fedotova et Perkovsky, 2011	Ukraine
Cecidomyiidae (Diptera)	<i>Rovnididactylomyia sidorenkoi</i> Fedotova et Perkovsky, 2011	Ukraine
Cecidomyiidae (Diptera)	<i>Rovnididactylomyia iconica</i> Fedotova et Perkovsky, 2011	Ukraine
Cecidomyiidae (Diptera)	<i>Rovnididactylomyia zhitomirensis</i> Fedotova et Perkovsky, 2015	Ukraine
Cecidomyiidae (Diptera)	<i>Gulyaniola nazarenkoi</i> Fedotova et Perkovsky, 2015	Ukraine
Cecidomyiidae (Diptera)	<i>Brachineura polessica</i> Fedotova et Perkovsky, 2013	Ukraine
Cecidomyiidae (Diptera)	<i>Rovnobrachineura kiryeyevi</i> Fedotova et Perkovsky, 2013	Ukraine
Ichneumonidae (Hymenoptera)	<i>Rovenosa rasnitsyni</i> Khalaim, 2011	Ukraine
Bethylidae (Hymenoptera)	<i>Laelius rovnenensis</i> Barbosa et Azevedo, 2013	Ukraine
Bethylidae (Hymenoptera)	<i>Sierola rovniiana</i> Ramos et Azevedo, 2014	Ukraine
Bethylidae (Hymenoptera)	<i>Eupsenella klesoviana</i> Ramos et Azevedo, 2014	Ukraine
Megalyridae (Hymenoptera)	<i>Ukrainosa* prolata</i> Perrichot et Perkovsky, 2009	Ukraine
Encyrtidae (Hymenoptera)	<i>Rovnosoma gracile</i> Simutnik, 2015	Ukraine
Figitidae (Hymenoptera)	<i>Rovnoeucoila tympanomorpha</i> Buffington et Perkovsky, 2014	Ukraine
Crabronidae (Hymenoptera)	<i>Rovnoecus klesovicus</i> Antropov, 2009	Ukraine
Formicidae (Hymenoptera)	<i>Yantaromyrmex samlandicus</i> (Wheeler, 1915)	Baltic
Formicidae (Hymenoptera)	<i>Dolichoderus balticus</i> (Mayr, 1868)	Baltic
Formicidae (Hymenoptera)	<i>Dolichoderus polessus</i> Dlussky, 2002	Ukraine
Formicidae (Hymenoptera)	<i>Asymphylomyrmex balticus</i> Wheeler, 1915	Baltic
Formicidae (Hymenoptera)	<i>Formica paleopolonica</i> Dlussky, 2008 **	Baltic
Formicidae (Hymenoptera)	<i>Tetraponera europaea</i> Dlussky, 2009	Europe
Formicidae (Hymenoptera)	<i>Gnamptogenys europaea</i> (Mayr, 1868)	Europe
Formicidae (Hymenoptera)	<i>Carebara ucrainica</i> (Dlussky, 2002)	Ukraine
Formicidae (Hymenoptera)	<i>Bilobomyrma ukrainica</i> Radchenko et Dlussky, 2013	Ukraine
Ptiliidae (Coleoptera)	<i>Ptinella rovnoensis</i> Polilov et Perkovsky, 2004	Ukraine
Cantharidae (Coleoptera)	<i>Malthodes rovnoensis</i> Kazantsev et Perkovsky, 2014	Ukraine
Cryptophagidae (Coleoptera)	<i>Micrambe sarnensis</i> Lyubarsky et Perkovsky, 2010	Ukraine
Erotylidae (Coleoptera)	<i>Xenohimatium rovnense</i> Lyubarsky et Perkovsky, 2012	Ukraine
Curculionidae (Coleoptera)	<i>Taphramites rovnoensis</i> Petrov et Perkovsky, 2008	Ukraine
Polycentropodidae (Trichoptera)	<i>Plectrocnemia ukrainica</i> Melnitsky et Ivanov, 2013	Ukraine
Leptoceridae (Trichoptera)	<i>Triplectides palaeoslavicus</i> Melnitsky et Ivanov, 2010	Ukraine

* Synonymized with *Prodinapsis* Brues, 1923 (Vilhelmsen et al., 2010).

** First record for Rovno amber (Dlussky, pers. com., 2013).

Note. The scientific names in the table are given after Heie, 1967; Fedotova, Perkovsky, 2008, 2014, 2015; Dlussky, Rasnitsyn, 2009; Melnitsky, Ivanov, 2010; Perkovsky, 2010; Sontag, Szadziewski, 2011; Perkovsky, Vlaskin, 2014; Simutnik, Perkovsky, 2015 with explanations in the text.

Fourty-seven names of Rovno animals and 5 names of plants are derived from the toponyms and ethnonyms, out of which, correspondingly, 34 (72.3 %) and 4 (80 %) are related to Ukraine and only 10 animal names (21.3 %) to the Baltic region. Out of 49 names of genera described from Rovno amber, 10 (20.4 %) come from Ukrainian toponyms; second species of *Bilobomyrma* Radchenko et Dlussky and two species of *Rovnodidactylomyia* are known from Baltic amber, *Fallomyrma* Radchenko et Dlussky — from Scandinavian amber and Bitterfeld, other genera known only from Rovno amber. The names of 15.7 % out of 217 animal species described from Rovno amber, and 67 % out of 6 plant species, are derived, one way or another, from Ukrainian toponyms and ethnonyms. Three binomens connected with Klesov deposit (Perkovsky, Vlaskin, 2014), one — with Dubrovitsa (Volnoje), one — with Gulyanka; the second species from Gulyanka (*Rovnodidactylomyia zhitomirensis* Fedotova et Perkovsky, 2015) combines the names derived from two Polesje regions in one binomen.

As of today, just 8 out of 217 animal species described from Rovno amber are recorded in Baltic amber (Perkovsky, Rasnitsyn, 2013), including *Dolichoderus polessus* Dlussky (Dlussky, Rasnitsyn, 2009) (table 2); while Bryophyta described from Rovno amber are unknown in the well-explored Baltic amber bryoflora. All mentioned Rovno amber material housed in Schmalhausen Institute of Zoology, NAS of Ukraine (SIZK).

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