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Abraham S. H. Breure, Dominika Mierzwa-Szymkowiak, and Magdalena Kowalewska-Groszkowska

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TYPE MATERIAL OF SOUTH-AMERICAN LAND SNAILS (MOLLUSCA: GASTROPODA) OF WŁADYSŁAW EMANUEL LUBOMIRSKI COLLECTION DEPOSITED IN THE MUSEUM AND INSTITUTE OF ZOOLOGY, WARSAW, POLAND

ABRAHAM S. H. BREURE^{1,2,3}, DOMINIKA MIERZWA-SZYMKOWIAK^{4,*},
and MAGDALENA KOWALEWSKA-GROSZKOWSKA⁴

¹Royal Belgian Institute of Natural Sciences, Brussels, Belgium

²Natural History Museum, Invertebrate Division / Dept. of Life Sciences, London,
United Kingdom

³Naturalis Biodiversity Center, Leiden, the Netherlands
ORCID: 0000-0001-9357-0501

⁴Museum and Institute of Zoology PAS, Warsaw, Poland

*Corresponding author: e-mail: dmierzwa@miz.waw.pl

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Abstract.— A brief biography is presented of Władysław Emanuel Lubomirski (1824–1882). Type material of species described by him which is present in the Museum and Institute of Zoology PAS is documented. Eponyms given to Lubomirski and some notes on the importance of his collection are also given.



Key words.— Mollusca, Gastropoda, type material, eponyms

INTRODUCTION

Natural history museums harbour important collections that allow us to study the biodiversity of different regions of the world, and while extinction of molluscan species becomes more and more evident (IUCN 2015, Régnier *et al.* 2015, Cowie *et al.* 2022), the importance of historical collections may become more valued. The Museum and Institute of Zoology of the Polish Academy of Sciences (MIZ PAS) contains one such historical

collection, that of Władysław E. Lubomirski. This private collector spent many years and a considerable amount of funds in bringing this collection together. We aim to present in this paper a summary of biographical data on Lubomirski, notes on the nine new molluscan taxa described by Lubomirski, the eponyms named after him, together with a valuation of his collection for Neotropical malacology based on the new taxa described from it. To provide context we also give a historical overview of the malacological collection in MIZ PAS.

METHODS

For each taxon the original publication in which the taxon was proposed is mentioned, together with the type locality in the original wording and language, and the original dimensions of the type specimen(s). The text of the original, or oldest, label is quoted *verbatim*, together with information from subsequent labels if this helps in the interpretation of the status of the material. All labels have been photographed and figured for future reference. The photographs of the new molluscan taxa described by Lubomirski and dimensions of the type specimens have been taken with a 4K Ultra-high accuracy microscope VHX-7000 Series by KEYENCE located in the Museum and Institute of Zoology PAS. The original labels were scanned with the Canon CanoScan LiDE 400. The current systematic position is following MolluscaBase (2022). Abbreviations: H, shell height; D, diameter of shell; W, number of whorls; n.c., no code (in historical context).

Władysław Emanuel Lubomirski: a biography

Born on 19 June 1824 in Stanisławów in the Mogilev Governorate (currently Belarus), he was the second son of Prince Eugeniusz and Maria Lubomirski, née Czacka. Władysław was orphaned at a young age (his mother died when he was three and his father seven years later) (Wrześniowski 1882). Władysław received education in Krzemieniec, Kiev and Tsarskoye Selo (currently Pushkin) near Petersburg (Pawłowski 2006). After graduating from schools, Lubomirski was soon back in Stanisławów and engaged in property management. During the January Uprising (1863–1864) he was a commissar of the voivodeship and for that he was arrested and exiled to Russia. After the return from his exile, in 1867, he settled permanently in Warsaw (Kowalska 1973, 1987). There he established contacts with Counts Konstanty (1824–1884) and Aleksander Branicki (1821–1877). Like the Branicki brothers, he became one of the patrons of the Zoological Cabinet in Warsaw (Kowalska 1973; Suchodolski *et al.* 1983). Lubomirski financed expeditions e.g., natural history studies of Benedykt Dybowski (1833–1930) in Siberia, purchases of collections, and publications (Kazubski 1996; Riedel & Pokryszko 1999; Pawłowski 2006). He began collecting shells from all over the world, mainly by purchasing them from specialised trade companies and by financing explorations of Polish naturalists, like Konstanty Jelski (1837–1896) and Jan Sztolcman (1854–1928). Within 15 years he created a scientific collection of shells including around 8,000 species (ca. 40 000 specimens), and created a malacological library of 305 volumes (Laszczkowska 1965, Kowalska 1987). Near the end of his life he began

describing South American snails sent by Jelski and Sztolcman (Lubomirski 1879, 1880). He was preparing a third one, based on shells collected in Peru by Sztolcman, but because of his untimely death Lubomirski could not finish it (Wrześniowski 1882). Together with his younger brother, Jan Tadeusz Lubomirski (1826–1908), they covered the costs of the first publication of the Zoological Cabinet – Wiadomości z Nauk Przyrodzonych [Natural History News]. Only two editions were issued, in 1880 and in 1882 (Kowalska 1973, Kazubski 1996). Prince Władysław E. Lubomirski was a member of Société Zoologique de France, and died on the 24th February 1882 in Warsaw.

RESULTS

The molluscan taxa described by Lubomirski

Guesteria branickii Lubomirski, 1879 (Figs 1A–D)

Guesteria branickii Lubomirski, 1879: 113, figs 1–6; Lubomirski, 1880: 728.

Data of original description. Dimensions. ‘Diam. maj. 8, min. 5, alt. 3,5 mill.’; figured specimen H 3.8 mm, D 7.9 mm, W 0.9. Type locality. ‘Pérou, Tambillo, dans des montagnes, sous des feuilles mortes’ [Peru, Dept. Cajamarca, Tambillo, in the mountains, under leaf litter].

Types. Syntypes MIZ PAS 3483 (5, MIZ PAN MOL078549-078553). Data label. ‘Tambillo, Peru’.

Current status. Scolodontidae, *Guesteria branickii* Lubomirski, 1879.

Remarks. Lubomirski (1879: 113) stated he had ‘Cinq exemplaires de cette espèce nouvelle, dont deux renfermaient encore l’animal’ [Five specimens of this new species, two of which still contained the animal], he was therefore also able to give details of the radula and an egg. The erroneous use of *Guesteria* by Lubomirski is an incorrect subsequent spelling of *Guesteria* Crosse, 1872.

Clausilia chacaensis Lubomirski, 1880 (Figs 1E–G)

Clausilia chacaensis Lubomirski, 1880: 727, pl. 56 figs 12–15.

Data of original description. Dimensions. ‘Long. 14, diam. 2 1/2 mill. Apert. 4 mill longa, 2 lata’; figured specimen H 12.5 mm, D 3 mm, W 7.9. Type locality. [Peru] ‘Des environs de Chaca, à une heure de distance de Huanta’ [Dept. Ayacucho, Prov. Huanta, Chaca].

Types. Syntypes MIZ PAS n.c. (17 + 1 fragment, MIZ PAN MOL010639, 078617-078632). Data label. ‘Chaca prope Huanta’.

Current status. Clausiliidae, *Incania chacaensis* (Lubomirski, 1880).

Remarks. Five other lots with multiple specimens, all collected by Jelski in 1873, are in MIZ PAS.

Clausilia filocostulata Lubomirski, 1880
(Figs 1H–J)

Clausilia filocostulata Lubomirski, 1880: 727, pl. 56 figs 8–9.

Data of original description. Dimensions. ‘Long. 17, diam. 4 mill. Apert. 3 mill. longa, 2 lata’; figured specimen H 16.9 mm, D 3.7 mm, W 7.9. Type locality. [Peru] ‘Escalon, entre Tunin [sic, Junin] et Obrajillo’ [Dept. Junin, Prov. Jauli, Escalón].

Types. Syntypes MIZPAS n.c. (16 + 3 fragments, MIZ PAN MOL078638-078653). Data label. ‘Escalon inter Junin et Obrajillo’.

Current status. Clausiliidae, *Gacilinenia filocostulata* (Lubomirski, 1880).

Remarks. The material was collected by Jelski in 1872. Five lots with multiple specimens are present in MIZ PAS.

Bulimus (Orphnus) jelskii Lubomirski, 1880
(Figs 2A–C)

Bulimus (Orphnus) jelskii Lubomirski, 1880: 722, pl. 56 figs 1–2.

Data of original description. Dimensions. ‘Long. 35, diam. 15 mill. Apert. 17 mill. longa, 8 lata’; figured specimen H 33.6 mm, D 14.9 mm, W 6. Type locality. [Peru] ‘Amable Maria, près de Tarma, envoyé (...) par M. Jelski, en un seul exemplaire’ [Dept. Junin, Chanchamayo valley, Quebrada Amable Maria].

Types. Holotype MIZ PAS n.c. (MIZ PAN MOL 008588). Data label. ‘Amable Maria’.

Current status. Orthalicidae, *Scholvenia jelskii* (Lubomirski, 1880).

Remarks. The single specimen, collected by Jelski in 1872, is actually slightly smaller than the shell height given by Lubomirski. There is another label stating ‘Mr Crosse pense que cette espèce est nouvelle, si on veut la publier, il faudrait la renvoyer et donner des renseignements et détails sur la localité &c.’ [Mr. Crosse thinks that this species is new, if it is to be published, it should be sent back with information and details of the locality etc.].

Helix (Systrophia) pseudoplanorbis Lubomirski, 1880
(Figs 2D–G)

Helix (Systrophia) pseudo-planorbis Lubomirski, 1880: 719, pl. 55 figs 1–3.

Data of original description. Dimensions. ‘Diam. maj. 16 1/2, min. 8, alt. 3 mill.’; figured specimen H 3.7 mm, D 14.9 mm, W 5.3. Type locality. [Peru] ‘Pujupé, entre Hualgauyoc et Chota, à 10,000 pieds d’altitude (...) envoyée par M. Stolzmann au nombre d’une cinquantaine d’exemplaires’ [Dept. Cajamarca, between Hualgayoc and Chota, ‘Pujupé’].

Types. Syntypes MIZ PAS 3601 (38, MIZ PAN MOL041774-041811), 3622 (3, MIZ PAN MOL078633-078635), n.c. (2, MIZ PAN MOL078636-078637). Data label. ‘Pujupé Peruviae’.

Current status. Scolodontidae, *Systrophia pseudoplanorbis* (Lubomirski, 1880).

Remarks. The locality ‘Pujupé’ cannot be found in modern gazetteers, but is likely in the vicinity of Bambamarca which lies in between the two localities mentioned by Lubomirski. In the MIZ PAS collection two other lots are present which might be considered as syntypes. One lot, with two specimens, is from ‘Pujupé’. The second lot, comprising three specimens and explicitly stated as collected by Stolzmann, is from ‘Bambamarca’ (Fig. 2G).

Clausilia slosarskii Lubomirski, 1880
(Figs 2H–J)

Clausilia slosarskii Lubomirski, 1880: 726, pl. 56 figs 5–7.

Data of original description. Dimensions. ‘Long. 22–26, diam. 5–5 1/2 mill. Apert. 5–5 1/2 mill. longa, 5 lata’; figured specimen H 24.4 mm, D 6 mm, W 6.5. Type locality. [Peru] ‘Pumamarca’.

Types. Syntypes MIZ PAS 14153 (3, MIZ PAN MOL078554-078556), n.c. (10 + 2 fragments, MIZ PAN MOL078559-078568), n.c. (2, ex coll. Poliński, MIZ PAN MOL078557-078558), n.c. (24, MIZ PAN MOL078569-078592). Data label. ‘Pumamarca’.

Current status. Clausiliidae, *Peruina slosarskii* (Lubomirski, 1880).

Remarks. The material was collected by Sztolcman in 1878 (Lubomirski, 1880) or 1877 (label text). There are two localities known in modern gazetteers as ‘Pumamarca’, one in Dept. Apurímac, the other in Dept. Huancavelica. However, without knowledge of Sztolcman’s itinerary it is difficult to pinpoint the type locality as this may have been a local name (see below).

Helix (Isomeria) stolzmanni Lubomirski, 1880
(Figs 3A–D)

Helix (Isomeria) stolzmanni Lubomirski, 1880: 720, pl. 55 figs 4–6.

Data of original description. Dimensions: ‘Diam. maj. 40, min. 33, alt. 17 mill.’; figured specimen H 17.5 mm, D 37.7 mm, W 4.0. Type locality. [Peru,

Dept. Cajamarca] ‘Montaña de Palto, près de Tambillo, district de Chota, trouvées par M. Stolzmann (...), un exemplaire vivant, (...) et 4 exemplaires morts’.

Types. Lectotype (Solem, 1966: 176) MIZ PAS 4436, paralectotypes MIZ PAS 4436 (MIZ PAN MOL041848). (3, MIZ PAS MOL078614-078616). Data label. ‘Tambillo Peru’.

Current status. Labyrinthidae, *Isomeria stolzmanni* (Lubomirski, 1880).

Remarks. The material was collected by Sztolcman in May 1877, and described on the basis of ‘one specimen living having all the colours, and four dead specimens’; one specimen is now lost. Solem (1966: fig. 50) mentioned and figured two specimens, one of which he incorrectly considered as holotype. The locality ‘Tambillo’ near Chota cannot be located with modern gazetteers, nor Cerro Palto.

Clausilia taczanowskii Lubomirski, 1880
(Figs 3E–G)

Clausilia taczanowskii Lubomirski, 1880: 726, pl. 56 figs 3–4.

Data of original description. Dimensions. ‘Long. 22–25, diam. 6 mill. Apert. 6 mill. longa, 4 1/2 lata’; figured specimen H 25.5 mm, D 7.2 mm, W 6.8. Type locality. [Peru, Dept. Cajamarca] ‘Bambamarca’.

Types. Syntypes MIZ PAS n.c. (15, MIZ PAN MOL078605-078607), 14153 (6, MIZ PAN MOL078608-078613). Data label. ‘Bambamarca’.

Current status. Clausiliidae, *Andinia taczanowskii* (Lubomirski, 1880).

Remarks. Lubomirski did not mention how many specimens his description was based. Lot 14153 has an original label stating ‘Pumamarca’, which is likely a local name as we have not been able to trace this locality near Bambamarca; the specimens also have a modern label which mentions ‘Peru: Bambamarca prope Chota’.

Bulimus (Porphyrobaphe) wrzesniowski
Lubomirski, 1880
(Figs 3H–J)

Bulimus (Porphyrobaphe) wrzesniowski Lubomirski, 1880: 721, pl. 55 figs 7–8.

Data of original description. Dimensions. ‘Long. 78, diam. 37 mill. Apert. cum perist. 42 mill. longa, intus 16 mill. lata, perist. 4 mill. latum’; figured specimen H 76.5, D 37.1, W 5.8. Type locality. [Peru, Dept. Cajamarca, Chota district] ‘Tambillo, envoyé par Mr. Stolzmann en 1878, en un seul exemplaire’.

Types. Holotype MIZ PAS n.c. (MIZ PAN MOL 008603). Data label. ‘Tambillo’.

Current status. Orthalicidae, *Sultana (Metorthalicus) wrzesniowski* (Lubomirski, 1880).

Remarks. Breure & Mogollón Avila (2016: 78), not having contextual information about the type specimen, erroneously located Tambillo in the wrong Department.

Eponyms

Helix (Fruticicola) lubomirskii Ślósarski, 1881: 29–30 (Mollusca, Gastropoda). See Páll-Gergely *et al.* (2013: 93–94) and Lesicki *et al.* (2013) for a discussion on the correct spelling of this name.

Nenia lubomirskii Poliński, 1921: 134–136 (Mollusca, Gastropoda, Clausiliidae)

Hyale lubomirskii Wrzesniowski, 1879: 177 (Arthropoda, Amphipoda).

Marpissa lubomirskii Taczanowski, 1879a: 319, pl. 4 fig. 8 (Arthropoda, Arachnida).

Mycetophila lubomirskii Dziedzicki, 1884: 304–305, pl. 8 figs 19–22; Dziedzicki 1886: 229 (Arthropoda, Diptera).

Pipreola lubomirskii Taczanowski, 1879b: 236, pl. 22 (Aves, Passeriformes).

Lubomirskia Dybowski, 1878: 31 (Porifera, Demospongiae).
Lubomirskiidae Weltner, 1895: 131 (Porifera, Demospongiae).

DISCUSSION

While we know that Jelski passes through Paris and met with Crosse before he travelled to South America (Breure, unpublished data), the finding of the label with *Bulimus (Orphnus) jelskii* suggests that Crosse may have received the material collected by Jelski before it came to Lubomirski. However, we have no indication of further correspondence between Lubomirski and Crosse (Breure & Audibert 2017). The description of a new *Guestieria* species (Lubomirski 1879) included also figures of the radula and an egg, which was quite unusual for that time. Apparently the animals had been collected alive but dried during transport since he wrote ‘Les deux coquilles (...) ont été traitées par l’humidité. Le professeur Ślósarski est parvenu à retrouver la plaque linguale’ [Both shells (...) were treated with moisture. Professor Ślósarski managed to find the lingual plate].

Besides the new taxa described from Lubomirski’s collection, it is evident that this source of material was the basis for research of Antoni Wagner on Helicinidae (Richling 2005), and of Poliński on Clausiliidae. Beyond malacology, Lubomirski financially enabled Jelski and Sztolcman to collect many other animals and plants, which has led to many papers by various authors and enriched our knowledge of the Neotropical biodiversity. Prince Lubomirski has truly been a royal ‘Maecenas’ of science in his time.

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Figure 1. The shells of new molluscan taxa described by Lubomirski and original labels: (A–D) *Guestieria branickii* (Lubomirski, 1879) (syntype); (E–G) *Clausilia chacaensis* (Lubomirski, 1880) (syntype); (H–J) *Clausilia filocostulata* (Lubomirski, 1880) (syntype).



Figure 2. The shells of new molluscan taxa described by Lubomirski and original labels: (A–C) *Bulimus (Orphnus) jelskii* (Lubomirski, 1879) (holotype); (D–G) *Helix (Systrophia) pseudoplanorbis* (Lubomirski, 1880) (syntype); (H–J) *Clausilia slosarskii* (Lubomirski, 1880) (syntype).

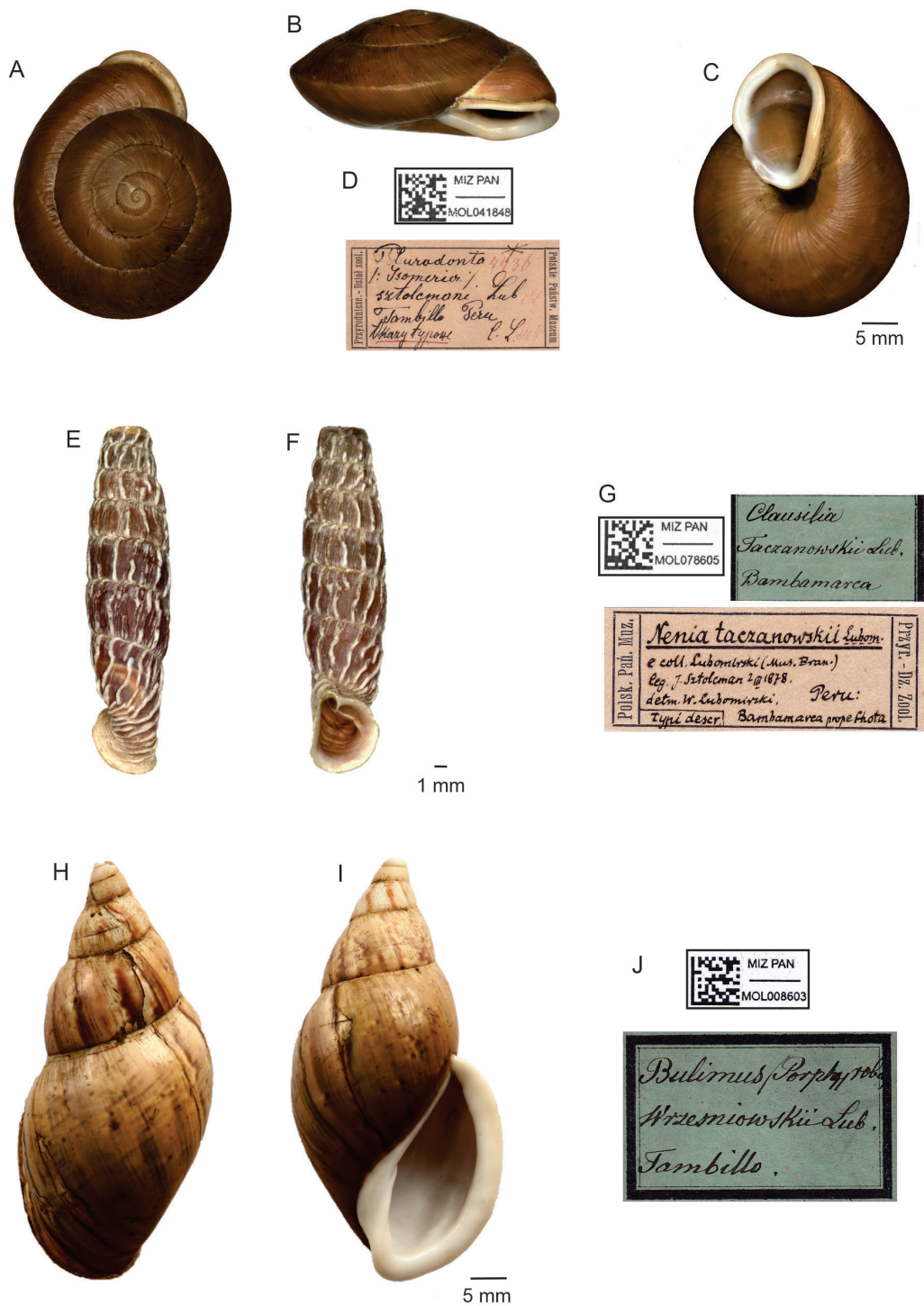


Figure 3. The shells of new molluscan taxa described by Lubomirski and original labels: (A–D) *Helix (Isomeria) stolzmanni* (Lubomirski, 1879) (lectotype); (E–G) *Clausilia taczanowskii* (Lubomirski, 1880) (syntype); (H–J) *Bulimus (Porphyrobaphe) wrzesniowskii* (Lubomirski, 1880) (holotype).