

THE EXOTIC BIRDS' COLLECTION OF THE ZOOLOGICAL MUSEUM (UNIVERSITY BABEȘ-BOLYAI) FROM CLUJ-NAPOCA (ROMANIA)

ANGELA PETRESCU, DELIA CEUCA

Abstract. *We present the bird collection catalogue of the world fauna from the patrimony of the Zoological Museum of Cluj (founded in 1859). The studied collection includes 221 specimens belonging to 172 species, 59 families, 18 orders. Especially, we mention a small hummingbird collection made of 45 specimens, 38 species; some endemic species, three from Brazil (*Malacoptila striata*, *Hemithraupis ruficapilla*, *Paroaria dominicana*) and *Apteryx oweni* (New Zealand). Also, the collection includes other distinguished species as: *Goura victoriae*, *Argusianus argus grayi*, *Tragopan melanocephalus*, *Lophophorus impejanus*.*

Keywords: *catalogue, collection, exotic bird, museum, Cluj (Romania).*

Rezumat. Colecția de păsări exotice a Muzeului Zoologic (Universitatea Babeș-Bolyai) din Cluj (România). *Prezentăm catalogul colecției de păsări din fauna mondială din patrimoniul Muzeului de Zoologie din Cluj (înființat în 1859). Colecția studiată cuprinde 221 de exemplare încadrate în 172 de specii, 59 de familii, 18 ordine. Remarcăm în mod deosebit o mică colecție de colibri alcătuită din 45 de exemplare, 38 de specii; câteva endemite, trei din Brazilia (*Malacoptila striata*, *Hemithraupis ruficapilla*, *Paroaria dominicana*) și *Apteryx oweni* (Noua Zeelandă). Colecția conține și alte specii deosebite ca: *Goura victoriae*, *Argusianus argus grayi*, *Tragopan melanocephalus*, *Lophophorus impejanus*.*

Cuvinte cheie: *catalog, colecție, păsări, fauna mondială, muzeu, Cluj (România).*

INTRODUCTION

The Zoological Museum of Cluj belongs to the „Babeș-Bolyai” University and it was founded in 1860; it was only one part of the Museum of Transylvanian Society. The department of natural sciences of the Transylvanian Society Museum developed then, separately, affiliated to the University (because the museum had several sections: archaeology, art, etc.). The department of natural sciences began its activity in 1861 after the museum got some small donations. From 1864, HERMAN OTTO (1835-1914) organized the collection of zoology as aid director delegated, who also began to lay the foundation of the ornithological collection (MUNTEANU, 1979-1980). While working at the museum until 1871, HERMAN OTTO had a rich publishing and museological activity. He collected zoological material and published many works of ornithology and about other groups of invertebrates. His activity was recalled by MUNTEANU (op.cit.) in a very well documented study.

LUDWIG FÜHRER had a special part in the organization of this remarkable collection; he was a passionate ornithologist, who collected a large number of birds (naturalized and mounted exhibits or skins) between 1904 and 1911, as long as he worked at the Transylvanian Society Museum (FILIPAȘCU, 1966.). Since 1922, the museum has been subordinated to the Zoology Chair of the faculty of Natural Sciences and Geography (University of King Ferdinand I), renamed „Babeș-Bolyai” University after 1950.

Although it has an obvious educational character, the museum can be visited by the general public. Scientifically and according to the number of the preserved specimens, the Zoological Museum is the second after „Grigore Antipa” Museum, continuously enriching its patrimony by collecting, donations and acquisitions (CEUCA, 2006). For the time being, the ornithological collection includes birds from Romania, especially from Transylvania, thousands of naturalized-mounted specimens, some hundreds of skins and about 4,000 bird eggs. Besides, in the public exhibition and in scientific collection there are more than 221 birds of the world fauna, most of them unidentified. The entire collection was a little studied, and the results were published in a few papers: FILIPAȘCU et al., (1965), FILIPAȘCU (1966), MUNTEANU (1979-1980), GHERGHEL (1988, 1989a, b, c, 1997), CEUCA (2006, 2007).

MATERIAL AND METHOD

Studied material includes over 221 specimens, out of which 153 are in the public exhibition, partially identified, and 68 specimens of the scientific collection, which are were unidentified. Unfortunately, many of them have no data. For each specimen, I mentioned the scientific name, author, English, French and Romanian name. I took the Romanian name from a few publications of science popularization, which were released in Romania (RIETSCHER et al., 1964; RADU, 1983). For many species I have not found proper Romanian names. For some of them I have updated their scientific names, but also I let the old name, which is in the collection register book, for not creating confusions. With regard to the taxonomy, I used the papers signed by SIBLEY & MONROE (1990), DICKINSON (2003) and web page ALAN P. PETERSON (zoonomen.net).

Used abbreviation: w.d.=without data; m=naturalized-mounted specimen; s=skin; ♂=male; ♀=female; sp=specimen; sps=specimens; coll. no.=collection number; w. coll. no.=without collection number; juv.=juvenile; ad.=adult; Zoological Garden=Zoo.

RESULTS AND DISCUSSIONS

The 221 birds of the world fauna included in the patrimony of the Zoological Museum of Cluj belong to 172 species, 59 families and 18 orders. We present the catalogue of this collection as a taxonomical list. The birds are naturalized and mounted, and only four are skins. From the zoogeographical point of view, the 172 species originate in different continents: South America, Africa, Asia, Europe, Australia. Those from South America are prevalent, as a matter of fact from the neotropical region. The hummingbirds collection distinguishes. It includes 45 specimens of 38 species and *Eudocimus ruber*, *Crax fasciolata*, *Coragyps atratus*, *Ara macao*, *Crotophaga ani*. Also from this region there are three endemic species of Brazil: *Malacoptila striata* (Fam. Bucconidae), *Hemithraupis ruficapilla* (Fam. Thraupidae), *Paroaria dominicana* (Fam. Emberizidae). The collection includes other rare species, too: *Goura victoriae*, *Argusianus argus grayi*, *Tragopan melanocephalus*, *Lophophorus impejanus* from Asia and *Apteryx oweni* (endemic species from New Zealand) acquired in 1877/78. During the same period, *Struthio camelus* was also acquired. In 1961, the Museum of Cluj received a donation of 9 birds from „Grigore Antipa” Museum of Bucharest. From these items we mention two: *Lagopus mutus* from Canada, donated by Nicolae Ghica Comănești and *Streptopelia chinensis* (Sumatra) donated by C. Eberle, two great donors of the museum of Bucharest.

Ord. STRUTHIONIFORMES

Fam. STRUTHIONIDAE

- *Struthio camellus* LINNAEUS, 1758 - Ostrich, Autruche d’Afrique, Struț african: 1 sp., coll. no. 625/3, m., w.d.

Fam. RHEIDAE

- *Rhea americana* (LINNAEUS, 1758) - Greater Rhea, Nandou d’Amérique, Nandu: ♂, coll. no. 136720, Zoo. Bucharest (Romania); ♀, coll. no. 136723, Zoo. Bucharest (Romania); 1 juv., coll. no. 625/1, m., Zoo. Bucharest (Romania), w.d.

Fam. CASUARIDAE

- *Casuaris casuaris* (LINNAEUS, 1758) - Southern Cassowary, Casoar à casque, Casuar: 2 sps., coll. no. 625/2, 625/3, Australia, Zoo. Bucharest (Romania), m., A.G.V.P.S., Bucharest.

Fam. PTERYGIDAE

- *Apteryx oweni* GOULD, 1847 - Little Spotted Kiwi, Kiwi d’Owen, Kiwi: 1 sp., coll. no. 1531, m., w.d.

Ord. GALLIFORMES

Fam. CRACIDAE

- *Crax fasciolata* SPIX, 1825 - Bare-faced Currassow, Hocco à face nue, Cocoș Hocco: *Crax schlateri*, 1 sp., coll. no. 703, m., Brazil, w.d.

Fam. NUMIDIDAE

- *Numida meleagris* (LINNAEUS, 1758) - Helmeted Guinea fowl, Pintade de Numidie, Bibilică: coll. no. 11312, m., 1 sp., w.d.

Fam. PHASIANIDAE

- *Meleagris ocellatus* CUVIER, 1820 - Ocellated Turkey, Dindon ocellé: *Meleagris gallopavo*, 1 sp., coll. no. 930 (D25), m., w.d.
- *Lagopus mutus* (MONTIN, 1781) - Rock Ptarmigan, Lagopède alpin, Potârniche de tundră: 1 sp., ♂, 3 sps, ♂♂, m., w.d.
- *Alectoris rufa* (LINNAEUS, 1758) - Red Legged Partridge, Perdrix rouge, Potârniche cu picioare roșii: 1 sp, coll. no. 711, S-W Europe, w.d.
- *Alectoris chukar sinaica* (BONAPARTE, 1858) - Chukar Partridge, Perdrix choukar, Potârniche de stâncă asiatică: ♂, no coll. 705/2, m., Israel, 19. 12. 1962.
- *Alectoris chukar cypristes* (HARTERT, 1925), 1 sp., no coll. 705/1, m., Israel, 28.VI.1965.
- *Francolinus francolinus* (LINNAEUS, 1766) - Black Francolin, Francolin noir, Francolin negru: 1 sp., w. coll. no., Asia Minor, w.d.; ♂, coll. no. 700/1, m., Norway, 1969, Schimb - RFG, W. Lehne.
- *Tragopan melanocephalus* (J. E. GRAY, 1829) - Western Pheasant, Tragopan de Hastings: 1 sp., coll. no. 1933, m., w.d.
- *Lophophorus impejanus* (LATHAM, 1790) - Himalayan Monal, Lophophore resplendissant, Păun himalaian; 1 sp., m., coll. no. 1800, w.d.
- *Gallus gallus bankiva* TEMMINCK, 1813 - Red Junglefowl, Coq bankiva, Găină: ♂♀, coll. no. 700/2, Indochina.
- *Lophura nycthemera* (LINNAEUS, 1758) - Silver Pheasant, Faisan argenté, Fazan argintiu: *Genaeus nycthemerus* 2 sps, coll. no. 710/1 and 138787/1, C Asia, from captivity of Tinra (Bihor, Romania), 10. 03. 1972.; *G. nycthemerus*, ♀, coll. no. 1334.
- *Chrossoptilon auritum* (PALLAS, 1811) - Blue Eared Pheasant, Hokki bleu, Fazan urecheat albastru: ♀, coll. 125957, m., China, w.d.

- *Syrmaticus reevesii* (J. E. GRAY, 1829) - Reeves's Pheasant, Faisan vénéré, Fazan regal: 1 sp., coll. no. 137658, m., China, Zoo. București (Romania), w.d.
- *Chrysolophus pictus* (LINNAEUS, 1758) - Golden Pheasant, Faisan doré, Fazan auriu: ♂♂, coll. 709, m., China, w.d.
- *Chrysolophus amherstie* (LEADBEATER, 1829) - Lady Amherst's Pheasant, Faisan de Lady Amhers, Fazan Amherst: 1 sp., coll. no. 710, C Asia, w.d.; ♀ juv., coll. no. 1131/1, Zoo. Turda (Romania), 1975, w.d.
- *Chrysolophus amherstiae x Chrysolophus pictus* - Pheasant hybrid: ♂, no. col. 103291, Zoo. Bucharest (Romania), 10. 12. 1967.
- *Argusianus argus grayi* (ELLIOT, 1865) - Great Argus, Argus géant, Fazan Argus: 1 sp., coll. no. 713, Borneo, w.d.
- *Pavo cristatus* LINNAEUS, 1758 - Indian Peafowl, Paon bleu, Păun: 1 sp., coll. no. 262/129353, m., Zoo. Turda (Romania), 23. 04. 1970; ♀ juv., coll. no. 712/1, m., Zoo. Turda (Romania); 1 sp., w. coll. no., m., Cluj, w.d.; ♀ (albinism), coll. no. 125951, m., w.d.; 1 sp., coll. no. 712/2, m., 22. 06. 1970, donated Rudolf Palocsay; 2 sps, coll. no. 712/3, m., w.d.; 1 sp., coll. no. 712/4, m., Cluj (Romania), 2. 02. 1971, donated Tiberiu Persecă.

Ord. ANSERIFORMES

Fam. ANATIDAE

- *Anser indicus* (LATHAM, 1790) - Bar-Headed Goose, Oie à tête barrée, Gâscă de India: 1 sp., coll. no. 654, m., w.d.
- *Cairina moschata* (LINNAEUS, 1758) - Muskovy Duck, Canard musqué, Rață leșească: 1 sp., coll. no. 655/1, m., Argentina, w.d.
- *Netta peposaca* (VIEILLOT, 1816) - Rosybill, Nette demi-deuil: *Fuligula metopis*, 1 sp., coll. no. 671, m., Santiago (Chili) w.d.
- *Somateria mollissima* (LINNAEUS, 1758) - Common Eider, Eider à duvet, Eider: ♂, ♀, coll. no. 667/1-2, m., Norway, change with W. Lehne, Germany.
- *Clangula hyemalis* (LINNAEUS, 1758) - Long-tailed Duck, Harelde boréale, Rață de ghețuri: Transylvania, 1 sp., coll. no. 668, m., w.d.

Ord. SPHENISCIFORMES

Fam. SPHENISCIDAE

- *Eudyptes chrysochome* (J. F. FORSTER, 1781) - Rockhopper Penguin, Gorfou sauteur, Manșot sprâncenat: 1 sp., coll. no. 1531, m, w.d.

Ord. PROCELARIIFORMES

Fam. DIOMEDEIDAE

- *Diomedea exulans* LINNAEUS, 1758 - Wandering Albatross, Albatros hurleur, Albatros: 1 sp., coll. no. 961/6, w.d.

Fam. PROCELARIIDAE

- *Calonectris diomedea* (SCOPOLI, 1769) - Cory's Shearwater, Puffin cendré, Puffin cenușiu: *Puffinus kühlii* BOIE, 3 sp.s, Coll. no. 1061, m., w.d.

Ord. PHOENICOPTERIFORMES

Fam. PHOENICOPTERIDAE

- *Phoenicopus ruber* (LINNAEUS, 1758) - Greater flamingo, Flamant rose, Flaming roșu: 1 sp., coll. no. 137656, m., Zoo. București (A.G.V.P.S.) (Romania), 1972, S Asia.

Ord. PELECANIFORMES

Fam. THRESKIORNITHIDAE

- *Eudocimus ruber* (LINNAEUS, 1758) - Scarlet Ibis, Ibis rouge, Ibis roșu: 2 sp.s, ♀♀, coll. no. 639/1-2, Venezuela, 25.V.1969, Leg. PAKAY.

Fam. SULIDAE

- *Morus bassanus* (LINNAEUS, 1758) - Northern Gannet, Fou de Bassan, Corb de mare: *Sula bassana* L., 1 sp., coll. no. 638, m., Zoo. București (Romania), w.d.

Fam. PHALACROCORACIDAE

- *Phalacrocorax aristotelis desmarestii* (PAYRAUDEAU, 1826) - European Shag or Common Shag, Cormoran de Desmarest, Cormoran moțat: 1 sp., coll. no. 1069, m., w.d.

Ord. CICONIIFORMES

Fam. CATARTHIDAE

- *Coragyps atratus* (BECHSTEIN, 1793) - Black Vulture, Urubu noir: 1 sp., coll. no. 1010, m., America de Sud, w.d.

Fam. ACCIPITRIDAE

- *Neophron percnopterus* (LINNAEUS, 1758) - Egyptian Vulture, Vautour percnoptère, Hoitar: 2 sp.s, coll. no. 698/1-2, m., Southern Europe, w.d.
- *Aquila rapax* (TEMMINCK, 1828) - Tawny Eagle, Aigle ravisseur, Acvilă răpitoare, 1 sp., coll. no. 136722, m., Zoo. București (Romania), w.d.

Fam. CHARADRIIDAE

- *Vanellus spinosus* (LINNAEUS, 1758) - Spur-winged Plover, Vanneau à éperons, Nagăț sudic, Nagăț cu pinten: *Hoplopterus spinosus*, 1 sp., coll. no. 920, m., Africa, w.d.
- *Jacana jacana* (LINNAEUS, 1766) - Wattled Jacana, Jacana noir, Jacana: 1 sp., coll. no. 919, m., South America, w.d.

Fam. SCOLOPACIDAE

- *Arenaria interpres* (LINNAEUS, 1758) - Ruddy Turnstone, Tournepieuvre à collier, Pietruș: 1 sp., coll. no. 729/1, m., Norway, 1969, W. Lehne, change with Germany.
- *Phalaropus fulicarius* (LINNAEUS, 1758) - Grey/Red Phalarope, Phalarope à bec large, Notatiță cu cioc lat: 1 sp., coll. no. 740/1, m., Norway, Leg. W. LEHNE, change with Germany.

Fam. LARIDAE

- *Larus hyperboreus* GUNNERUS, 1767 - Glaucous Gull, Goéland bourgmestre, Pescăruș de ghețuri: 1 sp., coll. no. 1157, m., w.d.
- *Thalasseus sandvicensis* LATHAM 1787, syn. *Sterna sandvicensis* - Sandwich Tern, Sterne caugek, Chiră de mare: *Sterna cantiara* GMELIN., 2 sps, coll. no. 755, m., w.d.

Fam. ALCIDAE

- *Alca torda* LINNAEUS, 1758 - Razorbill, Petit Pingouin, Alcă: Arctic Ocean, 2 sps, coll. no. 749, m., w.d.
- *Alle alle* (LINNAEUS, 1758) - Little Auk, Mergule nain, Garia: (Fundar pitic), Arctic Ocean, 1 sp., coll. no. 750, m., w.d.
- *Cephus grylle* (LINNAEUS, 1758) - Black Guillemot, Guillemot à miroir, Alcă cu oglindă: *Aria grylle*, 1 sp., coll. no. 750, m., Arctic Ocean, w.d.
- *Cephus columba* PALLAS, 1811 - Pigeon Guillemot, Guillemot colombin, Alcă porumbel: 1 sp., coll. no. 1315, m., w.d.

Fam. PTEROCLIDIDAE

- *Pterocles orientalis arenarius* (PALLAS, 1775) - Black-bellied Sandgrouse, Ganga unibande, Găinușă de stepă: *Pterocles arenarius* PALLAS, 1 sp., coll. no. 777, m., w.d.
- *Pterocles alchata* LINNAEUS, 1766 - Pintailed Sand-Grouse, Ganga cata, Găinușă de stepă: *Pterocles setarius* Temminck, 1 sp., coll. no. 922, m., w.d.

Ord. GRUIFORMES

Fam. RALLIDAE

- *Porphyrio porphyrio* (LINNAEUS, 1758) - Purple Swamphen, Talève sultane, Găinușă albastră: 1 sp., coll. no. 1278, m., w.d.

Fam. GRUIDAE

- *Balearica pavonina* (LINNAEUS, 1758) - Black Crowned Crane, Grue couronnée, Cocor cu coroană: 1 sp., coll. no. 93753, m., Zoo. București (Romania), Africa.

Ord. COLUMBIFORMES

Fam. COLUMBIDAE

- *Streptopelia senegalensis* (LINNAEUS, 1766) - Laughing Dove, Turturică africană: ♂, no. coll. 774/1, m., Israel, 17.02.1969, Leg. Salmo Helwig.
- *Streptopelia chinensis* (SCOPOLI, 1786) - Spotted-necked Dove, Tourterelle tigrine, :1 sp., coll. no. 1263, Sumatra, don. C. Eberle, gift from "Grigore Antipa" Museum, w.d.
- *Geopelia cuneata* (LATHAM, 1802) - Diamond Dove, Géopélie diamant, Papagal diamant: 1 sp., coll. no. 137659, m., Australia, Leg. SALMO HELWIG.
- *Goura victoriae* (FRASER, 1844) - Victoria Crowned Pigeon, Goura de Victoria, Porumbel cu coroană: 1 sp., Coll. no. 775, m., New Guinea, w.d.
- *Treron vernans* (LINNAEUS, 1771) - Pine-necked Green Pigeon, Colombar giouanne, 1 sp., coll. no. 1322, m., w.d.
- *Treron griseocauda* BONAPARTE, 1854 - Gray cheeked Green Pigeon, Colombar à face grise: 1 sp., coll. no. 1323, m., w.d.
- *Treron capellei* (TEMMINCK, 1840) - Large Green Pigeon, Colombar de Capelle: 1 sp., coll. no. 1321, m., w.d.

Ord. PSITTACIFORMES

Fam. PSITTACIDAE

- *Cacatua tenuirostris* (KUHLE, 1820) - Long-Billed Corella, Cacatoès nasique, Papagal alb-roz: *Licmatis nasica* TEMMINCK, 1 sp., coll. no. 778, m., w.d.
- *Cacatua moluccensis* (J. F. GMELIN, 1788) - Salmon-crested Cokatoo, Cacatoès à huppe rouge, Cacaduș alb moțat, 1 sp., coll. no. 1839, m., w.d.; endemic from Moluccas.

- *Melopsittacus undulatus* (SHAW, 1805) - Budgerigar, Perruche ondulée, Peruș: 2 sps, coll. no. 1852, m., w.d.; 2 sps, coll. no. 1843, m., w.d.; 1 sp., coll. no. 1332, s., w.d.
- *Psittinus cyanurus* (J. F. Forster, 1795) - Blue rumped Parrot, Perruche à croupion bleu, Peruș cu spate albastru 1 sp., coll. no. 1278, m., w.d.
- *Agapornis lilianae* SHELLEY, 1894 - Nyasa Lovebird, Inséparable de Lilian, Inseparabili: 1 sp., coll. no. 1330, m., w.d.
- *Ara macao* (LINNAEUS, 1758) - Scarlet Macaw, Ara rouge, Papagal Ara: 1 sp., coll. no. 80997, gift from „Grigore Antipa” Museum, București, m., w.d.

Ord. CUCULIFORMES

Fam. CUCULIDAE

- *Crotophaga ani* LINNAEUS, 1758 - Smooth-billed Ani, Ani à bec lisse, : 1 sp., coll. no. 1306, m., w.d.
- *Zanlostomus (Phaenicophaeus) curvirostris* (SHAW, 1810) – Chestnut-breasted Malkoha, Malcoha rouverdin: 1 sp., coll. no. 1263, m., w.d.
- *Clamator glandarius* (LINNAEUS, 1758) - Great Spotted Cuckoo, Coucou geai: *Coccyser glandarius* GMELIN, 1 sp., coll. no. 917, m., Asia Minor, w.d.
- *Surniculus lugubris* (HORSFIELD, 1821) - Asian Drongo-Cuckoo, Coucou surnicou: ad. ♂, coll. no. 1326, m., 1 juv., coll. no. 1328, w.d.

Ord. STRIGIFORMES

Fam. STRIGIDE

- *Nyctea scandiaca* (LINNAEUS, 1758) - Snowy Owl, Harfang des neiges, Bufnița zăpezilor: *Nyctea nyctea* L., 1 sp., coll. no. 788, m., Arctic region, w.d.; 1 sp., coll. no. 1024(D.82), m., w.d.

Ord. APODIFORMES

Fam. TROCHILIDAE

- *Glaucis hirsuta* (J.F. GMELIN, 1788) - Hairy Hermit; Ermite hirsute: ♂, coll. no. 1772, m., Brazil, w.d.
- *Eutoxeres aquila* BOURCIER, 1847 - White-tipped Sickbill, Bec-en-faucille aigle: ♂, coll. no. 1781, Colombia, m., w.d.
- *Phaethornis guy* DE LATTRE, 1843 - Green Hermit, Ermite vert: 1 sp., coll. no. 1766, m., w.d.
- *Androdon aequatorialis* Gould, 1863 - Tooth-billed Hummingbird, Colibri d'Équateur: *Phaeolema equatorialis* J. Gould, 1 sp., coll. no. 1782, m., w.d.
- *Phaetornis eurynome* (LESSON, 1832) - Scale throated Hermi, Ermite eurynome: 1 sp., coll. no. 1758, m., Brazil, w.d.
- *Doryfera ludovicae* BOURCIER et MULSANT, 1847 - Green fronted Lancebill, Porte-lance de Louise: ♂, Coll. no. 1780, m., New Granada, w.d.
- *Campylopterus falcatus* (SWAINSON, 1821) - Lazuline Sabrewing, Campyloptère lazuline: *Campylopterus lazulus* VIEILLOT, 1 sp., ♂, coll. no. 1755, m., w.d.; Indet., ♀, w. coll. no., m., w.d.
- *Anthracothorax nigricollis* VIEILLOT, 1817 - Black throated Mango, Mango à cravate noire: *Lampornis nigricollis* VIEILLOT, ♂, coll. no. 1776, m., w.d.; Colibri indet, ♂ ad., coll. no. 1301, m., w.d.; Colibri indet, 1 juv., coll. no. 1302, m., w.d.
- *Eulampis jugularis* LINNAEUS, 1766 - Purple-throated Carib, Colibri madder: ♂, coll. no. 1765, m., Martinica, w.d.
- *Eulampis holosericeus* (LINNAEUS, 1758) - Green throated Carib, Colibri falle-vert: *Sericotes holosericeus* LINN. 1 sp., w. coll. no., w.d.
- *Chrysolampis mosquitos* (LINNAEUS, 1758) - Ruby Topaz, Colibri rubis topaze: ♂, coll. no. 1759, m. Brazil, w.d.
- *Orthorhyncus cristatus exilis* (J. F. GMELIN, 1788) - Antillean Crested Hummingbird, Colibri huppé: *Belone cristata exilis* GMELIN, ♂, coll. no. 1754, m., Arizona, w.d.
- *Stephanoxis lalandi* VIEILLOT, 1818 - Plovercrest, Colibri de Delalandi: ♂, coll. no. 1756, m., Brazil, w.d.
- *Lepidopyga goudoti* BOURCIER, 1843 - Shining-green Hummingbird, Colibri de Goudot: ♂, coll. no. 1785, m., New Granada, w.d.
- *Hylocharis cyanus* VIEILLOT, 1818 - White chinned Sapphire, Saphir azuré: ♂, coll. no. 1774, m., Brazil, w.d.
- *Leucochloris albicollis* VIEILLOT, 1818 - White-throated Hummingbird, Colibri à gorge blanche: ♂, coll. no. 1773, m., Ecuador; 1 sp., w. coll. no., w.d.
- *Agyrtia brevirostris* LESSON, 1829 - White-chested Emerald, Ariane à poitrine blanche: ♂, coll. no. 1769, m., Brazil, w.d.
- *Saucerotia cyanifrons* BOURCIER, 1843 - Indigo capped Hummingbird, Ariane à front bleu: ♂, coll. no. 1762, m. Colombia and ♀, New Granada, w.d.
- *Amazilia saucerrottei* (DE LATTRE & BOURCIER, 1846) - Steely-vented Hummingbird, Ariane de Sophie: *Saucerothea chlorocephala* BOURCIER, ♂, coll. no. 1760, m., New Granada, w.d.
- *Chalibura buffonii* LESSON, 1832 - White-vented Plumeleeter, Colibri de Buffon, ♂, coll. no. 1787, m., Colombia, w.d.
- *Adelomya melanogenys maculata* GOULD, 1861 - Speckled Hummingbird; Colibri moucheté: ♂, coll. no. 1783, m., New Granada, w.d.
- *Clytolaema rubricauda* BODDAERT, 1783 - Brazilian Ruby, Colibri rubis-émeraude: *Clytolaema rubinea* GMELIN, ♂, coll. no. 1786, m., New Granada, w.d.

- *Aglaeactes cupripennis* (BOURCIER, 1843) - Shining Sunbeam, Colibri étincelant: ♂, coll. no. 1788, m., Rio Napo, w.d.
- *Lampornis clemenciae* LESSON, 1828 - Blue-throated Hummingbird, Colibri à gorge bleue, Colibri cu gât albastru: *Coeligena clemenciae* LESSON, ♂, coll. no. 1779, m., Mexic, w.d.
- *Coeligena torquata* (BOISSONNEAU, 1840) - Collard Inca, Inca á collier: *Helianthea torquata* BOISS., 1 sp., coll. no. 1764, m., Colombia, w.d.
- *Coeligena bonapartei* BOISSONNEAU, 1840 - Golden-bellied Starfrontlet; Inca de Bonaparte: *Helianthea bonapartei* Boisso. 2 sp.s, ♂ and ♀, coll. no. 1763, m., New Granada, w.d.
- *Ensifera ensifer* (BOISSONNEAU, 1840) - Sword-billed Hummingbird, Colibri porte-épée: *Docimastes longifer* BOISSONNEAU, 1 sp., coll. no. 1751, m., Rio Napo, w.d.
- *Pterophanes cyanopterus* (FRASER, 1840) - Great Sapphire wing, Colibri á ailes saphir: *Pterophanes temminckii* BOISS., ♂, coll. no. 1771, m., Colombia, w.d.
- *Patagona gigas* VIEILLOT, 1824 - Giant Hummingbird, Colibri géant: 1 sp., coll. no. 1761, m., Ecuador, w.d.
- *Helianthus clarisse* LONGMARE, 1841 - Longuemare's Sunangel, Héliange de Clarisse: 1 sp., coll. no. 1768, m., Colombia, w.d.
- *Eriocnemis vestitus* (LESSON, 1838) - Glowing Puffleg, Érione pattue: *Eriocnemis vestita* LESSON, ♂, coll. no. 1757, m., Bogota, w.d.
- *Lesbia nuna gouldii* (LODDIGES, 1832) - Green-tailed Trainbearer, Port-traîne nouna: *Psalidophrymna gouldi* LODDIGES, ♂, coll. no. 1767, m., New Granada, w.d.
- *Rhamphomicron microrhynchum* (BOISSONNEAU, 1840) - Purple-backed Thornbill, Colibri à petit bec: 1 sp., coll. no. 1777, m., New Granada, w.d.; ♀, coll. no. 1318, m., w.d.
- *Oxygogon guerinii* BOISSONNEAU, 1840 - Bearded Helmetcrest, Colibri casque: 1 sp., coll. no. 1784, m., New Granada, w.d.
- *Metallura williami* DE LATTRE & BOURCIER, 1846 - 1 sp., coll. no. 1766, m., Colombia, w.d.
- *Calothorax lucifer* SWAINSON, 1827 - Lucifer Hummingbird, Colibri Lucifer: ♂, coll. no. 1778, m., Mexic, w.d.
- *Archilochus colubris* LINNAEUS, 1758 - Ruby-throated Hummingbird, Colibri à gorge rubi: *Trochilus colubris*, 1 sp., coll. no. 1752, m., Mexico, w.d.
- *Calypte anna* LESSON 1832 - Anna's Hummingbird, Colibri d'Anna: *Trochilus anna* LESSON, 1 sp., w. coll. no., m., w.d.

* New Granada was a centralist republic consisting primarily of present-day Colombia and Panama with smaller portions of today's Ecuador, Peru, Brazil, Costa Rica, Venezuela and Nicaragua.

Ord. GALBULIFORMES

Fam. BUCCONIDAE

- *Malacoptila striata* (SPIX, 1824) - Crescent-Chested Puffbird, Tamatia rayé: 1 sp., coll. no. 1287, w.d. (Brazil).

Ord. CORACIIFORMES

Fam. CORACIIDAE

- *Euristomus orientalis* LINNAEUS, 1766 - Dollarbird, Rolle oriental: 1 sp., coll. no. 1329, m., w.d.

Fam. ALCEDINIDAE

- *Ceryle rudis* LINNAEUS, 1758 - Pied Kingfisher, Martin-pêcheur pie, Pescar cenușiu: 1 sp., coll. no. 904, m., Asia Minor, w.d.; 1 sp., coll. no. 1270, m., gift from "Grigore Antipa" Museum, w.d.; 1 sp., coll. no. 1271, m., gift from "Grigore Antipa" Museum, w.d.

Fam. MOMOTIDAE

- *Eumomota superciliaris* (SANDBACH, 1837) - Turquoise-browed Motmot, Motmot à sourcils bleus: 1 sp., coll. no. 1293, m., Honduras, gift from "Grigore Antipa" Museum, w.d.

Fam. MEROPIDAE

- *Merops persicus* PALLAS, 1773 - Blue-cheeked Bee-eater, Guêpier de Perse: 1 sp., coll. no. 1272, m., Africa, gift from "Grigore Antipa" Museum, w.d.

Ord. BUCEROTIFORMES

Fam. BUCEROTIDAE

- *Anthracoceros coronatus* (BODDAERT, 1783) (head) - Malabar Pied Hornbill, Calao de Malabar: *Anthracoceros malabaricus*, 1 sp., coll. no. 969, m.

Ord. PICIFORMES

Fam. RAMPHASTIDAE

- *Ramphastos toco* STATIUS MÜLLER, 1776 - Toco Toucan, Toucan Toco, Tucan: 1 sp., coll. no. 914, m., w.d.
- *Aulacorhynchus haematopygus* (GOULD, 1835) - Crimson-rumped Toucanet, Toucanet à croupion rouge: *Ramphastos haematopygius*, 1 sp., Coll. no. 915, m., w.d.

- ***Pteroglossus aracari*** (LINNAEUS, 1758) - Black-necked Aracari, Araçari grigri: *Ramphastos aracari*, 1 sp., coll. no. 916, m., w.d.
- ***Andigena laminirostris*** GOLUD, 1851 - Plate-billed Mountain Toucan, Toucan montagnard: 1 sp., coll. no. 1324, m., w.d.

Fam. PICIDAE

- ***Dendrocopos moluccensis nanus*** (VIGORS, 1832) - Brown-capped Woodpecker, Pic à calotte brune: 1 sp., coll. no. 1305, m., w.d.
- ***Celeus brachyurus*** (VIEILLOT, 1818) - Rufous Woodpecker, Pic brun: 1 sp., coll. no. 1320, m., w.d.
- ***Celeus flavescens*** (GMELIN, 1788) - Blond-crested Woodpecker, Pic ocré: 1 sp., coll. no. 1292, m., w.d.
- ***Blythipicus pyrrhotis*** (HODGSON, 1837) - Bay Woodpecker, Pic à oreillons rouges: 1 sp., coll. no. 1294, m., w.d.
- ***Picus miniaceus*** PENNANT, 1769 - Banded Woodpecker, Pic minium: 1 sp., coll. no. 1295, w.d.
- ***Picus rivolii*** (BOISSONNEAU, 1840) - Crimson-mantled Woodpecker, Pic de Rivoli: 1 sp., coll. no. 1296, m., w.d.
- ***Meiglyptes tukki*** (LESSON, 1830) - Buff-necked Woodpecker, Pic tukki: 1 sp., coll. no. 1284, m., w.d.

Ord. PASSERIFORMES

Fam. PIPRIDAE

- ***Manacus manacus*** (LINNAEUS, 1766) - White-bearded Manakin, Manakin casse-noisette: 2 sps, coll. no. 1276 and 1308, m., w.d

Fam. COTINGIDAE

- ***Tityra cayana*** (LINNAEUS, 1766) - Black-tailed Tityra, Tityre gris: 1 sp., coll. no. 1274, m., w.d.
- ***Phibalura flavirostris*** VIEILLOT, 1816 - Swallow-tailed Cotinga, Phibalure à queue fourchue: 1 sp., coll. no. 1298, m., w.d.
- ***Pipreola aureopectus*** (LAFRESNAYE, 1843) - Golden-breasted Fruiteater, Cotinga à poitrine d'or: ♀, coll. no. 1283, w.d.
- ***Pipreola arcuata*** (LAFRESNAYE, 1843) - Barred Fruiteater, Cotinga barré: 1 sp., coll. no. 1311, m., w.d.

Fam. TYRANNIDAE

- ***Pitangus sulphuratus*** (LINNAEUS, 1766) - Great Kiskadees, Tyran quiquivi: *Pitangus balivanus* Klem, 1 sp., coll. no. 903, Mexico, w.d.

Fam. MENURIDAE

- ***Menura novaehollandiae*** LATHAM, 1801 - Superb Lyrebird, Ménure superbe: *Menura superba* Davis, 1 sp., coll. no. 779, m., Australia, w.d.

Fam. POMATOSTOMIDAE

- ***Pomatostomus superciliosus*** (VIGORS & HORSFIELD, 1827) - White-browed Babble, Pomatostome bridé: 1 sp., coll. no. 1280, s., w.d.

Fam. PLATYSTEIRIDAE

- ***Tephrodornis pondicerianus*** (GMELIN, 1789) - Common Woodshrike, Téphrodorne de Pondichéry: Indet., 1 sp., coll. no. 1304, m., w.d. previously placed in fam. Campephagidae.

Fam. PLOCEIDAE

- ***Ploceus philippinus*** (LINNAEUS, 1766) - Baya Weaver, Tisserin baya: Indet., 1sp., coll. no. 1277, m., w.d.
- ***Quelea quelea*** (LINNAEUS, 1758) - Red-billed quelea, Quéléa, Travailleur à bec rouge: Indet., 1sp., coll. no. 1286, m., Africa, w.d.

Fam. ESTRILDIDAE

- ***Amadina fasciata*** (J. F. GMELIN, 1789) - Cut-Throat, Amadine cou-coupé: Indet., 1sp., ♂, Africa, coll. no. 1307, m., w.d.
- ***Amandava subflava*** (VIEILLOT, 1819) - Zebra Waxbill, Bengali zébré: *Fringilla sanguinolenta* Temminck 1823, 1 ex., coll. no. 911, m., w.d.
- ***Lagonosticta senegala*** (LINNAEUS, 1766) - Red-billed Firefinch, Amarante du Sénégal, Cintează ornată roșie: ♀, coll. no. 906, m., Africa, w.d.
- ***Uraeginthus bengalus*** (LINNAEUS, 1766) - Red-Cheeked Cordon-bleu, Cordonbleu à joues rouges: Indet., ♂, coll. no. 1285, Africa, m., w.d.
- ***Estrilda astrild*** (LINNAEUS, 1758) - Common Waxbill, Astrild ondulé: Indet. 1 sp., coll. no. 1309, m., w.d.
- ***Estrilda melpoda*** (VIEILLOT, 1817) - Orange-Cheeked Waxbill, Astrild à joues orange: *E. cinerea*, coll. no. 909, Africa, 1 sp., m., w.d.
- ***Amandava amandava*** (LINNAEUS, 1758) - Red Avadavat, Bengali rouge: *A. punctata*, 1sp., coll. no. 908, m., w.d.
- ***Neochmia phaeton*** (HOMBRO& JACQUINOT, 1814) - Crimson Finch, Diamant phaëton: *Estrilda phaëton*, 1 sp., coll. no. 910, m., w.d.
- ***Neochmia temporalis*** (LATHAM, 1802) - Red-browed Finch, Diamant à cinq couleurs: *Fringilla oryzivora*, ♂, coll. no. 912, 1 sp., Africa, 2 sp.

- *Taeniopygia guttata* (VIEILLOT, 1817) - Zebra Finch, Diamant mandarin: Indet., 1 sp., coll. no. 1312, m., May 1913, i. d.; Indet. 1 sp., coll. no. 1313, m., w.d.
- *Erythrura gouldiae* (GOULD, 1844) - Gouldian Finch, Diamant de Gould: *Chloebia gouldiae*, ♂, coll. no. 907/1, Australia, leg. et.det. Puică Constantin, 13.02. 1987.
- *Lonchura oryzivora* (LINNAEUS, 1758) - Java Sparrow, Padda de Java, Cintează de orez: *Munia oryzivora*, ♂, coll. no. 1842, m., E Asia, w.d.
- *Lonchura fringilloides* (LAFRESNAYE, 1835) - Magpie Mannikin, Capucin pie: Indet., 1 sp., coll. no. 1317, w.d.

Fam. PACHYCEPHALIDAE

- *Pachycephala jacquinoti* (BONAPARTE, 1850) - Tongan Whistler, Siffleur des Tonga: Indet., 1 sp., coll. no. 1327, w.d.

Fam. ORIOLIDAE

- *Oriolus oriolus kundoo* (SYKES, 1832) - Golden Oriole, Lorient d'Europe, Grangur indian: Indet., 2 sp.s, coll. no. 1840, m., E India, w.d.

Fam. PARADISAEIDAE

- *Paradisaea minor* SHAW, 1809 - Lesser Bird of Paradise, Paradisier petit-émeraude, Pasărea paradisului: *P. apoda* New Guinea, 1 sp., Coll. no. 1790, m., w.d.; *P. apoda*, New Guinea, 1 sp., coll. no. 1897, m., w.d.
- *Paradisaea raggiana augustaevictoriae* CABANIS 1888 - Raggiana Bird-of-paradise, Paradisier de Raggi: *P. augustaevictoriae*, New Guinea, 1 sp., coll. no. 1838, w.d.

Fam. PETROICIDAE

- *Eopsaltria australis* (SHAW, 1790) - Eastern Yellow Rob, Miro à poitrine jaune: 1 sp., coll. no., s., w.d.

Fam. PYCNONOTIDAE

- *Pycnonotus capensis* (LINNAEUS, 1766) - Cape Bulbul, Bulbul du Cap: ♂, coll. no. 875/1, Israel, 16. 12. 1968, Leg. Salmo Helwing.
- *Pycnonotus cafer* (LINNAEUS, 1766) - Red-vented Bulbul, Bulbul à ventre rouge: *Ixos cafer*, 1 sp., coll. no. 1279, s., w.d.
- *Pycnonotus atriceps* (TEMMINCK, 1822) - Black-headed Bulbul, Bulbul cap-nègre: Indet., 1 sp., coll. no. 1331, m., w.d.

Fam. TIMALIIDAE

- *Stachyris nigricollis* (TEMMINCK, 1836) - Black-throated Babbler, Timalie à gorge noire: 1 sp., coll. no. 1300, m., w.d.

Fam. IRENIDAE

- *Irena puella* (LATHAM, 1790) - Asian Fairy Bluebird, Irène vierge: Indet., 1 sp., coll. no. 1273, w.d.

Fam. STURNIDAE

- *Aplonis panayensis* (SCOPOLI, 1783) - Asian Glossy Starling, Stourne bronzé: Indet., 1 sp., *juv.*, coll. no. 1303, m., w.d.
- *Gracula religiosa* LINNAEUS, 1758 - Hill Myna, Mainate religieux: *Eulabes reliogiosa*, 1 sp., coll. no. 1841, m., South India, Ceylon, w.d.

Fam. TURDIDAE

- *Sialia sialis* (LINNAEUS, 1758) - Eastern Bluebird, Merlebleu de l'Est: Indet., ♂, coll. no. 1314, w.d.

Fam. NECTARINIIDAE

- *Aethopyga gouldiae* (VIGORS, 1831) - Gould's Sunbird, Souimanga de Gould: Indet., 1 sp., w. coll. no., m., w.d.
- *Arachnothera affinis* (HORSFIELD, 1822) - Grey-breasted Spiderhunter, Arachnothère à poitrine grise: Indet., 1 sp., coll. no. 1310, m., w.d.

Fam. ICTERIDAE

- *Molothrus bonariensis* (J. F. GMELIN, 1789) - Shiny Cowbird, Vacher luisant: Indet., 1 sp., coll. no. 1288, m., w.d.
- *Icterus cayanensis* (LINNAEUS, 1766) - Epaulet Oriole, Oriole à épaulettes: *Xanthornus pyzophus* LINN., La Plata, 1 sp., coll. no. 920, m., w.d.

Fam. EMBERIZIDAE

- *Paroaria coronata* (MILLER, 1776) - Red-crested Cardinal, Paroare huppé: Indet., 1 sp., coll. no. 1325, w.d.
- *Paroaria dominicana* (LINNAEUS, 1766) - Red-cowled Cardinal, Paroare dominicain: Indet., 1 sp., coll. no. 1297, w.d.

Fam. THRAUPIDAE

- *Tachyphonus cristatus* (LINNAEUS, 1766) - Flame-crested Tanager, Tangara à huppe ignée: Indet., 1 sp., coll. no. 1282, m., w.d.

- ***Tachyphonus rufiventer*** (SPIX, 1825) - Yellow-crested Tanager, Tangara à crête jaune: Indet., 1 sp., coll. no. 1275, w.d.
- ***Hemithraupis ruficapilla*** (VIEILLOT, 1818) - Rufous-headed Tanager, Tangara à tête rousse: Indet., 1 sp., coll. no. 1316, w.d., endemic to Brazil.
- ***Hemithraupis flavicollis*** (VIEILLOT, 1818) - Yellow-backed Tanager, Tangara à dos jaune: Indet., ♀, coll. no. 1291.
- ***Euphonia violacea*** (LINNAEUS, 1758) - Violaceous Euphonia, Organiste tété, Pasărea organist: ♂♀, coll. no. 905, South America, w.d.

Fam. CARDINALIDAE

- ***Pheucticus ludovicianus*** (LINNAEUS, 1766) - Rose-Breasted Grosbeak, Cardinal à poitrine rose: *Zamelodia ludoviciana* (LINNAEUS, 1766), 2 sps., ♂, ♀, coll. no. 907, North America, w.d.

CONCLUSIONS

We present the catalogue of the exotic birds preserved at the Zoological Museum of Cluj (founded in 1859) as a taxonomic list together with the item data. Studied collection includes 221 specimens belonging to 172 species, 59 families, 18 orders. Especially, we point out a small hummingbirds collection consisting of 45 specimens of 38 species, and some endemic species, three from Brazil (*Malacoptila striata*, *Hemithraupis ruficapilla*, *Paroaria dominicana*), and *Apteryx oweni* from New Zealand. Collection also includes other interesting species as: *Goura victoriae*, *Argusianus argus grayi*, *Tragopan melanocephalus*, *Lophophorus impejanus*. The species from the Neotropical region (South America) are prevalent in this collection.

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Angela Petrescu

National Museum of Natural History "Grigore Antipa",
Kiseleff street no. 1, 011341 București, Romania
E-mail: angelap@antipa.ro

Delia Ceuca

"Babeș-Bolyai" University, Faculty of Biology and Geology
Str. Clinicilor, nr. 5-7, 400084 Cluj-Napoca, Romania
E-mail: dceuca@hasdeu.ubbcluj.ro; deliaceuca@yahoo.fr

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