

Biography

Joseph Vachal (1838–1911): French entomologist and politician

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Table of contents

Abstract	1
Introduction	1
Vachal biography	3
Vachal's importance and contribution	7
Vachal types and depositories	8
How the bibliography was compiled	10
How to use the catalog	10
Acknowledgments	13
Bibliography of Joseph Vachal	13
List of taxa described by Joseph Vachal	15
References	49
Appendix 1. Genus-group names for which Vachal proposed new species-group names, listed by genus as included by Vachal.	51
Appendix 2. Genus-group names for which Vachal proposed new species-group names, listed by family	52
Appendix 3. Genus-group names proposed by Vachal	52

Abstract

Joseph Vachal (1838–1911) was a French notary and politician who discovered 786 new species and 18 new subspecies of Hymenoptera, 630 of which are still valid and in use today. This makes Vachal a little-known yet the fifth most prolific describer ever of new bee taxa. The present catalog provides a brief biography of Vachal and a complete list of the taxa proposed by Vachal, including a bibliography of his 48 entomological publications. The catalog lists for all valid names published details on the type series, type locality, and collector. A tentative current combination is provided for all taxa based on literature.

Key words: Andrenidae, Apidae, Braconidae, Chalcididae, Colletidae, Halictidae, Ichneumonidae, Megachilidae, Megalyridae, Melittidae, Pompilidae, Sphecidae, Tiphiidae, Vespidae, Biography

Introduction

While bees as a group are well known insects to the public and the scientific community in general, their specific identification and species-group names in many parts of the world can be a puzzle, even to specialists. Such limitation is due to multiple problems: the species status of many taxa has never been tested since they were proposed centuries ago, identification keys are often outdated or even nonexistent, many species are known from a single sex only, and others are yet to be described as new to science. Comprehensive modern revisions provide the necessary taxonomic tools that allow for species identification, are available only for certain taxonomic groups. Often the most abundant and species-rich genera cannot be readily identified, and although this situation is particular true in the tropical and subtropical parts of the world, it is not uncommon even in areas where the bee fauna has been intensively studied, such as in North America.

Modern databases have made the scattered information on the diversity of nearly 20 000 described bee species and their distribution worldwide more accessible to science and society than ever before. An outstanding effort that exemplifies this is the recent checklist of the bee species of the world compiled by John S. Ascher and colleagues

(ITIS; www.itis.gov/beechecklist.html and <http://www.discoverlife.org/mp/20q?search=Apoidea>), which provide readily online access to all bee species names as an initial synthesis of our current knowledge. Other electronic taxonomic resources for bees of certain regions (e.g., Neotropical bee fauna; <http://moure.cria.org.br/catalogue>) or particular groups (e.g., bumble bees: <http://www.nhm.ac.uk/research-curation/research/projects/bombus>) are also available, as well as interactive identification guides for certain groups and species webpages that include high quality photographs, ecological information, and distribution maps (e.g., <http://eol.org/pages/676/overview>). However, the accuracy of all this information depends on the robustness of the initial species hypotheses as proposed centuries ago, as well as their validity after rigorous testing.

The study of the original type specimen (the name bearing holotype) from which the species description was based, is a critical method employed in taxonomic research to validate the species status of a taxon. Such type material allows for falsifiability and reproducibility because a species hypothesis can be tested by someone else working independently, even a century later, by examining the very same unique specimen used by another scientist while proposing a new species. Although designating a type specimen, making sure it is appropriately labeled and accessible to other scientists for study, is routine and mandatory procedures for today's scientists, it has not always been so. Earlier scientists often did not designate a single type (but left a series of presumably conspecific syntypes) and the type material they studied can be lost, scattered in several museums, or unidentified among other bulk material. Additionally, because of the technical limitations of former time and the scientific standards followed, earlier descriptions of bee taxa discovered by 18th to late 19th century workers are not always adequate. For example, most species descriptions were done examining specimens under low magnification and sometimes using obsolete species concepts. This means that it is not only challenging to locate and associate an actual museum specimen with a published description and that the species status of those taxa needs to be reevaluated, but also that potentially useful characters to test species hypotheses still remain to be discovered and analyzed in a contemporary phylogenetic context. This is the main reason that the name bearing type material for most bee taxa needs to be studied before establishing which species names should remain in use. Due to the scientific value of the type material, biodiversity scientists today invest a significant amount of time, effort and money to locate and study type specimens. Many of the antique types are not available for loan and can only be studied on location in museums across the world. Particularly challenging to locate is the type material used by early scientists who described a great number of taxa, such as T.D.A. Cockerell, H. Friese, and J. Vachal (table 1).

TABLE 1. Most prolific bee taxonomists worldwide. The list is based on the checklist of bee species of the world (www.itis.gov/beechecklist.html) and includes the total number of all currently valid species described by each of the authors (single or multi-authored). It is noticed that T.D.A. Cockerell described more than 17% of all 19 508 currently known bee species until his death in 1948. Several of the authors remain very active.

Name	Period	Species	Biography
Theodore Dru Alison Cockerell	1866–1948	3394	Weber 1965, 2000; Zuparko 2007
Heinrich Friese	1860–1948	1330	Rasmussen & Ascher 2008
Frederick Smith	1805–1879	943	Baker 1993
Philip Hunter Timberlake	1883–1981	864	Hurd <i>et al.</i> 1982
Joseph Vachal	1838–1911	557	Buysson & Nussac 1913
Ferdinand Ferdinand Morawitz	1827–1896	513	Pesenko & Astafurova 2003
Klaus Warncke	1937–1993	507	Blank & Kraus 1994; Kraus & Blank 1994
Charles Duncan Michener	b. 1918	455	Michener 2007
Ezra Townsend Cresson	1838–1926	437	Cresson 1916
Jesus Santiago Moure	1912–2010	417	Melo & Alves-dos-Santos 2003; Urban 2003; Melo & Urban 2010; Urban & Melo 2010
August Victor Paul Blüthgen	1880–1967	315	Königsmann 1970
Jean M. Pérez	1833–1914	309	Anon 1917
Danuncia Urban	b. 1933	282	
Theodore Bertis Mitchell	1890–1983	270	Knight 1983
Embrik Strand	1876–1947	249	
Curt Schrottky	1874–1937	246	Rasmussen <i>et al.</i> 2009
Elizabeth Morris Exley	1927–2007	231	
Andreas Werner Ebmer	b. 1941	215	
Yan-Ru Wu		213	
Yoshihiro Hirashima		210	

Information on the personal and professional aspects of these earlier scientists is important because it provides a sound basis for identifying type localities (exact locality from where the type specimens were collected), collectors (where additional topotypical material can be located, that is specimens of the same series as the type specimen), repository of missing type specimens, theoretical species concepts and scientific practices, which ultimately will facilitate the search of type material and the designation of neotypes or lectotypes, when required.

Those taxa described by Friese were preliminarily dealt with by Ramussen & Ascher (2008), but it remains of great importance to provide a comprehensive treatment of the taxa proposed by Vachal along with a list of known type repositories. Herein, I provide a summary of Vachal's personal and professional life along with information on the material and species he proposed. This will facilitate a comprehensive access to all of the available information on Vachal's type material, which will enable a better background for locating and designating lectotypes.

Vachal biography

Buysson & Nussac (1913) gave a general account on the life of Vachal, with minor mentioning of his passing in several other entomological journals (Anon 1911; Janet 1911; Kuhnt 1911; Semenov-Tian-Shanskij 1912). Arthur Louis Marie Joseph Vachal (figs. 1–3, 5) was born in Argentat, department of Corrèze, region of Limousin, southern France, on the 25th of September, 1838 as son of Martial Vachal and Marie-Rose Roudier. Joseph Vachal studied in Tulle, Corrèze, near his native Argentat at the Tulle *collège* (now *collège Clémenceau*) and later went to Paris to study at the Rollin *collège* (now *collège-lycée Jacques-Decour*). After high school Vachal went on to study law in Paris and following graduation he registered as lawyer at the district of, or *barreau de*, Tulle. Shortly after, aged 26 in 1864, he entered his father's Notary firm in Argentat where he eventually was made honorary notary or "*notaire honoraire*" in 1884. Vachal had political ambitions too (fig. 4) and was elected as *Député* for the *circonscription sud de Tulle* and further, from September 4th 1881 to November 11th 1885, as member of the Republican left (*Gauche républicaine*) in the French parliament (*la Chambre des Députés*). Meanwhile, Vachal was also elected *conseiller général* in 1883–1911 for *canton Argentat* and major for the city of Argentat (1870 and again in 1892–1908), which was at the time a small community with 2830 inhabitants (1906, *Archives départementales de la Corrèze, Listes nominatives de recensement de population*). During most of Vachal's active entomological period (from 1891 to his death), Vachal was political active, but lost parliament elections in 1894 and again in 1910. At the time of his death he was vice-president for the department assembly. Vachal died at the age of 72 before midnight on January 31st, 1911 in his home, 3 *Rue Roger Vallat*, Argentat (fig. 7). Throughout his life Vachal was very interested in natural history and during his political career advocated in particular for the development of reforestation and aquaculture from the river systems (the river Dordogne runs by Argentat). Of non-entomological publications, Vachal contributed information to "*Catalogue des plantes vasculaires du département de la Corrèze*" by Ernest Rupin [1884, Brive, Impr. de Marcel Roche; also published in parts under variable titles in *Bulletin de la Société scientifique, historique et archéologique de la Corrèze*, vols. 1–5], and authored "*Tableau synoptique des genres et espèces de Poissons d'eau douce vivant en France*" (Vachal 1899). Vachal joined the French Entomological Society (*Société entomologique de France*) in 1882 and showed particular interest for Syrphidae (Diptera) and Hymenoptera, but mostly bees, which he would often collect in the surroundings of Argentat (e.g., Berland 1925; Lieftinck 1980; Wahis 2006; also fig. 11 upper row). In 1886 he advertised in the magazine "*Feuille des naturalistes*" after French Hymenoptera for exchange, with the exception of the parasitic groups Chalcidoidea, Ichneumonoidae, and Procrupoidea. By 1895 Vachal advertised specifically after aculeate Hymenoptera from all of Africa and Asia, and in particular the genera *Halictus* (Halictidae) and *Prosopis* (now *Hylaeus*, Colletidae). He used his Paris address, 163 Boulevard Montmartre (fig. 8), for correspondence relating to that. Vachal soon also became a collaborator for European museums providing assistance with determination of exotic bees, including bees commissioned by the museum in Paris to Vachal from the *Voyage de M. le baron Maurice de Rothschild en Ethiopie et en Afrique orientale anglaise (1904–1905)* (Vachal 1922). With the entry of Eugène Louis Bouvier (1856–1944) as chair of Entomology at the Paris Museum in 1895, Vachal and other non-professional specialists were allowed to work in the collection, something previously prohibited. Following his 1903 annual visit to the Paris Museum, Vachal decided to benefit the museum in his will with the donation of his entire entomological collection. Upon Vachal's death in 1911, his son Jean Antoine Philippe Vachal (b. 1869) presented more than 150 trays of Hymenoptera and an extensive library to the museum, including all of the primary types from Vachal's personal collection (fig. 9).

Given Vachal's political and socioeconomic background, it is not surprising that he was able to compile a very important collection of bees, including material from most parts of the world. Most specimens came through his advertisement for exchange or were commissioned by the Paris Museum. However, many of the collectors of the

material he used for his new species (table 2) were professional insect dealers, and Vachal must also have acquired and bought much of the material he incorporated into his private collection. For example, 40 new taxa were described from Mapiri, Bolivia, and although the source of the Mapiri specimens is not provided by Vachal, this is a well-known collecting locality for insects sold through Dr. O. Staudinger & A. Bang-Haas in Dresden.



FIGURES 1–3. Joseph Vachal (1838–1911) portraits. 1. Age 39 in 1877. Reproduced through the courtesy of Editha Schubert, Image Archive (Pslg 4275), Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany. 2. Same photo-session as previous. Originally reproduced by Buysson & Nussac (1913), reproduced here through the courtesy of Editha Schubert, Image Archive (Pslg 4274), Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany. 3. Later photograph, reproduced through the courtesy of the Vachal family (Dr. Chassaing and his sister Mrs. Zeller) and Frédéric Pestil.

TABLE 2. Collectors of specimens described by Vachal as new taxa, including country where they were collected. Frequently used alternative spelling is listed in square brackets.

Alluaud, Charles A. (1861–1949): Ethiopia (Abyssinie [along Blue Nile]), Ivory Coast (Assinie) [French collector], now MNHN
André, Ernest (1838–1914): Gabon (Ogooué, as Ogowé), now MNHN
Angrand, Léonce (1808–1886): Guatemala
Baer, Gustave Adolphe (1839–1918): Argentina (Ingenio Santa Ana, La Criolla, Lara, Tapia, Tucumán), Peru (Huellaga)
Beské [Bescke], Carl Heinrich (?–1851): Brazil [mostly from Nova Friburgo, R.J.]
Biart, Lucien (1828–1897): Mexico (Orizaba, W coast)
Bilimek, Dominik (1813–1884): Mexico (Cuernavaca, Orizaba)
Birkmann, Geo (1855–1944): USA (Texas)
Boll, Jacob (1828–1880): USA (Texas)
Bottego, Vittorio (1860–1897): Somalia (Matagoi)
Bouyssou, Joseph (–1903): Equatorial Guinea (Bata, Kogo, River Mouny), Gabon (Lambaréné, Lastoursville, Libreville, N'Doro, N'Jolé), now MNHN
Boyadjian, Benjamin H.: Turkey (Adana)
Brèthes, Jean [Juan] (1871–1928): Argentina (Buenos Aires)
Castelnau, François Louis Nomp de Caumont de Laporte de (1810–1880): Botswana (Lake Ngami), personal collection
Chalot, Charles (1871–?): Gabon (Libreville)
Chaper, Maurice Armand (1834–1896): Venezuela
Cloetens, Léon-Pierre (1857–1899): D.R.Congo (Kasai)
Clot, Antoine Barthelemy (also known as Clot Bey) (1793–1868): Egypt (pers. collection?)
Danforth, S.V.: USA (N.J.)
David, Père Armand (1826–1900): China (Beijing)
Dello: See Sellow:
Denoit, R. P. [likely Reverend Pastor Camille Denoit] (1862–1891): Uganda
Deppe, Ferdinand (1794–1861): Mexico
Durand, Émile-Marie (1854–1931): Moçambique (Zambèze)
Duvivier, Antoine (1859–1896): D.R.Congo (Moliro)
Dybovski [Dybowski], Benedykt (1833–1930): Rusia (Amour)
Fairmaire, Léon Marc Herminie (1820–1906): Chile, Djibouti (Obock)
Fea, Leonardo (1852–1903): Myanmar (Bhamo, Carin Chebà, Carin Ghecù, Momeit, Pegu, Schwegu, Thagatà)
Ferton, Charles (1856–1921): Algeria (Alger), France (Provence, as Gallo), now MNHN
Fleutiaux, Edmond Jean-Baptiste (1858–1951): Nouvelle Calédonie
Foà, Édouard (1862–1901): Moçambique (Haut-Zambèze)
Fornasini, Carlo (1802–?): Moçambique (Howick, Rikatla)
Forrer, Alphonse (1836–1899): Mexico (Mazatlán)
de Gaulle, Jules (1850–1922): personal collection, now MNHN
Gay, Claude (1800–1873): Peru (Cusco)
Gazagnaire, Joseph (1850–1927): Algeria (Biskra, Lalla Marghnia, Nemours), also pers. collection, unknown whereabouts
Gierra, M?: Tanzania (Tanga)
Girard, Maurice Jean Auguste (1822–1886): Argentina (Buenos Aires, Lules, Río Salí, Tucumán)
Gribodo, Giovanni (1846–1924): personal collection, now MSNG
Guiral, Léon (1858–1885): Equatorial Guinea (Rio Benito)
Haensch, Richard: Ecuador (Archidona, Balsapampa)
Harmand, Francois Jules (1845–1921): Japan
Harper: USA (Savannah)
Helmreichen von Brunnfeld, Virgil von (1805–1852): Brazil (Jataí)
Herbst, Paul [Pablo] (1861–1927): Chile (Concepción)
Hetschko, Alfred (?) (1854–1933): Brazil (Blumenau)
Hoton, Georges-Léopold (?–1894): D.R.Congo
Haas [also as Hans], Ch.: D.R.Congo (Lukungu)
Ihering, Hermann Friedrich Albrecht von (1850–1930): Brazil (Rio Grande do Sul)
Joannis, Joseph de (1864–1932): Ecuador (Pifo)
Jordan, Paul: Paraguay, Villaricca (Villarica)
Jousseau, Félix Pierre (1835–1921): Djibouti (Obock)

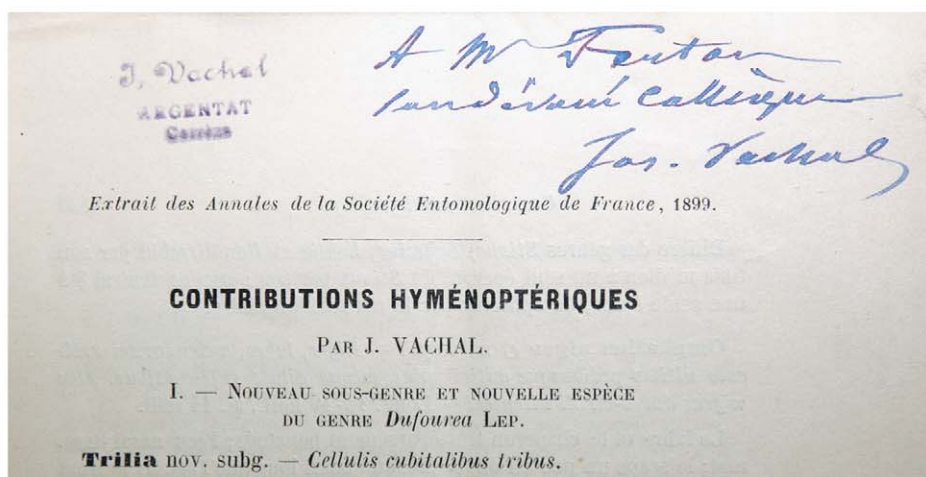
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TABLE 2. (Continued)

Kamerlacher, Johann: Brazil
Le Mout, Eugène (1882–1967): French Guyana
Lebrun: Argentina (Santa Cruz in Patagonia), naturalist on French expedition ship Volage in 1882
Lefèvre, P.: South Africa (Natal)
Leprieur, Charles Eugène (1815–1893): French Guyana (Cayenne)
Lindig, Alexander: Colombia (Bogotá)
Loos, F.: D.R.Congo (Popokabaka)
Magretti, Paolo (1854–1913): Eritrea (Keren), Sudan (Suakin)
Marchal, Charles (1846–1910): France (Le Creusot), also pers. collection, now presumably with Société d'histoire naturelle d'Autun
Martin, Charles-Henri (?–1908): Algeria (Mesrane, Oumache), South Africa (Cradock, Natal) (or pers. collection)
Medina Ramos, D. Manuel (1861–1922): Spain (Sevilla), also pers. collection, collection in Sevilla and MNCN
Mercet Garcia, Ricardo (1860–1932): Spain (Madrid), also pers. collection, now MNCN
Michaelis, Julius: Brazil (Santa Catarina)
Mocquerys, Albert (1860–1926): Gabon (Samli), Senegal (Dakar), Sierra Leone
Moerenhout, Victor: D.R.Congo (Vista)
Morrison, Herbert Knowles (1854–1885): USA (Colorado, Georgia, Nevada)
Muot: Algeria (Ghardaïa)
Natterer, Johann (1787–1843): Brazil (Ipanema, Orissanga)
Neave, Sheffield Airey (1879–1961): D.R.Congo (Bunkeya*, Dikulwe, Kaloa, Kambove*, Katumba*, Kayombo* (also as Kayumbe and Kayambo), Kiamokosa (Katanga), Kilwa*, Kipaila, Kisinga, Kundelungu*, Lukafu, Lukonzolwa, Mbiliwa, Mfungwe, Quamboia, Ruwe, Wantu); Zambia (Bangweulu, Chunda, Luena, Madona, Mpika)
Orbigny, Alcide Dasselines d' (1802–1857): Bolivia (Santa Cruz)
Pérez, Jean (1833–1914): personal collection, now MNHN
Pic, Maurice (1866–1957): Israel (Jerusalem), Libanon (Beirut), Turkey (Mersin), now MNHN
Pissis, Pierre Joseph Noël Aimé [Pedro José Amadeo] (1812–1889): Chile
Quod: Australia, Nouvelle Calédonie
Radoszkowski, Oktawiusz Ivanovich Burmeister (1820–1895): personal collection, now MZPW
Raffray, Achille (1844–1923): Ethiopia
Reiche, Louis Jérôme (1799–1890): Ethiopia
Rhode, S.: Colombia (Muzo, Salento)
Rivet, Paul (1876–1958): Ecuador (Riobamba)
Rolin, P.: D.R.Congo (Boma Sundi)
Rothschild, Maurice de (1881–1957): Kenya (Escarpment, Nairobi, Lake Rudolph)
Ruspoli, Eugenio (1866–1893): Somalia (Umbereto lo)
Rüppel, Eduard Wilhelm Peter Simon (1794–1884): Ethiopia
Sallé, Auguste (1820–1896): Mexico
Schmalz, Johann Paul (1844–1915): Brazil (Joinville)
Schott [as Scholl], Heinrich Wilhelm (1794–1865): Brazil
Schrottky, Kurt [Curt] (1874–1937): Argentina (Buenos Aires)
Schulthess Rechberg-Schindler, Anton von (1855–1941): personal collection, unknown whereabouts, probably MNHN
Sellow [Sello, Dello], Friedrich (1789–1831): Argentina-Brazil (Paraná), Brazil (Caçapava, São Paulo)
Sély-Longchamps, Michel Edmond Baron de (1813–1900): southern Africa
Sergent, Geneviève [and Edmond]: Algeria (Ghardaïa)
Sichel, Frédéric Jules (1802–1868): personal collection, now MNHN
Stieglmayr [Stieglmayer], Fr.: Brazil (Rio Grande do Sul [probably Colônia de Santa Cruz do Sul])
Théry, André (1864–1947): Algeria (Biskra)
Titus, Edward Sharpe Gaige (1873–1962): USA (Illinois)
Tschoffen, M.: D.R.Congo (Boma)
Vauvert: Colombia
Waelbrock: D.R.Congo (Kinschassa)
Wagner, Emile R. (1868–?): Argentina (Gran Chaco, Santa Fe, Santiago de Estero, Tapenagá), Brazil (Minas Gerais)
Wilverth, E.: D.R.Congo (Umangi or Umanghi)
Winthem, Wilhelm von (1799–1847): Brazil (Bahia)

Vachal's importance and contribution

Between 1898 and 1922 (the last two papers were published posthumously) Vachal described 786 new species and 18 new subspecies of Hymenoptera. Vachal also erected 10 new genera and one new subgenus of Hymenoptera. Clearly, Vachal's main interest was the bees, with 412 of the new names proposed in Halictidae, 136 in Megachilidae, 135 in Apidae, 88 in Colletidae and less than 20 in the remaining bee families. Particular genera worked on by Vachal were *Halictus* (360 new taxa proposed), *Megachile* (112), *Hylaeus* then as *Prosopis* (52), *Nomia* (39), *Xylocopa* (31), and *Colletes* (18). There are no modern global revisions for any of these highly diverse genera *sensu lato*.



FIGURES 4–6. Joseph Vachal (1838–1911) portraits and signature. 4. Election campaign flyer from 1885, reproduced from “Archives Départementales de la Corrèze 22 Fi 1667” through the courtesy of Frédéric Pesteil. 5. Undated portrait reproduced through the courtesy of the Vachal family (Dr. Chassaing and his sister Mrs. Zeller) and Frédéric Pesteil. 6. Dedication on an early reprint from Vachal to Charles Ferton (1856–1921), now the MNHN reprint collection.

Vachal was a modern scientist and well aware that amber inclusions of (at that time undescribed) stingless bees (Hymenoptera, Apidae, Meliponini) from Baltic amber and Sicily amber, meant that the past climate of Europe had

avored a tropical fauna there, but also that continental drift was the explanation for movements of organisms around the globe (Vachal 1905, 1906). Vachal was well-known by bee colleagues at the time, although his reports in journals infrequently seen by foreign entomologists, such as “*Bulletin de la Société Scientifique, Historique et Archéologique de la Corrèze*”, prompted T.D.A. Cockerell to provide a synopsis of the species descriptions elsewhere (Cockerell 1905). Strand (1910) also felt it necessary to publish an outline of the Vachal classification system of Halictidae. Alfken (1926) likewise and apparently unaware of Vachal's (1911) paper, published a German summary of Vachal's system as communicated to him by Vachal himself (see also summary in Eickwort 1969).



FIGURES 7, 8. Joseph Vachal (1838–1911) houses. 7. 3 Rue Roger Vallat [now 6 Rue Marcellin Caze], Argentat where Vachal worked on bees. Inserted lower right the street sign of Avenue Joseph Vachal, Argentat, renamed in March 1930 in honor of Vachal's political accomplishments (photographs by Frédéric Pesteil). 8. 163 Boulevard Montmartre, Paris, an address Vachal used for correspondence during his years in Paris (photograph by Claus Rasmussen).

Vachal types and depositories

Most of the new taxa described by Vachal came from and remained in his large personal collection, assembled through purchases from insect dealers and collectors across Europe. The collection was eventually donated to the Muséum National d'Histoire Naturelle, Paris, upon his death. Vachal also frequently described material already then at the Muséum National d'Histoire Naturelle, in particular from the older but significant exotic collection of Frédéric Jules Sichel (brief information of people mentioned herein is found in Table 2). However, Vachal would also receive material for identification from institutions and colleagues in France and the rest of Europe (fig. 6). Those specimens were returned to the collections when completed (*e.g.*, private collections of Gaulle, Marchal, Medina, Mercet, Pérez, Radoszkowski, and Schulthess Schindler) and from there eventually later being deposited in an official institution (see table 3 for a list of all known such repositories), with most of those private specimens eventually ending up in Muséum National d'Histoire Naturelle, Paris (MNHN) as well (*e.g.*, personal collections from Alluaud, André, Bouyssou, Ferton, Pérez, Pic and others).

While the MHNP bee collections of *e.g.*, Dufour, Ferton, de Gaulle and Benoist are kept separate, the Vachal collection is located interspersed amongst the large general bee collection in upright boxes. These boxes are for a large part the original boxes as donated by Vachal in 1911 (fig. 9–10) and are placed within the collection according to bee family and genus. Type specimens can be located in any of these Vachal labeled boxes (fig. 9), and sometimes also in other boxes. Some of the type specimens have been extracted from the original boxes and are now housed in larger, also upright, boxes (fig. 10). Types extracted from the original boxes include seven boxes with American Halictidae and one box with African Halictidae types, four boxes with Megachilidae types and one box with *Hylaeus* types.

Examples of Vachal type labels are provided in fig. 11. As can be noted, Vachal rarely indicated on the brief and simple identification tag that a specimen was part of the type series or the holotype. In fact he also did not state the genus in which the new taxa was placed nor his name or year of identification. This makes it very difficult to locate true Vachal types in any collection. Many of the Paris type specimen has been labeled at a later stage with red type (or lectotype) labels, in addition a few unpublished manuscript names exists in the collection.



FIGURES 9–11. Joseph Vachal boxes and labels. 9. Original boxes from the Vachal collection. These boxes were donated to the MNHP collection in 1911 and are still used for much of the Vachal material of bees. 10. Later type boxes containing types extracted from the general Vachal collection. These seven boxes house the very important and large collection of New World Halictidae types. 11. Upper row labels from a series of specimens caught by Vachal around Argentat and Menet. Year is only indicated for one specimen, collector name is not indicated, but an additional label on the specimen indicated that these were part of Vachal collection donated to MNHP. Two MNHP donation label styles are illustrated, but additional “Muséum Paris 1911” style labels exist. Lower row is a series of primary type labels (*exesa* ♀ Vach; *Duponti* ♀ Vach.; *trichora* ♀ Vach Typ) for Afrotropical *Megachile*. Notice the lack of genus and determiner on the identification labels (photographs by Claus Rasmussen).

TABLE 3. List of known Vachal type repositories, including their abbreviations as used in this catalog.

EBDS	Spain, Sevilla, Estación Biologica de Doñana [Vachal specimens not located, possibly specimens are in another collection in the Sevilla area]
ISZP	Poland, Krakow, Polish Academy of Sciences, Institute of Systematic Zoology [Curator did not respond to request for information]
MHNA	France, Autun, Muséum d'Histoire Naturelle d'Autun [Curator did not respond to request for information]
MNCN	Spain, Madrid, Museo Nacional de Ciencias Naturales (M. París)
MNHN	France, Paris, Muséum National d'Histoire Naturelle (C. Villemant)
MSNG	Italy, Genova, Museo Civico di Storia Naturale "Giacomo Doria" (F. Penati)
MZUB	Italy, Bologna, Museo di Zoologia dell'Università
NMW	Austria, Wien, Naturhistorisches Museum Wien (D. Zimmermann, M. Vizek)
RBINS	Belgium, Brussels, Institut Royal des Sciences Naturelles de Belgique
RMCA	Belgium, Tervuren, Musée Royal de l'Afrique Centrale
ZMHB	Germany, Berlin, Museum für Naturkunde der Humboldt-Universität (F. Koch)

How the bibliography was compiled

The present bibliography was compiled by obtaining all Vachal references listed in entomological catalogs (Zoological Society of London 1864–present) and papers cited within these references. The Vachal reprint collection at MNHP, <http://books.google.com> and <http://www.biodiversitylibrary.org> was also searched for additional publications by Vachal. When the imprint year of the issue differed from the stated year of the volume, the latter are placed in parentheses in the bibliography. The list of collectors was compiled from the original descriptions by Vachal or from later reports of label data. Full name and period of collectors was attempted completed by revising numerous biographies of entomologists and collectors (*e.g.*, Carpenter 1945, 1953; Mallis 1971; Papavero 1971, 1973; Fernández Yépez 1978; Cortés & Herrera 1989; Horn *et al.* 1990; Gaedike 1995; Moret 1995; Salazar E. 1999; Racheli & Racheli 2001), as well as extensive use of information retrieved from <http://books.google.com> and <http://www.biodiversitylibrary.org>.

Collecting localities (table 4) were determined mainly by Google Earth (<http://earth.google.com>). South American localities were additionally consulted using the series of “Ornithological Gazetteers” for each country by Raymond A. Paynter *et al.* Such a complete information is important for locating the exact type locality or additional specimens from the type series, see for example also Rasmussen *et al.* (2007; 2009).

How to use the catalog

The catalog is sorted in alphabetical order by taxon name with the original spelling corrected to conform with valid spelling as ruled under the code (International Commission on Zoological Nomenclature 1999). Required corrections included the removal of incorrect capitalization, diacritic marks (ï), hyphens (-), or ligature of the letters a and e (æ) or o and e (œ) (ICZN art. 27). After the corrected taxon names, the exact original spelling is listed in brackets, when differing from the corrected and currently valid spelling, and then the original genus and subgenus. Following the original genus-group names are the species name in the case of a new subspecies, authority and reference, page numbers in the reference, taxonomic code (n. sp., new species; new variety (n. var.) deemed subspecific (ICZN art. 45.6.4.); *nom. nov.*, *nomen novum*, a replacement name proposed for a junior homonym; n.genus, new genus; n.subgenus, new subgenus; family-group name), sex, and number of original type specimens when stated as single specimens (1♂, 1♀) or multiple specimens (♂♂ or ♀♀). If it is not explicit whether a single or multiple specimens were included in the type series, this is recorded as n♂ or n♀. This is followed by localities listed for the type series (see also table 4). French country and locality names have been translated to relevant current spelling (*e.g.* Pérou to Peru). Minor errors in the original spelling of locality names have been corrected. Locality names no longer in use has been updated to modern name listed in parenthesis (*e.g.*, Sri Lanka rather than Ceylon). Whenever a collector has been recorded in the original description, the surname is provided in brackets following locality. Square brackets are used if the information is not available from the original publication of Vachal, but found subsequently in published catalogs. Full name when known of all the collectors of type material and reported by Vachal are listed in Table 2. If a repository of type specimens is listed in the original description

this information is included (for list of abbreviations see Table 3), although this was not always confirmed. To locate a type specimen, it is useful to consult where other type specimens from the same collector or the same publication are deposited. Finally a tentative current status of the species is included based on main catalogs and checklists (ITIS; Zoological Society of London 1864–present; Krombein *et al.* 1979; Moure *et al.* 2007; Eardley & Urban 2010). Comments that may be to the entry then follows, including observations on variant spelling or others. Vachal would in several two-part papers provide keys and names to new taxa of female sex before publishing the keys to the males (Vachal 1903, 1904, 1911). The second part describing the males I regard a redescription without validity, rather than part of the original and first description. These duplicate descriptions are not recorded and the males of those taxa should not be considered type specimens. Also listed in the notes section, in square brackets, the Vachal classification system of Halictidae is provided. As types are still arranged according to this system in MNHP, this is helpful when locating the specimens. All entries are concluded with the current family name. As Hymenoptera-family concepts have changed through the last century, families are not necessarily those listed by Vachal, but was inferred based on the genus-group name used by Vachal and then consulting Pagliano & Scaramozzino (1990) (see appendix 1–3 for list of all genera).

TABLE 4. Type localities for new taxa described by Vachal, listed by continent (borders between Europe and Asia being somewhat diffuse).

NORTH AMERICA

Belize: Manatec (probably Honduras: Manatee)

Canada: British Columbia; British Columbia, Revelstoke; British Columbia, Spences Bridge; British Columbia, Yale; Vancouver

Costa Rica

Guatemala

Haiti

Honduras: Manatee; San Pedro Sula

Mexico: Angangueo; Chihuahua; Córdoba; Cuautla; Cuernavaca; Las Trojes; Mazatlán; Meztiltal; Oaxaca; Orizaba; Tacubaya; W coast

Panamá: Chiriquí

USA: Baltimore; California; Colorado; Georgia; Illinois; Iowa; Kansas; Nevada; New York; NJ, Squirrel Island, Westfield; North Carolina, Elizabeth City; Pennsylvania; Savannah; South Carolina; Tennessee; Texas; Washington, Easton

SOUTH AMERICA

Argentina: Buenos Aires; Carcarañá; Gran Chaco; La Plata; Mendoza; Paraná; Santa Cruz in Patagonia; Santa Fe; Santiago de Estero; Santiago de Estero, Laguna Mamaita; Santiago de Estero, Río Salado; Tapenagá; Tucumán; Tucumán, Ingenio Santa Ana; Tucumán, La Criolla; Tucumán, Lara; Tucumán, Lules; Tucumán, Río Salí; Tucumán, Tapia; Argentina-Brazil, Paraná

Bolivia: La Paz, Yungas; La Paz, Yungas, Coroico; Mapi; Santa Cruz

Brazil: Bahia; Blumenau; Cansapava (Caçapava); capitaincy of Mines (Minas Gerais); Colônia Hansa (Corupá); Espírito Santo; Goiás; Goiás, Jataí; Ipanema; Matto Grosso; Minas Gerais; Nova Friburgo; Óbidos; Orissanga; Pará?; Pernambuco; Rio de Janeiro; Rio Grande do Sul; Santa Catarina; Santa Catarina, Joinville; Santa Cruz (prob. in Paraná region); São Paulo; São Paulo, Batatais; São Paulo, Rio Pardo

Chile: “Niuble” (Ñuble); Arica; Concepción; Quillota

Colombia: Bogotá; Darién; Menzo (Muzo?); Muzo; Salento

Ecuador: Archidona; Balsapampa; Baños; Cachabí; Palmar (Palmales); Pifo; Riobamba

French Guiana: Cayenne; Charvein; Kourou; Pariacabo

Guyana: Demerara

Paraguay: “Villaricca” (probably in Paraguay)

Peru: Callanga; Chanchamayo; Cusco; Huallaga; Huancabamba; La Merced; Marcapata; Pachitea; Urubamba; Vilcanota

Uruguay: Montevideo

Venezuela

AFRICA

Algeria: Alger; Barika; Biskra; Blida; Constantine; Ghardaïa; Maghnia; Mesrane; Nemours; Oran; Ouarsenis; Oumache; Teniet; Tiaret

Angola: Benguela

Continued on next page...

TABLE 4. (Continued)

Botswana: Lake Ngami**Cameroon****D.R.Congo:** Beni Bendi Sankuru nr. Kasai; Boma; Boma Sundi; Bunkeya; Bunkeya to Kambove; Bunkeya to Lukafu; Dikulwe to Kambove; Kambove to Lukafu; Kambove to Ruwe; Kambove; Katumba; Kayombo to Dikulwe; Kiamokosa; Kilwa to Lukonzolwa; Kinschassa; Kipaila to Kisinga; Kundelungu; Lukafu; Lukungu; Mbiliwa to Wantu; Mfungwe to Kayombo; Moliro; Popokabaka; Quamboia to Kaloa; Ruwe to Kambove; Umanghi; Vista; “Haut-Congo”, Le Boulengé?**Djibouti:** Obock**Egypt:** Cairo**Equatorial Guinea:** Bata; Kogo; River Mouny; San Benito (Rio Benito)**Eritrea:** Keren**Ethiopia:** Abyssinie; “Ethiopie meridional”, Tchafianani; Harer**Gabon:** Lambaréné; Lambaréné, S of Ogooué; Lastoursville; Libreville; N'Doro; N'Jolé; Ogooué; Samlia river falls; Samlia river falls, Gamio river**Ghana:** Accra**Guinea:** Guinée**Ivory Coast:** Assinie**Kenya:** Escarpment; Lake Rudolph (Turkana lake); Lumbwa; Nairobi; Nairobi, Escarpment; Taweta**Madagascar:** Antongila**Moçambique:** B. Delagoa; B. Delagoa, Monteiro; Haut-Zambèze; Howick; Rikatla; Zambèze**Morocco:** Casablanca; Mogador (Essaouira); Tanger**São Tomé & Príncipe:** São Tomé**Senegal:** Dakar**Sierra Leone****Somalia:** Matagoi to Lugh Ganana; Umbereto lo**South Africa:** Cafrerie (Cape Province); Natal; Natal, Cradock**Sudan:** Suakin**Tanzania:** Manon; Tanga; Tanganyika; Usambara, Nguelo; Zanzibar**Tunesia:** Sfax**Uganda:** Loroghi**Zambia:** Chunda; Luena; Madona to Bangweulu; Madona; Mpika**EURASIA****China:** Canton (Guangzhou); Peking (Beijing), Mou-Pin**France:** Gallo (Provence); Le Creusot; Mont Canigou, Mariaille**India:** Mussoori**Indonesia:** Ile Sula (Sulawesi)**Israel:** Jerusalem**Japan****Libanon:** Beirut**Lithuania:** Vilna (Vilnius)**Malaysia:** Borneo, Liantelan**Myanmar:** (often as Birmanie or Tenasserim): Bhamo; Carin Chebà; Carin Ghecù; Momeit; Palon, Pegu; Schwegu, Thagatà**Philippines:** Palawan**Russia:** Nikolajevsk, Amour, Siberia**Spain:** Madrid; Madrid, El Escorial; Madrid, Montarco; Sevilla; Tenerife, Laguna**Sri Lanka** (as Ceylon)**Turkey:** Adana; Gülek, Cilicie; Gülek; Mersin**Turkmenistan:** Aschabad; Ghermab?; Tedsjen; Transcaspie; Transcaspie, Sérachs**Usbekistan:** Fergana (Farghona)**Yemen:** Aden**AUSTRALIA****Australia:** Melbourne**Nouvelle Calédonie:** Canala; foret d'Yahoué; Nouméa

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List of taxa described by Joseph Vachal

- acanthurus**, *Lithurgus* Vachal, 1910a: 313: n. sp., 1♂, 1♀, Type loc.: D.R.Congo, Kambove to Bunkeya, x.1907; D.R.Congo, Lukafu, ix.1907 (leg. Neave), Repository: RMCA. Current status: *Lithurgus pullatus* Vachal, 1903. Megachilidae.
- Acolpus**, Vachal, 1893: cclxv: n.genus. Current status: *Pseudoscolia* Radoszkowski, 1876. Note: Type species: *Aphilanthops theryi* Vachal, 1893, monobasic. Sphecidae.
- aculeata**, *Megachile* Vachal, 1910a: 312: n. sp., 4♂, Type loc.: D.R.Congo, Bunkeya, x.1907; D.R.Congo, Kipaila to Kisinga, ix.1907; D.R.Congo, Quamboia to Kaloa, xi.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile aculeata* Vachal, 1910. Megachilidae.
- acuta**, *Megachile* Vachal, 1908b: 244: n. sp., n♂, Type loc.: Bolivia, Mapiri, Repository: MNHN. Current status: *Megachile (Cressoniella) minor* Vachal, 1908. Megachilidae.
- acuta**, *Tetrapedia* Vachal, 1909b: 27: n. sp., multiple, unknown sex, Type loc.: Ecuador, [Archidona]; Peru (leg. [Haensch]), Repository: MNHN. Current status: *Lophopedia acuta* (Vachal, 1909). Apidae.
- adelipus**, *Halictus* Vachal, 1904a: 479: n. sp., 1♂, Type loc. (holotype): USA, Tennessee (not Mexico), Repository: MNHN (Sichel). Current status: *Lasioglossum (Evylaeus) cinctipes* (Provancher, 1888). Note: [halicti genuini]. Halictidae.
- aegis** (as *ægis*), *Halictus* Vachal, 1904c: 115: n. sp., 2♂, Type loc.: Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Megalopta aegis* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.
- aequata**, *Eucera* Vachal, 1907a: 377: n. sp., 3♂, Type loc.: Turkey, Adana, 7.v. Current status: *Eucera aequata* Vachal, 1907. Apidae.
- aequatus** (as *æquatus*), *Halictus* Vachal, 1904a: 473: n. sp., 1♀, Type loc. (holotype): Mexico, Mazatlán (leg. Forrer), Repository: NMW. Current status: *Lasioglossum aequatum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- aequilanx** (as *æquilanx*), *Halictus* Vachal, 1904c: 19, 23: n. sp., 2♂, 6♀, Type loc.: Mexico, Orizaba (leg. Biart; Bilimek), Repository: MNHN; NMW. Current status: *Caenagochlora (Caenagochlora) aequilanx* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- aequilibra** (as *æquilibra*), *Megachile* Vachal, 1908b: 225: n. sp., 2♀, Type loc.: Bolivia, Mapiri; Ecuador, Palmar (Palmales), Repository: MNHN (Vachal). Current status: *Megachile (Melanosarus) nigripennis* Spinola, 1841. Megachilidae.
- aereola**, *Ceratina* Vachal, 1903a: 383: n. sp., 2♂, 3♀, Type loc.: Gabon, N'Doro, x-xi.1898; Gabon, Samlia river falls (leg. Bouyssou; Mocquerys), Repository: RBINS. Current status: *Ceratina aereola* Vachal, 1903. Apidae.
- aeritalis** (as *æritalis*), *Halictus* Vachal, 1903d: 128: n. sp., ♀♀, Type loc.: Argentina, Tucumán, Tapia, 600m, iii-iv.1903; Bolivia; Brazil, Espírito Santo; Brazil, São Paulo; Colombia; Colombia, Darién; French Guiana, Cayenne; Peru, Callanga (leg. Baer; Leprieur; Vauvert), Repository: MNHN (general; Vachal). Current status: *Augochloropsis cupreola* (Cockerell, 1900). Note: [halicti hexagoni-vibrissati] ♂ published after ♀ and are not part of the type series. Halictidae.
- aerizusa**, *Anthophora* Vachal, 1903a: 378: n. sp., 1♂, 1♀, Type loc.: Sierra Leone, Repository: MNHN (general; Vachal). Current status: *Amegilla aerizusa* (Vachal, 1903). Apidae.
- aethautis** (as *æthautis*), *Halictus* Vachal, 1904c: 115: n. sp., 1♂, Type loc. (holotype): Peru, Callanga, Repository: MNHN (general; Vachal). Current status: *Megalopta aethautis* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.
- agraptes**, *Halictus* Vachal, 1904c: 138: n. sp., 2♂, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (general; Vachal). Current status: *Habralictus agraptes* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- alaris**, *Halictus* Vachal, 1904c: 21: n. sp., 2♀, Type loc.: Brazil, Goiás, Jataí, Repository: MNHN (general; Vachal). Current status: *Thectochlora alaris* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- albifimbria**, *Xylocopa (Koptortosoma)* Vachal, 1898: 99: n. sp., 5♀, Type loc.: Equatorial Guinea, San Benito (Rio Benito), 1885; Gabon, Lambaréné, S of Ogooué, x.1897 (leg. Bouyssou; Guiral), Repository: MNHN (general; Vachal). Current status: *Xylocopa praeusta* Smith, 1854. Apidae.
- albifrons**, *Nomia* Vachal, 1897b: 74: n. sp., n♀, Type loc.: no locality, Repository: MNHN (general; Vachal). Current status: *Pseudapis edentata* (Morawitz, 1876). Halictidae.
- albiplantis**, *Halictus* Vachal, 1911: 52: n. sp., 1♂, Type loc. (holotype): Mexico, Orizaba, Repository: MNHN (general; Vachal). Current status: *Augochlora albiplantis* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- albispinis**, *Megachile* Vachal, 1908b: 231: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (general; Vachal). Current status: *Megachile (Moureapis) albispinis* Vachal, 1908. Megachilidae.

- alcedo**, *Halictus* Vachal, 1895a: 150: n. sp., 1♂, Type loc. (holotype): Spain, Tenerife, Laguna, Repository: MNHN (general; Vachal). Current status: *Lasioglossum (Dialictus) viride* (Brullé, 1840). Halictidae.
- alluaudi** (as *Alluaudi*), *Ctenoplectra* Vachal, 1903b: 99: n. sp., 1♂, Type loc. (holotype): Ivory Coast, Assinie (leg. Alluaud), Repository: MNHN (general; Vachal). Current status: *Ctenoplectrina allaudi* (Vachal, 1903). Apidae.
- alluaudi** (as *Alluaudi*), *Halictus* Vachal, 1903a: 392: n. sp., 1♀, Type loc. (holotype): Ivory Coast, Assinie (leg. Alluaud), Repository: MNHN (general; Vachal). Current status: *Lasioglossum alluaudi* (Vachal, 1903). Halictidae.
- altera**, *Megachile* Vachal, 1903a: 370: n. sp., 1♂, Type loc. (holotype): Tanzania, Tanganyika, Repository: MNHN (general; Vachal). Current status: *Megachile altera* Vachal, 1903. Megachilidae.
- alticola**, *Halictus* Vachal, 1904d: 25: n. sp., 4♂, 2♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN (general; Vachal). Current status: *Caenohalictus alticola* (Vachal, 1904). Note: [halicti intermedii]. Halictidae.
- amitinus**, *Halictus* Vachal, 1894: 442, 449: n. sp., 1♀, Type loc. (holotype): Myanmar, Carin Chebà (leg. Fea). Current status: *Lasioglossum (Evylaeus) amitinum* (Vachal, 1894). Halictidae.
- ampliata**, *Nomia* Vachal, 1903a: 397: n. sp., 1♂, Type loc. (holotype): Tanzania, Zanzibar, Repository: RBINS. Current status: *Nomia ampliata* Vachal, 1903. Halictidae.
- amurensis**, *Halictus* Vachal, 1902: 227: n. sp., 12♀, Type loc.: Rusia, Nikolajevsk, Amour (leg. Dybovski), Repository: ISZP (Radoszkowski). Current status: *Lasioglossum (Dialictus) amurense* (Vachal, 1902). Halictidae.
- analís**, *Ancyloscelis* Vachal, 1904d: 19: n. sp., 2♀, Type loc.: Argentina, Repository: MNHN. Current status: *Diadasina distincta* (Holmberg, 1903). Apidae.
- ancillula**, *Megachile* Vachal, 1903a: 369: n. sp., 5♂, 9♀, Type loc.: D.R.Congo, Boma; Equatorial Guinea, Bata, ix.1897; Equatorial Guinea, River Mouny, 1898; Gabon, Lastoursville, viii-ix.1898; Gabon, Libreville, viii.1897; Sierra Leone (leg. Bouyssou; Mocquerys; Tschoffen), Repository: RBINS; MNHN (Vachal). Current status: *Megachile gratiosa* Gerstäcker, 1857. Megachilidae.
- andensis** (as *Andensis*), *Halictus* Vachal, 1903d: 90, 91, 101: n. sp., 4♂, ♀♀, Type loc.: Argentina, Tucumán; Bolivia; Brazil, Espírito Santo; Brazil, Ipanema; Peru, Callanga (leg. Natterer), Repository: MNHN (Vachal); NMW. Current status: *Agapostemon (Notagapostemon) semimelleus* Cockerell, 1900. Note: [halicti intermedii]. Halictidae.
- andrei** (as *Andrei*), *Nomia* Vachal, 1897b: 89–90: n. sp., 1♂, Type loc. (holotype): Gabon, Ogooué (leg. André), Repository: MNHN. Current status: *Lipotriches andrei* (Vachal, 1897). Halictidae.
- andrei** (as *Andrei*), *Prosopis* Vachal, 1899a: 537: n. sp., 1♂, Type loc. (holotype): Myanmar, (as Birmanie). Current status: *Hylaeus andrei* (Vachal, 1899). Note: Incertae sedis. Colletidae.
- andrenoides**, *Nomia* Vachal, 1903a: 398: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Lukungu (leg. Haas), Repository: RBINS. Current status: *Lipotriches andrei* (Vachal, 1897). Halictidae.
- angularis**, *Halictus* Vachal, 1903d: 131: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Augochloropsis angularis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- angustata**, *Nomia* Vachal, 1897b: 90: n. sp., 1♂, Type loc. (holotype): Sri Lanka (as Ceylon), Repository: MNHN (Sichel). Current status: *Nomia angustata* Vachal, 1897. Note: Incertae sedis. Halictidae.
- angustifrons**, *Halictus* Vachal, 1892b: xxii–xxiii: n. sp., ♀♀ (mas latet), Type loc.: Algeria, Alger, Repository: MNHN (Pérez). Current status: *Lasioglossum (Evylaeus) punctatissimum* (Schenck, 1853). Halictidae.
- anacula**, *Xylocopa modesta*, Vachal, 1899c: 233: n. var., n♀, Type loc.: Moçambique, Haut-Zambèze (leg. Foà). Current status: *Xylocopa scioensis* Gribodo, 1884. Note: This publication was issued on June 21st, 1899, and the description has thus priority over Vachal, 1899d: which was published approximately October–November (and after July 15th), 1899. Apidae.
- annos**, *Anthophora* Vachal, 1903a: 378: n. sp., 1♀, Type loc. (holotype): Sierra Leone, Repository: MNHN (Vachal). Current status: *Amegilla annos* (Vachal, 1903). Apidae.
- antarius**, *Halictus* Vachal, 1904b: 313–314: n. sp., 1♀, Type loc. (holotype): Ecuador, Riobamba (leg. Rivet), Repository: MNHN. Current status: *Caenohalictus antarius* (Vachal, 1904). Note: [halicti intermedii]. Halictidae.
- anthrax**, *Halictus* Vachal, 1903d: 128: n. sp., 2♀, Type loc.: Mexico, [Orizaba] (leg. Biart; Sallé), Repository: MNHN. Current status: *Augochloropsis flammea* (Smith, 1861). Note: [halicti hexagoni-vibrissati] ♂ published after ♀ and are not part of the type series. Halictidae.
- antipodum**, *Paniscus* Vachal, 1907c: 120: n. sp., n♂, n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Netelia (Netelia) antipodum* (Vachal, 1907). Ichneumonidae.
- apristus**, *Halictus* Vachal, 1903c: 130–131: n. sp., 1♀, Type loc. (holotype): Japan (leg. Harmand). Current status: *Lasioglossum (Evylaeus) apristum* (Vachal, 1903). Halictidae.

- apsidialis**, *Halictus* Vachal, 1903d: 129: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal).
Current status: *Augochloropsis apsidialis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- arabica**, *Prosopis* Vachal, 1899a: 537: n. sp., 1♀, Type loc. (holotype): Yemen, Aden, Repository: MNHN (de Gaulle (=general)). Current status: *Hylaeus arabicus* (Vachal, 1899). Colletidae.
- arata**, *Prosopis* Vachal, 1895b: cccxiv: n. sp., 1♂, Type loc. (holotype): Algeria, Repository: MSNG (Gribodo).
Current status: *Hylaeus (Paraprosopis) taeniolatus* Förster, 1871. Colletidae.
- aratus**, *Halictus* Vachal, 1904a: 481–482: n. sp., 1♂, Type loc. (holotype): Mexico, Repository: MNHN (Sichel).
Current status: *Lasioglossum (Evylaeus) aratus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- arctos**, *Megachile* Vachal, 1904d: 11: n. sp., 2♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903; Peru, Callanga (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile (Dasymegachile) arctos* Vachal, 1904. Megachilidae.
- arctous**, *Halictus* Vachal, 1904a: 480: n. sp., 2♂, Type loc.: Canada, British Columbia, Revelstoke; Canada, British Columbia, Spences Bridge, Repository: NMW. Current status: *Lasioglossum (Evylaeus) arctous* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- arcuata**, *Crocisa* Vachal, 1903a: 381: n. sp., 1♂, Type loc. (holotype): Africa, Repository: RBINS. Current status: *Thyreus abyssinicus* (Radoszkowski, 1873). Apidae.
- arcuatilis**, *Tetrapedia* Vachal, 1909b: 28–29: n. sp., 1♂, 1♀, Type loc.: Brazil, São Paulo, Batatais; Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Tropidopedia arcuatilis* (Vachal, 1909). Apidae.
- ardens**, *Halictus* Vachal, 1911: 41: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal).
Current status: *Augochlora (Oxystoglossella) ardens* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- argoides**, *Halictus* Vachal, 1904c: 114–115: n. sp., 1♂, Type loc. (holotype): Guyana, Repository: MNHN (Vachal).
Current status: *Megalopta amoena* (Spinola, 1853). Note: [halicti hexagoni-megalopti]. Halictidae.
- arrhenica**, *Macrocera* Vachal, 1904d: 22: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Río Salí, 21.xii.1899 (leg. Girard), Repository: MNHN (Vachal). Current status: *Alloscirtetica arrhenica* (Vachal, 1904). Apidae.
- arsenica**, *Prosopis* Vachal, 1901: 81–82: n. sp., 1♀, Type loc. (holotype): Brazil, Goiás, Repository: MNHN (Vachal).
Current status: *Hylaeus arsenicus* (Vachal, 1901). Colletidae.
- asaphes**, *Halictus* Vachal, 1911: 49: n. sp., 1♀, Type loc. (holotype): USA, New York, Repository: MNHN. Current status: *Augochlora (Auglochlorda) pura pura* (Say, 1837). Note: [halicti hexagoni-falcati]. Halictidae.
- aspera**, *Prosopis* Vachal, 1909b: 61: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus asper* (Vachal, 1909). Colletidae.
- aspricollis**, *Prosopis* Vachal, 1901: 80: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal).
Current status: *Hylaeus aspricollis* (Vachal, 1901). Colletidae.
- aspricordis**, *Halictus* Vachal, 1904c: 13, 14: n. sp., 2♂, Type loc.: Brazil; Venezuela (leg. Natterer), Repository: MNHN (Sichel); NMW. Current status: *Augochloropsis aspricordis* (Vachal, 1904). Note: [halicti hexagoni-vibrissati] ♂ published after ♀ and are not part of the type series. Halictidae.
- astios**, *Halictus* Vachal, 1911: 44: n. sp., 8♀, Type loc.: USA, Baltimore; USA, North Carolina, [Elizabeth City]; USA, Savannah (leg. Harper), Repository: MNHN (general; Vachal). Current status: *Augochlora (Auglochlorda) pura pura* (Say, 1837). Note: [halicti hexagoni-falcati]. Halictidae.
- atlantis** (as *Atlantis*), *Cilissa* Vachal, 1910b: 179: n. sp., 1♀, Type loc. (holotype): Morocco, Mogador (Essaouira).
Current status: *Melitta maura* (Pérez, 1896). Melittidae.
- atricoma**, *Megachile* Vachal, 1908b: 224: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) atricoma* Vachal, 1908. Megachilidae.
- atricreis**, *Halictus* Vachal, 1911: 18–19: n. sp., 2♀, Type loc.: Peru, Callanga; Peru, Huancabamba, 3000m, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlorda) atricreis* (Vachal, 1911). Note: [halicti hexagoni-falcati] ♂ published after ♀, as *atriereis* [p. 110] lapsus calami, and is not part of the type series. Halictidae.
- atricrus**, *Halictus* Vachal, 1903a: 391: n. sp., 6♂, 5♀, Type loc.: Equatorial Guinea, Kogo; Gabon, N'Jolé (leg. Bouyssou), Repository: MNHN. Current status: *Lasioglossum atricrum* (Vachal, 1903). Halictidae.
- atrinervis**, *Nomia* Vachal, 1903a: 395–396: n. sp., ♂♂, ♀♀, Type loc.: D.R.Congo, Boma Sundi; D.R.Congo, Popokabaka; Equatorial Guinea, Bata, ix.1897; Equatorial Guinea, Kogo; Equatorial Guinea, River Mouny, 1898; Ethiopia, Abyssinie; Gabon, Lastoursville, ix.1898; Gabon, Libreville, viii.1897; Gabon, N'Doro, xi.1898; Gabon, N'Jolé; Sierra Leone (leg. Alluaud; Bouyssou; Chalot; Loos; Mocquerys; Rolin), Repository: RBINS; MNHN (de Gaulle (=general); general; Vachal). Current status: *Pseudapis amoenula* (Gerstäcker, 1870). Halictidae.
- atrinodis**, *Halictus* Vachal, 1903d: 124: n. sp., 3♂, Type loc.: Chile, Arica; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Caenohalictus cuprellus* (Vachal, 1903). Note: [halicti intermedi]. Halictidae.

- atripes**, *Prosopis* Vachal, 1901: 82: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Hylaeus atripes* (Vachal, 1901). Colletidae.
- atripilis**, *Colletes* Vachal, 1909b: 55, 56: n. sp., 3♂, 2♀, Type loc.: [Chile], Repository: MNHN (Sichel; Vachal). Current status: *Colletes cyanescens* (Haliday, 1836). Colletidae.
- atrispinis**, *Halictus* Vachal, 1911: 18: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) atrispinis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- attenuata**, *Megachile* Vachal, 1910c: 529–530: n. sp., 1♂, Type loc. (holotype): Kenya, Nairobi, viii.1906 (leg. [Rothschild]), Repository: [MNHN]. Current status: *Megachile attenuata* Vachal, 1910. Megachilidae.
- attritus**, *Halictus* Vachal, 1902: 229: n. sp., 2♀, Type loc.: Uzbekistan, Fergana (Farghona), Repository: ISZP (Radoszkowski). Current status: *Lasioglossum (Evylaeus) melanopus* (Dalla Torre, 1896). Halictidae.
- aurifluens**, *Halictus* Vachal, 1903d: 128: n. sp., 3♀, Type loc.: Brazil, São Paulo; Colombia; Venezuela, Repository: MNHN (Vachal). Current status: *Augochloropsis aurifluens* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- aurijubis**, *Megachile* Vachal, 1908b: 240: n. sp., 1♀, Type loc. (holotype): Ecuador, Archidona, Repository: MNHN (Vachal). Current status: *Megachile (Moureapis) aurijubis* Vachal, 1908. Megachilidae.
- aurinasis**, *Halictus* Vachal, 1911: 23: n. sp., 2♀, Type loc.: Colombia, Bogotá; Peru, Vilcanota, Repository: MNHN (Vachal); ZMHB. Current status: *Augochlora (Oxystoglossella) aurinasis* (Vachal, 1911). Note: [halicti hexagoni-falcati] ♂ published after ♀ and are not part of the type series. Halictidae.
- australis**, *Halictus* Vachal, 1903a: 391: n. sp., 2♂, Type loc.: southern Africa (leg. Sélys), Repository: RBINS. Current status: *Lasioglossum australe* (Vachal, 1903). Halictidae.
- autranellus** (as *Autranellus*), *Halictus* Vachal, 1904a: 485: n. sp., 1♀, Type loc. (holotype): Argentina, Buenos Aires, Repository: MNHN (Vachal). Current status: *Lasioglossum (Dialictus) autranellus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- autrani** (as *Autrani*), *Centris* Vachal, 1904d: 16: n. sp., ♂♂, 2♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN (Vachal). Current status: *Centris (Paracentris) flavohirta* Friese, 1899. Apidae.
- autrani** (as *Autrani*), *Halictus* Vachal, 1904c: 128: n. sp., 1♀, Type loc. (holotype): Bolivia, La Paz, Yungas, Repository: MNHN (Vachal). Current status: *Neocorynura pilosa* (Smith, 1879). Note: [halicti hexagoni-coarctati] ♂ published after ♀ and are not part of the type series. Halictidae.
- axillaris**, *Crocisa* Vachal, 1903a: 379–380: n. sp., 1♂, Type loc. (holotype): Africa, Repository: MNHN (Vachal). Current status: *Thyreus axillaris* (Vachal, 1903). Apidae.
- azteca** (as *Azteca*), *Halictus* Vachal, 1911: 45: n. sp., 3♀, Type loc.: Mexico, Repository: MNHN. Current status: *Augochlora (Augochlora) azteca* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- azyx**, *Halictus* Vachal, 1904c: 139: n. sp., [n♂], Type loc.: [Bolivia], Repository: MNHN (Vachal). Current status: *Neocorynura azyx* Vachal, 1904. Note: [halicti hexagoni-coarctati]. Halictidae.
- baeri** (as *Baeri*), *Ancyluscelis* Vachal, 1904d: 16–17: n. sp., 2♂, 1♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Diadasia baeri* (Vachal, 1904). Apidae.
- baeri** (as *Baeri*), *Bombus* Vachal, 1904d: 10: n. sp., 1♂, 2w♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Bombus (Cullumanobombus) baeri* Vachal, 1904. Apidae.
- baeri** (as *Baeri*), *Epeolus* Vachal, 1904d: 23–24: n. sp., 2♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Doeringiella baeri* (Vachal, 1904). Apidae.
- baeri** (as *Baeri*), *Halictus (Paragapostemon)* Vachal, 1904d: 25: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, La Criolla, 1500m, i.1903 (leg. Baer), Repository: MNHN. Current status: *Caenohalictus baeri* (Vachal, 1904). Note: [halicti intermedii]. Halictidae.
- baeri** (as *Baeri*), *Macrocera* Vachal, 1904d: 19: n. sp., 1♂, 2♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Alloscirtetica baeri* (Vachal, 1904). Apidae.
- baeri** (as *Baeri*), *Megachile* Vachal, 1904d: 12–13: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Megachile (Pseudocentron) baeri* Vachal, 1904. Megachilidae.
- baeri** (as *Baeri*), *Melipona* Vachal, 1904d: 9–10: n. sp., 4w♀, Type loc.: Argentina, Tucumán, La Criolla, 1500m, i.1903; Argentina, Tucumán, Tapia, 600m, iii-iv.1903 (leg. Baer). Current status: *Melipona (Melipona) baeri* Vachal, 1904. Apidae.
- baeriana** (as *Baeriana*), *Caupolicana mystica*, Vachal, 1904d: 23: n. var., 2♀, Type loc.: Argentina, Tucumán, La Criolla, 1500m, i.1903; Argentina, Tucumán, Tapia, 600m, iii-iv.1903 (leg. Baer), Repository: MNHN. Current status: *Caupolicana lugubris* Smith, 1879. Colletidae.
- barbatus**, *Halictus* Vachal, 1903a: 391–392: n. sp., 1♂, Type loc. (holotype): Gabon, Lastoursville, viii.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum barbatum* (Vachal, 1903). Halictidae.

- basirufa**, *Prosopis* Vachal, 1910d: 67: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus basirufus* (Vachal, 1910). Colletidae.
- bellulus**, *Halictus* Vachal, 1910c: 534: n. sp., 1♂, Type loc. (holotype): Kenya, Escarpment, iv.1906 (leg. [Rothschild]), Repository: [MNHN]. Current status: *Lasioglossum (Evylaeus) bellulus* (Vachal, 1910). Halictidae.
- benguelensis**, *Anthidium* Vachal, 1903a: 374–375: n. sp., 1♂, Type loc. (holotype): Angola, Benguela, Repository: MNHN (Vachal). Current status: *Pachyanthidium benguelensis* (Vachal, 1903). Megachilidae.
- beskei** (as *Beskei*), *Halictus* Vachal, 1904a: 485: n. sp., 1♀, Type loc. (holotype): Brazil (leg. Beské), Repository: NMW. Current status: *Lasioglossum (Dialictus) beskei* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- biangulata**, *Xylocopa (Xylocopa)* Vachal, 1899d: 106: n. sp., 3♂, Type loc.: Ethiopia, Abyssinie (leg. [Rüppel]), Repository: MSNG (Magretti). Current status: *Xylocopa biangulata* Vachal, 1899. Apidae.
- bicarinis**, *Megachile* Vachal, 1909b: 6–7: n. sp., 1♂, Type loc. (holotype): Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Megachile (Neochelynia) bicarinis* Vachal, 1909. Megachilidae.
- bifax**, *Melitoma (Emphor)* Vachal, 1909b: 24: n. sp., 1♂, 1♀, Type loc.: Argentina, Tucumán (leg. Baer), Repository: MNHN (Vachal). Current status: *Ptilothrix bifax* (Vachal, 1909). Apidae.
- biloba**, *Megachile* Vachal, 1910a: 310: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kundelungu, ix.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile biloba* Vachal, 1910. Megachilidae.
- bina**, *Prosopis* Vachal, 1909b: 63, 66: n. sp., n♀, Type loc.: [Bolivia, Mapiri], Repository: MNHN. Current status: *Hylaeus binus* (Vachal, 1909). Colletidae.
- binota**, *Megachile* Vachal, 1908b: 225: n. sp., 1♀, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) binota* Vachal, 1909 Vachal, 1908. Megachilidae.
- biscutella**, *Prosopis* Vachal, 1909b: 64: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus biscutellus* (Vachal, 1909). Colletidae.
- biseptus**, *Halictus* Vachal, 1904a: 484–485: n. sp., 1♀, Type loc. (holotype): Mexico, Oaxaca, Repository: MNHN (Sichel). Current status: *Lasioglossum (Dialictus) biseptus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- biseta**, *Megachile* Vachal, 1903a: 364: n. sp., 1♀, Type loc. (holotype): Gabon, Lambaréné, x.1897 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Megachile biseta* Vachal, 1903. Megachilidae.
- bisinua**, *Megachile* Vachal, 1908b: 233–234: n. sp., 1♀, Type loc. (holotype): Ecuador, Balsapampa (leg. Haensch), Repository: MNHN (Vachal). Current status: *Megachile (Cressoniella) bisinua* Vachal, 1908. Megachilidae.
- bivarus**, *Halictus* Vachal, 1904a: 482: n. sp., 1♀, Type loc. (holotype): Mexico, Angangueo, Repository: MNHN (Sichel). Current status: *Lasioglossum (Evylaeus) bivarus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- bivinctus**, *Halictus* Vachal, 1902: 226: n. sp., 1♀, Type loc. (holotype): Turkmenistan, Aschabad, Repository: ISZP (Radoszkowski). Current status: *Halictus (Argalictus) senilis* (Eversmann, 1852). Halictidae.
- blandula**, *Nomia* Vachal, 1903a: 397–398: n. sp., 1♂, Type loc. (holotype): Gabon, Samlia river falls (leg. Mocquerys), Repository: RBINS. Current status: *Lipotriches blandula* (Vachal, 1903). Halictidae.
- bogotensis** (as *Bogotensis*), *Halictus* Vachal, 1911: 43–44: n. sp., 1♀, Type loc. (holotype): Colombia, Bogotá, Repository: MNHN. Current status: *Augochlora (Augochlora) bogotensis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- boliviensis** (as *Boliviensis*), *Pasiphae* Vachal, 1901: 79: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Brachyglossula boliviensis* (Vachal, 1901). Colletidae.
- bombitarsis**, *Tetrapedia* Vachal, 1909b: 27–28: n. sp., 1♂, Type loc. (holotype): no locality, Repository: MNHN (Vachal). Current status: *Paratetrapedia lugubris* (Cresson, 1878). Apidae.
- bouvieri** (as *Bouvieri*), *Pasiphae* Vachal, 1901: 79: n. sp., 2♂, 3♀, Type loc.: Peru, Cusco (leg. Gay), Repository: MNHN. Current status: *Brachyglossula bouvieri* (Vachal, 1901). Colletidae.
- bouyssoui** (as *Bouyssoui*), *Allodape* Vachal, 1903a: 386–387: n. sp., 4♀, Type loc.: Angola, Benguela; Equatorial Guinea, River Mouny, 1898; Gabon, Lastoursville, viii-ix.1898; Gabon, N'Doro, x-xi.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Braunsapis bouyssoui* (Vachal, 1903). Apidae.
- bouyssoui** (as *Bouyssoui*), *Anthidium* Vachal, 1903a: 373: n. sp., 4♂, 5♀, Type loc.: Gabon, Lastoursville, viii-ix.1898; D.R.Congo, Boma Sundi (leg. Bouyssou; Rolin), Repository: RBINS; MNHN (Vachal). Current status: *Pachyanthidium bouyssoui* (Vachal, 1903). Megachilidae.
- bouyssoui** (as *Bouyssoui*), *Ceratina* Vachal, 1903a: 383: n. sp., 8♀, Type loc.: Gabon, Lambaréné, x.1897 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Ceratina sculpturata* Smith, 1858. Apidae.
- bouyssoui** (as *Bouyssoui*), *Coelioxys* Vachal, 1903a: 375: n. sp., 1♂, 1♀, Type loc.: Gabon, N'Doro, x-xi.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Coelioxys aurifrons* Smith, 1854. Megachilidae.
- bouyssoui** (as *Bouyssoui*), *Crocisa* Vachal, 1903a: 381–382: n. sp., 3♂, 1♀, Type loc.: Gabon, Lastoursville, viii-ix.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Thyreus bouyssoui* (Vachal, 1903). Apidae.

- bouyssoui** (as *Bouyssoui*), *Eriades* Vachal, 1903a: 372–373: n. sp., 3♂, 1♀, Type loc.: Equatorial Guinea, River Mouny, 1898; Gabon, Libreville, viii.1897; Gabon, N'Doro, x-xi.1898, Repository: MNHN (Vachal). Current status: *Heriades bouyssoui* (Vachal, 1903). Megachilidae.
- bouyssoui** (as *Bouyssoui*), *Halictus* Vachal, 1903a: 392: n. sp., 1♀, Type loc. (holotype): Gabon, Lastoursville, viii.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Lasioglossum bouyssoui* (Vachal, 1903). Halictidae.
- bouyssoui** (as *Bouyssoui*), *Megachile* Vachal, 1903a: 362–363: n. sp., 3♂, 1♀, Type loc.: Equatorial Guinea, Kogo; Gabon, N'Doro, x-xi.1898; Gabon, Samlia river falls (leg. Bouyssou; Mocquerys), Repository: RBINS; MNHN (general; Vachal). Current status: *Megachile malimbana* Strand, 1911. Megachilidae.
- bouyssoui** (as *Bouyssoui*), *Melipona* (*Trigona*) Vachal, 1903a: 360: n. sp., 1♂, 11w♀, Type loc.: Equatorial Guinea, River Mouny, 1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Hypotrigona ruspolii* (Magretti, 1898). Apidae.
- bouyssoui** (as *Bouyssoui*), *Nomia* Vachal, 1903a: 394–395: n. sp., ♂♂, 1♀, Type loc.: Equatorial Guinea, Bata, 5-25.ix.1897; Equatorial Guinea, River Mouny, 1898; Gabon, Libreville, 20.viii.1897 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Nomia bouyssoui* Vachal, 1903. Halictidae.
- bouyssoui** (as *Bouyssoui*), *Prosopis* Vachal, 1899a: 535–536: n. sp., 1♂, 2♀, Type loc.: Gabon, N'Doro, 15.ix.1898, 12.xi.1898, 30.ix.1898 (leg. Bouyssou), Repository: MNHN. Current status: *Hylaeus bouyssoui* (Vachal, 1899). Colletidae.
- bouyssoui** (as *Bouyssoui*), *Xylocopa* (*Xylocopa*) Vachal, 1898: 96–97: n. sp., 1♂, 1♀, Type loc.: Gabon, Lambaréné, S of Ogooué, ix.1897 (leg. Bouyssou). Current status: *Xylocopa bouyssoui* Vachal, 1898. Apidae.
- boyadjiani** (as *Boyadjiani*), *Eucera* Vachal, 1907a: 371–372: n. sp., n♂, n♀, Type loc.: Turkey, Adana, 21.vi (leg. Boyadjian). Current status: *Cubitalia* (*Cubitalia*) *boyadjiani* (Vachal, 1907). Apidae.
- brachiata**, *Megachile* Vachal, 1910c: 529: n. sp., 2♂, Type loc.: Ethiopia, Abyssinie; Kenya, Lake Rudolph (Turkana lake) (leg. Raffray; Rothschild), Repository: MNHN. Current status: *Megachile fimbriata* Smith, 1853. Megachilidae.
- brachycerus**, *Halictus* Vachal, 1903d: 101, 104: n. sp., 3♂, Type loc.: Guatemala, 1855; Mexico, Tacubaya, 1871 (leg. Angrand; Bilimek), Repository: MNHN; NMW. Current status: *Agapostemon* (*Agapostemon*) *texanus* Cresson, 1872. Note: [halicti intermedi]. Halictidae.
- brachyops**, *Halictus* Vachal, 1911: 17: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *brachyops* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- bractealis**, *Halictus* Vachal, 1904c: 113: n. sp., 1♂, Type loc. (holotype): Peru, Vilcanota, Repository: MNHN (Vachal). Current status: *Augochlora* (*Oxystoglossella*) *bractealis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- brasiliensis**, *Andrena* Vachal, 1901: 77: n. sp., 1♂, 1♀, Type loc.: Brazil, Santa Cruz (prob. in Paraná region) [in error], Repository: MNHN (Vachal). Current status: *Andrena brasiliensis* Vachal, 1901. Note: Moure et al. (2007) confirms the genus *Andrena*, but consider the specimen to be mislabelled from Brazil, as *Andrena* does not occur in South America. Andrenidae.
- braziliensis** (as *Braziliensis*), *Halictus* Vachal, 1911: 21: n. sp., 4♀, Type loc.: Brazil; Guyana, Demerara, Repository: MNHN (de Gaulle (=general)); ZMHB. Current status: *Augochlora* (*Augochlora*) *braziliensis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- brethesi** (as *Brethesi*), *Halictus* Vachal, 1903d: 129: n. sp., 2♀, Type loc.: Argentina, Buenos Aires, ii.1901 (leg. Brèthes), Repository: MNHN (Vachal). Current status: *Augochloropsis brethesi* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- brethesi** (as *Brethesi*), *Macrocera* Vachal, 1904d: 20: n. sp., 2♀, Type loc.: Argentina, Tucumán; Peru, Callanga (leg. Girard), Repository: MNHN. Current status: *Thygater* (*Thygater*) *dispar* (Smith, 1854). Apidae.
- breviata**, *Megachile* Vachal, 1908b: 227: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile* (*Dasymegachile*) *breviata* Vachal, 1908. Megachilidae.
- brevinodis**, *Colletes* Vachal, 1909b: 52–53: n. sp., 1♂, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Colletes brevinodis* Vachal, 1909. Colletidae.
- breviradia**, *Prosopis* Vachal, 1901: 80–81: n. sp., 1♀, Type loc. (holotype): Bolivia, [Mapiri], Repository: MNHN (Vachal). Current status: *Hylaeus breviradius* (Vachal, 1901). Colletidae.
- brochidens**, *Halictus* Vachal, 1911: 22: n. sp., ♀♀, Type loc.: Argentina, Buenos Aires; Argentina, Santa Fe; Brazil, Repository: MNHN (general; Vachal); ZMHB. Current status: *Augochlora* (*Oxystoglossella*) *semiramis* (Schrottky, 1910). Note: [halicti hexagoni-falcati]. Halictidae.

- brochidens**, *Megachile* Vachal, 1903a: 367: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Vista (leg. Moerenhout), Repository: RBINS. Current status: *Megachile brochidens* Vachal, 1903. Megachilidae.
- buccinus**, *Halictus* Vachal, 1894: 443, 449: n. sp., 2♂, Type loc.: Myanmar, Carin Chebà, xii.1888 (leg. Fea). Current status: *Lasioglossum (Homalictus) buccinum* (Vachal, 1894). Halictidae.
- buccosa**, *Macrocera* Vachal, 1904d: 20–21: n. sp., 4♂, 2♀, Type loc.: Argentina, Buenos Aires, 9.xii.1900, 1.i.1901, 2.ii.1901; Argentina, Tucumán, Lules, 10+16.ii.1900 (leg. Girard), Repository: MNHN. Current status: *Thygater (Thygater) analis* (Lepeletier, 1841). Apidae.
- buyssoni** (as *Buyssoni*), *Halictus (Rhopalictus)* Vachal, 1901: 78: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Chlerogella buyssoni* (Vachal, 1901). Halictidae.
- caelator** (as *cælator*), *Halictus* Vachal, 1903d: 98, 121: n. sp., 1♂, 1♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Caenohalictus dolator* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- caerulans** (as *cærulans*), *Halictus terrestris*, Vachal, 1903d: 132, 134: n. var., 1♀, Type loc. (holotype): Brazil, Rio Grande do Sul, Repository: MNHN (Vachal). Current status: *Augochloropsis caerulans* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- caesia**, *Ceratina* Vachal, 1903a: 385: n. sp., 1♀, Type loc. (holotype): Djibouti, Obock, Repository: RBINS. Current status: *Ceratina tarsata* Morawitz, 1872. Apidae.
- calcarata**, *Crocisa* Vachal, 1903a: 382: n. sp., 1♂, Type loc. (holotype): Peru, Chanchamayo [in error], Repository: MNHN (Vachal). Current status: *Thyreus calcaratus* (Vachal, 1903). Note: African species, wrong locality label. Apidae.
- calceata**, *Crocisa* Vachal, 1903a: 380: n. sp., 7♂, 1♀, Type loc.: D.R.Congo; Gabon, Lastoursville, viii.1898; Senegal, Dakar; Sierra Leone; Uganda (leg. Bouysson; Denoit; Hoton; Mocquers), Repository: RBINS; MNHN (Vachal). Current status: *Thyreus calceatus* (Vachal, 1903). Apidae.
- caledonica**, *Megalyra* Vachal, 1908a: 24: n. sp., 1♀, Type loc. (holotype): Nouvelle Calédonie, forêt d'Yahoué (leg. Fleutiaux). Current status: *Megalyra caledonica* Vachal, 1908. Megalyridae.
- caledonicus**, *Priocnemis* Vachal, 1907c: 116: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Priocnemis caledonicus* Vachal, 1907. Note: Incertae sedis. Pompilidae.
- caligans**, *Halictus* Vachal, 1904c: 125: n. sp., 5♀, Type loc.: Bolivia; Brazil, Rio Grande do Sul; Peru, Callanga; Venezuela (leg. Stieglmayr), Repository: MNHN (Vachal); MSNG (Magretti); NMW. Current status: *Neocorynura caligans* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- callopis**, *Halictus* Vachal, 1911: 41: n. sp., 3♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Megaloptilla callopis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- canosus**, *Halictus* Vachal, 1903d: 123: n. sp., 1♂, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Caenohalictus canosus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- capitulatus**, *Halictus* Vachal, 1904a: 472: n. sp., 1♀, Type loc. (holotype): USA, Tennessee (not Mexico), Repository: MNHN (Sichel). Current status: *Lasioglossum fuscipenne* (Smith, 1853). Note: [halicti genuini]. Halictidae.
- capnopus**, *Halictus* Vachal, 1903a: 391: n. sp., 2♂, ♀♀, Type loc.: Gabon, Lastoursville, viii-ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum capnopum* (Vachal, 1903). Halictidae.
- cattulus**, *Halictus* Vachal, 1894: 437, 448: n. sp., 5♀, Type loc.: Myanmar, Bhamo; Myanmar, Schwegu (leg. Fea). Current status: *Lasioglossum (Ctenonomia) vagans* (Smith, 1857). Halictidae.
- catulus**, *Colletes* Vachal, 1904d: 26: n. sp., 1♂, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN. Current status: *Colletes petropolitanus* Dalla Torre, 1896. Colletidae.
- cavillosus**, *Halictus lucidiusculus*, Vachal, 1894: 441, 449: n. var., 1♂, 2♀, Type loc.: Myanmar, Carin Chebà (leg. Fea). Current status: *Lasioglossum (Dialictus) cavillosum* (Vachal, 1894). Halictidae.
- cearina**, *Melipona (Trigona)* Vachal, 1903a: 359: n. sp., 5w♀, Type loc.: Gabon, Lambaréné; Gabon, N'Doro (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Meliponula cameroonensis* (Friese, 1900). Apidae.
- centratus**, *Halictus* Vachal, 1903d: 103: n. sp., 1♂, Type loc. (holotype): Haiti, Repository: MNHN (Vachal). Current status: *Agapostemon (Agapostemon) centratus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- centrosus**, *Halictus* Vachal, 1910a: 328: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Katumba, ix.1907 (leg. Neave), Repository: RMCA. Current status: *Halictus (Seladonia) centrosa* (Vachal, 1910). Halictidae.
- ceramocare**, *Notiopimpla* Vachal, 1907c: 119–120: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Echthromorpha ceramocare* (Vachal, 1907). Ichneumonidae.
- cerasis**, *Halictus* Vachal, 1911: 55: n. sp., 1♂, Type loc. (holotype): Haiti, Repository: MNHN (Vachal). Current status: *Pereirapis cerasis* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- cercops**, *Halictus* Vachal, 1904c: 124: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura cercops* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.

- chaetops** (as *chætops*), *Halictus* Vachal, 1903d: 122: n. sp., 1♂, Type loc. (holotype): Mexico, Repository: MNHN. Current status: *Caenagochlora* (*Caenagochlora*) *chaetops* (Vachal, 1903). Note: [halicti intermedii (sic!)]. Halictidae.
- chalcis**, *Halictus* Vachal, 1903d: 93: n. sp., 1♀, Type loc. (holotype): Brazil, Bahia, Repository: NMW. Current status: *Agapostemon* (*Agapostemon*) *poeyi* (Lucas, 1857). Note: [halicti intermedii]. Halictidae.
- chalcocithon**, *Halictus* Vachal, 1911: 56: n. sp., 1♂, Type loc. (holotype): Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Lasioglossum* (*Dialictus*) *chalcocithon* (Vachal, 1911). Note: [halicti hexagoni-sericea & falcata (sic!)]. Halictidae.
- chalconota**, *Nomia* Vachal, 1897(“1895”): 84–85: n. sp., 1♀, Type loc. (holotype): Moçambique, Rikatla (leg. Fornasini), Repository: MSNG. Current status: *Lipotriches cinerascens* (Smith, 1875). Note: The description is communicated by and clearly provided by Vachal, not Gribodo. Halictidae.
- chaperi** (as *Chaperi*), *Halictus* Vachal, 1904c: 113: n. sp., 1♀, Type loc. (holotype): Venezuela, 1883 (leg. Chaper), Repository: MNHN. Current status: *Megalopta chaperi* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.
- cherazon**, *Halictus* Vachal, 1904c: 113: n. sp., 1♀, Type loc. (holotype): Brazil, Espírito Santo, Repository: MNHN (Vachal). Current status: *Megommation insigne* (Smith, 1853). Note: [halicti hexagoni-megalopti]. Halictidae.
- chiriquiensis** (as *Chiriquiensis*), *Halictus* Vachal, 1903d: 92: n. sp., 1♀, Type loc. (holotype): Panamá, Chiriquí, Repository: MNHN (Vachal)?. Current status: *Agapostemon* (*Agapostemon*) *chiriquiensis* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- chlapovskii**, *Halictus* Vachal, 1902: 226: n. sp., 1♂, 1♀, Type loc.: Rusia, W Siberia, Repository: ISZP (Radoszkowski). Current status: *Lasioglossum* (*Lasioglossum*) *rostratum* (Eversmann, 1852). Halictidae.
- chlerogas**, *Halictus* Vachal, 1904c: 127: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Chlerogas chlerogas* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- Chlerogas**, *Halictus* Vachal, 1904c: 127: n.genus. Current status: *Chlerogas* Vachal, 1904. Note: [halicti hexagoni-coarctati] Type species: *Halictus chlerogas* Vachal, 1904, monobasic and absolute tautonymy. Halictidae.
- chlorocion**, *Halictus* Vachal, 1904c: 140: n. sp., 3♂, Type loc.: Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Neocorynura lignys* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- cholas**, *Halictus* Vachal, 1903d: 135: n. sp., 6♀, Type loc.: Argentina, Tucumán, Tapia, 600m, iv.1903; Argentina-Brazil, Paraná; Brazil, Pará?; Brazil, Rio Grande do Sul; Uruguay, Montevideo (leg. Baer; Ihering), Repository: MNHN (Vachal); NMW. Current status: *Augochloropsis cholas* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- chorisis**, *Halictus* Vachal, 1903d: 136: n. sp., ♀♀, Type loc.: Brazil; Brazil, Colônia Hansa (Corupá); Mexico; Mexico, Orizaba; USA, Georgia; USA, Texas (leg. Biart; Bilimek; Birkmann; Boll; Hetschko; Morrison; Natterer; Sallé; Schott; Winthem), Repository: MNHN (Sichel; Vachal); NMW. Current status: *Augochloropsis metallica* (Fabricius, 1793). Note: [halicti hexagoni-vibrissati]. Halictidae.
- chrysaspis**, *Halictus* Vachal, 1911: 17–18: n. sp., 1♀, Type loc. (holotype): French Guiana, Cayenne, Repository: MNHN (Vachal). Current status: *Pereirapis chrysaspis* (Vachal, 1911). Note: [halicti hexagoni-falcata]. Halictidae.
- chrysopogon**, *Megachile* Vachal, 1910a: 313: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kiamokosa, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile chrysopogon* Vachal, 1910. Megachilidae.
- chrysops**, *Halictus* Vachal, 1904c: 128: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura chrysops* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- cicindulus**, *Halictus* Vachal, 1903d: 123: n. sp., 1♂, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Caenohalictus cicindulus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- cicur**, *Halictus* Vachal, 1904c: 125: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura cicur* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- circinatus**, *Halictus* Vachal, 1904a: 474–475: n. sp., 2♂, ♀♀, Type loc.: Mexico; Mexico, Orizaba (leg. Biart), Repository: MNHN (Sichel). Current status: *Lasioglossum circinatum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- cirrhopus**, *Halictus* Vachal, 1903d: 135: n. sp., 3♀, Type loc.: Brazil, Orissanga (leg. Natterer), Repository: NMW. Current status: *Augochloropsis cirrhopus* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- cirrhazonius**, *Halictus* Vachal, 1895a: 147: n. sp., 1♂, Type loc. (holotype): Spain, Sevilla, Repository: col. Medina. Current status: *Lasioglossum pallens* (Brullé, 1832). Halictidae.
- cirrita**, *Nomia* Vachal, 1903a: 398–399: n. sp., 2♀, Type loc.: D.R.Congo, Boma; Djibouti, Obock (leg. Jousseume; Tschoffen), Repository: RBINS; MNHN. Current status: *Lipotriches cirrita* (Vachal, 1903). Halictidae.

- citerior**, *Halictus* Vachal, 1904a: 473: n. sp., 1♀, Type loc. (holotype): no locality, Repository: NMW. Current status: *Lasioglossum citerium* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- citricornis**, *Halictus* Vachal, 1904a: 471: n. sp., 1♂, 1♀, Type loc.: Chile, Repository: NMW. Current status: *Pseudagapostemon* (*Pseudagapostemon*) *citricornis* (Vachal, 1904). Note: [halicti genuini (sic!)]. Halictidae.
- clavisetis**, *Nomia* Vachal, 1910a: 325–326: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Lipotriches clavisetis* (Vachal, 1910). Halictidae.
- clavispinis**, *Megachile* Vachal, 1909b: 14: n. sp., 1♂, Type loc. (holotype): Brazil, probably Goiás, Repository: MNHN (Vachal). Current status: *Megachile* (*Pseudocentron*) *rubricata* Smith, 1853. Megachilidae.
- cloti** (as *Cloti*), *Xylocopa* (*Koptortosoma*) Vachal, 1898: 98, 99: n. sp., 1♂, 2♀, Type loc.: Egypt, 1850; South Africa, Natal (leg. Clot), Repository: MNHN (Sichel). Current status: *Xylocopa cloti* Vachal, 1898. Apidae.
- coactilis**, *Halictus* Vachal, 1904a: 484: n. sp., 2♀, Type loc.: Mexico, 1857; Mexico, Orizaba, 1862 (leg. Biart; Sallé), Repository: MNHN. Current status: *Lasioglossum* (*Dialictus*) *aspasia* (Smith, 1879). Note: [halicti genuini]. Halictidae.
- codion**, *Halictus* Vachal, 1904c: 124–125: n. sp., 4♀, Type loc.: Bolivia; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura codion* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- colatus**, *Halictus* Vachal, 1904a: 476–477: n. sp., 1♂, Type loc. (holotype): USA, Colorado (leg. Morrison), Repository: NMW. Current status: *Lasioglossum trizonatum* (Cresson, 1874). Note: [halicti genuini]. Halictidae.
- collaris**, *Allodape interrupta*, Vachal, 1903a: 386: n. var., 1♀, Type loc. (holotype): Sierra Leone, Repository: MNHN (Vachal). Current status: *Allodape collaris* Vachal, 1903. Apidae.
- collaris**, *Nomia* Vachal, 1903a: 399: n. sp., 1♀, Type loc. (holotype): Africa, Repository: RBINS (Puls). Current status: *Lipotriches collaris* (Vachal, 1903). Halictidae.
- coloradinus** (as *Coloradinus*), *Halictus* Vachal, 1903d: 90: nom. nov.. Current status: *Agapostemon* (*Agapostemon*) *coloradinus* (Vachal, 1903). Note: [halicti intermedii] replacement name for *Agapostemon coloradensis* Crawford, 1901, nec *Augochlora coloradensis* Titus, 1901. Halictidae.
- columbus**, *Halictus* Vachal, 1903d: 98, 122: n. sp., 1♂, 1♀, Type loc.: Colombia, Bogotá, Repository: MNHN. Current status: *Caenohalictus columbus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- colura**, *Xylocopa* (*Xylocopa*) Vachal, 1898: 92–93: n. sp., 1♂, Type loc. (holotype): South Africa, Cafrerie (Cape Province), Repository: MNHN (Sichel). Current status: *Xylocopa sicheli* Vachal, 1898. Apidae.
- comis**, *Halictus* Vachal, 1911: 54: n. sp., 1♂, Type loc. (holotype): Mexico, Orizaba (leg. Biart), Repository: MNHN. Current status: *Augochlorella comis* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- compar**, *Halictus* Vachal, 1904c: 21–22: n. sp., 2♀, Type loc.: Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Neocorynura jucunda* (Smith, 1879). Note: [halicti hexagoni-sericei (sic!)]. Halictidae.
- compta**, *Megachile* Vachal, 1908b: 233: n. sp., 1♀, Type loc. (holotype): Argentina, "la plaine" (plains), Repository: MNHN (Vachal). Current status: *Megachile* (*Cressoniella*) *compta* Vachal, 1908. Megachilidae.
- connexa**, *Tetrapedia* Vachal, 1909b: 30–31: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiro, Repository: MNHN (Vachal). Current status: *Paratetrapedia connexa* (Vachal, 1909). Apidae.
- continens**, *Halictus* Vachal, 1911: 42, 47: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiro, Repository: MNHN (Vachal). Current status: *Augochlora* (*Oxystoglossella*) *thalia* Smith, 1879. Note: [halicti hexagoni-falcati]. Halictidae.
- corneipalmis**, *Megachile* Vachal, 1910a: 311–312: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kambove to Bunkeya, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile apiformis* Smith, 1853. Megachilidae.
- corynodes**, *Priocnemis* Vachal, 1907c: 116–117: n. sp., n♂, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Melanagenia corynodes* (Vachal, 1907). Pompilidae.
- cosmetor**, *Halictus* Vachal, 1911: 51: n. sp., 4♂, Type loc.: Colombia, Bogotá (leg. Lindig), Repository: ZMHB. Current status: *Neocorynurella cosmetor* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- costalis**, *Halictus* Vachal, 1904a: 475: n. sp., 4♀, Type loc.: Mexico; Mexico, Orizaba (leg. Biart; Bilimek), Repository: MNHN (Sichel); NMW?. Current status: *Lasioglossum costale* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- crassula**, *Nomia* Vachal, 1903a: 398: n. sp., 1♀, Type loc. (holotype): Senegal, Dakar, Repository: RBINS. Current status: *Lipotriches crassula* (Vachal, 1903). Halictidae.
- crassus**, *Halictus* Vachal, 1904a: 477: n. sp., 6♀, Type loc.: USA, Georgia; USA, New York; USA, South Carolina (leg. Morrison), Repository: MNHN (Sichel); NMW. Current status: *Lasioglossum* (*Evylaeus*) *cinctipes* (Provancher, 1888). Note: [halicti genuini]. Halictidae.
- crawfordi** (as *Crawfordi*), *Halictus* Vachal, 1904c: 17–18, 22: n. sp., 2♂, 5♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Pseudaugochlora crawfordi* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.

- cribellata**, *Prosopis* Vachal, 1901: 82: n. sp., 1♂, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Hylaeus cribellatus* (Vachal, 1901). Colletidae.
- crocinus**, *Halictus* Vachal, 1903a: 389–390: n. sp., ♂♂, 8♀, Type loc.: Gabon, Lastoursville, viii-ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum crocinum* (Vachal, 1903). Halictidae.
- crocoturus**, *Halictus* Vachal, 1904a: 473–474: n. sp., 1♂, 2♀, Type loc.: Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum crocoturum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- crossotos**, *Halictus* Vachal, 1904c: 118: n. sp., 1♀, Type loc. (holotype): Brazil, W of capitancy of Mines (Minas Gerais), Repository: MNHN. Current status: *Paroxystoglossa crossotos* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- cruenta**, *Prosopis* Vachal, 1910d: 69: n. sp., 1♀, Type loc. (holotype): Guyana, Repository: MNHN. Current status: *Hylaeus (Gongyloprosopis) cruentus* (Vachal, 1910). Colletidae.
- crustata**, *Prosopis* Vachal, 1909b: 61: n. sp., 1♀, Type loc. (holotype): Guyana, Repository: MNHN. Current status: *Hylaeus crustatus* (Vachal, 1909). Colletidae.
- cryptoides**, *Cremastus* Vachal, 1907c: 121: n. sp., n♂, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Eriborus cryptoides* (Vachal, 1907). Ichneumonidae.
- cubiceps**, *Halictus* Vachal, 1903d: 133: n. sp., ♀♀, Type loc.: Brazil; Brazil, capitancy of Mines (Minas Gerais); Mexico; Uruguay, Montevideo (leg. Beské; Kamerlacher; Winthem), Repository: MNHN (Sichel); NMW. Current status: *Augochloropsis electra* (Smith, 1853). Note: [halicti hexagoni-vibrissati]. Halictidae.
- cubitalis**, *Halictus* Vachal, 1904a: 486: n. sp., 2♂, 10♀, Type loc.: Mexico, [Las Trojes], Repository: MNHN (Sichel). Current status: *Lasioglossum (Dialictus) cubitale* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- cubitalis**, *Nomia* Vachal, 1897b: 87: n. sp., 1♂, Type loc. (holotype): South Africa, Cafrerie (Cape Province), Repository: MNHN (Sichel). Current status: *Lipotriches cubitalis* (Vachal, 1897). Halictidae.
- culiculum**, *Camptopoeum* (*Camptopoeum*) Vachal, 1909b: 44: n. sp., 2♂, Type loc.: Chile, Concepción, 25.xi, 4.xii, Repository: MNHN (Vachal). Current status: *Callonychium (Paranychium) culiculum* (Vachal, 1909). Andrenidae.
- cuniculus**, *Halictus* Vachal, 1894: 437–438, 448: n. sp., 1♀, Type loc. (holotype): Myanmar (as Tenasserim), Thagatà, iv.1887 (leg. Fea). Current status: *Lasioglossum (Ctenonomia) cuniculus* (Vachal, 1894). Halictidae.
- cupidus**, *Halictus* Vachal, 1902: 230: n. sp., 2♂, Type loc.: Turkmenistan, Transcaspie, Sérachs, Repository: ISZP (Radoszkowski). Current status: *Halictus cupidus* Vachal, 1902. Halictidae.
- cuprellus**, *Halictus* Vachal, 1903d: 99: n. sp., 3♀, Type loc.: Chile, Arica; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Caenohalictus cuprellus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- cupriventris**, *Halictus* Vachal, 1904c: 17: n. sp., 1♀, Type loc. (holotype): Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Caenaugochlora (Caenaugochlora) cupriventris* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- cupulifera**, *Allodape* Vachal, 1894: 447: n. sp., 1♂, Type loc. (holotype): Myanmar, Carin Chebà, xii.1888 (leg. Fea). Current status: *Braunsapis cupulifera* (Vachal, 1895). Apidae.
- curtata**, *Macrocera* Vachal, 1904d: 21: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Río Salí, 21.xii.1899 (leg. Girard), Repository: MNHN (Vachal). Current status: *Melissodes (Ecplectica) tintinnans* (Holmberg, 1884). Apidae.
- curticeps**, *Halictus* Vachal, 1903d: 122: n. sp., 1♂, Type loc. (holotype): Brazil (leg. Beské), Repository: NMW. Current status: *Caenohalictus curticeps* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- curtipilis**, *Megachile* Vachal, 1909b: 11: n. sp., 1♂, Type loc. (holotype): Peru, Urubamba, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) curtipilis* Vachal, 1909. Megachilidae.
- curtula**, *Prosopis* Vachal, 1910d: 68: n. sp., 1♂, 2♀, Type loc.: Bolivia, Mapiri; Peru, Callanga, Repository: MNHN. Current status: *Hylaeus curtulus* (Vachal, 1910). Colletidae.
- curtulus**, *Halictus* Vachal, 1904a: 482: n. sp., 1♀ (as ♂ in text), Type loc.: Mexico, Oaxaca, Repository: MNHN (Sichel). Current status: *Lasioglossum (Evylaeus) curtulus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- cyaneon**, *Halictus* Vachal, 1904c: 124: n. sp., 2♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura cyaneon* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- cyanonigrans**, *Halictus* Vachal, 1904c: 19, 23: n. sp., n♂, 2♀, Type loc.: Mexico, Orizaba, 1862; Venezuela (leg. Biart), Repository: MNHN. Current status: *Pseudaugochlora sordicutis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- cyclis**, *Halictus* Vachal, 1903d: 130: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochloropsis cyclis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- cylix**, *Halictus* Vachal, 1911: 46: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) cylix* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.

- cymatoides** (as *cymatoïdes*), *Halictus* Vachal, 1911: 23: n. sp., 2♀, Type loc.: Mexico; Peru, Cusco (leg. Gay), Repository: MNHN (Sichel). Current status: *Augochlora* (*Oxystoglossella*) *cymatoides* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- dama**, *Macrocera* Vachal, 1904d: 22: n. sp., 2♀, Type loc.: Argentina, Tucumán (leg. Girard), Repository: MNHN. Current status: *Melissoptila dama* (Vachal, 1904). Apidae.
- dasygaster**, *Halictus* Vachal, 1894: 435, 448: n. sp., 1♀, Type loc. (holotype): Myanmar, Carin Chebà (leg. Fea). Current status: *Lasioglossum* (*Ctenonomia*) *dasygaster* (Vachal, 1894). Halictidae.
- davidi** (as *Davidi*), *Ctenoplectra* Vachal, 1903b: 99: n. sp., 1♀, Type loc. (holotype): China, Peking (Beijing), Mou-Pin (leg. David), Repository: MNHN. Current status: *Ctenoplectra davidi* Vachal, 1903. Apidae.
- delumbata**, *Crocisa* Vachal, 1903a: 381: n. sp., 1♂, 2♀, Type loc.: D.R.Congo, Boma; Sierra Leone (leg. Tschoffen), Repository: RBINS; MNHN (Vachal). Current status: *Thyreus delumbatus* (Vachal, 1903). Apidae.
- denoiti** (as *Denoiti*), *Melipona* (*Trigona*) Vachal, 1903a: 360: n. sp., 5w♀, Type loc.: Uganda (leg. Denoit), Repository: RBINS. Current status: *Plebeina hildebrandti* (Friese, 1900). Apidae.
- denticulus**, *Halictus* Vachal, 1904a: 469: n. sp., 1♂, 2♀, Type loc.: USA, Nevada (leg. Morrison), Repository: NMW. Current status: *Halictus* (*Halictus*) *farinosus* Smith, 1853. Note: [halicti genuini]. Halictidae.
- dentipes**, *Megachile* Vachal, 1909b: 11–12: n. sp., 1♂, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Sayapis*) *cylindrica* Friese, 1906. Megachilidae.
- depilis**, *Eucera* Vachal, 1907a: 376, 378: n. sp., ♂♂, Type loc.: Algeria, Constantine; Algeria, Ouarsenis; Morocco, Tanger. Current status: *Eucera depilis* Vachal, 1907. Note: Incertae sedis. Apidae.
- detudis**, *Halictus* Vachal, 1911: 47: n. sp., 1♀, Type loc. (holotype): Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *detudis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- devexa**, *Megachile* Vachal, 1903a: 361: n. sp., 4♂, 1♀, Type loc.: Gabon, N'Doro, x-xi.1898; Gabon, Samlia river falls (leg. Bouyssou; Mocquerys), Repository: RBINS; [MNHN]. Current status: *Megachile devexa* Vachal, 1903. Megachilidae.
- diaphractes**, *Halictus* Vachal, 1911: 19–20: n. sp., 2♀, Type loc.: Bolivia, [Mapiri], Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *diaphractes* (Vachal, 1911). Note: [halicti hexagoni-falcati] alternative spelling *diaphractas* is considered printer's error. Halictidae.
- diatretus**, *Halictus* Vachal, 1904a: 481–482: n. sp., 1♂, 4♀, Type loc.: Canada, Vancouver; USA, Colorado; USA, Nevada (leg. Morrison), Repository: NMW. Current status: *Lasioglossum* (*Evylaeus*) *diatretus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- diducta**, *Nomia* Vachal, 1897b: 90: n. sp., 1♀, Type loc. (holotype): Somalia, Repository: MNHN (Vachal). Current status: *Pseudapis anthidioides* (Gerstäcker, 1857). Halictidae.
- dilutior**, *Halictus* Vachal, 1903d: 124: n. sp., 2♂, Type loc.: Chile, Arica; Peru, Cusco (leg. Gay), Repository: MNHN (general; Vachal). Current status: *Caenohalictus dilutior* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- dilutipes**, *Halictus caligans*, Vachal, 1904c: 125: n. var., 7♀, Type loc.: Brazil (leg. Beské), Repository: NMW. Current status: *Neocorynura dilutipes* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- dimidiata**, *Nomia* Vachal, 1897b: 92: n. sp., 1♀, Type loc. (holotype): Indonesia, Ile Sula (Sulawesi), Repository: MSNG (Gribodo). Current status: *Nomia dimidiata* Vachal, 1897. Note: Incertae sedis. Halictidae.
- Diphaglossinae** (as *Diphaglossinae*), Vachal, 1909b: 33: family-group name,. Colletidae.
- diploon**, *Halictus* Vachal, 1904c: 124: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura diploon* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- dirhipis**, *Halictus* Vachal, 1903d: 136: n. sp., ♀♀, Type loc.: Brazil, Espírito Santo; Brazil, Rio Grande do Sul; no locality (leg. Stieglmayr), Repository: MNHN (Vachal); NMW. Current status: *Augochloropsis dirhipis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- discobola**, *Macrocera* Vachal, 1904d: 21–22: n. sp., 2♂, Type loc.: Argentina, Buenos Aires, 12.xii.1900, Repository: MNHN. Current status: *Melissoptila desiderata* (Holmberg, 1903). Apidae.
- discophora**, *Prosopis* Vachal, 1895b: cccxxiii–cccxxiv: n. sp., 1♂, 1♀, Type loc.: Algeria, Repository: MSNG (Gribodo). Current status: *Hylaeus* (*Lambdopsis*) *annularis* (Kirby, 1802). Colletidae.
- discors**, *Halictus* Vachal, 1903d: 131: n. sp., 1♀, Type loc. (holotype): Brazil, Rio Grande do Sul (leg. Stieglmayr), Repository: MNHN (Vachal); NMW. Current status: *Augochloropsis discors* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- dittachos**, *Halictus* Vachal, 1904c: 128: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura dittachos* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- ditypa**, *Xylocopa* (*Xylocopa*) Vachal, 1898: 96: n. sp., 1♀, Type loc. (holotype): Africa, Repository: MNHN. Current status: *Xylocopa ditypa* Vachal, 1898. Apidae.

- divaricatus**, *Halictus* Vachal, 1903d: 93–94: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Catarina, Repository: MNHN (Schulthess Schindler). Current status: *Oragapostemon divaricatus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- dolator**, *Halictus* Vachal, 1903d: 98, 121: n. sp., 1♂, 1♀, Type loc.: Chile, Arica, Repository: MNHN (Vachal). Current status: *Caenohalictus dolator* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- dolosa**, *Xylocopa* (*Koptortosoma*) *modesta*, Vachal, 1899d: 145: n. var., 1♀, Type loc. (holotype): Somalia, Ueberet lo (leg. [Ruspoli]), Repository: MSNG (Magretti). Current status: *Xylocopa dolosa* Vachal, 1899. Apidae.
- dorsalis**, *Anthophora* Vachal, 1909b: 17: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Anthophora dorsalis* Vachal, 1909. Apidae.
- dorsualis**, *Halictus* Vachal, 1911: 16: n. sp., 2♀, Type loc.: Bolivia, Mapiri; Colombia, Bogotá, Repository: MNHN (Vachal); ZMHB. Current status: *Augochlora* (*Augochlora*) *dorsualis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- drepanis**, *Halictus* Vachal, 1903d: 131: n. sp., 2♀, Type loc.: Brazil, Ipanema; Brazil, Orissanga (leg. Natterer), Repository: NMW. Current status: *Augochloropsis drepanis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- dubium**, *Camptopoeum* (*Camptopoeum*) Vachal, 1909b: 43–44: n. sp., n♂, Type loc.: Brazil, Minas Gerais, 1000m (leg. Wagner), Repository: MNHN. Current status: *Rhophitulus dubium* (Vachal, 1909). Andrenidae.
- duplocincta**, *Nomia* Vachal, 1897b: 74: n. sp., n♂, n♀, Type loc.: Senegal, Repository: MNHN (Sichel). Current status: *Pseudapis duplocincta* (Vachal, 1897). Halictidae.
- duplocinctus**, *Halictus* Vachal, 1902: 225–226: n. sp., 1♂, 1♀, Type loc.: Turkmenistan, Aschabad; Turkmenistan, Ghermab?, Repository: ISZP (Radoszkowski). Current status: *Halictus* (*Halictus*) *duplocinctus* Vachal, 1902. Halictidae.
- duponti** (as *Duponti*), *Halictus* Vachal, 1903a: 389: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Beni Bendi Sankuru [nr. Kasai] (leg. [Cloetens]), Repository: RBINS. Current status: *Lasioglossum duponti* (Vachal, 1903). Halictidae.
- duponti** (as *Duponti*), *Megachile* Vachal, 1903a: 362: n. sp., 9♂, 4♀, Type loc.: D.R.Congo, Umanghi, ix-xi.1896; Equatorial Guinea, Kogo; Gabon, Samlia river falls, Gamio river (leg. Mocquerys; Wilverth), Repository: RBINS; MNHN. Current status: *Megachile adeoloptera* Schletterer, 1891. Megachilidae.
- eburnipes**, *Megachile* Vachal, 1904d: 13: n. sp., 1♂, Type loc. (holotype): Argentina, Tucumán, 20.ii.1898 (leg. Girard), Repository: MNHN. Current status: *Megachile* (*Acentron*) *eburnipes* Vachal, 1904. Megachilidae.
- ectasis**, *Halictus* Vachal, 1911: 17: n. sp., 4♀, Type loc.: Colombia, Bogotá; Costa Rica, Repository: MNHN (Vachal); ZMHB. Current status: *Augochlora* (*Oxystoglossella*) *ectasis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- ectypus**, *Halictus* Vachal, 1904a: 484: n. sp., 1♂, 2♀, Type loc.: Mexico, 1857; Mexico, Orizaba, 1862 (leg. Biart; Sallé), Repository: MNHN. Current status: *Lasioglossum* (*Dialictus*) *aurora* (Smith, 1879). Note: [halicti genuini]. Halictidae.
- egregius**, *Halictus* Vachal, 1904a: 476: n. sp., 2♀, Type loc.: Canada, British Columbia, [Yale]; USA, Washington, Easton, Repository: NMW. Current status: *Lasioglossum trizonatum* (Cresson, 1874). Note: [halicti genuini]. Halictidae.
- elachion**, *Halictus* Vachal, 1904c: 17, 24: n. sp., 1♂, 1♀, Type loc.: Honduras, San Pedro Sula, Repository: MSNG (Magretti). Current status: *Caenohalictus elachion* (Vachal, 1904). Note: [halicti hexagoni-sericei (sic!)]. Halictidae.
- elongatula**, *Eucera* Vachal, 1907a: 377–378: n. sp., ♂♂, Type loc.: Algeria, Barika; Algeria, Teniet; Morocco, Tanger; Tunesia, Sfax. Current status: *Eucera elongatula* Vachal, 1907. Apidae.
- engys**, *Halictus* Vachal, 1911: 47: n. sp., 1♀, Type loc. (holotype): Colombia, [Salento] (leg. Rhode), Repository: ZMHB. Current status: *Augochlora* (*Augochlora*) *engys* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- enodis**, *Colletes* Vachal, 1909b: 50: n. sp., n♂, n♀, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Rhynchocolletes enodis* (Vachal, 1909). Colletidae.
- ephelix**, *Halictus* Vachal, 1904c: 116: n. sp., 2♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Habralictus ephelix* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- equator**, *Sphcodes* Vachal, 1904b: 314: n. sp., 1♂, Type loc. (holotype): Ecuador, Riobamba (leg. Rivet), Repository: MNHN. Current status: *Sphcodes equator* Vachal, 1904. Halictidae.
- ericia**, *Ceratina* Vachal, 1903a: 384: n. sp., 3♂, 3♀, Type loc.: Equatorial Guinea, Bata, x.1897; Gabon, Lastoursville, viii-ix.1898; Gabon, N'Doro, x-xi.1898, Repository: MNHN (Vachal). Current status: *Ceratina ericia* Vachal, 1903. Apidae.

- esox**, *Halictus* Vachal, 1911: 19: n. sp., ♀♀, Type loc.: Bolivia; Brazil; Brazil, Óbidos; Colombia, Bogotá; Guyana; Peru, Cusco (leg. Gay), Repository: MNHN (general; Vachal); ZMHB. Current status: *Augochlora* (*Augochlora*) *esox* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- eucnemis**, *Halictus* Vachal, 1911: 49: n. sp., 1♀, Type loc. (holotype): Brazil, Pernambuco, Repository: MNHN (de Gaulle (=general)). Current status: *Augochlora* (*Oxystoglossella*) *thalia* Smith, 1879. Note: [halicti hexagoni-falcati]. Halictidae.
- evanidus**, *Halictus* Vachal, 1903a: 393: n. sp., 1♀, Type loc. (holotype): Gabon, Libreville, 20.viii.1897 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum evanidum* (Vachal, 1903). Halictidae.
- exesa**, *Megachile* Vachal, 1903a: 365–366: n. sp., 9♂, 24♀, Type loc.: D.R.Congo, Boma; D.R.Congo, Lukungu; D.R.Congo, Popokabaka; Equatorial Guinea, Kogo; Gabon, Lastoursville, viii-ix.1898; Gabon, N'Doro, x-xi.1898; Gabon, Samlia river falls (leg. Bouysson; Haas; Loos; Mocquerys; Tschoffen), Repository: RBINS; MNHN (general; Vachal). Current status: *Megachile accraensis* Friese, 1903. Megachilidae.
- exiliceps**, *Halictus* Vachal, 1903c: 129–130: n. sp., 3♀, Type loc.: Japan (leg. Harmand). Current status: *Lasioglossum* (*Lasioglossum*) *exiliceps* (Vachal, 1903). Halictidae.
- exilipes**, *Nomia* Vachal, 1897b: 90–91: n. sp., 1♂, Type loc. (holotype): China, Canton (Guangzhou). Current status: *Lipotriches ceratina* (Smith, 1857). Halictidae.
- Exomalopses**, Vachal, 1909a: 7: family-group name., Apidae.
- expansa**, *Prosopis* Vachal, 1909b: 62: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN. Current status: *Hylaeus expansus* (Vachal, 1909). Colletidae.
- expleta**, *Anthophora* Vachal, 1910a: 324: n. sp., 1♂, 1♀, Type loc.: D.R.Congo, Mbiliwa to Wantu, x.1907; Tanzania, Usambara, Nguelo (leg. Neave), Repository: MNHN (Vachal); RMCA. Current status: *Amegilla expleta* (Vachal, 1910). Apidae.
- extensicornis**, *Colletes* Vachal, 1909b: 53: n. sp., 2♂, Type loc.: Brazil, Repository: MNHN (Vachal). Current status: *Colletes extensicornis* Vachal, 1909. Colletidae.
- extorris**, *Halictus* Vachal, 1902: 230: n. sp., 1♂, Type loc. (holotype): Egypt, Repository: ISZP (Radoszkowski). Current status: *Vestitohalictus pici* (Pérez, 1895). Halictidae.
- facialis**, *Megachile* Vachal, 1908b: 239–240: n. sp., 1♀, Type loc. (holotype): Peru, Huallaga, 1200m, Repository: MNHN (Vachal). Current status: *Megachile* (*Austromegachile*) *facialis* Vachal, 1908. Megachilidae.
- falsosa**, *Chalcis* Vachal, 1907c: 123: n. sp., n♂, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Brachymeria falsosa* (Vachal, 1907). Chalcididae.
- fartus**, *Halictus* Vachal, 1904a: 483: n. sp., 1♀, Type loc. (holotype): USA, Washington, Easton, Repository: NMW. Current status: *Lasioglossum* (*Evylaeus*) *fartus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- fastigiata**, *Megachile* Vachal, 1910a: 308: n. sp., 2♀, Type loc.: D.R.Congo, Kambove to Bunkeya, ix.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile fastigiata* Vachal, 1910. Megachilidae.
- feai** (as *Feai*), *Halictus* Vachal, 1894: 440–441, 449: n. sp., 1♂, 4♀, Type loc.: Myanmar, Carin Chebà (leg. Fea), Repository: MSNG (Gribodo). Current status: *Lasioglossum* (*Evylaeus*) *feai* (Vachal, 1894). Halictidae.
- feai** (as *Feai*), *Nomioides* Vachal, 1894: 447–448: n. sp., 2♀, Type loc.: Myanmar (as Tenasserim), Thagatà (leg. Fea). Current status: *Nomioides* OR *Evylaeus feai* (Vachal, 1895). Halictidae.
- feai** (as *Feai*), *Prosopis* Vachal, 1894: 444–446: n. sp., 19♂, 14♀, Type loc.: Myanmar, Bhamo; Myanmar, Carin Chebà; Myanmar, Schwegu; Myanmar (as Tenasserim) (leg. Fea). Current status: *Hylaeus feae* (Vachal, 1894). Colletidae.
- fertoni** (as *Fertoni*), *Evagetes* Vachal, 1899a: 538–539: n. sp., n♀, Type loc.: Algeria, Ghardaïa, v.1899, Repository: MNHN. Current status: *Tachyagetes* (*Dasyagetes*) *fertoni* (Vachal, 1899). Pompilidae.
- fertoni** (as *Fertoni*), *Halictus* Vachal, 1895a: 149: n. sp., 1♂, Type loc. (holotype): France, Gallo (Provence), 7.iv.1892 (leg. Ferton). Current status: *Lasioglossum* (*Lasioglossum*) *discum* (Smith, 1853). Halictidae.
- fertoni** (as *Fertoni*), *Prosopis* Vachal, 1891: 64–65: n. sp., ♂♂, ♀♀, Type loc.: Algeria, Alger; Algeria, Nemours, spring and fall (leg. Ferton; Gazagnaire), Repository: col. Gazagnaire. Current status: *Hylaeus fertoni* (Vachal, 1891). Colletidae.
- filitarsis**, *Ancylloscelis* Vachal, 1904d: 17–18: n. sp., 1♂, Type loc. (holotype): Argentina, Tucumán, Tapia, 600m, iii-iv.1903 (leg. Baer), Repository: MNHN. Current status: *Alepidosceles filitarsis* (Vachal, 1904). Apidae.
- fimbriata**, *Nomia* Vachal, 1897b: 87–88: n. sp., 1♂, Type loc. (holotype): South Africa, Cafrerie (Cape Province), Repository: MNHN (Sichel). Current status: *Lipotriches fimbriata* (Vachal, 1897). Halictidae.
- fimbriatellus**, *Halictus* Vachal, 1894: 429–430, 448: n. sp., 1♀, Type loc. (holotype): Myanmar, Carin Ghècù, 1400m, viii.1888 (leg. Fea). Current status: *Lasioglossum* (*Dialictus*) *fimbriatellum* (Vachal, 1894). Halictidae.
- fissa**, *Prosopis* Vachal, 1901: 80: n. sp., 1♂, 1♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Hylaeus fissus* (Vachal, 1901). Colletidae.

- flabellata**, *Megachile* Vachal, 1909b: 13–14: n. sp., 1♂, Type loc. (holotype): Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Megachile (Leptorachina) laeta* Smith, 1853. Megachilidae.
- flagrans**, *Halictus* Vachal, 1911: 24: n. sp., 1♀, Type loc. (holotype): Mexico, Orizaba (leg. Biart), Repository: MNHN. Current status: *Caenaugochlora (Caenaugochlora) flagrans* (Vachal, 1911). Note: [halicti hexagoni-falcati (sic!)]. Halictidae.
- flammiventris**, *Megachile* Vachal, 1908b: 225: n. sp., 1♀, Type loc. (holotype): Chile, Arica, Repository: MNHN (Vachal). Current status: *Megachile (Cressoniella) garleppi* Friese, 1904. Megachilidae.
- flavescens**, *Xylocopa (Koptortosoma) inconstans*, Vachal, 1899d: 146: n. var., 4♀, Type loc.: D.R.Congo, Moliro; Senegal (leg. Duvivier), Repository: RBINS. Current status: *Xylocopa inconstans* Smith, 1874. Apidae.
- flavicarpa**, *Nomia* Vachal, 1903a: 396: n. sp., 1♂, 4♀, Type loc.: Gabon, Libreville, viii.1897 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Pseudapis flavicarpa* (Vachal, 1903). Halictidae.
- flavicrinis**, *Megachile* Vachal, 1908b: 240: n. sp., 1♀, Type loc. (holotype): Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Megachile (Moureapis) flavicrinis* Vachal, 1908. Megachilidae.
- flavifrons**, *Psaenythia (Psaenythia)* Vachal, 1909b: 40: n. sp., n♂, Type loc.: Argentina, Santa Fe (leg. Wagner), Repository: MNHN. Current status: *Psaenythia flavifrons* Vachal, 1909. Note: Incertae sedis. Andrenidae.
- fleutiauxi** (as **Fleutiauxi**), *Porizon* Vachal, 1908a: 25: n. sp., 1♀, Type loc. (holotype): Nouvelle Calédonie, Nouméa (leg. Fleutiaux). Current status: *Porizon fleutiauxi* Vachal, 1908. Ichneumonidae.
- flexa**, *Megachile* Vachal, 1910a: 308: n. sp., 2♀, Type loc.: D.R.Congo, Bunkeya; D.R.Congo, Bunkeya to Lukafu, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile congruens* Friese, 1903. Megachilidae.
- foanus** (as *Foanus*), *Halictus* Vachal, 1899c: 233–234: n. sp., n♀, Type loc.: Moçambique, Haut-Zambèze (leg. Foà), Repository: [MNHN]. Current status: *Halictus (Seladonia) foana* (Vachal, 1899). Halictidae.
- fornix**, *Halictus* Vachal, 1904c: 114: n. sp., 1♀, Type loc. (holotype): Peru, Huallaga, 1200m, vii–viii.1900 (leg. Baer), Repository: MNHN (Vachal). Current status: *Megalopta fornix* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.
- fossisternis**, *Prosopis* Vachal, 1909b: 59–60: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus bertonii* (Schrottky, 1907). Colletidae.
- fraterna**, *Xylocopa (Xylocopa)* Vachal, 1899d: 106: n. sp., 1♂, Type loc. (holotype): Moçambique, B. Delagoa, Repository: RBINS. Current status: *Xylocopa hottentotta* Smith, 1854. Apidae.
- fugax**, *Halictus* Vachal, 1904c: 20: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) fugax* (Vachal, 1904). Note: [halicti hexagoni-sericeii]. Halictidae.
- fulgur**, *Halictus* Vachal, 1904c: 19: n. sp., 1♀, Type loc. (holotype): Mexico, Orizaba, 1862; Venezuela (leg. Biart), Repository: MNHN. Current status: *Caenaugochlora (Caenaugochlora) fulgur* (Vachal, 1904). Note: [halicti hexagoni-sericeii]. Halictidae.
- furcata**, *Megachile* Vachal, 1909b: 9–10: n. sp., 1♂, Type loc. (holotype): Mexico, Chihuahua, Repository: MNHN (Vachal). Current status: *Megachile (Pseudocentron) furcata* Vachal, 1909. Megachilidae.
- furfurea**, *Eucera* Vachal, 1907a: 375: n. sp., 5♀, Type loc.: Turkey, Gülek, vii. Current status: *Eucera furfurea* Vachal, 1907. Apidae.
- fusca**, *Psaenythia (Parapsaenythia)* Vachal, 1909b: 42: n. sp., 1♀, Type loc. (holotype): Brazil, Repository: MNHN (Sichel). Current status: *Psaenythia fusca* Vachal, 1909. Note: Incertae sedis. Andrenidae.
- fuscatipes**, *Halictus astios*, Vachal, 1911: 45: n. var., 5♀, Type loc.: USA, North Carolina, Elizabeth City, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) pura pura* (Say, 1837). Note: [halicti hexagoni-falcati]. Halictidae.
- fuscicrinis**, *Halictus* Vachal, 1903d: 125: n. sp., 2♀, Type loc.: Brazil, 1846; Brazil, Goiás, Jataí (leg. Helmreichen), Repository: MNHN; NMW. Current status: *Augochloropsis smithiana* (Cockerell, 1900). Note: [halicti hexagoni-vibrissati]. Halictidae.
- fuscorufa**, *Eucera* Vachal, 1907a: 376: n. sp., ♀♀, Type loc.: Algeria, Blida; Algeria, Constantine; Algeria, Ouarsenis; Algeria, Teniet; Morocco, Tanger. Current status: *Eucera fuscorufa* Vachal, 1907. Note: Incertae sedis. Apidae.
- gabonensis**, *Omachtes* Vachal, 1903a: 382–383: n. sp., 1♀, Type loc. (holotype): Gabon, Libreville, viii.1897 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Pasites gabonensis* (Vachal, 1903). Apidae.
- gabonica**, *Prosopis* Vachal, 1899a: 536: n. sp., 5♀, Type loc.: Equatorial Guinea, Bata, 5.ix.1897; Equatorial Guinea, River Mouny, 1898; Gabon, N'Doro, 14.xi.1898 (leg. Bouyssou). Current status: *Hylaeus gabonicus* (Vachal, 1899). Colletidae.
- gaullei** (as *Gaullei*), *Apista* Vachal, 1909b: 37: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Eulonchopria gaullei* (Vachal, 1909). Colletidae.

- gaullei** (as *Gaullei*), *Caupolicana* Vachal, 1901: 78–79: n. sp., 1♂, Type loc. (holotype): Brazil, São Paulo, [Rio Pardo], xii.1898, Repository: MNHN (de Gaulle (=general)). Current status: *Caupolicana gaullei* Vachal, 1901. Colletidae.
- gaullei** (as *Gaullei*), *Diphaglossa* Vachal, 1904d: 23: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN. Current status: *Mydrosomella gaullei* (Vachal, 1904). Colletidae.
- gaullei** (as *Gaullei*), *Dufourea* Vachal, 1897a: 63–64: n. sp., n♂, n♀, Type loc.: Spain, Madrid, El Escorial, vi.1894, Repository: MNHN (de Gaulle (=general)). Current status: *Dufourea gaullei* Vachal, 1897. Halictidae.
- gaullei** (as *Gaullei*), *Eucera* Vachal, 1907a: 374: n. sp., 5♂, 5♀, Type loc.: Turkey, Adana, iii-vii. Current status: *Eucera gaullei* Vachal, 1907. Apidae.
- gaullei** (as *Gaullei*), *Halictus* Vachal, 1903d: 97: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Repository: MNHN (Vachal). Current status: *Caenohalictus gaullei* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- gaullei** (as *Gaullei*), *Prosopis* Vachal, 1899a: 536: n. sp., 1♀, Type loc. (holotype): Equatorial Guinea, River Mouny, 1898 (leg. Bouyssou). Current status: *Hylaeus gaullei* (Vachal, 1899). Colletidae.
- gaullei** (as *Gaullei*), *Tetrapedia* Vachal, 1904d: 22: n. sp., 2♀, Type loc.: Argentina, Tucumán, 18.xii.1898 (leg. Girard), Repository: MNHN. Current status: *Caenonomada bruneri* Ashmead, 1899. Apidae.
- gaullei** (as *Gaullei*), *Xylocopa* (*Xylocopa*) Vachal, 1898: 97–98: n. sp., 1♀, Type loc. (holotype): Ethiopia, Abyssinie, Repository: MNHN (de Gaulle (=general)). Current status: *Xylocopa gaullei* Vachal, 1898. Apidae.
- gazagnairei** (as *Gazagnairei*), *Prosopis* Vachal, 1891: 63–64: n. sp., ♀♀, Type loc.: Algeria?, Lalla Maghnia (leg. Gazagnaire), Repository: col. Gazagnaire; MNHN (Vachal). Current status: *Hylaeus gazagnairei* (Vachal, 1891). Colletidae.
- gelidus**, *Halictus* Vachal, 1904a: 481: n. sp., 1♂, Type loc. (holotype): USA, Colorado (leg. Morrison), Repository: NMW. Current status: *Lasioglossum (Evylaeus) aberrans* (Crawford, 1903). Note: [halicti genuini]. Halictidae.
- gemina**, *Prosopis* Vachal, 1910d: 67: n. sp., 2♀, Type loc.: Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus geminus* (Vachal, 1910). Colletidae.
- genovefae** (as *Genovefae*), *Eucera* Vachal, 1907a: 372–373: n. sp., n♂, n♀, Type loc.: Algeria, Ghardaïa, iii (leg. Sergeant). Current status: *Eucera genovefae* Vachal, 1907. Apidae.
- gentianae** (as *gentianæ*), *Andrena* Vachal, 1906: 132–133: n. sp., 2♀, Type loc.: France, Mont Canigou, Mariaille, 1500m, 16.vii, ex *Gentiana lutea*. Current status: *Andrena tarsata* Nylander, 1848. Andrenidae.
- genualis**, *Prosopis* Vachal, 1909b: 64: n. sp., unknown sex, Type loc.: [Bolivia, Mapiri], Repository: MNHN. Current status: *Hylaeus genualis* (Vachal, 1909). Colletidae.
- genuina**, *Xylocopa flavorufa*, Vachal, 1899d: 149, 152: n. var., 4♀, Type loc.: Africa; Moçambique, B. Delagoa; Moçambique, Zambèze; Tanzania, Tanga (leg. Durand; Gierra), Repository: MNHN (Sichel). Current status: *Xylocopa flavorufa* (DeGeer, 1778). Note: Possibly "genuina" was intended only as a s.str. when defining *flavorufa*, but has been used to define the subspecies by subsequent authors. Apidae.
- gibber**, *Halictus* Vachal, 1892a: cxxxvi–cxxxvii: n. sp., n♀ (mas latet), Type loc.: Sudan, Suakin (leg. Magretti), Repository: MSNG (Magretti). Current status: *Lasioglossum geteinum* (Cockerell, 1945). Halictidae.
- gibbidens**, *Megachile* Vachal, 1910a: 307–308: n. sp., 7♀, Type loc.: D.R.Congo, Kundelungu (leg. Neave), Repository: RMCA. Current status: *Megachile gibbidens* Vachal, 1910. Megachilidae.
- gilvus**, *Colletes* Vachal, 1909b: 56–57: n. sp., n♂, n♀, Type loc.: Chile, Arica, Repository: MNHN (Vachal). Current status: *Colletes gilvus* Vachal, 1909. Colletidae.
- girardi** (as *Girardi*), *Ancyloscelis* Vachal, 1904d: 18: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Río Salí, 17.xii.1899 (leg. Girard), Repository: MNHN. Current status: *Diadasia pereyrae* (Holmberg, 1903). Apidae.
- globula**, *Prosopis* Vachal, 1903c: 132: n. sp., 3♂, 1♀, Type loc.: Japan (leg. Harmand). Current status: *Hylaeus globula* (Vachal, 1903). Colletidae.
- glomerosum**, *Anthidium* Vachal, 1910a: 313–314: n. sp., 1♂, 1♀, Type loc.: D.R.Congo, Kambove to Ruwe, ii-iii.1907; D.R.Congo, Kilwa to Lukonzolwa, viii.1907 (leg. Neave), Repository: RMCA. Current status: *Pseudoanthidium truncatum livingstonei* (Cockerell, 1936). Megachilidae.
- gomphrenoides**, *Megachile* Vachal, 1908b: 236–237: n. sp., ♀♀, Type loc.: Argentina, Repository: MNHN (Vachal). Current status: *Megachile (Pseudocentron) gomphrenoides* (Vachal, 1908). Megachilidae.
- grammodes**, *Halictus* Vachal, 1904c: 116: n. sp., 2♀, Type loc.: Peru, Callanga, Repository: MNHN (Vachal). Current status: *Habralictus grammodes* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- granosus**, *Halictus* Vachal, 1904a: 477–478, 480: n. sp., 5♂, 6♀, Type loc.: USA, Colorado (leg. Morrison), Repository: NMW. Current status: *Lasioglossum (Evylaeus) granosus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- granulata**, *Nomia* Vachal, 1903a: 395: n. sp., 6♂, 4♀, Type loc.: D.R.Congo, Boma; Equatorial Guinea, Bata, ix.1898; Equatorial Guinea, River Mouny, 1898; Gabon, Libreville, vii.1897; Gabon, N'Doro, ix.1898; Gabon, N'Jolé (leg.

- Bouysson; Tschoffen), Repository: RBINS; MNHN (general; Vachal). Current status: *Nomia granulata* Vachal, 1903. Halictidae.
- gribodoi*** (as *Gribodoi*), *Nomia* Vachal, 1897b: 91–92: n. sp., 1♂, Type loc. (holotype): Malaysia, Borneo, Liantelan, Repository: MSNG (Gribodo). Current status: *Lipotriches (Maynenomia) gribodoi* (Vachal, 1897). Halictidae.
- gribodoi*** (as *Gribodoi*), *Prosopis* Vachal, 1895b: cccxxiii: n. sp., 1♂, Type loc. (holotype): Algeria, Biskra (leg. Gazagnaire). Current status: *Hylaeus gribodoi* (Vachal, 1895). Colletidae.
- guineensis***, *Sphecodes* Vachal, 1903a: 399–400: n. sp., 4♂, 2♀, Type loc.: Gabon, Libreville, 20.viii.1897; Ivory Coast, Assinie (leg. Alluaud; Bouysson), Repository: MNHN (de Gaulle (=general); Vachal). Current status: *Sphecodes guineensis* Vachal, 1903. Halictidae.
- gularis***, *Halictus* Vachal, 1904a: 481: n. sp., 2♂, Type loc.: USA, California, Repository: MNHN (Sichel). Current status: *Lasioglossum (Evyllaes) gularis* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- gutturosus***, *Halictus* Vachal, 1894: 439–440, 449: n. sp., 1♂, Type loc. (holotype): Myanmar, Bhamo, xi.1886 (leg. Fea). Current status: *Halictus gutturosus* Vachal, 1894. Note: Incertae sedis. Halictidae.
- haemorrhous*** (as *haemorrhous*), *Halictus* Vachal, 1904c: 143: n. sp., 1♀, Type loc. (holotype): Chile, Repository: MNHN (Vachal). Current status: *Corynura (Corynura) apicata* (Sichel, 1867). Note: [halicti intermedii-rhopali] ♂ possibly only after Spinola, 1851. Halictidae.
- haitiensis*** (as *Haitiensis*), *Halictus* Vachal, 1911: 48: n. sp., 1♀, Type loc. (holotype): Haiti, Repository: MNHN (Vachal). Current status: *Augochlora (Oxystoglossella) haitiensis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- harmandi*** (as *Harmandi*), *Halictus* Vachal, 1903c: 130: n. sp., 1♀, Type loc. (holotype): Japan (leg. Harmand). Current status: *Lasioglossum (Lasioglossum) harmandi* (Vachal, 1903). Halictidae.
- harrarensis*** (as *Harrarensis*), *Ceratina* Vachal, 1910c: 532: n. sp., 1♂, 1♀, Type loc.: Ethiopia, Harer, iii.1905 (leg. [Rothschild]). Current status: *Ceratina moerenhouti* Vachal, 1903. Apidae.
- harrarensis***, *Xylocopa flavorufa*, Vachal, 1922: 988: n. var., 3♂, 2♀, Type loc.: Ethiopia, Harer. Current status: *Xylocopa flavorufa harrarensis* Vachal, 1922. Apidae.
- hastula***, *Anthophora* Vachal, 1910c: 533: n. sp., 1♂, 1♀, Type loc.: Ethiopia, Ethiopie méridional, Tchafianani, viii.1905 (leg. [Rothschild]). Current status: *Anthophora hastula* (Vachal, 1910). Apidae.
- hecate***, *Megachile* Vachal, 1903a: 371–372: n. sp., 1♂, Type loc. (holotype): Tanzania, Tanganyika, Repository: MNHN (Vachal). Current status: *Megachile hecate* Vachal, 1903. Megachilidae.
- hemichrysis***, *Halictus* Vachal, 1903d: 132: n. sp., 2♀, Type loc.: Argentina, Tucumán, 14.i.1898, Repository: MNHN (Vachal). Current status: *Augochloropsis tupacamaru* (Holmberg, 1884). Note: [halicti hexagoni-vibrissati]. Halictidae.
- hemitomes***, *Halictus* Vachal, 1911: 42–43, 56: n. sp., ♀♀, Type loc.: Bolivia; Brazil, São Paulo; Colombia; Costa Rica; Mexico, Orizaba; Paraguay; Peru, Callanga (leg. Biart), Repository: MNHN (general; Vachal); ZMHB. Current status: *Augochlora (Oxystoglossella) morrae* Strand, 1910. Note: [halicti hexagoni-falcati]. Halictidae.
- herbsti*** (as *Herbsti*), *Lonchopria* Vachal, 1905b: 204: n. sp., n♂, n♀, Type loc.: Chile, probably nr. Concepción, xii.1903, i.1904 (leg. Herbst), Repository: MNHN. Current status: *Lonchopria zonalis* (Reed, 1892). Colletidae.
- hirpex***, *Anthophora* Vachal, 1904d: 16: n. sp., ♂♂, 5♀, Type loc.: Argentina, Buenos Aires, i.1900, 9.xii.1900; Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer; Girard), Repository: MNHN (Vachal). Current status: *Anthophora paranensis* Holmberg, 1903. Apidae.
- hoedillus***, *Halictus* Vachal, 1903a: 392: n. sp., 3♂, Type loc.: Gabon, N'Doro, x.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum hoedillum* (Vachal, 1903). Halictidae.
- hopilitis***, *Megachile* Vachal, 1903a: 371: n. sp., 1♂, Type loc. (holotype): Moçambique, B. Delagoa, Repository: MNHN (Vachal). Current status: *Megachile hopilitis* Vachal, 1903. Megachilidae.
- hotoni*** (as *Hotoni*), *Halictus* Vachal, 1903a: 389: n. sp., 1♀, Type loc. (holotype): Moçambique, B. Delagoa, Monteiro, Repository: RBINS. Current status: *Halictus (Seladonia) hotoni* (Vachal, 1903). Halictidae.
- humilis***, *Ancyloscelis* Vachal, 1904d: 19: n. sp., 1♂, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN. Current status: *Leptometriella humilis* (Vachal, 1904). Apidae.
- hyalinata***, *Crocisa* Vachal, 1903a: 381: n. sp., 2♂, Type loc.: Djibouti, Obock (leg. Fairmaire), Repository: RBINS. Current status: *Thyreus hyalinatus* (Vachal, 1903). Apidae.
- hypixis***, *Halictus* Vachal, 1904c: 126–127: n. sp., 1♀, Type loc. (holotype): Guyana, Repository: MNHN (Vachal). Current status: *Pereirapis semiaurata* (Spinola, 1853). Note: [halicti hexagoni-coarctati (sic!)]. Halictidae.
- haasi*** (as *Haasi*), *Halictus* Vachal, 1903a: 392: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Lukungu (leg. Haas), Repository: RBINS. Current status: *Halictus haasi* Vachal, 1903. Note: Incertae sedis. Halictidae.
- ichneuipterus***, *Sigalphus* Vachal, 1907c: 122–123: n. sp., n♂, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Phanerotoma (Phanerotoma) ichneuipterus* (Vachal, 1907). Braconidae.

- Ichneutipterus**, Vachal, 1907c: 123: n.genus. Current status: *Phanerotoma* Wesmael, 1838. Note: Type species: *Ichneutipterus primus* Vachal, 1907, monobasic. Ichneumonidae.
- icosi**, *Halictus* Vachal, 1904c: 120: n. sp., unknown sex, Type loc.: no locality, Repository: MNHN. Current status: *Neocorynura icosi* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- ictis**, *Allodape* Vachal, 1903a: 387: n. sp., 3♂, 10♀, Type loc.: D.R.Congo, Boma Sundi; Equatorial Guinea, Bata, viii-ix.1897, ix.1897; Equatorial Guinea, River Mouny, 1898; Gabon, Libreville, viii.1897; Gabon, N'Doro, x-xi.1898 (leg. Bouyssou; Rolin), Repository: RBINS; MNHN (Vachal). Current status: *Braunsapis facialis* (Gerstäcker, 1857). Apidae.
- ictis**, *Halictus* Vachal, 1911: 24: n. sp., 4♀, Type loc.: Argentina; Brazil; Brazil, Rio Grande do Sul, Repository: MNHN (general; Vachal). Current status: *Augochlorella ephyra* (Schrottky, 1910). Note: [halicti hexagoni-falcati]. Halictidae.
- igniventris**, *Halictus* Vachal, 1911: 55: n. sp., 1♂, Type loc. (holotype): Mexico, Orizaba, Repository: MNHN. Current status: *Augochlora* (*Augochlora*) *igniventris* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- illota**, *Nomia* Vachal, 1910a: 326–327: n. sp., 1♀, Type loc. (holotype): Zambia, Luena, i.1908 (leg. Neave), Repository: RMCA. Current status: *Lipotriches rufipes* (Smith, 1875). Halictidae.
- illustris**, *Halictus* Vachal, 1903d: 135: n. sp., 3♀, Type loc.: Brazil, Minas Gerais; Brazil, Rio de Janeiro; Venezuela, Repository: MNHN (Sichel; Vachal); NMW. Current status: *Augochloropsis illustris* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- immunitus**, *Halictus* Vachal, 1895a: 148: n. sp., 1♀, Type loc. (holotype): Spain, Sevilla, [Dos Hermanas], Repository: col. Medina (now MNCN). Current status: *Lasioglossum* (*Evyllaesus*) *immunitum* (Vachal, 1895). Halictidae.
- imperialis**, *Halictus* Vachal, 1903d: 130: n. sp., 1♀, Type loc. (holotype): Brazil, Rio Grande do Sul (leg. Stieglmayr), Repository: NMW. Current status: *Augochloropsis imperialis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- inermis**, *Halictus* Vachal, 1904c: 18, 22: n. sp., 6♂, 2♀, Type loc.: Mexico; Mexico, Orizaba, 1862 (leg. Biart; Bilimek), Repository: MNHN (Sichel); NMW. Current status: *Caenaugochlora* (*Caenaugochlora*) *inermis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- infecta**, *Megachile* Vachal, 1908b: 226: n. sp., 1♂, Type loc. (holotype): Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Megachile* (*Melanosarus*) *strenua* Smith, 1879. Megachilidae.
- infima**, *Megachile* Vachal, 1908b: 238–239: n. sp., 2♂, 2♀, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *infima* Vachal, 1908. Megachilidae.
- inflatus**, *Colletes* Vachal, 1909b: 49–50: n. sp., 1♂, 2♀, Type loc.: Bolivia, Mapiri; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Colletes petropolitanus* Dalla Torre, 1896. Colletidae.
- inquirenda**, *Orphana* Vachal, 1909b: 38: n. sp., 1♂, Type loc. (holotype): Chile, Repository: MNHN. Current status: *Orphana inquirenda* Vachal, 1909. Andrenidae.
- inquirenda**, *Xylocopa* (*Xylocopa*) Vachal, 1899d: 157: n. sp., n♂, Type loc.: Tanzania, Afrique Oriental Allemand (Deutsch Ost-Afrika, now Tanzania). Current status: *Xylocopa inquirenda* Vachal, 1899. Apidae.
- inquirendus**, *Pompilus* Vachal, 1907c: 117: n. sp., n♂, n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Anoplius opulentus* (Smith, 1860). Pompilidae.
- inquirendus**, *Pompilus* Vachal, 1907c: 117: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Anoplius elatus* (Smith, 1865). Pompilidae.
- insola**, *Xylocopa* (*Koptortosoma*) Vachal, 1910a: 321–322: n. sp., 23♀, Type loc.: D.R.Congo, Bunkeya, x.1907; D.R.Congo, Dikulwe to Kambove, viii.1907; D.R.Congo, Kambove to Lukafu, iv.1907; D.R.Congo, Kayombo to Dikulwe, vi.1907; D.R.Congo, Lukafu to Bunkeya, x.1907; D.R.Congo, Mfungwe to Kayombo; Zambia, Madona, xii.1907 (leg. Neave), Repository: RMCA. Current status: *Xylocopa insola* Vachal, 1910. Apidae.
- interjecta**, *Megachile* Vachal, 1909b: 6, 16: n. sp., 1♂, Type loc. (holotype): Argentina, Buenos Aires, 7.ii.1899, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *interjecta* Vachal, 1909. Megachilidae.
- interrupta**, *Allodape* Vachal, 1903a: 386: n. sp., 1♂, 3♀, Type loc.: Equatorial Guinea, Bata, ix.1897; Equatorial Guinea, River Mouny, 1898; Gabon, N'Doro, x-xi.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Allodape interrupta* Vachal, 1903. Apidae.
- interrupta**, *Crocisa* Vachal, 1903a: 382: n. sp., 4♂, 3♀, Type loc.: Equatorial Guinea, Bata, 25.ix.1897; Gabon, Samlia river falls; Ghana, Accra; Sierra Leone (leg. Bouyssou; Mocquerys), Repository: RBINS; MNHN (Vachal). Current status: *Thyreus interruptus* (Vachal, 1903). Apidae.
- intricatus**, *Halictus* Vachal, 1894: 433–434, 448: n. sp., 6♀, Type loc.: Myanmar, Palon, Pegu (leg. Fea). Current status: *Patellapis* (*Pachyhalictus*) *intricata* (Vachal, 1894). Halictidae.
- inversa**, *Eucera* Vachal, 1907a: 373–374: n. sp., 1♀, Type loc. (holotype): Algeria, Tiaret. Current status: *Eucera oblitterata* Pérez, 1896. Apidae.

- io** (as *Io*), *Xylocopa* (*Xylocopa*) Vachal, 1898: 94–95: n. sp., 3♀, Type loc.: Botswana, Lake Ngami; South Africa, Natal (leg. Castelnau; Lefèvre), Repository: MNHN (Sichel). Current status: *Xylocopa io* Vachal, 1898. Apidae.
- iodurus**, *Halictus* Vachal, 1903d: 123: n. sp., 2♂, Type loc.: Chile, Repository: MNHN (Sichel). Current status: *Caenohalictus iodurus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- iopodion**, *Halictus* Vachal, 1904c: 139: nom. nov.. Current status: *Neocorynura iodopion* (Vachal, 1904). Note: [halicti hexagoni-coarctati] replacement name for *Cacosoma agile* Smith, 1879, nec *Halictus agilis* Smith, 1879. Halictidae.
- ischnotes**, *Halictus* Vachal, 1911: 20: n. sp., 3♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Ceratalictus ischnotes* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- joannisi** (as *Joannisi*), *Halictus* Vachal, 1904c: 19–20, 24: n. sp., 3♂, 1♀, Type loc.: Ecuador, Pifo, 1898; USA, Iowa (leg. Joannis), Repository: MNHN; MSNG (Magretti). Current status: *Andinaugochlora joannisi* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- jubatus**, *Halictus* Vachal, 1904a: 474: n. sp., 1♀, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum jubatum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- jugalis**, *Halictus* Vachal, 1911: 17: n. sp., 3♀, Type loc.: Argentina, Tucumán; Peru, Huancabamba, 3000m, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *jugalis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- kamerunensis**, *Xylocopa* (*Xylocopa*) Vachal, 1899d: 159: n. sp., 1♂, Type loc. (holotype): Cameroon, Repository: MNHN (Vachal). Current status: *Xylocopa kamerunensis* Vachal, 1899. Apidae.
- kohliellus** (as *Kohliellus*), *Halictus* Vachal, 1903d: 91: n. sp., 1♀, Type loc. (holotype): "indéchiffrable" (unreadable), Repository: NMW. Current status: *Agapostemon* (*Notagapostemon*) *kohliellus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- labrosus**, *Halictus* Vachal, 1895a: 148: n. sp., 1♀, Type loc. (holotype): Spain, Sevilla, Repository: col. Medina. Current status: *Lasioglossum* (*Evylaeus*) *griseolum* (Morawitz, 1872). Halictidae.
- lacteipennis**, *Tetrapedia* Vachal, 1909b: 26–27: n. sp., 1♂, ♀♀, Type loc.: French Guiana [Nouveau Chantier]; Guyana; Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Paratetrapedia lineata* (Spinola, 1853). Apidae.
- lactinea**, *Nomia* Vachal, 1903a: 399: n. sp., 1♂, Type loc. (holotype): Djibouti, Obock (leg. Jousseume), Repository: MNHN. Current status: *Lipotriches lactinea* (Vachal, 1903). Halictidae.
- laetum** (as *laetum*), *Camptopoeum* (*Camptopoeum*) Vachal, 1909b: 43: n. sp., ♂♂, Type loc.: Argentina, Gran Chaco; Argentina, Santiago de Estero; Argentina, Tapenagá (leg. Wagner), Repository: MNHN. Current status: *Calliopsis* (*Ceroliopoeum*) *laeta* (Vachal, 1909). Andrenidae.
- laevinasis** (as *laevinasis*), *Megachile* Vachal, 1904d: 13: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN (Vachal). Current status: *Megachile* (*Austromegachile*) *laevinasis* Vachal, 1904. Megachilidae.
- lamnula**, *Megachile* Vachal, 1908b: 227, 243: n. sp., 1♂, Type loc. (holotype): Brazil, probably Goiás, Repository: MNHN (Vachal). Current status: *Megachile* (*Austromegachile*) *lamnula* Vachal, 1908. Megachilidae.
- lampter**, *Halictus* Vachal, 1904c: 126: n. sp., 2♀, Type loc.: Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura lampter* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- laneifrons**, *Halictus* Vachal, 1911: 56: n. sp., 2♂, Type loc.: Colombia; Colombia, Bogotá (leg. Lindig; Rhode), Repository: ZMHB. Current status: *Augochlora laneifrons* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- laneus**, *Halictus* Vachal, 1904a: 478–479: n. sp., 1♀, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Halictus laneus* Vachal, 1904. Note: [halicti genuini] Incertae sedis, possibly wrong locality label. Halictidae.
- languinea**, *Coelioxys* Vachal, 1903a: 376: n. sp., 1♀, Type loc. (holotype): Gabon, Repository: MNHN (Vachal). Current status: *Coelioxys apicata* Smith, 1854. Megachilidae.
- lanifer**, *Halictus* Vachal, 1904a: 486: n. sp., 1♂, Type loc. (holotype): no locality, Repository: NMW. Current status: *Halictus lanifer* Vachal, 1904. Note: [halicti genuini] Incertae sedis, possibly not from the New World. Halictidae.
- lasipion**, *Halictus* Vachal, 1904c: 126: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura lasipion* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- latifrons**, *Nomia* Vachal, 1903a: 397: n. sp., 1♀, Type loc. (holotype): Madagascar, Antongila, Repository: MNHN (Vachal). Current status: *Lipotriches betsilei* (Saussure, 1890). Halictidae.
- latitans**, *Halictus* Vachal, 1904c: 127: nom. nov.. Current status: *Chlerogas chlerogas* (Vachal, 1904). Note: [halicti hexagoni-coarctati] unnecessary replacement name for *Halictus chlerogas*. Halictidae.

- latula**, *Megachile* Vachal, 1908b: 224: n. sp., 2♀, Type loc.: Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile* (*Cressoniella*) *latula* Vachal, 1908. Megachilidae.
- leaena** (as *Leaena*), *Pasiphae* Vachal, 1909b: 38: n. sp., n♀, Type loc.: Brazil, Minas Gerais, 1000m (leg. Wagner), Repository: MNHN. Current status: *Perditomorpha leaena* (Vachal, 1909). Colletidae.
- lenticula**, *Megachile* Vachal, 1908b: 244: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile* (*Austromegachile*) *lenticula* Vachal, 1908. Megachilidae.
- lentifera**, *Megachile* Vachal, 1909b: 10: n. sp., 1♂, Type loc. (holotype): Brazil, Rio Grande do Sul, Repository: MNHN (Vachal). Current status: *Megachile* (*Acentron*) *lentifera* Vachal, 1909. Megachilidae.
- leoninus**, *Halictus* Vachal, 1903c: 130: n. sp., 4♂, 1♀, Type loc.: Japan (leg. Harmand). Current status: *Lasioglossum* (*Evylaeus*) *duplex* (Dalla Torre, 1896). Halictidae.
- leontodes**, *Halictus* Vachal, 1904c: 10: n. sp., 1♂, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Augochloropsis leontodes* (Vachal, 1904). Note: [halicti hexagoni-vibrissati]. Halictidae.
- lepidodes**, *Halictus* Vachal, 1904c: 119: n. sp., 2♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura lepidodes* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- leptis**, *Halictus* Vachal, 1911: 20: n. sp., 3♀, Type loc.: Ecuador, Balsapampa; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *leptis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- leptozonia**, *Allodape* Vachal, 1910c: 532–533: n. sp., 1♀, Type loc. (holotype): Kenya, Lumbwa, ix.1906 (leg. [Rothschild]). Current status: *Braunsapis leptozonia* (Vachal, 1910). Apidae.
- leunculus**, *Halictus* Vachal, 1903d: 92, 102–103: n. sp., 17♂, 16♀, Type loc.: Mexico; Mexico, Córdoba; Mexico, Orizaba, 1862; Mexico, W coast, 1864 (leg. Biart; Bilimek), Repository: MNHN (Sichel); NMW. Current status: *Agapostemon* (*Notagapostemon*) *leunculus* (Vachal, 1903). Note: [halicti intermedi]. Halictidae.
- levidorsis**, *Halictus* Vachal, 1903d: 127: n. sp., 6♀, Type loc.: Brazil; Uruguay, Montevideo (leg. Winthem), Repository: MNHN (Sichel); NMW. Current status: *Augochloropsis acidalia* (Smith, 1879). Note: [halicti hexagoni-vibrissati]. Halictidae.
- levilimba**, *Megachile* Vachal, 1908b: 241: n. sp., 1♀, Type loc. (holotype): Brazil, probably Goiás, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *levilimba* Vachal, 1908. Megachilidae.
- levinasis**, *Halictus* Vachal, 1911: 107: n. sp., unknown sex [n♂], Type loc.: [USA, NJ, Squirrel Island, Westfield] (leg. [Danforth]), Repository: ZMHB. Current status: *Augochlorella aurata* (Smith, 1853). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- liapsis**, *Halictus* Vachal, 1911: 23: n. sp., 1♀, Type loc. (holotype): Mexico (leg. Deppe), Repository: ZMHB. Current status: *Augochlora* (*Augochlora*) *liapsis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- ligata**, *Nomia* Vachal, 1903a: 397: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Boma (leg. Tschoffen), Repository: RBINS. Current status: *Lipotriches ligata* (Vachal, 1903). Halictidae.
- lignys**, *Halictus* Vachal, 1904c: 120: n. sp., 9♀, Type loc.: Mexico; Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN (Sichel). Current status: *Neocorynura lignys* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- limata**, *Megachile* Vachal, 1908b: 226: n. sp., 2♀, Type loc.: French Guiana, [Cayenne]; Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Megachile* (*Austromegachile*) *limata* Vachal, 1908. Megachilidae.
- limbella**, *Apista* Vachal, 1909b: 37: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata [not Bolivia, Mapiri], Repository: MNHN (Vachal). Current status: *Eulonchopria limbella* (Vachal, 1909). Colletidae.
- linctus**, *Halictus* Vachal, 1904a: 473: n. sp., 1♀, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum* (*Evylaeus*) *linctus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- lindigi** (as *Lindigi*), *Halictus* Vachal, 1911: 14–15: n. sp., 1♀, Type loc. (holotype): Colombia, Bogotá (leg. Lindig), Repository: ZMHB. Current status: *Caenohalictus lindigi* (Vachal, 1911). Note: [halicti hexagoni-falcati (sic!)] Halictidae.
- linearis**, *Macrocera* Vachal, 1904d: 20: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Tapia, 600m, iii-iv.1903 (leg. Baer), Repository: MNHN. Current status: *Melissoptila tandilensis* Holmberg, 1884. Apidae.
- lineola**, *Ceratina* Vachal, 1903a: 385: n. sp., 2♂, 1♀, Type loc.: Moçambique, B. Delagoa, Monteiro, Repository: RBINS. Current status: *Ceratina lineola* Vachal, 1903. Apidae.
- lingulata**, *Megachile* Vachal, 1908b: 230: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *lingulata* Vachal, 1908. Megachilidae.
- liodomus**, *Halictus* Vachal, 1894: 435–436, 448: n. sp., 4♀, Type loc.: Myanmar, Bhamo; Myanmar, Carin Chebà (leg. Fea). Current status: *Patellapis* (*Pachyhalictus*) *liodoma* (Vachal, 1894). Halictidae.
- liogonia**, *Prosopis* Vachal, 1899a: 537: n. sp., 1♀, Type loc. (holotype): Australia, Repository: MNHN (Sichel). Current status: *Hylaeus liogonius* (Vachal, 1899). Colletidae.

- liotribes**, *Halictus* Vachal, 1911: 15: n. sp., 1♀, Type loc. (holotype): Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *pyrgo* (Schrottky, 1910). Note: [halicti hexagoni-falcati]. Halictidae.
- loculosus**, *Cremastus* Vachal, 1907c: 121: n. sp., n♂, n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Eriborus loculosus* (Vachal, 1907). Ichneumonidae.
- Lonchopria**, Vachal, 1905b: 204: n.genus. Current status: *Lonchopria* Vachal, 1905. Note: Type species: *Lonchopria herbsti* Vachal, 1905, monobasic. Colletidae.
- longipes**, *Tetrapedia* Vachal, 1909b: 31: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Tetrapedia longipes* Vachal, 1909. Apidae.
- loosi** (as *Loosi*), *Megachile* Vachal, 1903a: 366–367: n. sp., 5♂, 11♀, Type loc.: D.R.Congo, Popokabaka; Equatorial Guinea, Bata, ix.1897; Gabon, Samlia river falls; Sierra Leone, vi (leg. Bouyssou; Loos; Mocquerys), Repository: RBINS; MNHN (Vachal). Current status: *Megachile eurymera* Smith, 1854. Megachilidae.
- lucens**, *Colletes* Vachal, 1909b: 57–58: n. sp., n♂, n♀, Type loc.: Chile, Concepción, Repository: MNHN (Vachal). Current status: *Colletes lucens* Vachal, 1909. Colletidae.
- lucens**, *Nomia* Vachal, 1897b: 87: n. sp., 1♀, Type loc. (holotype): Ethiopia, Abyssinie, Repository: MNHN (Sichel). Current status: *Pseudapis armata* (Olivier, 1812). Halictidae.
- lucidiusculus**, *Halictus* Vachal, 1894: 441, 449: n. sp., 1♂, 1♀, Type loc.: Myanmar, Carin Chebà (leg. Fea). Current status: *Halictus lucidiusculus* Vachal, 1894. Note: Incertae sedis. Halictidae.
- lucidula**, *Nomia* Vachal, 1910a: 327: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Ruwe to Kambove, iv.1907 (leg. Neave), Repository: RMCA. Current status: *Lipotriches lucidula* (Vachal, 1910). Halictidae.
- lumbella**, *Prosopis* Vachal, 1910d: 65: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus lumbellus* (Vachal, 1910). Colletidae.
- lunaris**, *Sphecodes* Vachal, 1904d: 26: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Repository: MNHN. Current status: *Sphecodes lunaris* Vachal, 1904. Halictidae.
- luridiceps**, *Exothecus* Vachal, 1908a: 25–26: n. sp., 1♀, Type loc. (holotype): Nouvelle Calédonie, Canala (leg. Fleutiaux). Current status: *Colastes* (*Colastes*) *luridiceps* (Vachal, 1908). Braconidae.
- luridipes**, *Halictus* Vachal, 1892a: cxxxvi–cxxxvi: n. sp., n♀ (mas perquirendus), Type loc.: Sudan, Suakin (leg. Magretti), Repository: MSNG (Magretti). Current status: *Lasioglossum luridipes* (Vachal, 1892). Halictidae.
- lychnis**, *Prosopis* Vachal, 1910d: 68: n. sp., 1♀, Type loc. (holotype): Guyana, Repository: MNHN. Current status: *Hylaeus lychnis* (Vachal, 1910). Colletidae.
- macellus**, *Halictus* Vachal, 1903d: 98: n. sp., 1♀, Type loc. (holotype): Peru, Cusco (leg. Gay), Repository: MNHN. Current status: *Caenohalictus macellus* (Vachal, 1903). Note: [halicti intermedi]. Halictidae.
- macrognatus**, *Eriades* Vachal, 1910c: 530: n. sp., 1♂, Type loc. (holotype): Kenya, Nairobi, viii.1906 (leg. [Rothschild]). Current status: *Heriades macrognatus* (Vachal, 1910). Megachilidae.
- maculosa**, *Xylocopa* (*Xylocopa*) Vachal, 1898: 95–96: n. sp., 5♀, Type loc.: South Africa, Cafrerie (Cape Province), Repository: MNHN (Sichel). Current status: *Xylocopa rufitarsis* Lepeletier, 1841. Apidae.
- magrettii** (as *Magrettii*), *Halictus* Vachal, 1892a: cxxxvii–cxxxvii: n. sp., n♀ (mas latet), Type loc.: Sudan, Suakin (leg. Magretti), Repository: MSNG (Magretti). Current status: *Halictus* (*Seladonia*) *lucidipennis* (Smith, 1853). Halictidae.
- magrettii** (as *Magrettii*), *Prosopis* Vachal, 1892a: cxxxv–cxxxvi: n. sp., n♀ (mas latet), Type loc.: Eritrea, Keren, 26.iv.1883 (leg. Magretti), Repository: MSNG (Magretti). Current status: *Hylaeus magrettii* (Vachal, 1892). Colletidae.
- mallotes**, *Halictus* Vachal, 1911: 43, 50: n. sp., 2♂, 4♀, Type loc.: Argentina-Brazil, Paraná; Brazil (leg. Sellow), Repository: MNHN (Vachal); ZMHB. Current status: *Paroxystoglossa jocasta* (Schrottky, 1910). Note: [halicti hexagoni-falcati]. Halictidae.
- Manuelia**, Vachal, 1905a: 25: n.genus. Current status: *Manuelia* Vachal, 1905. Note: Type species: *Halictus gayi* Spinola, 1851, by designation of Daly, Michener, Moure, and Sakagami, 1987. Apidae.
- marchali** (as *Marchali*), *Halictus* Vachal, 1891: 65–66: n. sp., n♂, Type loc.: France, Le Creusot (leg. Marchal), Repository: col. Marchal. Current status: *Halictus* (*Monilapis*) *simplex* Blüthgen 1923. Halictidae.
- marcida**, *Megachile* Vachal, 1908b: 229–230: n. sp., 1♂, 2♀, Type loc.: Argentina, Buenos Aires; Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *guaranitica* Schrottky, 1908. Megachilidae.
- marginans**, *Halictus* Vachal, 1904c: 120–121: n. sp., 2♀, Type loc.: Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura marginans* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- maritanda**, *Megachile* Vachal, 1903a: 366: n. sp., 24♂, Type loc.: Gabon, N'Doro, x-xi.1898; Gabon, Samlia river falls (leg. Bouyssou; Mocquerys), Repository: RBINS; MNHN (Vachal). Current status: *Megachile accraensis* Friese, 1903. Megachilidae.

- martini*** (as *Martini*), *Euaspid* Vachal, 1910a: 317: n. sp., 1♀, Type loc. (holotype): South Africa, Natal (leg. Martin). Current status: *Euaspid abdominalis martini* Vachal, 1910. Megachilidae.
- martini*** (as *Martini*), *Meria* Vachal, 1899a: 538: n. sp., 1♂, 1♀, Type loc.: Algeria, Mesrane; Algeria, Oumache (Sud-Algérien) (leg. Martin). Current status: *Meria martini* Vachal, 1899. Note: Incertae sedis. Tiphidae.
- martini*** (as *Martini*), *Nomia* Vachal, 1903a: 396: n. sp., 1♂, Type loc. (holotype): South Africa, Natal (leg. Martin). Current status: *Lipotriches fulvohirta* (Smith, 1875). Halictidae.
- maurusia*** (as *Maurusia*), *Megachile* (*Chalicodoma*) Vachal, 1910b: 177: n. sp., n♂, n♀, Type loc.: Morocco, Mogador (Essaouira). Current status: *Megachile* (*Katamegachile*) *rufitarsis maurusia* Vachal, 1910. Megachilidae.
- media***, *Xylocopa* Vachal, 1910c: 531: n. sp., 2♀, Type loc.: Kenya, Lumbwa, ix.1906 (leg. [Rothschild]). Current status: *Xylocopa senior media* Vachal, 1910. Apidae.
- medinai*** (as *Medinai*), *Halictus* Vachal, 1895a: 148–150: n. sp., 1♂, Type loc. (holotype): Spain, Sevilla (leg. Medina), Repository: col. Medina. Current status: *Lasioglossum* (*Dialictus*) *villosulum* (Kirby, 1802). Halictidae.
- melanoprocta***, *Nomia* Vachal, 1903a: 396–397: n. sp., 1♀, Type loc. (holotype): Sierra Leone (leg. Mocquerys), Repository: RBINS. Current status: *Lipotriches rufipes* (Smith, 1875). Halictidae.
- meles***, *Megachile* Vachal, 1903a: 371: n. sp., 3♀, Type loc.: Moçambique, B. Delagoa, Monteiro; Tanzania, Afrique Oriental Allemand (Deutsch Ost-Afrika, now Tanzania), Repository: RBINS; MNHN (Vachal). Current status: *Megachile mossambica* Gribodo, 1895. Megachilidae.
- Melitomatae***, Vachal, 1909a: 7: family-group name., Apidae.
- merceti*** (as *Merceti*), *Dufourea* (*Halictoides*) Vachal, 1907b: 362: n. sp., 2♂, Type loc.: Spain, Madrid (leg. Mercet), Repository: col. Mercet (possibly now MNCN but none with type label). Current status: *Dufourea merceti* Vachal, 1907. Halictidae.
- merceti*** (as *Merceti*), *Panurgus* Vachal, 1910b: 179–180: n. sp., 3♂, Type loc.: Spain, Madrid, Montarco, 17.v.1908. Current status: *Flavipanurgus merceti* (Vachal, 1910). Andrenidae.
- mercetiana*** (as *Mercetiana*), *Anthophora* Vachal, 1910b: 176–177: n. sp., 2♀, Type loc.: Morocco, Casablanca. Current status: *Anthophora holoxantha* Pérez, 1895. Apidae.
- meripes***, *Crocisa* Vachal, 1903a: 380–381: n. sp., 1♂, 4♀, Type loc.: D.R.Congo, Kinschassa; D.R.Congo, Lukungu; Equatorial Guinea, River Mouny, 1898; Gabon, Samlia river falls (leg. Bouysson; Haas; Mocquerys; Waelbrock), Repository: RBINS. Current status: *Thyreus meripes* (Vachal, 1903). Apidae.
- mesomelas***, *Halictus* Vachal, 1904c: 20: n. sp., 1♀, Type loc. (holotype): Peru, La Merced, Repository: MSNG (Magretti). Current status: *Augochloropsis mesomelas* (Vachal, 1904). Note: [halicti hexagoni-sericei (sic!)]]. Halictidae.
- michaelis*** (as *Michaelis*), *Halictus* Vachal, 1911: 48–49: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Catarina (leg. Michaelis), Repository: ZMHB. Current status: *Augochlora* (*Augochlora*) *michaelis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- minor***, *Megachile* Vachal, 1908b: 236: n. sp., 2♀, Type loc.: Bolivia, Mapiri; Ecuador, Baños, Repository: MNHN (Vachal). Current status: *Megachile* (*Cressoniella*) *minor* Vachal, 1908. Megachilidae.
- miranda***, *Coelioxys* Vachal, 1904d: 15: n. sp., 1♀, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Coelioxys miranda* Vachal, 1904. Megachilidae.
- mitratus***, *Halictus* Vachal, 1903d: 99: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Caenohalictus mitratus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- mixtiscapis***, *Halictus* Vachal, 1903a: 393: n. sp., 1♀, Type loc. (holotype): Peru, Chanchamayo, Repository: MNHN (Vachal). Current status: *Halictus mixtiscapis* Vachal, 1903. Note: Incertae sedis, possibly wrong locality label. Halictidae.
- modestum***, *Camptopoeum* (*Camptopoeum*) Vachal, 1909b: 42: n. sp., ♀♀, Type loc.: Argentina, Gran Chaco; Argentina, Santiago de Estero, Río Salado; Argentina, Tapenagá (leg. Wagner), Repository: MNHN. Current status: *Calliopsis* (*Ceroliopoeum*) *laeta* (Vachal, 1909). Andrenidae.
- moerenhouti*** (as *Moerenhouti*), *Ceratina* Vachal, 1903a: 384: n. sp., 3♀, Type loc.: D.R.Congo, Vista; Gabon, N'Doro, x-xi.1898 (leg. Bouysson; Moerenhout), Repository: RBINS; MNHN (Vachal). Current status: *Ceratina moerenhouti* Vachal, 1903. Apidae.
- moerens*** (as *mærens*), *Pasiphae* Vachal, 1909b: 39: n. sp., 1♀, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Pygopasiphae wagneri* (Vachal, 1909). Colletidae.
- montensis***, *Halictus* Vachal, 1903d: 133: n. sp., 1♀, Type loc. (holotype): Bolivia, Santa Cruz, 1834 (leg. Orbigny), Repository: MNHN. Current status: *Augochloropsis montensis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- morawitzi***, *Halictus* Vachal, 1902: 229–230: n. sp., 1♀, Type loc. (holotype): Turkmenistan, Transcaspie, Repository: ISZP (Radoszkowski). Current status: *Halictus* (*Seladonia*) *morawitzi* Vachal, 1902. Halictidae.

- mossambicus**, *Halictus* Vachal, 1897("1895"): 84–85: n. sp., 1♀, Type loc. (holotype): Moçambique, Howick (leg. Fornasini), Repository: MSNG or MZUB. Current status: *Halictus mossambicus* Vachal, 1897. Note: Incertae sedis. The description is communicated by and clearly provided by Vachal, not Gribodo. Halictidae.
- multiplex**, *Halictus* Vachal, 1903d: 126: n. sp., ♀♀, Type loc.: Argentina, Tucumán, 15.i; Brazil; Brazil, Rio Grande do Sul; Paraguay?, "Villaricca" (leg. Beské; Jordan; Schott; Stieglmayr; Winthem), Repository: MNHN (Sichel; Vachal); NMW. Current status: *Augochloropsis multiplex* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- muoti** (as *Muoti*), *Dufourea* (*Trilia*) Vachal, 1899a: 534: n. sp., 17♂, 3♀, Type loc.: Algeria, Ghardaïa (leg. Muot). Current status: *Dufourea muoti* Vachal, 1899. Halictidae.
- muscaria**, *Megachile* Vachal, 1903a: 367–368: n. sp., 7♂, Type loc.: Gabon, N'Doro, x-xi.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Megachile curtula* Gerstäcker, 1857. Megachilidae.
- mustela**, *Prosopis* or *Allodape* [sic!] Vachal, 1894: 446–447: n. sp., 1♀, Type loc. (holotype): Myanmar, Carin Chebà (leg. Fea). Current status: *Hylaeus mustelus* (Vachal, 1894). Colletidae.
- mutilus**, *Halictus* Vachal, 1903c: 129: n. sp., n♀, Type loc.: Japan (leg. Harmand). Current status: *Lasioglossum* (*Lasioglossum*) *mutilus* (Vachal, 1903). Halictidae.
- myrrhites**, *Halictus* Vachal, 1911: 18: n. sp., 1♀, Type loc. (holotype): Colombia, Bogotá (leg. Lindig), Repository: ZMHB. Current status: *Pereirapis myrrhites* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- nasuta**, *Prosopis* Vachal, 1910d: 67: n. sp., 2♀, Type loc.: Guyana, Repository: MNHN. Current status: *Hylaeus nasutus* (Vachal, 1910). Colletidae.
- natalensis**, *Xylocopa* (*Xylocopa*) Vachal, 1899d: 97: n. sp., 3♀, Type loc.: Kenya, Afrique Oriental Anglaise, Taweta; South Africa, Natal; South Africa, Natal, Cradock (leg. Martin), Repository: MNHN (Sichel). Current status: *Xylocopa hottentotta* Smith, 1854. Apidae.
- nean**, *Halictus* Vachal, 1904c: 126: n. sp., 4♀, Type loc.: Peru, Callanga; Peru, Marcapata; Peru, Vilcanota, Repository: MNHN (Vachal). Current status: *Neocorynura nean* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- nearcticus**, *Halictus* Vachal, 1904a: 470–471: n. sp., ♂♂, ♀♀, Type loc.: Canada, British Columbia; USA; USA, Georgia; USA, Illinois; USA, New York; USA, Pennsylvania (leg. Castelnau; Titus), Repository: MNHN (general; Vachal); NMW. Current status: *Halictus* (*Seladonia*) *confusus confusus* Smith, 1853. Note: [halicti genuini]. Halictidae.
- neavei** (as *Neavei*), *Allodape* Vachal, 1910a: 323: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Braunsapis neavei* (Vachal, 1910). Apidae.
- neavei** (as *Neavei*), *Anthidium* Vachal, 1910a: 314–315: n. sp., 3♂, 1♀, Type loc.: D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Pseudoanthidium truncatum livingstonei* (Cockerell, 1936). Megachilidae.
- neavei** (as *Neavei*), *Anthophora* Vachal, 1910a: 323–324: n. sp., 1♀, Type loc. (holotype): Zambia, Madona to Bangweulu, xii.1907 (leg. Neave), Repository: RMCA. Current status: *Anthophora neavei* Vachal, 1910. Apidae.
- neavei** (as *Neavei*), *Coelioxys* Vachal, 1910a: 315–316: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Bunkeya to Lukafu, x.1907 (leg. Neave), Repository: RMCA. Current status: *Coelioxys subdentata* Smith, 1854. Megachilidae.
- neavei** (as *Neavei*), *Macrocera* Vachal, 1910a: 325: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Kayombo to Dikulwe, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Tetralonia macrognatha* (Gerstäcker, 1870). Apidae.
- neavei** (as *Neavei*), *Megachile* Vachal, 1910a: 309–310: n. sp., 1♂, 2♀, Type loc.: D.R.Congo, Bunkeya; D.R.Congo, Bunkeya to Kambove, ix.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile neavei* Vachal, 1910. Megachilidae.
- neottis**, *Halictus* Vachal, 1911: 16–17: n. sp., 1♀, Type loc. (holotype): Honduras, Repository: MSNG (Magretti). Current status: *Augochlora* (*Oxystoglossella*) *neottis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- neutra**, *Megachile* Vachal, 1908b: 237: n. sp., 1♀, Type loc. (holotype): Argentina, Repository: MNHN (Vachal). Current status: *Megachile* (*Pseudocentron*) *neutra* Vachal, 1908. Megachilidae.
- nictans**, *Halictus* Vachal, 1904c: 119: n. sp., 4♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura nictans* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- nigella**, *Megachile* Vachal, 1908b: 223–224: n. sp., 1♀, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *nigella* Vachal, 1908. Megachilidae.
- niger**, *Omphalius* Vachal, 1899a: 535: n. sp., 1♂, Type loc. (holotype): Equatorial Guinea, Bata, 7.ix.1897 (leg. Bouyssou). Current status: *Stizoides niger* (Radoszkowski, 1881). Sphecidae.
- nigribarbis**, *Megachile* Vachal, 1909b: 6, 16: n. sp., 1♂, Type loc. (holotype): Brazil, Matto Grosso, Repository: MNHN (Vachal). Current status: *Megachile* (*Zonomegachile*) *nigribarbis* Vachal, 1909. Megachilidae.

- nigricallis**, *Halictus* Vachal, 1904a: 480–481: n. sp., 1♂, Type loc. (holotype): USA, Colorado [labeled Nevada, i.1880] (leg. Morrison), Repository: NMW. Current status: *Lasioglossum (Evyllaes) nigricallis* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- nigricans**, *Xylocopa (Koptortosoma)* Vachal, 1910a: 322–323: n. sp., 3♂, Type loc.: D.R.Congo, Bunkeya, x.1907; D.R.Congo, Kambove, xii.1907; D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Xylocopa nigricans* Vachal, 1910. Apidae.
- nigricollis**, *Allodape* Vachal, 1903a: 387: n. sp., 3♀, Type loc.: D.R.Congo, Vista; Equatorial Guinea, River Mouny, 1898; Gabon, Lastoursville, viii-ix.1898 (leg. Bouyssou; Moerenhout). Current status: *Braunsapis foveata* (Smith, 1854). Apidae.
- nigricollis**, *Macrocera buccosa*, Vachal, 1904d: 20–21: n. var., 1♀, Type loc. (holotype): Argentina, Tucumán, Lules, 10+16.ii.1900 (leg. Girard), Repository: MNHN. Current status: *Thygater (Thygater) analis* (Lepeletier, 1841). Apidae.
- nigricutis**, *Melitoma (Ancyloscelis) chilensis*, Vachal, 1909b: 23: n. var., 1♂, Type loc. (holotype): Chile, Repository: MNHN. Current status: *Diadasia distinguenda* (Spinola, 1851). Apidae.
- nigridens**, *Halictus* Vachal, 1904a: 480: n. sp., 1♂, Type loc. (holotype): USA, California, Repository: MNHN (Sichel). Current status: *Lasioglossum (Evyllaes) nigridens* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- nigridorsis**, *Megachile* Vachal, 1908b: 243: n. sp., 1♂, Type loc. (holotype): French Guiana, [Pariacabo] (leg. Le Moul), Repository: MNHN (Vachal). Current status: *Megachile (Melanosarus) brasiliensis* Dalla Torre, 1896. Megachilidae.
- nigrifacies**, *Megachile* Vachal, 1910a: 308–309: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile sinuata sinuata* (Friese, 1903). Megachilidae.
- nigrinasis**, *Psaenythia (Psaenythia)* Vachal, 1909b: 41: n. sp., n♂, Type loc.: Argentina, Santiago de Estero (leg. Wagner), Repository: MNHN. Current status: *Psaenythia nigrinasis* Vachal, 1909. Note: Incertae sedis. Andrenidae.
- nigripennis**, *Prosopis* Vachal, 1909b: 59: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus nigripennis* (Vachal, 1909). Colletidae.
- nigripes**, *Coelioxys* Vachal, 1903a: 376: n. sp., 1♀, Type loc. (holotype): Gabon, Repository: MNHN (Vachal). Current status: *Coelioxys nigripes* Vachal, 1903. Megachilidae.
- nigripollex**, *Megachile* Vachal, 1910a: 311: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Bunkeya, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile nigripollex* Vachal, 1910. Megachilidae.
- nigriscopsis**, *Halictus* Vachal, 1903d: 127: n. sp., 3♀, Type loc.: Mexico, [Orizaba], Repository: MNHN; NMW. Current status: *Augochloropsis vesta* (Smith, 1853). Note: [halicti hexagoni-vibrissati]. Halictidae.
- nigrispinis**, *Tetrapedia* Vachal, 1909b: 30: n. sp., 3♀, Type loc.: Argentina, Tucumán, [Lules]; Peru, Marcapata (leg. Girard), Repository: MNHN. Current status: *Lophopedia nigrispinis* (Vachal, 1909). Apidae.
- nigritarse**, *Camptopoeum (Acamptopoeum)* Vachal, 1909b: 45: n. sp., 1♂, Type loc. (holotype): Peru, 3000m, Repository: MNHN (Vachal). Current status: *Acamptopoeum nigritarse* (Vachal, 1909). Andrenidae.
- nitidicollis**, *Halictus* Vachal, 1903d: 126: n. sp., 3♀, Type loc.: Peru, La Merced; Peru, Marcapata, Repository: MNHN (Vachal); MSNG (Magretti). Current status: *Augochloropsis nitidicollis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- nivosa**, *Lonchopria* Vachal, 1909b: 36: n. sp., n♀, Type loc.: Argentina, Tucumán, Repository: MNHN (Vachal). Current status: *Aeganopria nivosa* (Vachal, 1909). Colletidae.
- norops**, *Halictus* Vachal, 1904c: 137: n. sp., 2♀, Type loc.: Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Neocorynura norops* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- nossax**, *Halictus* Vachal, 1904c: 128: n. sp., 4♀, Type loc.: Peru, Callanga; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura nossax* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- notares**, *Halictus (Augochlora)* Vachal, 1904b: 314: n. sp., 1♀, Type loc. (holotype): Ecuador, Riobamba (leg. Rivet), Repository: MNHN. Current status: *Caenohalictus notares* (Vachal, 1904). Note: [halicti intermedii]. Halictidae.
- notialis**, *Halictus* Vachal, 1904c: 24: n. sp., 1♂, Type loc. (holotype): Chile (leg. Gay), Repository: MNHN. Current status: *Augochlora (Augochlora) notialis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- Notiopimpla**, Vachal, 1907c: 118: n.genus. Current status: *Lissopimpla* Kriechbaumer, 1889. Note: Type species: *Notiopimpla priocnemidea* Vachal, 1907, by designation of Viereck, 1914. Ichneumonidae.
- notophos**, *Halictus* Vachal, 1903d: 136: n. sp., 32♀, Type loc.: Bolivia; Brazil; Brazil, Bahia; Brazil, Ipanema; Brazil, Rio Grande do Sul; Brazil, São Paulo; Guyana; Peru, Callanga; Peru, Marcapata (leg. Natterer; Stieglmayr; Winthem), Repository: MNHN (general; Vachal); NMW. Current status: *Augochloropsis notophos* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.

notoplex, *Halictus* Vachal, 1904c: 123: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura notoplex* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.

nubila, *Megachile* Vachal, 1904d: 14: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN (Vachal). Current status: *Megachile (Neochelynia) nubila* Vachal, 1904. Megachilidae.

nudulus, *Halictus* Vachal, 1903a: 390: n. sp., ♂♂, ♀♀, Type loc.: Gabon, Lastoursville, viii-ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum nudulum* (Vachal, 1903). Halictidae.

nycteris, *Halictus* Vachal, 1904c: 119: n. sp., 8♀, Type loc.: Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Eickwortia nycteris* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.

oblita, *Megachile* Vachal, 1908b: 232–233: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile (Ptilosarus) oblita* Vachal, 1908. Megachilidae.

obnuptus, *Halictus* Vachal, 1903d: 97–98, 122: n. sp., 1♂, 2♀, Type loc.: Peru, Callanga; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Caenohalictus obnuptus* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.

obscurigaster, *Camptopoeum (Camptopoeum)* Vachal, 1909b: 43: n. sp., ♂♂, Type loc.: Argentina, Santiago de Estero; Argentina, Santiago de Estero, Laguna Mamaita; Argentina, Santiago de Estero, Río Salado (leg. Wagner), Repository: MNHN. Current status: *Cephalurgus obscurigaster* (Vachal, 1909). Andrenidae.

obscurior, *Halictus esox*, Vachal, 1911: 19: n. var., n♀, Type loc.: Mexico, Repository: MNHN. Current status: *Augochlora (Augochlora) obscurior* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.

obtusa, *Tetrapedia* Vachal, 1909b: 27: n. sp., multiple, unknown sex, Type loc.: Bolivia; French Guiana, Cayenne; French Guiana, [Kourou] (leg. [Le Moul]). Current status: *Paratetrapedia testacea* (Smith, 1854). Apidae.

occultus, *Halictus* Vachal, 1904a: 478: n. sp., 2♀, Type loc.: USA, Washington, Easton, Repository: NMW. Current status: *Lasioglossum (Evyllaeus) occultus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.

ochrias, *Halictus* Vachal, 1904c: 115: n. sp., 1♂, Type loc. (holotype): Brazil, Goiás, Jataí, Repository: MNHN (Vachal). Current status: *Megalopta ochrias* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.

ochromerus, *Halictus* Vachal, 1904a: 471: n. sp., 1♀, Type loc. (holotype): Brazil (leg. Schott), Repository: NMW. Current status: *Pseudagapostemon (Pseudagapostemon) ochromerus* (Vachal, 1904). Note: [halicti genuini (sic!)] Halictidae.

oedesis, *Halictus* Vachal, 1911: 49: n. sp., 1♀, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Augochlora (Augochlora) oedesis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.

ogouensis, *Melipona (Trigona)* Vachal, 1903a: 359: n. sp., 2w♀, Type loc.: Gabon, N'Doro, x-xi.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Meliponula ogouensis* (Vachal, 1903). Apidae.

Omphalius, Vachal, 1899a: 534–535: n.genus. Current status: *Stizoides* Guérin-Ménéville, 1844. Note: Type species: *Omphalius niger* Vachal, 1900, monobasic. Sphecidae.

ophioninus, *Meteorus* Vachal, 1907c: 122: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Homolobus (Apatia) ophioninus* (Vachal, 1907). Braconidae.

orbica, *Prosopis* Vachal, 1910d: 69: n. sp., n♂, Type loc.: [Guyana], Repository: MNHN. Current status: *Hylaeus (Gongyloprosopis) orbica* (Vachal, 1910). Colletidae.

orcina, *Megachile* Vachal, 1908b: 223: n. sp., 1♀, Type loc. (holotype): Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile (Cressoniella) orcina* Vachal, 1908. Megachilidae.

orientalis, *Chilicola* Vachal, 1904d: 24: n. sp., 2♂?, Type loc.: Argentina, Tucumán, Ingenio Santa Ana, 350m, xi.1902 (leg. Baer), Repository: MNHN. Current status: *Bicolletes orientalis* (Vachal, 1904). Colletidae.

oriundus, *Sphecodes* Vachal, 1903c: 131: n. sp., 1♂, Type loc. (holotype): Japan (leg. Harmand). Current status: *Sphecodes oriundus* Vachal, 1903. Halictidae.

Orphana, Vachal, 1909b: 35: n.genus. Current status: *Orphana* Vachal, 1909. Note: Type species: *Orphana inquirenda* Vachal, 1909, monobasic. Andrenidae.

pachytes, *Halictus* Vachal, 1911: 21: n. sp., ♀♀, Type loc.: Bolivia, Mapiri; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) pachytes* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.

padiola, *Anthophora* Vachal, 1910c: 533: n. sp., 2♂, Type loc.: Kenya, Nairobi; Kenya, S of Lake Rudolph (Turkana lake), vii (leg. [Rothschild]). Current status: *Anthophora padiola* Vachal, 1910. Apidae.

paean (as *Pæan*), *Halictus* Vachal, 1903d: 125: n. sp., 2♀, Type loc.: Brazil, Goiás, Repository: MNHN. Current status: *Augochloropsis smithiana* (Cockerell, 1900). Note: [halicti hexagoni-vibrissati]. Halictidae.

pallefacta, *Megachile* Vachal, 1909b: 6: n. sp., 2♂, Type loc.: Argentina, Buenos Aires, Repository: MNHN (Vachal). Current status: *Megachile (Moureapis) pallefacta* Vachal, 1909. Megachilidae.

pallicornis, *Halictus* Vachal, 1904a: 477: n. sp., 1♂, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum pallicorne* (Vachal, 1904). Note: [halicti genuini]. Halictidae.

- pallitarsis**, *Sphecodes* Vachal, 1909b: 47–48: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Sphecodes pallitarsis* Vachal, 1909. Halictidae.
- pallorea**, *Megachile* Vachal, 1903a: 368: n. sp., 1♀, Type loc. (holotype): Gabon, N'Doro, x-xi.1898 (leg. Bouyssou), Repository: MNHN (Vachal). Current status: *Megachile pallorea* Vachal, 1903. Megachilidae.
- palmaris**, *Prosopis* Vachal, 1901: 81: n. sp., 1♂, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Hylaeus palmaris* (Vachal, 1901). Colletidae.
- palumbes**, *Halictus* Vachal, 1903d: 99: n. sp., unknown sex, Type loc.: [Brazil, Nova Friburgo], Repository: NMW. Current status: *Caenohalictus palumbes* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- pampeana**, *Megachile* Vachal, 1908b: 238: n. sp., 2♀, Type loc.: Argentina, Paraná, Repository: MNHN (Vachal). Current status: *Megachile (Moureapis) pampeana* Vachal, 1908. Megachilidae.
- pamperella**, *Megachile* Vachal, 1908b: 239: n. sp., 4♀, Type loc.: Argentina, Paraná, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) pamperella* Vachal, 1908. Megachilidae.
- pannosa**, *Prosopis* Vachal, 1909b: 62: n. sp., 2♂, Type loc.: Brazil, Goiás, Repository: MNHN. Current status: *Hylaeus pannosus* (Vachal, 1909). Colletidae.
- Paragapostemon**, Vachal, 1903d: 89: n.genus. Current status: *Paragapostemon* Vachal, 1903. Note: [halicti intermedii] Type species: *Halictus podager* Vachal, 1903, by designation of Cockerell, 1905. Halictidae.
- patagonica**, *Megachile* Vachal, 1904d: 11–12: n. sp., 1♂, Type loc. (holotype): Argentina, Santa Cruz in Patagonia, 1883 (leg. Lebrun), Repository: MNHN. Current status: *Megachile (Dasymegachile) patagonica* Vachal, 1904. Megachilidae.
- patens**, *Halictus* Vachal, 1903d: 128: n. sp., 4♀, Type loc.: Brazil, Rio Grande do Sul, Repository: NMW. Current status: *Augochloropsis patens* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- patruelis**, *Halictus* Vachal, 1911: 46: n. sp., 2♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Augochlora (Augochlora) patruelis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- pattoni** (as Pattoni), *Halictus* Vachal, 1903d: 132: nom. nov.. Current status: *Augochloropsis sumptuosa* (Smith, 1853). Note: [halicti hexagoni-vibrissati] replacement name for *Augochlora humeralis* Patton, 1879, nec *Halictus humeralis* Sichel, 1867. Halictidae.
- peguanus** (as Peguanus), *Halictus cattulus*, Vachal, 1894: 437: n. var., 3♀, Type loc.: Myanmar, Palon, Pegu (leg. Fea). Current status: *Lasioglossum (Ctenonomia) vagans* (Smith, 1857). Halictidae.
- pendens**, *Halictus* Vachal, 1903d: 128: n. sp., 1♀, Type loc. (holotype): Mexico, 1856 (leg. Sallé), Repository: MNHN. Current status: *Augochloropsis vesta* (Smith, 1853). Note: [halicti hexagoni-vibrissati]. Halictidae.
- pentheres**, *Halictus* Vachal, 1903d: 129: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Augochloropsis pentheres* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- phacodes**, *Halictus* Vachal, 1904c: 116: n. sp., 2♀, Type loc.: Bolivia, Repository: MNHN (Vachal). Current status: *Habralictus phacodes* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- pharus**, *Halictus* Vachal, 1904a: 475: n. sp., 1♀, Type loc. (holotype): Mexico, 1859 (leg. Sallé), Repository: MNHN. Current status: *Lasioglossum pharum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- philippina**, *Nomia* Vachal, 1897b: 91: n. sp., 1♀, Type loc. (holotype): Philippines, Palawan, Repository: MNHN (Vachal). Current status: *Nomia (Crocisaspidia) philippina* Vachal, 1897. Halictidae.
- phoenicis** (as phænicis), *Halictus* Vachal, 1904c: 117: n. sp., 4♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Augochlora (Oxystoglossella) phoenicis* (Vachal, 1904). Note: [halicti hexagoni-coarctati (sic!)] Halictidae.
- pici** (as Pici), *Eucera* Vachal, 1907a: 371: n. sp., 1♂, 1♀, Type loc.: Turkey, Adana, iv; Turkey, Mersin (leg. Pic). Current status: *Eucera pici* Vachal, 1907. Apidae.
- pici** (as Pici), *Prosopis* Vachal, 1899a: 536–537: n. sp., 2♂, Type loc.: Libanon, Beirut (leg. Pic). Current status: *Hylaeus pici* (Vachal, 1899). Note: Incertae sedis. Colletidae.
- piliventris**, *Coelioxys* Vachal, 1910a: 316–317: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kambove to Ruwe, 27.ii.1907 (leg. Neave), Repository: RMCA. Current status: *Coelioxys planidens* Friese, 1904. Megachilidae.
- pinacis**, *Halictus* Vachal, 1911: 54: n. sp., 1♂, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Augochlora (Oxystoglossella) pinacis* (Vachal, 1911). Note: [halicti hexagoni-sericeae & falcati]. Halictidae.
- pinguis**, *Halictus* Vachal, 1902: 230–231: n. sp., 1♀, Type loc. (holotype): India, Mussoori, Repository: ISZP (Radoszkowski). Current status: *Halictus (Seladonia) propinquus* Smith, 1853. Halictidae.
- pinnatus**, *Colletes* Vachal, 1909b: 51: n. sp., n♂, n♀, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Colletes pinnatus* Vachal, 1909. Colletidae.
- pinnatus**, *Halictus* Vachal, 1910a: 328: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kambove to Ruwe, iv.1907 (leg. Neave), Repository: RMCA. Current status: *Lasioglossum pinnatum* (Vachal, 1910). Halictidae.

- pisinnus**, *Halictus* Vachal, 1904a: 486: n. sp., 1♂, Type loc. (holotype): Chile, Repository: NMW. Current status: *Caenohalictus pisinnus* (Vachal, 1904). Note: [halicti genuini (sic!)]. Halictidae.
- pissisi** (as *Pissisi*), *Halictus* Vachal, 1903d: 89–90: n. sp., 5♀, Type loc.: Argentina; Brazil, capitancy of Mines (Minas Gerais); Chile (leg. Pissis), Repository: MNHN (Schulthess Schindler). Current status: *Pseudagapostemon* (*Pseudagapostemon*) *pissisi* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- pistorius**, *Halictus* Vachal, 1902: 228: n. sp., 1♂, 1♀, Type loc.: Turkmenistan, Aschabad; Turkmenistan, Tedsjen, Repository: ISZP (Radoszkowski). Current status: *Lasioglossum* (*Evylaeus*) *pistorium* (Vachal, 1902). Halictidae.
- plantaris**, *Colletes* Vachal, 1909b: 53–54: n. sp., 2♂, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Xanthocotelles plantaris* (Vachal, 1909). Colletidae.
- planula**, *Megachile* Vachal, 1908b: 228: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Megachile* (*Sayapis*) *planula* Vachal, 1908. Megachilidae.
- platymischa**, *Notiopimpla* Vachal, 1907c: 120: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Echthromorpha agrestoria interrupta* (Brullé, 1846). Ichneumonidae.
- pleuralis**, *Megachile* Vachal, 1908b: 237–238: n. sp., 2♂, 1♀, Type loc.: Argentina, Buenos Aires; Brazil, Colônia Hansa (Corupá), Repository: MNHN (Vachal). Current status: *Megachile* (*Moureapis*) *pleuralis* Vachal, 1908. Megachilidae.
- pleurites**, *Halictus* Vachal, 1904c: 119: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura pleurites* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- pluricincta**, *Tetrapedia* Vachal, 1909b: 32–33: n. sp., 1♀, Type loc. (holotype): Brazil, Goiás, Repository: MNHN (Vachal). Current status: *Monoeca pluricincta* (Vachal, 1909). Apidae.
- plutax**, *Halictus* Vachal, 1911: 22: n. sp., 1♀, Type loc. (holotype): Brazil, Repository: MNHN (Sichel). Current status: *Augochlora* (*Augochlora*) *plutax* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- podager**, *Halictus* Vachal, 1903d: 96, 121: n. sp., 3♀, Type loc.: Mexico, Meztiltal, [1867]; Mexico, Orizaba, Repository: MNHN (Sichel). Current status: *Paragapostemon coelestinus* (Westwood, 1875). Note: [halicti intermedii]. Halictidae.
- polynesia** (as *polyesia*) *Euaspiis* Vachal, 1903b: 97: nom. nov.. Current status: *Euaspiis polynesia* Vachal, 1903. Note: alternative spelling *polyesia* is considered printer's error as evident from subsequent publications; replacement name for *Stelis abdominalis* Smith, 1858, nec *Thynnus abdominalis* Fabricius, 1793. Megachilidae.
- postica**, *Anthophora* Vachal, 1910a: 324–325: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Kilwa to Lukonzolwa, viii.1907 (leg. Neave), Repository: RMCA. Current status: *Anthophora postica* Vachal, 1910. Apidae.
- postumus**, *Halictus* Vachal, 1903a: 390–391: n. sp., 2♂, Type loc.: Gabon, Lastoursville, viii-ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lasioglossum diversum* (Smith, 1879). Halictidae.
- praepotens** (as *præpotens*), *Halictus* Vachal, 1904c: 17: n. sp., 2♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Pseudaugochlora praepotens* (Vachal, 1904). Note: [halicti hexagoni-sericeii]. Halictidae.
- praetexta** (as *prætexta*), *Megachile* Vachal, 1910a: 307: n. sp., 2♂, Type loc.: D.R.Congo, Katumba; D.R.Congo, Kiamokosa, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile praetexta* Vachal, 1910. Megachilidae.
- pretexta**, *Crocisa* Vachal, 1903a: 379: n. sp., 1♀, Type loc. (holotype): Sierra Leone (leg. Mocquerys), Repository: RBINS. Current status: *Thyreus pretextus* (Vachal, 1903). Apidae.
- primus**, *Ichneutipterus* Vachal, 1907c: 123: nom. nov.. Current status: *Phanerotoma* (*Phanerotoma*) *ichneutipterus* (Vachal, 1907). Note: unnecessary provisional replacement name for *Sigalphus ichneutipterus*. Braconidae.
- priocnemidea**, *Notiopimpla* Vachal, 1907c: 119: n. sp., n♀, Type loc.: Australia, Melbourne (leg. Quod). Current status: *Lissopimpla excelsa* (Costa, 1864). Ichneumonidae.
- pristis**, *Nomia* Vachal, 1903a: 394: n. sp., 1♂, 3♀, Type loc.: Gabon, Lastoursville, ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lipotriches pristis* (Vachal, 1903). Halictidae.
- procerus**, *Halictus* Vachal, 1904a: 469–470: n. sp., 1♂, Type loc. (holotype): Canada, British Columbia, Spences Bridge, Repository: MNHN. Current status: *Halictus* (*Halictus*) *farinosus* Smith, 1853. Note: [halicti genuini]. Halictidae.
- profusca**, *Megachile rufa*, Vachal, 1910a: 306: n. var., 2♀, Type loc.: Zambia, Chunda, xii.1907; Zambia, Mpika (leg. Neave), Repository: RMCA. Current status: *Megachile cognata* Smith, 1853. Megachilidae.
- proteus**, *Halictus* Vachal, 1894: 438–439, 448: n. sp., 1♂, 4♀, Type loc.: Myanmar (as Tenasserim), Thagatà (leg. Fea). Current status: *Lasioglossum* (*Ctenonomia*) *splendidulum* (Vachal, 1894). Halictidae.
- prothysteres**, *Halictus* Vachal, 1904c: 23: n. sp., 6♂, Type loc.: Chile, Repository: MNHN; NMW. Current status: *Corynura* (*Callistochlora*) *prothysteres* (Vachal, 1904). Note: [halicti hexagoni-sericeii]. Halictidae.

- prymnis**, *Halictus* Vachal, 1911: 41: n. sp., 1♀, Type loc. (holotype): Argentina-Brazil, Paraná, Repository: MNHN (Vachal). Current status: *Paroxystoglossa jocasta* (Schrottky, 1910). Note: [halicti hexagoni-falcati]. Halictidae.
- psoraspis**, *Halictus* Vachal, 1911: 23–24: n. sp., 1♀, Type loc. (holotype): Uruguay, Montevideo, Repository: ZMHB. Current status: *Ceratalictus psoraspis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- psorops**, *Halictus* Vachal, 1911: 42: n. sp., 1♀, Type loc. (holotype): Brazil, Cansapava (Caçapava) (leg. Sellow), Repository: ZMHB. Current status: *Ceratalictus clonius* (Brèthes, 1909). Note: [halicti hexagoni-falcati]. Halictidae.
- puerula**, *Prosopis* Vachal, 1910d: 70: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus puerulus* (Vachal, 1910). Colletidae.
- pulla**, *Allodape* Vachal, 1903a: 388: n. sp., 1♀, Type loc. (holotype): Peru, Chanchamayo, Repository: MNHN (Vachal). Current status: *Allodape pulla* Vachal, 1903. Note: Incertae sedis, possibly wrong locality label. Apidae.
- pullatus**, *Halictus* Vachal, 1904c: 143, 144: n. sp., n♂, n♀, Type loc.: Chile?. Current status: *Corynura* (*Corynura*) *rubella* (Haliday, 1836). Note: [halicti intermedii-rhopali] ♂ possibly only after Spinola, 1851. Halictidae.
- pullatus**, *Lithurgus* Vachal, 1903a: 372: n. sp., 1♂, Type loc. (holotype): Tanzania, Tanganyika, on border of, Repository: MNHN (Vachal). Current status: *Lithurgus pullatus* Vachal, 1903. Megachilidae.
- pullilabris**, *Halictus* Vachal, 1904a: 479–480: n. sp., 1♂, Type loc. (holotype): USA, California, Repository: MNHN (Sichel). Current status: *Lasioglossum* (*Evyllaeus*) *pullilabris* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- pulvinata**, *Megachile* Vachal, 1910a: 306: n. sp., 1♀, Type loc. (holotype): Zambia, Chunda, xii.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile pulvinata* Vachal, 1910. Megachilidae.
- pumila**, *Dufourea* Vachal, 1907b: 363: n. sp., n♀, Type loc.: Spain, Madrid (leg. Mercet). Current status: *Dufourea gaullei* Vachal, 1897. Halictidae.
- punctibasis**, *Halictus* Vachal, 1911: 16: n. sp., 2♀, Type loc.: Bolivia, Mapiri; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *punctibasis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- puncticutis**, *Psaenythia* (*Parapsaenythia*) Vachal, 1909b: 41–42: n. sp., n♂, n♀, Type loc.: Argentina, Santiago de Estero (leg. Wagner), Repository: MNHN. Current status: *Parapsaenythia puncticutis* (Vachal, 1909). Andrenidae.
- purpurissata**, *Prosopis* Vachal, 1895b: cccxxii–cccxxiii: n. sp., 1♂, 2♀, Type loc.: Algeria, Alger. Current status: *Hylaeus pictus* (Smith, 1853). Colletidae.
- purpurissus**, *Halictus* Vachal, 1903d: 98, 121: n. sp., 1♂, 1♀, Type loc.: Chile, Arica, Repository: MNHN (Vachal). Current status: *Caenohalictus dolator* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.
- pusulata**, *Xylocopa* (*Xylocopa*) Vachal, 1910a: 318–319, 321: n. sp., 3♂, 2♀, Type loc.: D.R.Congo, Kayombo to Dikulwe; D.R.Congo, Mfungwe to Kayombo, vi.1907 (leg. Neave), Repository: RMCA. Current status: *Xylocopa pusulata* Vachal, 1910. Apidae.
- pycnon**, *Halictus* Vachal, 1904c: 122: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Neocorynura pycnon* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- pygidialis**, *Panurginus* Vachal, 1909b: 47: n. sp., 3♀, Type loc.: Peru, Callanga; Peru, Cusco, Repository: MNHN. Current status: *Rhopitulus pygidialis* (Vachal, 1909). Andrenidae.
- pyrrhias**, *Halictus* Vachal, 1911: 24: n. sp., 4♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora* (*Oxystoglossella*) *pyrrhias* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- pyrrhothrix**, *Halictus* Vachal, 1904c: 117: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura pyrrhothrix* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- pyrsa**, *Megachile* Vachal, 1910b: 177: n. sp., 1♂, Type loc. (holotype): Morocco, Mogador (Essaouira). Current status: *Megachile* (?) *pyrsa* Vachal, 1910. Megachilidae.
- quadrans**, *Halictus* Vachal, 1903d: 127: n. sp., 3♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Augochloropsis quadrans* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- quadrata**, *Megachile* Vachal, 1909b: 5: n. sp., 2♂, Type loc.: Argentina, Buenos Aires, 9.xii.1900, Repository: MNHN. Current status: *Megachile* (*Leptorachis*) *quadrata* Vachal, 1909. Megachilidae.
- quadraticollis**, *Halictus* Vachal, 1903c: 129: n. sp., n♀, Type loc.: Japan (leg. Harmand). Current status: *Lasioglossum* (*Lasioglossum*) *occidens* (Smith, 1873). Halictidae.
- quadrigenis**, *Colletes* Vachal, 1909b: 51–52: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Tapia, 600m, iii–iv.1903, Repository: MNHN (Vachal). Current status: *Colletes quadrigenis* Vachal, 1909. Colletidae.
- quodi** (as *Quodi*), *Anomalon* Vachal, 1907c: 120–121: n. sp., n♂, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Heteropelma quodi* (Vachal, 1907). Ichneumonidae.
- quodi** (as *Quodi*), *Bracon* Vachal, 1907c: 121–122: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Callibracon novocaledonicus* (Szépligeti, 1906). Braconidae.

- quodi** (as *Quodi*), *Megachile* Vachal, 1907c: 113–114: n. sp., n♂, n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Megachile (Hackeriapis) aurantiaca* Friese, 1905. Megachilidae.
- quodi** (as *Quodi*), *Notiopimpla* Vachal, 1907c: 119: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Echthromorpha quodi* (Vachal, 1907). Ichneumonidae.
- quodi** (as *Quodi*), *Odynerus* Vachal, 1907c: 115: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Pachymenes quodi* (Vachal, 1907). Vespidae.
- quodi** (as *Quodi*), *Priocnemis* Vachal, 1907c: 116: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Priocnemis quodi* Vachal, 1907. Note: Incertae sedis. Pompilidae.
- quodi** (as *Quodi*), *Sceliphron* Vachal, 1907c: 114: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Sceliphron fuscum* Klug, 1801. Sphecidae.
- radians**, *Halictus* Vachal, 1903d: 126: n. sp., 13♀, Type loc.: Guatemala, 1855; Mexico, Orizaba, 1862, v.1871 (leg. Angrand; Biart; Bilimek), Repository: MNHN; NMW. Current status: *Augochloropsis ignita* (Smith, 1861). Note: [halicti hexagoni-vibrissati]. Halictidae.
- radoszkowskii**, *Halictus* Vachal, 1902: 228–229: n. sp., 1♂, 1♀, Type loc.: Turkmenistan, Aschabad; Turkmenistan, Transcaspie, Repository: ISZP (Radoszkowski). Current status: *Halictus (Seladonia) radoszkowskii* Vachal, 1902. Halictidae.
- rauda**, *Megachile* Vachal, 1903a: 367: n. sp., 2♀, Type loc.: Equatorial Guinea, Bata, ix.1897; Gabon, Lastoursville, ix.1898 (leg. Bouyssou). Current status: *Megachile curtula* Gerstäcker, 1857. Megachilidae.
- rava**, *Megachile* Vachal, 1908b: 235: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Cruz (prob. in Paraná region), Repository: MNHN (Vachal). Current status: *Megachile (Cressoniella) rava* Vachal, 1908. Megachilidae.
- recepticius**, *Halictus* Vachal, 1902: 227: n. sp., 1♀, Type loc. (holotype): Lithuania, Vilna (Vilnius), Repository: ISZP (Radoszkowski). Current status: *Lasioglossum (Lasioglossum) zonulum* (Smith, 1848). Halictidae.
- recisa**, *Prosopis* Vachal, 1910d: 69: n. sp., 1♂, 1♀, Type loc.: Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus recisus* (Vachal, 1910). Colletidae.
- rectangulus**, *Halictus* Vachal, 1903d: 123–124: n. sp., 2♂, Type loc.: Peru, Callanga; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Caenohalictus rectangulus* (Vachal, 1903). Note: [halicti intermedi]. Halictidae.
- rectipalma**, *Megachile* Vachal, 1909b: 10–11: n. sp., 2♂, Type loc.: Brazil, Goiás, [including from Jataí], Repository: MNHN (Vachal). Current status: *Megachile (Pseudocentron) terrestris* Schrottky, 1902. Megachilidae.
- rejecta**, *Xylocopa* (*Xylocopa*) Vachal, 1910a: 319–320: n. sp., 2♂, 4♀, Type loc.: Kenya, Nairobi, Escarpment, viii.1906 (leg. Rothschild), Repository: MNHN. Current status: *Xylocopa rejecta* Vachal, 1910. Apidae.
- remigata**, *Megachile* Vachal, 1908b: 227: n. sp., 1♀, Type loc. (holotype): Peru, Urubamba, 3000m, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) remigata* Vachal, 1908. Megachilidae.
- repandirostris**, *Halictus* Vachal, 1911: 21: n. sp., 2♂, 6♀, Type loc.: Bolivia, Mapiri; Colombia, Bogotá; Colombia, Menzo (Muzo?), Repository: MNHN (Vachal); ZMHB. Current status: *Augochlora (Augochlora) repandirostris* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- respersus**, *Halictus* Vachal, 1904a: 478: n. sp., 3♀, Type loc.: Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum (Evylaeus) respersus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- reticulatus**, *Halictus* Vachal, 1894: 434–435, 448: n. sp., 1♂, 3♀, Type loc.: Myanmar, Carin Chebà; Myanmar, Momeit (leg. Fea), Repository: MSNG (Gribodo). Current status: *Pachyhalictus (Pachyhalictus) reticulosus* (Dalla Torre, 1896). Halictidae.
- rhombifrons**, *Coelioxys* Vachal, 1910c: 531: n. sp., 1♂, Type loc. (holotype): Kenya, Nairobi, viii (leg. Rothschild). Current status: *Coelioxys recusata* Schulz, 1904. Megachilidae.
- rhytis**, *Halictus* Vachal, 1904c: 117: n. sp., 3♀, Type loc.: Peru, Callanga; Peru, Huallaga, 1200m (leg. Baer), Repository: MNHN (Vachal). Current status: *Neocorynura rhytis* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- riverai** (as *Riverai*), *Halictus* Vachal, 1904c: 121–122: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura riverai* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- riveti** (as *Riveti*), *Halictus* Vachal, 1904b: 313: n. sp., 1♂, 3♀, Type loc.: Ecuador, Riobamba (leg. Rivet), Repository: MNHN. Current status: *Caenohalictus riveti* (Vachal, 1904). Note: [halicti intermedi]. Halictidae.
- rohdei** (as *Rhodei*), *Halictus* Vachal, 1911: 46: n. sp., 1♀, Type loc. (holotype): Colombia, Muzo (leg. Rhode), Repository: ZMHB. Current status: *Augochlora (Augochlora) rohdei* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- rolini** (as *Rolini*), *Allodape* Vachal, 1903a: 387–388: n. sp., 1♀, Type loc. (holotype): D.R.Congo, Boma Sundi (leg. Rolin), Repository: RBINS. Current status: *Braunsapis rolini* (Vachal, 1903). Apidae.

- rotalis**, *Halictus* Vachal, 1903d: 130: n. sp., 2♀, Type loc.: Brazil; Brazil, Espírito Santo (leg. Schott), Repository: NMW. Current status: *Augochloropsis rotalis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- rothschildi** (as *Rothschildi*), *Anthidium* Vachal, 1910c: 530–531: n. sp., 1♂, Type loc. (holotype): Kenya, Lake Rudolph (Turkana lake) (leg. Rothschild). Current status: *Eoanthidium rothschildi* (Vachal, 1910). Megachilidae.
- rothschildi** (as *Rothschildi*), *Colletes* Vachal, 1910c: 534: n. sp., 1♀, Type loc. (holotype): Kenya, S of Lake Rudolph (Turkana lake) (leg. Rothschild), Repository: MNHN. Current status: *Colletes rothschildi* Vachal, 1910. Colletidae.
- rothschildiana** (as *Rothschildiana*), *Ceratina* Vachal, 1910c: 531–532: n. sp., 1♀, Type loc. (holotype): Uganda, Loroghi (leg. [Rothschild]). Current status: *Ceratina rothschildiana* Vachal, 1910. Apidae.
- rothschildianus** (as *Rothschildianus*), *Halictus* Vachal, 1910c: 533–534: n. sp., 1♂, 1♀, Type loc.: Kenya, Nairobi, Escarpment, viii.1906 (leg. [Rothschild]), Repository: [MNHN]. Current status: *Patellapis (Zonalictus) rothschildiana* (Vachal, 1910). Halictidae.
- rubicans**, *Tetrapedia* Vachal, 1909b: 25–26: n. sp., 1♀, Type loc. (holotype): French Guiana, [Charvein], Repository: MNHN (Vachal). Current status: *Tetrapedia ornata* (Spinola, 1853). Apidae.
- rudis**, *Halictus* Vachal, 1903d: 134: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Catarina, Repository: MNHN (Schulthess Schindler). Current status: *Augochloropsis cleopatra* (Schrottky, 1902). Note: [halicti hexagoni-vibrissati]. Halictidae.
- ruficoxis**, *Nomia* Vachal, 1903a: 394: n. sp., 1♀, Type loc. (holotype): Gabon, Libreville, 20.viii.1897 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lipotriches nubecula* (Smith, 1875). Halictidae.
- ruficruris**, *Melitoma (Ancyloscelis)* Vachal, 1909b: 23: n. sp., 1♂, Type loc. (holotype): Chile (leg. Gay), Repository: MNHN. Current status: *Diadasia ruficruris* (Vachal, 1909). Apidae.
- rufiplantis**, *Megachile* Vachal, 1904d: 12: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Megachile (Chrysosarus) rufiplantis* Vachal, 1904. Megachilidae.
- rufiscapis**, *Sphcodes* Vachal, 1909b: 48: n. sp., 2♂, 1♀, Type loc.: Peru, Callanga, Repository: MNHN (Vachal). Current status: *Sphcodes rufiscapis* Vachal, 1909. Halictidae.
- rufisetis**, *Halictus terrestris*, Vachal, 1903d: 134: n. var., 6♀, Type loc.: Brazil, [Nova Friburgo] (leg. Beské), Repository: NMW. Current status: *Augochloropsis rufisetis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- rufozonatus** (as *rufo-zonatus*), *Halictus* Vachal, 1894: 442–443, 449: n. sp., 1♀, Type loc. (holotype): Myanmar, Bhamo (leg. Fea). Current status: *Lasioglossum (Evylaeus) amitinum* (Vachal, 1894). Halictidae.
- rutilans**, *Colletes* Vachal, 1909b: 52: n. sp., 1♀, Type loc. (holotype): Ecuador, Repository: MNHN (Vachal). Current status: *Colletes rutilans* Vachal, 1909. Colletidae.
- rutilans**, *Halictus* Vachal, 1904c: 122: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura rutilans* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- rutilipes**, *Tetrapedia* Vachal, 1909b: 30: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Tetrapedia rutilipes* Vachal, 1909. Note: Incertae sedis. Apidae.
- saundersi** (as *Saundersi*), *Osmia* Vachal, 1891: 66–67: n. sp., 1♂, 1♀, Type loc.: Algeria, Nemours, v.1888 (leg. Gazagnaire), Repository: MNHN (Vachal). Current status: *Hoplitis (Anthocopa) saundersi* (Vachal, 1891). Megachilidae.
- saussurei** (as *Saussurei*), *Diphaglossa* Vachal, 1909b: 35–36: n. sp., 1♂, Type loc. (holotype): Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Mydrosoma saussurei* (Vachal, 1909). Colletidae.
- scabra**, *Prosopis* Vachal, 1909b: 62, 64: n. sp., 1♂, 1♀, Type loc.: Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus vachali* Meade-Waldo, 1923. Colletidae.
- scabrifrons**, *Halictus* Vachal, 1903d: 135: n. sp., ♀♀, Type loc.: Argentina, Buenos Aires; Argentina, La Plata; Brazil, Rio Grande do Sul (leg. Brèthes; Schrottky), Repository: MNHN (general; Vachal); NMW. Current status: *Augochloropsis euterpe* (Holmberg, 1886). Note: [halicti hexagoni-vibrissati]. Halictidae.
- scapularis**, *Megachile* Vachal, 1908b: 234–235: n. sp., 1♂, 1♀, Type loc.: Bolivia, Mapiri; Peru, Pachitea, Repository: MNHN (Vachal). Current status: *Megachile (Pseudocentron) crassipes* Smith, 1879. Megachilidae.
- schoutedeni** (as *Schoutedeni*), *Anthidium* Vachal, 1910a: 315: n. sp., n♀, Type loc.: Moçambique, Congo Portugais. Current status: *Trachusa schoutedeni* (Vachal, 1910). Megachilidae.
- schrottkyi** (as *Schrottkyi*), *Megachile* Vachal, 1904d: 13–14: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Girard). Current status: *Megachile schrottkyi* Vachal, 1904. Note: Incertae sedis. Megachilidae.
- schulthessi** (as *Schulthessi*), *Halictus* Vachal, 1903d: 97: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Catarina, Repository: MNHN (Schulthess Schindler). Current status: *Caenohalictus schulthessi* (Vachal, 1903). Note: [halicti intermedii]. Halictidae.

- scitulus**, *Halictus* Vachal, 1903d: 99, 124: n. sp., 6♂, 1♀, Type loc.: Chile (leg. Fairmaire), Repository: MNHN (Sichel); NMW. Current status: *Caenohalictus opaciceps* (Friese, 1916). Note: [halicti intermedii]. Halictidae.
- scobis**, *Halictus* Vachal, 1903a: 389: n. sp., 1♀, Type loc. (holotype): Gabon, N'Jolé (leg. Bouysson), Repository: MNHN. Current status: *Lasioglossum scobe* (Vachal, 1903). Halictidae.
- scorpia**, *Osmia* Vachal, 1910b: 178–179: n. sp., 1♂, Type loc. (holotype): Morocco, Mogador (Essaouira). Current status: *Osmia scorpia* Vachal, 1910. Note: Incertae sedis. Type possible lost, actual genus is likely *Hoplitis*. Megachilidae.
- scotaspis**, *Crocisa* Vachal, 1903a: 379: n. sp., 2♀, Type loc.: Gabon, Lambaréné, x.1897; Gabon, Samlia river falls (leg. Bouysson; Mocquerys), Repository: RBINS; MNHN (Vachal). Current status: *Thyreus scotaspis* (Vachal, 1903). Apidae.
- Scotomphales**, Vachal, 1899b: 843: nom. nov.. Current status: *Stizoides* Guérin-Méneville, 1844. Note: replacement name for *Omphalius* Vachal, 1900, nec *Omphalius* Philippi, 1847. Sphecidae.
- Scotomphales**, Vachal, 1900: 233: nom. nov.. Current status: *Stizoides* Guérin-Méneville, 1844. Note: See above, replacement name for *Omphalius* Vachal, 1900, nec *Omphalius* Philippi, 1847. Sphecidae.
- scrobicauda**, *Prosopis* Vachal, 1901: 79–80: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Hylaeus scrobicauda* (Vachal, 1901). Colletidae.
- scrupea**, *Prosopis* Vachal, 1909b: 62–63, 64: n. sp., 1♂, 2♀, Type loc.: Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus scrupeus* (Vachal, 1909). Colletidae.
- scutula**, *Prosopis* Vachal, 1894: 446: n. sp., 1♀, Type loc. (holotype): Myanmar, Schwegu (leg. Fea). Current status: *Hylaeus scutulus* (Vachal, 1894). Colletidae.
- secretus**, *Halictus* Vachal, 1903d: 97: n. sp., 1♀, Type loc. (holotype): no locality, Repository: NMW. Current status: *Halictus secretus* Vachal, 1903. Note: [halicti intermedii] Incertae sedis. Halictidae.
- selloi** (as *Selloi*), *Halictus* Vachal, 1911: 109: n. sp., 1♂, Type loc. (holotype): Brazil, São Paulo (leg. Sellow), Repository: ZMHB. Current status: *Augochloropsis selloi* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati (sic!)]. Halictidae.
- semiaerinus** (as *semi-aerinus*), *Halictus* Vachal, 1894: 443–444, 449: n. sp., 2♀, Type loc.: Myanmar, Bhamo, iv.1886; Myanmar, Carin Chebà, xii.1888 (leg. Fea). Current status: *Lasioglossum (Ctenonomia) splendidulum* (Vachal, 1894). Halictidae.
- semierma**, *Megachile* Vachal, 1903a: 368: n. sp., 1♂, Type loc. (holotype): Gabon, Lastoursville, ix.1898 (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Megachile semierma* Vachal, 1903. Megachilidae.
- senior**, *Xylocopa (Koptortosoma)* Vachal, 1899d: 159: n. sp., 1♀, Type loc. (holotype): Tanzania, Afrique Oriental Allemand (Deutsch Ost-Afrika, now Tanzania), Repository: MNHN (Vachal). Current status: *Xylocopa senior* Vachal, 1899. Apidae.
- senticosa**, *Nomia* Vachal, 1897b: 88: n. sp., 1♀, Type loc. (holotype): Sierra Leone, Repository: MNHN (Vachal). Current status: *Nomia senticosa* Vachal, 1897. Halictidae.
- sequax**, *Halictus* Vachal, 1904c: 122: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura sequax* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- sertus**, *Halictus* Vachal, 1904a: 483: n. sp., 1♂, 2♀, Type loc.: Mexico; Mexico, Córdoba; Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN (Sichel). Current status: *Lasioglossum (Evylaeus) sertus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- setosa**, *Megachile* Vachal, 1908b: 240–241: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Megachile (Trichurochile) setosa* (Vachal, 1908). Megachilidae.
- severini** (as *Severini*), *Anthidium* Vachal, 1903a: 374: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Moliro, iii-v.1895 (leg. Duvivier), Repository: RBINS. Current status: *Anthidium severini* Vachal, 1903. Megachilidae.
- sexies**, *Megachile* Vachal, 1909b: 9: n. sp., 1♂, Type loc. (holotype): French Guiana, Repository: MNHN (Vachal). Current status: *Megachile (Pseudocentron) lobitarsis* Smith, 1879. Megachilidae.
- sicheli** (as *Sicheli*), *Camptopoeum (Acamptopoeum)* Vachal, 1909b: 46: n. sp., 2♂, 2♀, Type loc.: Chile, Repository: MNHN (Sichel). Current status: *Calliopsis (Liopoeum) trifasciata* (Spinola, 1851). Andrenidae.
- sicheli**, *Colletes* Vachal, 1909b: 58: n. sp., n♂, n♀, Type loc.: Chile, Repository: MNHN (Sichel). Current status: *Xanthocotelles sicheli* (Vachal, 1909). Colletidae.
- sicheli** (as *Sicheli*), *Halictus (Agapostemon)* Vachal, 1901: 77–78: n. sp., 4♂, 3♀, Type loc.: Mexico, Repository: MNHN (Sichel). Current status: *Dinagapostemon sicheli* (Vachal, 1901). Halictidae.
- sicheli** (as *Sicheli*), *Nomia* Vachal, 1897b: 92: n. sp., 1♀, Type loc. (holotype): Nouvelle Calédonie, Repository: MNHN (Sichel). Current status: *Austronomia sicheli* (Vachal, 1897). Halictidae.
- sicheli** (as *Sicheli*), *Xylocopa (Xylocopa)* Vachal, 1898: 92: n. sp., 2♀, Type loc.: South Africa, Cafrerie (Cape Province), Repository: MNHN (Sichel). Current status: *Xylocopa sicheli* Vachal, 1898. Apidae.

- silvestriana** (as *Silvestriana*), *Melipona* (*Trigona*) Vachal, 1908b: 221–222: n. sp., ♀♀, Type loc.: Belize; Bolivia, Mapiri; Brazil, Goiás; Ecuador, Cachabí, Repository: MNHN. Current status: *Trigona silvestriana* (Vachal, 1908). Apidae.
- simā**, *Prosopis* Vachal, 1895b: cccxxiv–cccxxv: n. sp., 1♂, Type loc. (holotype): Algeria, Repository: MSNG (Gribodo). Current status: *Hylaeus* (*Dentigera*) *simus* (Vachal, 1895). Colletidae.
- simotes**, *Halictus* Vachal, 1911: 22: n. sp., ♀♀, Type loc.: Brazil, Rio de Janeiro; Colombia; Colombia, Bogotá; French Guiana; Honduras, [Manatee] (leg. [Lindig]), Repository: MNHN (de Gaulle (=general); Sichel; Vachal); ZMHB. Current status: *Pereirapis simotes* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- smaragdulus**, *Halictus* Vachal, 1895a: 150: n. sp., 1♂, Type loc. (holotype): Spain, Sevilla, [Guadalcanal], Repository: col. Medina (now MNCN). Current status: *Halictus* (*Seladonia*) *smaragdulus* Vachal, 1895. Halictidae.
- Smithia**, Vachal, 1897a: 63: n.genus. Current status: *Melittosmithia* Schulz, 1906. Note: Type species: *Scapter carinata* Smith, 1862, by designation of Cockerell, 1910. Colletidae.
- sodalis**, *Halictus* Vachal, 1904c: 114: n. sp., 1♀, Type loc. (holotype): Brazil, Santa Catarina, Joinville (leg. Schmalz), Repository: MNHN (Vachal). Current status: *Megalopta sodalis* (Vachal, 1904). Note: [halicti hexagoni-megalopti]. Halictidae.
- sordicutis**, *Halictus* Vachal, 1904c: 16: n. sp., 1♀, Type loc. (holotype): Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Pseudaugochlora sordicutis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- soricina**, *Megachile* Vachal, 1908b: 231–232: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile* (*Moureapis*) *soricina* Vachal, 1908. Megachilidae.
- sosia**, *Megachile* Vachal, 1903a: 371: n. sp., 1♀, Type loc. (holotype): Tanzania, Afrique Oriental Allemand (Deutsch Ost-Afrika, now Tanzania), Manon, Repository: MNHN (Vachal). Current status: *Megachile ianthoptera* Smith, 1853. Megachilidae.
- sparsilis**, *Halictus* Vachal, 1903d: 130–131: n. sp., ♀♀, Type loc.: Brazil; Brazil, Blumenau; Brazil, Rio Grande do Sul (leg. Hetschko; Stieglmayr; Winthem), Repository: MNHN (Vachal); NMW. Current status: *Augochloropsis sparsilis* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- specularis**, *Melitoma* (*Ancyloscelis*) Vachal, 1909b: 21: n. sp., 1♂, Type loc. (holotype): Argentina, Santiago de Estero, Río Salado (leg. Wagner), Repository: MNHN. Current status: *Diadasina specularis* (Vachal, 1909). Apidae.
- sphaerites**, *Halictus* Vachal, 1911: 23: n. sp., 2♀, Type loc.: Belize, Manatec (Honduras, Manatee?), Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *sphaerites* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- sphecodimorphus**, *Halictus* Vachal, 1892b: xxii: n. sp., ♀♀ (mas latet), Type loc.: Algeria, Oran; Spain, Repository: MNHN (Pérez). Current status: *Lasioglossum* (*Dialictus*) *sphecodimorphum* (Vachal, 1892). Halictidae.
- sphinx**, *Xylocopa* (*Koptortosoma*) Vachal, 1899d: 147: n. sp., 1♀, Type loc. (holotype): Guinea, Guinée, Repository: MNHN (Sichel). Current status: *Xylocopa sphinx* Vachal, 1899. Apidae.
- spinalis**, *Halictus* Vachal, 1904a: 475–476: n. sp., 1♂, 7♀, Type loc.: Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum* (*Evylaeus*) *spinalis* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- spizion**, *Halictus* Vachal, 1904c: 125, 127: n. sp., unknown sex, Type loc.: [Peru, Callanga], Repository: MNHN. Current status: *Neocorynura spizion* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- splendidulus**, *Halictus* Vachal, 1894: 432–433, 448: n. sp., 1♂, 1♀, Type loc.: Myanmar, Carin Chebà, 1000m, vi.1888 (leg. Fea). Current status: *Lasioglossum* (*Ctenonomia*) *splendidulum* (Vachal, 1894). Halictidae.
- spodiozonius**, *Halictus* Vachal, 1894: 432, 448: n. sp., 1♀, Type loc. (holotype): Myanmar, Carin Chebà (leg. Fea). Current status: *Lasioglossum* (*Lasioglossum*) *spodiozonium* (Vachal, 1894). Halictidae.
- sporas**, *Halictus* Vachal, 1911: 44: n. sp., 1♀, Type loc. (holotype): Mexico, Oaxaca, Repository: MNHN (Sichel). Current status: *Augochlora* (*Augochlora*) *sporas* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- squamans**, *Halictus* Vachal, 1904c: 118: n. sp., 2♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Neocorynura squamans* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- stadelmanni** (as *Stadelmanni*), *Xylocopa* (*Xylocopa*) Vachal, 1899d: 157: n. sp., n♀, Type loc.: Tanzania, Afrique Oriental Allemand (Deutsch Ost-Afrika, now Tanzania). Current status: *Xylocopa stadelmanni* Vachal, 1899. Apidae.
- stigon**, *Halictus* Vachal, 1911: 20: n. sp., 2♀, Type loc.: Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Ceratalictus stigon* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- stilbaspis**, *Prosopis* Vachal, 1901: 80: n. sp., 1♀, Type loc. (holotype): Bolivia, Repository: MNHN (Vachal). Current status: *Hylaeus stilbaspis* (Vachal, 1901). Colletidae.
- stilborhin**, *Halictus* Vachal, 1904c: 121: n. sp., 2♀, Type loc.: Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura stilborhin* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.

- strictifrons**, *Halictus* Vachal, 1895a: 147–148: n. sp., 1♀, Type loc. (holotype): [Spain, Sevilla, Huévar del Aljarafe], Repository: col. Medina (now MNCN). Current status: *Lasioglossum (Dialictus) strictifrons* (Vachal, 1895). Halictidae.
- strictifrons**, *Pison* Vachal, 1907c: 114–115: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Pison strictifrons* Vachal, 1907. Sphecidae.
- strictipalmis**, *Megachile* Vachal, 1903a: 370: n. sp., 2♂, Type loc.: D.R.Congo?, Haut-Congo, Le Boulengé; Moçambique, B. Delagoa, Repository: RBINS. Current status: *Megachile gratiosa* Gerstäcker, 1857. Megachilidae.
- strigata**, *Coelioxys* Vachal, 1904d: 15: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Coelioxys strigata* Vachal, 1904. Megachilidae.
- striginasis**, *Colletes* Vachal, 1909b: 48–49: n. sp., 1♀, Type loc. (holotype): Peru, Urubamba, 3000m, Repository: MNHN (Vachal). Current status: *Colletes striginasis* Vachal, 1909. Colletidae.
- stuppea**, *Megachile* Vachal, 1903a: 364: n. sp., 3♂, 10♀, Type loc.: Gabon, Lambaréné, x.1897; Gabon, Samlia river falls; Sierra Leone (leg. Bouysson; Mocquers), Repository: RBINS; MNHN (Vachal). Current status: *Megachile bombiformis bombiformis* (Gerstäcker, 1857). Megachilidae.
- subjuncta**, *Xylocopa (Xylocopa)* Vachal, 1898: 93–94: n. sp., 1♀, Type loc. (holotype): Somalia, Matagoi to Lugh Ganana, [xi.1895] (leg. Bottego), Repository: MSNG (Gribodo). Current status: *Xylocopa subjuncta* Vachal, 1898. Apidae.
- subpallens**, *Megachile* Vachal, 1908b: 230–231: n. sp., 2♀, Type loc.: Ecuador, Archidona; Peru, Pachitea (leg. Haensch), Repository: MNHN (Vachal). Current status: *Megachile (Austromegachile) subpallens* Vachal, 1908. Megachilidae.
- sudus**, *Halictus* Vachal, 1904a: 485: n. sp., 1♀, Type loc. (holotype): Mexico, Orizaba, 1862 (leg. Biart), Repository: MNHN. Current status: *Lasioglossum (Dialictus) sudus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- sulamita** (as *Sulamita*), *Eucera* Vachal, 1907a: 373: n. sp., 2♀, Type loc.: Israel, Jerusalem (leg. Pic). Current status: *Eucera (Heterocera) sulamita* Vachal, 1907. Apidae.
- sulcatus**, *Colletes* Vachal, 1909b: 58: n. sp., ♂♂, Type loc.: Chile, Repository: MNHN (Sichel). Current status: *Colletes sulcatus* Vachal, 1909. Colletidae.
- surdus**, *Halictus* Vachal, 1903a: 391: n. sp., 1♀, Type loc. (holotype): Peru, Chanchamayo, Repository: MNHN (Vachal). Current status: *Halictus surdus* Vachal, 1903. Note: Incertae sedis, possibly wrong locality label. Halictidae.
- suspecta**, *Megachile* Vachal, 1909b: 12–13: n. sp., 2♂, Type loc.: Argentina, Buenos Aires, Repository: MNHN (Vachal). Current status: *Megachile (Chrysosarus) suspecta* Vachal, 1909. Megachilidae.
- suspiciosa**, *Xylocopa (Koptortosoma)* Vachal, 1899d: 156: n. sp., 2♂, Type loc.: Moçambique, B. Delagoa, Repository: NMW. Current status: *Xylocopa suspiciosa* Vachal, 1899. Apidae.
- sympleres**, *Halictus* Vachal, 1903d: 126: n. sp., 5♀, Type loc.: Brazil, Rio Grande do Sul (leg. Stieglmayr), Repository: NMW. Current status: *Augochloropsis sympleres* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- taeniolellus**, *Halictus* Vachal, 1903c: 131: n. sp., 1♀, Type loc. (holotype): Japan (leg. Harmand). Current status: *Lasioglossum (Dialictus) taeniolellum* (Vachal, 1903). Halictidae.
- tarsalis**, *Tetrapedia* Vachal, 1909b: 29: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN (Vachal). Current status: *Lophopedia tarsalis* (Vachal, 1909). Apidae.
- taschenbergi** (as *Taschenbergi*), *Xylocopa (Xylocopa)* Vachal, 1898: 93: n. sp., 1♀, Type loc. (holotype): [Ethiopia] Africa (leg. Reiche), Repository: MNHN. Current status: *Xylocopa ustulata* Smith, 1854. Apidae.
- taurea**, *Eucera* Vachal, 1907a: 374–375: n. sp., 1♂, Type loc. (holotype): Turkey, Gülek, Cilicie. Current status: *Eucera taurea* Vachal, 1907. Note: Incertae sedis. Apidae.
- taurifrons**, *Halictus* Vachal, 1903d: 127: n. sp., 1♀, Type loc. (holotype): Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochloropsis taurifrons* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- tergina**, *Megachile* Vachal, 1908b: 223: n. sp., 3♀, Type loc.: Bolivia, Mapiri; Peru, Huallaga (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile (Austromegachile) fiebrigi* Schrottky, 1908. Megachilidae.
- terginus**, *Halictus* Vachal, 1904a: 485: n. sp., 2♀, Type loc.: Mexico, Oaxaca, Repository: MNHN (Sichel). Current status: *Lasioglossum (Dialictus) terginus* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- terrestris**, *Halictus* Vachal, 1903d: 134: n. sp., 4♀, Type loc.: Argentina, Buenos Aires, 9.xii.1901 (leg. Brèthes), Repository: MNHN (Vachal). Current status: *Augochloropsis terrestris* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- tersa**, *Nomia* Vachal, 1903a: 396: n. sp., 1♀, Type loc. (holotype): Equatorial Guinea, River Mouny (leg. Bouysson), Repository: MNHN (Vachal). Current status: *Lipotriches andrei* (Vachal, 1897). Halictidae.

- theryi** (as *Theryi*), *Aphilanthops* Vachal, 1893: cclxiv–cclxv: n. sp., n♀, Type loc.: Algeria, Biskra, 1893 (leg. Théry). Current status: *Pseudoscolia theryi* (Vachal, 1893). Sphecidae.
- thomae** (as *Thomae*), *Nomia* Vachal, 1903a: 399: n. sp., 1♂, Type loc. (holotype): São Tomé & Príncipe, São Tomé, Repository: MNHN (Vachal). Current status: *Lipotriches hylaeoides* (Gerstäcker, 1857). Halictidae.
- tiphiipuppis**, *Cryptus* Vachal, 1907c: 118: n. sp., n♀, Type loc.: Nouvelle Calédonie (leg. Quod). Current status: *Gavrana tiphiipuppis* (Vachal, 1907). Ichneumonidae.
- tonsilis**, *Halictus* Vachal, 1904c: 21: n. sp., 2♀, Type loc.: Mexico, Cuernavaca, ix; Mexico, Oaxaca (leg. Bilimek), Repository: MNHN (Sichel); NMW. Current status: *Caenaugochlora (Caenaugochlora) tonsilis* (Vachal, 1904). Note: [halicti hexagoni-sericei]. Halictidae.
- toralis**, *Halictus* Vachal, 1904c: 9: n. sp., 12♀, Type loc.: Brazil; Brazil, Bahia; French Guiana; Guyana; Venezuela, Repository: MNHN (Vachal); NMW. Current status: *Augochloropsis toralis* (Vachal, 1904). Note: [halicti hexagoni-vibrissati]. Halictidae.
- torula**, *Megachile* Vachal, 1910a: 312: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Katumba, x.1907 (leg. Neave), Repository: RMCA. Current status: *Megachile torrida* Smith, 1853. Megachilidae.
- trachycer**, *Halictus* Vachal, 1904c: 141: n. sp., 2♂, Type loc.: Bolivia, La Paz, Yungas, Coroico; Peru, Callanga. Current status: *Neocorynura trachycera* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- tradux**, *Halictus* Vachal, 1904c: 141, 143, 144: n. sp., 1♂, 1♀, Type loc.: Mexico, Repository: MNHN (Sichel). Current status: *Habralictus tradux* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- transversa**, *Eucera* Vachal, 1907a: 375: n. sp., 5♂, Type loc.: Turkey, Gülek, vii. Current status: *Eucera transversa* Vachal, 1907. Apidae.
- transversa**, *Prosopis* Vachal, 1909b: 63, 66: n. sp., 1♀, Type loc. (holotype): Brazil, Goiás, Repository: MNHN. Current status: *Hylaeus transversus* (Vachal, 1909). Note: alternative spelling *transcersa* is considered printer's error. Colletidae.
- transvorsus**, *Halictus* Vachal, 1904a: 472: n. sp., 2♀, Type loc.: Mexico, Angangueo, Repository: MNHN (Sichel). Current status: *Lasioglossum transvorum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- traumatias**, *Halictus* Vachal, 1911: 53, 54: n. sp., ♂♂, Type loc.: Argentina, Repository: MNHN (Vachal). Current status: *Augochlorella ephyra* (Schrottky, 1910). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- tredecim**, *Halictus* Vachal, 1911: 107–108: n. sp., 1♂, Type loc. (holotype): Brazil, Repository: MNHN (Sichel). Current status: *Augochlorella tredecim* (Vachal, 1911). Note: [halicti hexagoni-sericei & falcati]. Halictidae.
- triacontas**, *Halictus* Vachal, 1904c: 120, 125: n. sp., 3♀, Type loc.: Bolivia; Peru, Callanga; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Neocorynura triacontas* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- triangulifera**, *Nomia* Vachal, 1897b: 93: n. sp., 1♂, Type loc. (holotype): USA, Kansas, Repository: MNHN (Vachal). Current status: *Nomia triangulifera* Vachal, 1897. Halictidae.
- tributa**, *Megachile* Vachal, 1909b: 15: n. sp., n♂, Type loc.: Argentina, Buenos Aires, Repository: [MNHN]. Current status: *Megachile (Pseudocentron) tributa* Vachal, 1909. Megachilidae.
- trichecus**, *Halictus* Vachal, 1904a: 471–472: n. sp., 1♀, Type loc. (holotype): Mexico, Cuautla, Repository: MNHN (Sichel). Current status: *Lasioglossum trichecum* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- trichora**, *Megachile* Vachal, 1903a: 365: n. sp., 1♂, 6♀, Type loc.: Equatorial Guinea, Kogo; Gabon, N'Doro, x–xi.1898 (leg. Bouysson), Repository: MNHN (general; Vachal). Current status: *Megachile aurivilli* Friese, 1901. Megachilidae.
- tricnicos**, *Halictus* Vachal, 1904a: 474: n. sp., 1♀, Type loc. (holotype): Mexico, Repository: MNHN (Sichel). Current status: *Lasioglossum tricnicos* (Vachal, 1904). Note: [halicti genuini]. Halictidae.
- tricolor**, *Psaenythia (Psaenythia)* Vachal, 1909b: 40: n. sp., n♂, n♀, Type loc.: Argentina, Santiago de Estero (leg. Wagner), Repository: MNHN. Current status: *Psaenythia tricolor* Vachal, 1909. Andrenidae.
- Trilia**, *Dufourea* Vachal, 1899a: 534: n.subgenus. Current status: *Dufourea* Lepeletier, 1841. Note: Type species: *Dufourea muoti* Vachal, 1899, monobasic. Halictidae.
- trinax**, *Halictus* Vachal, 1904c: 116: n. sp., 5♀, Type loc.: Bolivia; Peru, Callanga, Repository: MNHN (Vachal). Current status: *Habralictus trinax* (Vachal, 1904). Note: [halicti hexagoni-coarctati]. Halictidae.
- trispinis**, *Halictus* Vachal, 1903c: 131: n. sp., 1♀, Type loc. (holotype): Japan (leg. Harmand). Current status: *Lasioglossum (Evylaeus) vulsum* (Vachal, 1903). Halictidae.
- tristis**, *Halictus* Vachal, 1894: 438, 448: n. sp., 2♀, Type loc.: Myanmar, Carin Chebà (leg. Fea). Current status: *Halictus tristis* Vachal, 1894. Note: Incertae sedis. Halictidae.
- trisulca**, *Prosopis* Vachal, 1910d: 66–67: n. sp., 1♀, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus trisulcus* (Vachal, 1910). Colletidae.

- trochanterica**, *Xylocopa* (*Xylocopa*) Vachal, 1910a: 318: n. sp., 3♂, Type loc.: D.R.Congo, Kayombo to Dikulwe, vi.1907; Zambia, Mpika, xii.1907 (leg. Neave), Repository: RMCA. Current status: *Xylocopa trochanterica* Vachal, 1910. Apidae.
- trochantina**, *Megachile* Vachal, 1909b: 14: n. sp., 3♂, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *trochantina* Vachal, 1909. Megachilidae.
- tschoffeni** (as *Tschoffeni*), *Crocisa* Vachal, 1903a: 381: n. sp., 1♂, Type loc. (holotype): D.R.Congo, Boma (leg. Tschoffen), Repository: RBINS. Current status: *Thyreus tschoffeni* (Vachal, 1903). Apidae.
- tucumana**, *Megachile* Vachal, 1908b: 241–242: n. sp., 2♂, 1♀, Type loc.: Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile* (*Dasymegachile*) *tucumana* Vachal, 1908. Megachilidae.
- tucumana**, *Tetrapedia* Vachal, 1904d: 22: n. sp., 2♀, Type loc.: Argentina, Tucumán, La Criolla, 1500m, i.1903 (leg. Baer), Repository: MNHN. Current status: *Tapinotaspoidea tucumana* (Vachal, 1904). Apidae.
- tucumanum**, *Anthidium bicoloratum*, Vachal, 1904d: 14–15: n. var., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN. Current status: *Epanthidium bicoloratum* (Smith, 1879). Megachilidae.
- tucumanus**, *Bombus* Vachal, 1904d: 10–11: n. sp., 1♂, Type loc. (holotype): Argentina, Tucumán (leg. Girard), Repository: MNHN (Vachal). Current status: *Bombus* (*Cullumanobombus*) *tucumanus* Vachal, 1904. Apidae.
- turmalis**, *Ancyloscelis* Vachal, 1904d: 18: n. sp., 1♂, 1♀, Type loc.: Argentina, Tucumán, 9+21.ii.1900, Repository: MNHN. Current status: *Ancyloscelis turmalis* Vachal, 1904. Apidae.
- uberta**, *Prosopis* Vachal, 1910d: [64–]65: n. sp., 1♂, Type loc. (holotype): Bolivia, Mapiri, Repository: MNHN. Current status: *Hylaeus ubertus* (Vachal, 1910). Colletidae.
- una**, *Megachile* Vachal, 1909b: 15, 17: n. sp., 2♂, Type loc.: Argentina, Buenos Aires, Repository: MNHN (Vachal). Current status: *Megachile una* Vachal, 1909. Megachilidae.
- uncispinis**, *Nomia* Vachal, 1910a: 327: n. sp., n♀, Type loc.: no locality. Current status: *Nomia somalica* Friese, 1908. Halictidae.
- utra**, *Megachile* Vachal, 1903a: 370–371: n. sp., 1♂, Type loc. (holotype): Tanzania, Tanganyika, Repository: MNHN (Vachal). Current status: *Megachile utra* Vachal, 1903. Megachilidae.
- vagata**, *Megachile* Vachal, 1908b: 228–229: n. sp., 2♂, 2♀, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *vagata* Vachal, 1908. Megachilidae.
- vallensis**, *Halictus* Vachal, 1904c: 21: n. sp., 1♀, Type loc. (holotype): Peru, Callanga, Repository: MNHN (Vachal). Current status: *Caenohalictus incertus* (Schrottky, 1902). Note: [halicti hexagoni-sericea (sic!)]. Halictidae.
- varians**, *Halictus* Vachal, 1903d: 129: n. sp., 1♀, Type loc. (holotype): Bolivia; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochloropsis varians* (Vachal, 1903). Note: [halicti hexagoni-vibrissati]. Halictidae.
- varipes**, *Megachile* Vachal, 1908b: 232: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán (leg. Baer), Repository: MNHN (Vachal). Current status: *Megachile* (*Chrysosarus*) *varipes* Vachal, 1908. Megachilidae.
- variplantis**, *Megachile* Vachal, 1909b: 9: n. sp., 2♂, Type loc.: Argentina, Mendoza, Repository: MNHN (Vachal). Current status: *Megachile* (*Pseudocentron*) *variplantis* Vachal, 1909. Megachilidae.
- veterna**, *Megachile* Vachal, 1908b: 235–236: n. sp., 1♀, Type loc. (holotype): Peru, Repository: MNHN (Vachal). Current status: *Megachile* (*Cressoniella*) *veterna* Vachal, 1908. Megachilidae.
- vetula**, *Megachile* Vachal, 1904d: 12: n. sp., 1♀, Type loc. (holotype): Argentina, Tucumán, Lara, 4000m, ii.1903 (leg. Baer), Repository: MNHN. Current status: *Megachile* (*Chrysosarus*) *vetula* Vachal, 1904. Megachilidae.
- vicinus**, *Halictus* Vachal, 1894: 431–432, 448: n. sp., 5♀, Type loc.: Myanmar, Bhamo, xi.1886 (leg. Fea). Current status: *Halictus* (*Seladonia*) *vicinus* Vachal, 1894. Halictidae.
- vincta**, *Megachile* Vachal, 1908b: 239: n. sp., 1♀, Type loc. (holotype): Chile, Arica, Repository: MNHN (Vachal). Current status: *Megachile* (*Pseudocentron*) *aricensis* Friese, 1904. Megachilidae.
- virgatus**, *Colletes* Vachal, 1904d: 26: n. sp., 1♂, Type loc. (holotype): Argentina, Carcarañá, Repository: MNHN. Current status: *Colletes virgatus* Vachal, 1904. Colletidae.
- viridans**, *Colletes* Vachal, 1909b: 55, 56: n. sp., ♂♂, ♀♀, Type loc.: Chile, Concepción, 17.iv, 22.x; Chile, "Niuble" (Ñuble), 25.ix; Chile, Quillota, Repository: MNHN (Sichel; Vachal). Current status: *Colletes cyanescens* (Haliday, 1836). Colletidae.
- vitrea**, *Allodape* Vachal, 1903a: 388: n. sp., 1♀, Type loc. (holotype): Moçambique, B. Delagoa, Monteiro, Repository: RBINS. Current status: *Braunsapis vitrea* (Vachal, 1903). Apidae.
- vulsus**, *Halictus* Vachal, 1903c: 130: n. sp., 2♂, Type loc.: Japan (leg. Harmand). Current status: *Lasioglossum* (*Evylaeus*) *vulsum* (Vachal, 1903). Halictidae.
- wagneri** (as *Wagneri*), *Pasiphae* Vachal, 1909b: 39: n. sp., n♂, n♀, Type loc.: Argentina, Gran Chaco; Argentina, Santiago de Estero, Río Salado; Argentina, Tapenagá (leg. Wagner), Repository: MNHN. Current status: *Pygopasiphae wagneri* (Vachal, 1909). Colletidae.

- wagneri** (as *Wagneri*), *Psaenythia* (*Psaenythia*) Vachal, 1909b: 41: n. sp., n♂, n♀, Type loc.: Argentina, Santiago de Estero, 1906 (leg. Wagner), Repository: MNHN. Current status: *Psaenythia wagneri* Vachal, 1909. Note: Incertae sedis. Andrenidae.
- xanthogastris**, *Halictus* Vachal, 1911: 18: n. sp., 1♀, Type loc. (holotype): Colombia, Bogotá (leg. [Lindig]), Repository: ZMHB. Current status: *Habralictus xanthogastris* (Vachal, 1911). Note: [halicti hexagoni-falcati (sic!)]. Halictidae.
- xanthopoda**, *Prosopis* Vachal, 1895b: cccxxv: n. sp., 1♂ (as ♀ in text), Type loc. (holotype): Egypt, Cairo, Repository: MSNG (Gribodo). Current status: *Hylaeus xanthopoda* (Vachal, 1895). Colletidae.
- xesis**, *Halictus* Vachal, 1911: 46–47: n. sp., 3♀, Type loc.: Peru, Callanga; Peru, Marcapata, Repository: MNHN (Vachal). Current status: *Augochlora* (*Augochlora*) *xesis* (Vachal, 1911). Note: [halicti hexagoni-falcati]. Halictidae.
- xystonotus**, *Halictus* Vachal, 1894: 436–437, 448: n. sp., 2♀, Type loc.: Myanmar, Palon, Pegu (leg. Fea). Current status: *Lasioglossum* (*Ctenonomia*) *xystonotum* (Vachal, 1894). Halictidae.
- xystris**, *Halictus* Vachal, 1911: 50: n. sp., 3♀, Type loc.: USA, SW, Repository: MNHN (Vachal). Current status: *Augochlorella persimilis* (Viereck, 1910). Note: [halicti hexagoni-falcati] ♂ published after ♀ and are not part of the type series. Halictidae.
- zophodes**, *Halictus* Vachal, 1911: 16: n. sp., 9♀, Type loc.: Mexico; Mexico, Orizaba (leg. [Biart]), Repository: MNHN (Sichel); ZMHB. Current status: *Augochlora* (*Augochlora*) *nigrocyanea* Cockerell, 1897. Note: [halicti hexagoni-falcati]. Halictidae.

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APPENDIX 1. Genus-group names for which Vachal proposed new species-group names, listed by genus as included by Vachal.

<i>Allodape</i> (Apidae)	<i>Lithurgus</i> (Megachilidae)
<i>Ancyloscelis</i> (Apidae)	<i>Lonchopria</i> Vachal (Colletidae)
<i>Andrena</i> (Andrenidae)	<i>Macrocera</i> (Apidae)
<i>Anomalon</i> (Ichneumonidae)	<i>Megachile</i> (Megachilidae)
<i>Anthidium</i> (Megachilidae)	<i>Megalyra</i> (Megalyridae)
<i>Anthophora</i> (Apidae)	<i>Melipona</i> (Apidae)
<i>Aphilanthops</i> (Sphecidae)	<i>Melitoma</i> (Apidae)
<i>Apista</i> (Colletidae)	<i>Meria</i> (Tiphidae)
<i>Bombus</i> (Apidae)	<i>Meteorus</i> (Braconidae)
<i>Bracon</i> (Braconidae)	<i>Nomia</i> (Halictidae)
<i>Camptopoeum</i> (Andrenidae)	<i>Nomioides</i> (Halictidae)
<i>Caupolicana</i> (Colletidae)	<i>Notiopimpla</i> Vachal (Ichneumonidae)
<i>Centris</i> (Apidae)	<i>Odynerus</i> (Vespidae)
<i>Ceratina</i> (Apidae)	<i>Omachtes</i> (Apidae)
<i>Chalcis</i> (Chalcididae)	<i>Omphalius</i> Vachal (Sphecidae)
<i>Chilicola</i> (Colletidae)	<i>Orphana</i> Vachal (Andrenidae)
<i>Cilissa</i> (Melittidae)	<i>Osmia</i> (Megachilidae)
<i>Coelioxys</i> (Megachilidae)	<i>Paniscus</i> (Ichneumonidae)
<i>Colletes</i> (Colletidae)	<i>Panurginus</i> (Andrenidae)
<i>Cremastus</i> (Ichneumonidae)	<i>Panurgus</i> (Andrenidae)
<i>Crocisa</i> (Apidae)	<i>Pasiphae</i> (Colletidae)
<i>Cryptus</i> (Ichneumonidae)	<i>Pison</i> (Sphecidae)
<i>Ctenoplectra</i> (Apidae)	<i>Pompilus</i> (Pompilidae)
<i>Diphaglossa</i> (Colletidae)	<i>Porizon</i> (Ichneumonidae)
<i>Dufourea</i> (Halictidae)	<i>Priocnemis</i> (Pompilidae)
<i>Epeolus</i> (Apidae)	<i>Prosopis</i> (Colletidae)
<i>Eriades</i> (Megachilidae)	<i>Psaenythia</i> (Andrenidae)
<i>Euaspis</i> (Megachilidae)	<i>Sceliphron</i> (Sphecidae)
<i>Eucera</i> (Apidae)	<i>Sigalphus</i> (Braconidae)
<i>Evagetus</i> (Pompilidae)	<i>Sphecodes</i> (Halictidae)
<i>Exothecus</i> (Braconidae)	<i>Tetrapedia</i> (Apidae)
<i>Halictus</i> (Halictidae)	<i>Xylocopa</i> (Apidae)
<i>Ichneutipterus</i> Vachal (Braconidae)	

APPENDIX 2. Genus-group names for which Vachal proposed new species-group names, listed by family.

Andrenidae: *Andrena*, *Camptopoeum*, *Orphana*, *Panurginus*, *Panurgus*, *Psaenythia*.

Apidae: *Allodape*, *Ancyloscelis*, *Anthophora*, *Bombus*, *Centris*, *Ceratina*, *Crocisa*, *Ctenoplectra*, *Epeolus*, *Eucera*, *Macrocera*, *Melipona*, *Melitoma*, *Omachtes*, *Tetrapedia*, *Xylocopa*.

Braconidae: *Bracon*, *Exothecus*, *Ichneutipterus*, *Meteorus*, *Sigalphus*.

Chalcididae: *Chalcis*.

Colletidae: *Apista*, *Caupolicana*, *Chilicola*, *Colletes*, *Diphaglossa*, *Lonchopria*, *Pasiphae*, *Prosopis*.

Halictidae: *Dufourea*, *Halictus*, *Nomia*, *Nomioides*, *Sphecodes*.

Ichneumonidae: *Anomalon*, *Cremastus*, *Cryptus*, *Notiopimpla*, *Paniscus*, *Porizon*.

Megachilidae: *Anthidium*, *Coelioxys*, *Eriades*, *Euaspis*, *Lithurgus*, *Megachile*, *Osmia*.

Megalyridae: *Megalyra*.

Melittidae: *Cilissa*.

Pompilidae: *Evaetes*, *Pompilus*, *Priocnemis*.

Sphecidae: *Aphilanthops*, *Omphalius*, *Pison*, *Sceliphron*.

Tiphiidae: *Meria*.

Vespidae: *Odynerus*.

APPENDIX 3. Genus-group names proposed by Vachal.

Acolpus (Sphecidae)

Chlerogas (Halictidae)

Ichneutipterus (Ichneumonidae)

Lonchopria (Colletidae)

Manuelia (Apidae)

Notiopimpla (Ichneumonidae)

Omphalius (Sphecidae)

Orphana (Andrenidae)

Paragapostemon (Halictidae)

Smithia (Colletidae)

Trilia (Halictidae)