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LIST OF HYMENOPTERA

COLLECTED BY

J. K. LORD, ESQ.

IN EGYPT,

IN THE NEIGHBOURHOOD OF THE RED SEA,

AND IN ARABIA.

WITH DESCRIPTIONS OF THE NEW SPECIES.

BY

FRANCIS WALKER, F.L.S.

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PREFACE.

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THE aspect of these regions indicates that they are especially adapted to Aculeate Hymenoptera, and the following list shows that Mr. Lord has made an extensive collection of them, and that he has discovered numerous new species, though many of this tribe were published by Klug in the work which is here often quoted. Mr. Frederick Smith, of the British Museum, has kindly arranged the specimens and has named many of the species already described.

Very few of the species here enumerated are natives of North Europe; several of them inhabit the Mediterranean region; others have a wider range, and extend to South Africa and to West Africa, or to Hindostan. The other tribes of Hymenoptera are very slightly traced, excepting the Chrysidæ and the genus Bracon. The Chrysidæ are well represented, and the coloured wings of these species of Bracon are significant of the great heat of their dwelling-place.

The Insects were found in the following localities:—

Egypt.

Cairo. Shoobra. Heliopolis. Red Mountain. Geezech Pyramids.

Africa, near the Red Sea.

Berenice. Souakin. Hor Tamanib. Massowah. Sheykh Berout. Akeek (Island). Harkeko. Dahleck (Island). Rafla (Annesley

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Bay). Tajura (Straits of Bab el Mandeb). Akceko (Arab village). Zayla (Indian Ocean).

Arabia.

Wady Gennèh. Wady Amara. Wady Sidri. Wells of Moses. Pharaoh's Baths. Wady Ferran. Wady Nash. Wady-es-Shekh. Tôr. Wady Gharandel. Wady Hebran. Plain of Ramleh. Gebel Musa, Mount Sinai. Gardens round Mount Sinai. Sandy Plain, Mount Sinai. Convent garden, Mount Sinai. Wady Atall.

LIST

OF

EGYPTIAN AND ARABIAN HYMENOPTERA.

Fam. EVANIIDÆ.

Genus FOENUS, *Fabr.*

1. FOENUS JACULATOR? *Ichneumon jaculator*, *Linn. Syst. Nat.* ii. 937.

The specimen here recorded is mutilated.

Tajura.

Inhabits Europe.

Fam. ICHNEUMONIDÆ.

Subfam. CRYPTIDES.

Genus CRYPTUS, *Fabr.*

2. CRYPTUS LEUCOPYGUS. *Female*.—Red, stout, very finely punctured. Head transverse, a little broader than the thorax. Antennæ black, much shorter than the body, with a broad white band beyond the middle. Thorax with two nearly parallel furrows; scutellum small, nearly smooth. Metathorax scabrous, large. Abdomen piceous, as long as the thorax; petiole widening from the base to the hind border: tip white. Oviduct black, about half the length of the abdomen. Legs piceous; hind tibiæ white at the base. Wings cinereous; veins black. Fore wings with a black stigma; intermediate cubital areolet minute, tetragonal. Length of the body 4 lines.

Allied to *C. minutorius*, *Fabr.*, and to *C. bimaculatus*, *Grav.*; distinguished from the former by the red head, from the latter by the unspotted wings.

Cairo.

32. *CHRYSIS MULTICOLOR*. *Male*.—Purple, thickly punctured, with cinereous pubescence. Head green in front. Antennæ black; first joint green. Scutum black between the two distinct parallel furrows. Metathorax with a stout spine on each side of the hind border. Abdomen cupreous, with a slight keel and with three large segments; first segment, and the hind borders of the second and third segments, golden green; hind border of the third segment golden green; under side purple, partly blue and green. Legs bluish green; tarsi black. Wings cinereous; veins black. Length of the body 5 lines.

Wâdy Ferran.

Female.—Bluish green. Head purple about the hind border; triangle of the ocelli black. Antennæ black; first joint bluish green. Scutum purple between the two parallel furrows. Abdomen cupreous; first segment golden green; under side green. Legs green; tarsi tawny. *Var. β*.—Golden green. Scutum black between the two parallel furrows. Abdomen as in *Var. α*, except the disk of the first segment, which is cupreous. Tarsi picceous. Length of the body 3—3½ lines.

Wâdy Ferran.

33. *CHRYSIS ELECTA*. *Male*.—Golden green, with cinereous pubescence, thickly punctured. Head with silvery pubescence on each side in front. Scutum purple between the two parallel furrows. Metathorax with a stout tooth on each side of the hind border. Abdomen with three large segments and with an extremely slight keel; second and third segments blue about the fore border; hind border of the third with four teeth. Legs green; tarsi picceous, pale testaceous at the base. Wings pellucid; veins black. *Var. β*.—Tarsi wholly picceous. Length of the body 4—4½ lines.

Wâdy Ferran.

34. *CHRYSIS COMMUNIS*. *Male and female*.—Green, with cinereous pubescence, thickly punctured. Antennæ black; first joint green. Scutum bluish green; the two parallel furrows well defined. Hind border of the metathorax with a stout spine on each side. Abdomen with three large segments and with an extremely slight keel; hind border of the third segment quadridentate. Tarsi black. Wings cinereous; veins black. *Var. β*.—Bluish green. *Var. γ*.—Purplish blue. Length of the body 2½—3 lines.

Wâdy Ferran. Tajura.

Walker, F. 1871. A list of Hymenoptera collected by J. K. Lond, Esq in Egypt, in the neighbourhood of the Red Sea, and in Arabia, with descriptions of the new species. London: E. W. Janson, 59 pp.

ARABIAN HYMENOPTERA.

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Genus PYRIA, *Lep. et Serv.*

35. PYRIA SMARAGDULA, *Lep. et Serv. Enc. x. 494*

Wady Ferran.

Inhabits Egypt and Senegal.

Gen. HEDYCHRUM, *Latr.*

36. HEDYCHRUM STILBOIDES. *Male and female.*—Blue, punctured, with cinereous pubescence, partly purple and green. Antennae black; first joint blue. Eyes piccous. Metathorax twice as broad as long, with a stout spine on each hind angle. Abdomen with three large segments, bidentate at the tip. Tarsi piccous. Wings blackish; veins black. Length of the body $3\frac{1}{2}$ — $4\frac{1}{2}$ lines.

Cairo.

ACULEATA.

Tribe HETEROGYNA.

Fam. FORMICIDÆ.

Genus FORMICA, *Linn.*

37. FORMICA ÆQUALIS. *Female.*—Luteous, thinly setose. Head somewhat broader than the thorax; clypeus with long setæ. Eyes black, elliptical. Mandibles very acute, black towards the tips, crossing each other transversely. Palpi long, slender. Petiole of the abdomen with a stout lanceolate upright spine. Abdomen elliptical, rather broader than the thorax. Legs slender, rather long. Length of the body 4 lines.

Wady Nash.

Genus CAMPONOTUS, *Mayr.*

38. CAMPONOTUS LIGNIPERDA. *Formica ligniperda, Latr. Hist. Nat. Fourm. 88.*

Wady Ferran. Mount Sinai.

Inhabits Europe.

39. CAMPONOTUS SERICEUS. *Formica sericea, Fabr. Ent. Syst. Supp. 279.*

Mount Sinai.

Inhabits West Africa.

40. *CAMPONOTUS PILÆOGASTER*. *Neuter*.—Tawny, smooth, with silvery cinereous tomentum. Head very much broader than the thorax. Eyes small, black, elliptical, slightly prominent. Mandibles long, slender, acute, black towards the tips. Antennæ picceous towards the tips. Prothorax and mesothorax conical, the former much broader than the latter. Metathorax subquadrate, a little broader than the mesothorax. Petiole forming a high transverse ridge. Abdomen picceous, elliptical, much shorter than the thorax. Legs long, slender. Length of the body 4 lines.

Wâdy Ferran.

Genus *CATAGLYPHIS*, *Foerst.*

41. *CATAGLYPHIS VIATICA*. *Formica viatica*, *Fabr. Ent. Syst. ii.* 356.

Wâdy Amara. Mount Sinai.

Inhabits Europe.

42. *CATAGLYPHIS BICOLORIFES*. *Female*.—Red. Head minutely punctured, much broader than the thorax. Eyes black, small, prominent, nearly round. Ocelli approximate, forming a triangle on the vertex. Palpi long, slender. Antennæ blackish, slender, more than half the length of the body; first and second joints red. Petiole nodose or gibbous above. Abdomen black. Legs tawny, long, slender; coxæ, trochanters and femora black, tips of the latter tawny. Length of the body $2\frac{1}{4}$ lines.

Cairo.

Fam. *ATTIDÆ*.

Genus *APHÆNOGASTER*, *Mayr.*

43. *APHÆNOGASTER STRUCTOR*. *Formica structor*, *Latr. Hist-Nat. Fourm.* 236.

Cairo. Wells of Moses.

Inhabits Europe.

44. *APHÆNOGASTER DEBILIS*. *Neuter*.—Black, slender. Head large, nearly twice the breadth of the thorax. Eyes small, flat, nearly round. Antennæ subclavate, a little more than half the length of the body. Thorax dark red. Petiole binodose, or forming two humps above, the anterior hump higher than the posterior one. Abdomen nearly oval, slightly convex, nearly twice the breadth of the thorax, truncate at the tip; first segment occupying nearly the whole surface. Legs long, very slender. Length of the body

1½ line. *Female*.—Antennæ and legs testaceous, the former black at the base. Wings whitish: veins pale testaceous. Length of the body 2 lines.

Pharaoh's Baths.

45. *APHENOGASTER PALLESCENS*. *Female*.—Black, shining. Head tawny about the mouth. Eyes flat. Antennæ, abdomen and legs testaceous. Antennæ short, subclavate. Petiole with two humps, like those of *A. debilis*. Abdomen more than twice the breadth and nearly twice the length of the thorax. Wings whitish, long; veins testaceous. Length of the body 2¼ lines.

Cairo.

Fam. MUTILLIDÆ, *Smith*.

Genus MUTILLA, *Linn*.

46. *MUTILLA AUREIVENTRIS*. *Male*.—Black. Head, thorax and legs clothed with silvery hairs. Head and thorax thickly punctured. Prothorax and mesothorax red. Abdomen luteous, clothed with gilded hairs. Wings bluish black. Length of the body 8 lines.

Hor Tamanib.

Genus APTEROGYNA, *Latr*.

47. *APTEROGYNA OLIVIERI*, *Latr. Gen. Ins.* iv. 122.

Pharaoh's Baths.

Fam. SCOLIIDÆ.

Genus MYZINE, *Latr*.

48. *MYZINE GUERINÆI*, *Lucas, Expl. Sci. Alg.* iii. 284, pl. 15, f. 6.

Cairo.

49. *MYZINE FLAVICOLLIS*. *Female*.—Black, clothed with short white hairs. Head and thorax thickly and minutely punctured. Head yellow about the mouth. Antennæ red beneath. Prothorax; a spot on the scutum, disk of the scutellum, tegulae of the fore wings and a large spot on each of the pleuræ yellow. Metathorax with two yellow dots on the base. Abdomen with seven entire yellow bands above and beneath, the seventh apical. Aculeus curved upward. Legs yellow; femora above with an abbreviated black stripe. Wings pellucid, veins black, pale yellow at the base. Fore wings with a tawny stigma. Length of the body 5 lines.

It differs from *M. Oraniensis* by the abdomen being not red at the base.

Wady Gennéh.