Short communication

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A New Species Of Genus *Callogryllu S*jostedt (Gryllidae: Orthoptera) From Sindh, Pakistan

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Abstract: *Callogryllus saeedi* is described as a new species from Sindh, Pakistan.

Keywords: Gryllidae, *Callogryllus saeedi*, new species, Sindh.

1. INTRODUCTION

The Gryllidae (sensu stricto), includes the field, house, ground, and short- tailed crickets. They constitute the principal family of the Grylloidea, distinguishable from other members of the superfamily by these characters; size variable, from rather small to very large (4.5-50 mm) coloration generally blackish, brownish or tawny; head generally globular; antennae inserted above the middle of the face; hind tibia strongly spined, without saw-like denticles between spines; tarsi with second segment compressed; wings usually moderately well to fully developed, though often reduced, male tegmina mostly broad, with well developed basal stridulatory apparatus;. Ovipositor needle like with the apex slightly enlarged, but without obvious denticles. About 800 species, and nearly over 100 genera, having together an almost worldwide distribution are known. Abdullah (1955) identified 13 species of Gryllidae from Faisalabad (at that time Lyallpur). Chopard (1969) described the species belonged to the 12 families of Grylloidea from Pakistan.

According to Saeed *et al.* (2000), only one species of genus *Callogryllus* occurs in Pakistan (Peshawar). Presently, a new species namely *Callogryllus saeedi* is described from southern Sindh.

Diagnosis:

This species is closely related to *Callogryllus ovilongus.* Differs by the presence of dark transverse band between compound eyes and antennae **(Fig 1a and 1b).** Venation of elytra different as compared to *Callogryllus ovilongus* (**Fig.2a and 2b).** Pronotum large in size, ovipositor slightly smaller compared to *C.ovilongus.*



Fig. 1a*: C. saeedi* sp.n.

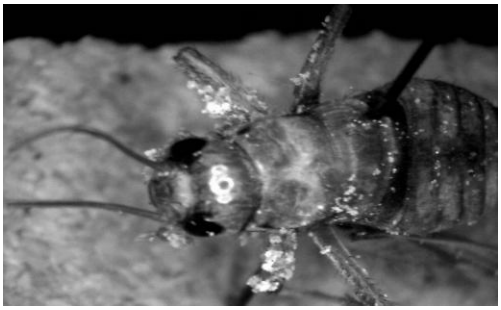


Fig. 1b*: C. ovilongus*

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Fig. 2a: Elytra of *C. saeedi* sp.n.

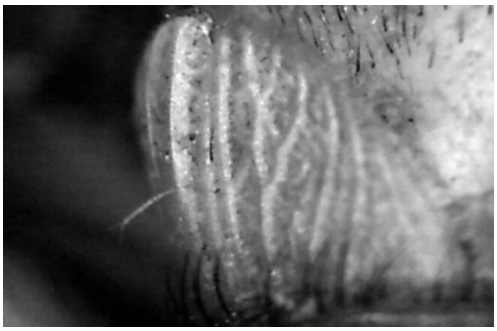


Fig. 2b: Elytra of *C. ovilongus*

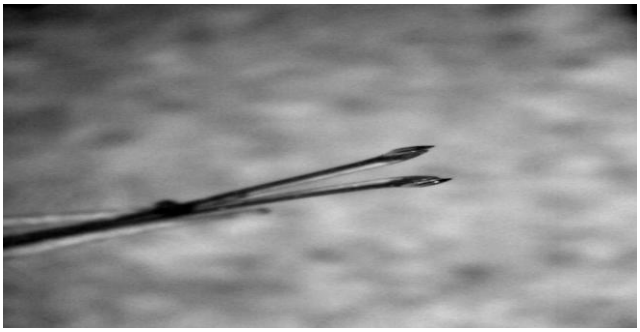


Fig. 3: Ovipositor of *C. saeedi*. sp.n.

Description of Holotype Female:

Size small (14 mm); head rounded, shining black- above; occiput with 4-6 obsolete lines; face yellowish; maxillary palpi pale; antennae filiform yellow in color; a dark color transverse band present between the compound eyes; Pronotum well developed, anterior margin concave; bristles present on anterior as well on posterior margin, dark band present on posterior margin, piriform depression is present in the middle; disk yellowish; legs coloration is same as the body; posterior tibiae with 4-5 internal and 5-6 external spines; posterior basi tarsi with 5-4 internal denticles elytra short. Abdomen yellowish brown; tapering posterior black spots present in the middle region as well as on the lateral sides. Ovipositor slender, with acute narrow apical valves **(Fig. 3).**

Male:

Not available.

Measurements in millimeter (mm)

Female (n=05)

Parameters	Holotype n= 01	Paratype n=04
Length of body	14.1	16±2.30
Length of Pronotum	4.2	5±1.12
Width of Pronotum	5.0	5±1.12
Width of Head	4.5	4.7±1.56
Hind femur Length	8.9	11.2±1.93
Hind tibia length	7	9±1.73
Ovipositor length	13.2	14±2.16

2. MATERIALS EXAMINED

Hyderabad 2♀♀ 6-IX-2008; Kotri 1♀ 17-VII -2010 Tandojam 2♀♀ 20-X-2010.

Etymology:

This new species is named in the honor of my (Malik Samina) late father Muhammad Saeed Malik who taught me to get the degree for the sake of knowledge and not for the sake of benefits.

Repository:

Type material is deposited in the museum, Department of Zoology, Sindh University Jamshoro. Pakistan.

REFERENCES:

Abdullah, M., (1955) Gryllidae of Lyallpur. M.Sc. Thesis, Univ, Punjab.

Chopard, L. (1969) The fauna of India and adjacent countries, *Orthoptera*, Gryllidae. Zool. Surv. India, Calcutta, Vol. **(2):** 421Pp.

Saeed A. (2000) New Species and Records of some Crickets (Gryllinae: Gryllidae: Orthoptera) from Pakistan. *Int. J. Agri. Biol*., Vol. **(2):** No. 3. 234-238