

Description new Species of the Spider *Hasarius Adansoni* (AUDOUIN 1826) (ARANEAE: SALTICIDAE)

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ABSTRACT

A new species of the spider *Hasarius adansoni* sp.nov, was described for the first time in Iraq which are collected from Baghdad from Dora city .This *Hasarius adansoni* is a genus of jumping spiders have eight eyes with long legs covered in spines and hair the male *Hasarius adansoni* spiders are black in color with white crescents in their body crescent is present on the back part of the head, and another one on the front part of the opisthosoma and pedipalps that are partly white male *Hasarius adansoni* have two small white dots on the posterior back and two even smaller ones towards the end whereas the female *Hasarius adansoni* spiders are dark brown in color and crescent is present on the back part of the head with a lighter and somewhat rufous opisthosoma.

Keywords: Crescent, Epigone, Pedipalps, Salticidae, Silk

INTRODUCTION

The spider family Salticidae, commonly known as Jumping Spiders the Family Salticidae have 600 genera and 6000 species, and this is worldwide group of spiders and they are found in warmer climates around the world.(3,19), These spiders are relatively small they are brightly colored with reds, whites and even green, have able to jump distances more than 10 to 40 times their body length. Jumping spiders are recognized by their eye pattern have four pairs of eyes, with the anterior median pair being particularly large. (4,5)

MATERIAL AND METHODS

Study sites: The spiders collected from Baghdad (Dora city). in 2021,14 Dec. at Dora, study sites from green land; garden or shed and in morning time with temperature 12-17 c and humidity 57%; easiest way to catch a spider is to place a tube or bottle beside it and then gently push in the spider with a stopper. (5)

Identification and Preservation of Specimens: At first we kill and put the specimen in freezer for 6 hours then dead specimens were transferred in to 70-80% alcohol (either ethyl alcohol or isopropyl alcohol) and add 5% glacial ethanoic acid to the alcohol helps extend the limbs (20) later identification to the family, genus and spices. (5,6, 7, 8, 9,15). This specimen was examined under dissecting microscope(20x) and compound microscope(10x), photographed using camera with resolution of 10 pixel.

RESULTS

Hasarius adansoni (Audouin, 1826)

Widely distributed Africa, Middle East, Americas, Europe, Australia and Asia are found in warmer climates around the world

Taxonomy

Kingdom	Animalia		
Phylum	Arthropoda		
Subphylum	Chelicerata		
Class	Arachnida		
Order	Araneae		
Family	Salticidae	Blackwall, 1841	jumping

spiders.(10,11,15)

Identification Salticidae Blackwall, 1841 Jumping Spiders

Color Usually black, sometimes brown, tan, or gray, and usually with pale markings jumping spiders are identified by their compact robust body and four large front-facing eyes, Legs They have 8 legs, Shape Compact with relatively short legs, Size adult body length.(1, 2,12)

Description Genus *Hasarius* Simon, 1871

Dark or bright vertical stripes. Opisthosoma with dark or bright spots .Carapace: Length: longer than wide. Chelicera: Base furrow teeth number eye rows three Length: wider than long. Sternum: width Anterior border narrower than Labium General shape: elongated Leg formula: 4-3-1-2. Tarsus I: tarsal claws with short teeth. Spination pattern .(6, 13, 14).Distribution: Europe. South

America. North America. Afrika. Eastern Europe & Asia. Australia & South Pacific. Middle East.Plate(1-5)

Description *Hasarius adansoni* (Audouin, 1826)

Males *Hasarius adansoni* are mostly black, with a red "mask" and pedipalps that are partly white. A white crescent is present on the back part of the abdomen, and another one on the front part of the opisthosoma. .Male Cephalothorax is U- shaped, dark brown in colour, Opisthosoma posteriorly with 2 round, white spots. different size male pedipalp tibia as long strikingly white haired, Legs are stout and possess thick hairs. Whitish hairs are present in the joints , epigyne and cheliceral furrow margin .plate(1-3).

Females *Hasarius adansoni* length 7.0 -9.5 millimeters, males 4.0 -7.6 millimeters Females are dark brown, and crescent is present on the back part of the head with a lighter and somewhat rufous opisthosoma. Legs are long and covered with spines with irregular dark lines or, brow.plate(4,5)

Dissection: The *Hasarius adansoni* (Adanson's house jumper) belongs to class Arachnida is naturally an active hunter they have eight eyes with long legs covered in spines and hair(15, 16). It's a fact that a *Hasarius adansoni* bite is harmless to humans even though it is venomous, just wash and disinfect the bitten area properly and you'll be fine.(17,18), male *Hasarius adansoni* spiders are black in color with white crescents in their body crescent is present on the back part of the head, and another one on the front part of the opisthosoma and pedipalps that are partly white male *Hasarius adansoni* have two small white dots on the posterior back and two even smaller ones towards the end whereas the female *Hasarius adansoni* spiders are dark brown in color and crescent is present on the back part of the head with a lighter and somewhat rufous opisthosoma.

Hasarius adansoni unlike other species, does not spin webs but makes little silk shelters where they live and wait for their prey. *Hasarius adansoni* lifespan is about six months to three years.(19,20)



Plate 1: Male *Hasarius adansoni* (Facial view)



Plate 2: Male *Hasarius adansoni* (ventral view)



Plate 3: Male *Hasarius adansoni* (dorsal view)



Plate 4: Female *Hasarius adansoni* (ventral view)



Plate 5: Female *Hasarius adansoni* (dorsal view)

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