The following figures illustrate various aspects of the proposed INOTAXA prototype implementation. They are designed as indicative only, and should not be taken as accurate representations of the final screens. Detailed screen design will take place before the prototype is released. The figures illustrate the document “Prototype Functionality: INOTAXA - Mesoamerican Portal”.
Fig. 1

INOTAXA
Mesoamerican Portal

Search Biota of MesoAmerica

select one or more choices from each list below and enter one or more search terms:

select taxon/taxa:
all

select region(s):
all

select work(s):
all

select context:
all

enter term(s):

SEARCH

IMAGE SEARCH ADVANCED SEARCH BROWSE TAXON TREE BROWSE GEOGRAPHIC TREE

Previous search: [none]
Fig. 2. Selection lists (incomplete) for selection boxes in Fig 1.

Fig. 2a. ‘select taxon’

Fig. 2b. ‘select region’

Fig. 2c. ‘select work’

Fig. 2d. ‘select context’

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**Fig. 2. Selection lists (incomplete) for selection boxes in Fig 1.**

<table>
<thead>
<tr>
<th>Taxon Name</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>all plants</td>
<td>all</td>
</tr>
<tr>
<td>all animals</td>
<td>all</td>
</tr>
<tr>
<td>insects</td>
<td>all</td>
</tr>
<tr>
<td>mammals</td>
<td></td>
</tr>
<tr>
<td>birds</td>
<td></td>
</tr>
<tr>
<td>fish</td>
<td></td>
</tr>
<tr>
<td>reptiles</td>
<td></td>
</tr>
<tr>
<td>amphibians</td>
<td></td>
</tr>
</tbody>
</table>

---

**Authors and works mentioned:**

- Biologia Centrali-Americana
- Flora Mesoamericana
- Weitzman: Ternstroemiaceae (2005)
- Weitzman: Theaceae (2005)
- Kobuski: Theaceae (1939-1955)
Meso and meta femora enlarged...

Attelabus L. – key – Sharp, 1899, p. 2
Anterior femora without teeth or spines.
(Attelabus, auct)

Attelabus vinosus Sharp – treatment – Sharp, 1899, p. 5
The front femora are entirely unarmed.
Sharp, 1899, BCA, Coleoptera Volume 4, Part 3 pp2, 4, 5, 11, 12, 13

**Key to *Attelabus***

I. Anterior femora without teeth or spines. .......................... (*Attelabus, excl*)
   A. Eyes very widely separated, the space between them not carinate; spines of the anterior tibiae of the female placed one in front of the other. ........................................ (Piloelaspis, Jakal.)
      *Attelabus diffinis*  
      *Attelabus kluwi*  
      *Attelabus nigritifera*  
      *Attelabus smithi*  
      *Attelabus solenops*  
      *Attelabus surpluvius*  
      *Attelabus virgatus*

   B. Eyes only moderately distant, the space between them carinate, surface pubescent; spines of the anterior tibiae of the female placed one above the other.................................................. (Himatoelaspis, Jakal.)
      *Attelabus axilis*  
      *Attelabus cedus*  
      *Attelabus vestitus*  
      *Attelabus virgatus*

   C. Eyes but little separated, the space between them sulcate or carinate, surface without pubescence...... (Xestoeleus, Jakal.)
      *Attelabus — ?*  
      *Attelabus angulipennis*  
      *Attelabus brevicollis*  
      *Attelabus coelebs*  
      *Attelabus crocea*  
      *Attelabus curvipes*  
      *Attelabus heterocerus*  
      *Attelabus laeviscula*  
      *Attelabus latipennis*  
      *Attelabus longispina*  
      *Attelabus melanopus*  
      *Attelabus meleagris*  
      *Attelabus quadricus*  
      *Attelabus segetis*

II. Anterior femora irregularly serrate; form extremely short and broad. .................................................. (Hyloelaspis, Jakal.)

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**Fig. 5**
10. *Attelabus vinosus*, sp. n.

Rufo-obscures, pube pallescente sat dense vestitus; prothorace elytrisque fortius sculpturatis; scutello subquadrato, haud transverso.

Long. 5.5 millim.

Hab. MEXICO, Totosinapam, Capulalpam (Sallé), Jalapa (Höge); GUATEMALA, Quiche Mountains 7000 to 8000 feet (Champion).

Closely allied to *A. vestitus*, but distinguished by the dark vinous-red colour and the much more evident sculpture. The sexual distinctions, except in the front legs, are slight. The rostrum is quite short, thick, the head broad, the eyes placed nearly midway between the front of the thorax and the mouth. The thorax is rather coarsely and irregularly sculptured, without any transverse groove. The elytra are even, scarcely at all depressed behind the scutellum, rather coarsely and irregularly sculptured, the striation quite visible. The front *femora* are entirely unarmed.

A specimen of this species in Sallé’s collection from Sturm’s cabinet is labelled *A. cinnamomeus*, Sturm; but as this name is not a suitable one - being much more applicable to the closely allied *A. vestitus* - I have not used it. The four Mexican examples before me are all in a bad state of preservation; the description therefore is taken from the Guatemalan exponents, six in number.
Apterocolus Sharp

Apterocolus Sharp, 1890: 44

Type species: Apterocolus gravidus Sharp

Generic description. – Moderate sized species (length 3.7 mm-5.1mm), body compact-ovate, black to bluish-black. [rest of description not entered into example, but text would continue to end of taxon treatment, with “metafemora” in bold.]
Fig. 8

Biota of MesoAmerica: Image Search

The search may be limited by selecting one or more geographic region(s):

select region(s):

enter taxon name

Pilolabus viridans

SEARCH

Previous search: [none]
Fig. 8a

Pilolabus viridans

Pilolabus viridans
Please enter the name of the geographical area or place within which you wish to start browsing. If you do not enter a browse term the tree will open at ‘World’.

On selecting a tree, branches can be opened to reveal place names lower in the geographical hierarchy. Branches at each geographical level will lead to data “for [placename]” where no more detailed geographical information is available, or “within [placename]” where more detailed information is associated with the data.

Data accessible through the tree are:
1. Taxa;
2. Collectors;
3. Specimens (data not available at all levels);
4. Geographic detail
INOTAXA
Mesoamerican Portal

Biota of MesoAmerica:
Browse Geographic Tree

enter a starting place name: Mexico

Start browse

There are several possible locations. Please select one:

Mexico [Country]
Mexico, Mexico [State]
Mexico City, Mexico [City]
Mexico, Mexico [unspecified]

IMAGE SEARCH  SIMPLE SEARCH  ADVANCED SEARCH  BROWSE TAXON TREE

HOME  BACK
Fig. 13
BUGABA, Settlement on the Pacific slope about 22 km. northwest of David; 1000 feet; 8° 28', 82° 38'. The locality is sometimes cited erroneously as in Nicaragua.
Please enter the name of the taxon within which you wish to start browsing. If you do not enter any taxon you will see the root of the BCA tree.

Buttons will appear to enable you to select between classifications, if more than one is available.

On selecting a tree, branches can be opened to reveal lower or higher taxa, and any treatments available.

Buttons enabling comparison of the selected tree with other classifications will appear beneath the alternate classification buttons.
Fig. 22: Screen capture of a Flora Mesoamericana search interface showing a taxonomic tree and geographical distribution.
Please enter the name of the taxon within which you wish to start browsing. If you do not enter any taxon you will see the root of the BCA tree.

Buttons will appear to enable you to select between classifications, if more than one is available.

On selecting a tree, branches can be opened to reveal lower or higher taxa, and any treatments available.

Buttons enabling comparison of the selected tree with other classifications will appear beneath the alternate classification buttons.
Please select one classification and a tree will appear.

On that tree, branches may be opened to reveal lower or higher taxa, and any treatments available.

Buttons enabling comparison of the selected tree with other classifications will appear along with alternate classification buttons.
Fig. 28

Curculionidae

Alonso-Zarazaga & Lyal (1999) classification
O'Brien & Wibmer (1982) classification
BCA classification

Compare Tree
Compare Tree

Curculionidae

Mesoamerica: Mexico

Specimens
From Collections
- Mexico (BMNH) 2
- Mexico (NRS) 5
- Sharp, 1888 p.3
- Mexico
- Mexico, Parada

Synonymy

Treatments
- Sharp, 1888 p.3
- Attelabus laesicollis
- Attelabus liouatus

Browse Taxon Tree
starting taxon Curculionidae

Other Treatments:
- BCA classification
- O'Brien & Wibmer (1982) classification
- Compare Tree
- Compare Tree
Browse Taxon Tree
starting taxon
Curculionidae

BCA classification
O'Brien & Wibmer (1982) classification
Compare Tree
Alonso-Zarazaga & Lyal (1999) classification
Compare Tree

Curculionidae

Allocation mollis

Distribution
Specimens
Treatments

Sharp, 1890 p.46
Mexico, Chiapas, Tapachula
Mexico, Durango, Ventanas

Treatments

Sharp, 1890 p.45 subfam.n.

Apioninae
Atelabinae
Calandrinae
Curculioninae
Otiorychchine
Pterocollinae
Rhychnitinae
Thecesterninae
Scolytidae
Fig. 34a. Fields represented in drop down list “select a field to search” on the Advanced search panel in Fig. 33.

Additional fields will be added in a more detailed specification.

Fig. 34b. Fields represented in each of the drop down lists “Order by” and “then by” on the Advanced search panel in Fig. 33.

The term ‘date’ refers to date of collection when used with a collector, but date of publication when used with a species (treatment date).

Additional terms may be added in a more detailed specification.
Fig. 35. Advanced search panel for a non-indexed field, with search term entered.
Biota of MesoAmerica: Advanced Search

Build a search using available fields, values, and boolean operator(s):

select a field to search: Collector

select term: Schiede

Order by:
- taxon
- geography
- collection date

Previous search: [none]

Fig. 36. Advanced search panel for an indexed field, with term and operator selected (adding an operator brings up an additional row of fields to select/add to).
Ophryastes – Key Sharp, 1899 p. 88 (2)....Genera Ophryastes, Tosastes, Caccophryastes, and...imperfectly cavernous. Ophryastes. Ophryastes Sharp, 1899 p. 88 (4) Ophryastes...Ophryastes (part)....Ophryastes, Leconte & Horn...Ophryastes is peculiar...

Ophryastes – Treatment Sharp, 1899 p. 88 Ophryastes wickhami, sp.n.
Ophryastes – Treatment Sharp, 1899 p. 89 1. Ophryastes latipennis, sp.n.
Ophryastes – Treatment Sharp, 1899 p. 89 2. Ophryastes strumosus....
Ophryastes – Treatment Sharp, 1899 p. 90 4. Ophryastes bitubrosus, sp.n....importance in Ophryastes – I think....
Ophryastes – Treatment Sharp, 1899 p. 90 5. Ophryastes ovipennis, sp.n.
Ophryastes – Treatment Sharp, 1899 p. 90 6. Ophryastes validus......
Fig. 41a. Occurrences of ‘Ophryastes’ in BCA v.4.pt.3

Apion oscillator Sharp; Sharp, 1899
Barynotus obliquefasciatus Sturm; Sharp, 1899
Auletobius optatus Sharp; Sharp, 1899
Auletobius optatus Sharp, 1899
Cloeoteges obliteratus Champion; Sharp, 1899
Cloeoteges obliteratus Champion; Sharp, 1899
Cloeoteges obliteratus Sharp, 1899
Curculio greaviyi obliteratus Pelsue, 2004
Curculio octotuberculatus F.; Sharp, 1899
Epagrius operculatus Say; Sharp, 1899
Epagrius operculatus Sharp, 1899
Epagrius operculatus Sharp, 1899
Graphorhinus operculatus Say; Sharp, 1899
Epagrius operculatus Sharp, 1899

Fig. 41b. Drop-down list of species/subspecies in the ‘choose term’ combo box with just the letter ‘o’ entered.
Fig. 43

Advanced Search:
- select one or more choices below:
  - REFIN
  - PREVIOUS
  - START
  - NEW
- select field:
- enter/choose term:
- select operator:
- SEARCH
- order by:
- then by:
- IMAGE SEARCH
- SIMPLE SEARCH
- BROWSE TAXON TREE
- BROWSE GEOGRAPHIC TREE

Previous search:
Detailed location equals “Alvares”; order by “geography” then by “treatment author” then by “publication date”

OTHER TREATMENT(S)
- KEY(S) WITHIN TAXON
- KEY(S) TO TAXON
- DISTRIBUTION MAP
- SPECIMEN(S)
- TOGGLE TO PDF
- TOGGLE TO JPEG
- IMAGE(S)
- GAZETTEER
- SEARCH HUH BOTANISTS
- SEARCH Flora Mesoamericana
- SEARCH GBIF
- SEARCH GOOGLE
- SEARCH GOOGLE IMAGES
- HOME
- BACK

Done
Selander & Vaurie, 1962, A Gazetteer to Accompany the "Insecta" volumes of the "Biologia Centrali-Americana"

ALVARES MOUNTAINS. See Alvarez Mountains

ALVAREZ MOUNTAINS, SAN LUIS POTOSI, MEXICO. A Palmer locality name, probably referring to the low mountains east of the city of San Luis Potosi. In this area there are a railroad station and settlement of Alvarez 35 km. southeast of the city and a village of Alvares 29 km. east of the city. The state is not given in the "Biologia"; Champion (Coleoptera, vol. 4, pt. 2, p. 425) indicates that the locality is in northern Mexico.
Fig. 45

Treatment author Sharp
- Rhynchites chiquensis Sharp
  - Sharp, 1889 p.22
- Rhynchites flaviventris Sharp
  - Sharp, 1889 p.23
- Rhynchites pusillus Sharp
  - Sharp, 1899 p.22
- Rhynchites rufiventris Jekel
  - Jekel, 1899 p.23
- Rhynchites thesaurus Sharp
  - Sharp, 1899 p.22
  - Sharp, 1889 p.16
Fig. 46

Advanced Search:
select one or more choices below:
- REFINE
- PREVIOUS
- START
- NEW

select operator:
select field:
enter/choose term:
select operator:

SEARCH
order by:
then by:

IMAGE SEARCH
SIMPLE SEARCH
BROWSE TAXON TREE
BROWSE GEOGRAPHIC TREE

Previous search:
Taxon author equals "Sharp"; order by "taxon name"

OTHER TREATMENT(S)
KEY(S) WITHIN TAXON
KEY(S) TO TAXON
DISTRIBUTION MAP
SPECIMEN(S)
TOGGLE TO PDF
TOGGLE TO JPEG
IMAGE(S)
GAZETTEER
SEARCH HUH BOTANISTS
SEARCH GBIF
SEARCH GOOGLE
SEARCH GOOGLE IMAGES
HOME
BACK

Done
Fig. 49

Advanced Search:
- select one or more choices below:
  - Taxon name
  - Treatment author
  - Publication date

Select operator:
- select field:
  - Taxon name
  - Treatment author
  - Publication date

Search:
- order by:
  - Taxon name
  - Treatment author
  - Publication date

Refine:
- Previous search:
  - Treatment author equals "Sharp" or "Jekel"; order by "taxon name"

Other treatment(s):
- Key(s) within taxon
- Key(s) to taxon
- Distribution map
- Specimen(s)
- Toggle to PDF
- Toggle to JPEG
- Image(s)
- Gazetteer
- Search HuH Botanists
- Search Flora Mesoamericana
- Search GBIF
- Search Google
- Search Google Images

Home  |  Back

Taxon Author Sharp
- Rhynchites Herbst
  - Rhynchites chiriquensis Sharp
    - Sharp, 1889 p.22
  - Rhynchites flaviventris Sharp
    - Sharp, 1889 p.23
  - Rhynchites pusillus Sharp
    - Sharp, 1899 p.22
  - Rhynchites thesaurus Sharp
    - Sharp, 1899 p.22
Search criteria incomplete, please continue to build search
INOTAXA information delivery

Portable access

CD/DVD ROM
Removable storage
Wireless Access

Laptop
Palm pilot
Mobile phone