iDigPaleo
Fossil insect discovery, research, and educational outreach

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iDigPaleo ≠ iDigBio

iDigPaleo ≠ “Paleontology version of iDigBio”
Your Data

iDigPaleo

iDigBio
TCN: Fossil Insect Collaborative: A Deep-Time Approach to Studying Diversification and Response to Environmental Change

- Lead: University of Colorado Museum of Natural History - Smith (also now STEPPE GSA) and Karim
- YPM: Butts and Norris
digitize and make available all the major collections of fossil insect specimens in the United States

Research Goals

- understand response to environmental change and patterns of biodiversity through time

- phylogenetic reconstruction, evolution of morphological characteristics, and studies of overall patterns of diversification in deep time
- aggregate FIC data for iDigBio
- educational resources for fossil insects
- central resource to interact with bio and geo cyberinfrastructure initiatives
News

Society for the Preservation of Natural History Collections Annual Meeting

More

Featured Fossils

Curculionidae (CUMNH UCM 39414)
Login

E-MAIL ADDRESS   susan.butts@yale.edu

PASSWORD

Login

Click here to register
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undet. Tipulidae, feather on slab with
True flies, Mosquitoes and Gnats

YPM IP 522423
Yale Peabody Museum of Natural History

TAXONOMY
Animalia > Arthropoda > Insecta > Diptera > Tipulidae > Family

LOCALITY
North America > USA > Colorado > Garfield County > N end of Radar Dome
This image is scaled at 1mm = 5% of width.
To change scale enter the length with units (mm, cm, m, km, in, ft, miles, etc.) of the currently selected measurement below.

Length: 5 mm

wingspan

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ADD ITEM TO ASSIGNMENT

Rio Blanco Field Trip

Select a assignment

Rio Blanco Field Trip

OR

CREATE A NEW ASSIGNMENT

NAME

Your assignment

DESCRIPTION

SAVE
Tools in development
- Integrated mapping in geologic history (PBDB API, GPlates API)
- Comments/annotations returned to institution (i.e. update taxonomy)

Teacher workshop – directions and outcomes
- Directions
  - critique of front end operation
  - provide curated collections (assignments)
  - provide background info
  - provide videos from collections/field

- Outcomes
  - lesson plans based on NGSS
ePANDDA

Specimen is collected → Curation: Specimen is cataloged & databased → Specimen stored in collection

Additional specimen data providers → iDigBio → iDigBio API

iDigPaleo → iDigPaleo API

ePANDDA API (map, translate, & distribute data)

Additional specimen data providers

PBDB API → PBDB → Specimens from Literature
The diagram illustrates the schematic of ePANDDA API, which maps, translates, and distributes data. It integrates with various interfaces and APIs:

- iDigBio API
- iDigPaleo API
- Fossil Club Webportal
- EOL API
- PBDB API
- PBDB

Research user custom interface is connected to these tools, facilitating a comprehensive data ecosystem.
Potential for collaboration

Pass your data to us, have us aggregate it and serve it to iDigBio

Talk to us about turning your data into a dynamic resource for education and public use access
Acknowledgements

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ePANDDA is supported through NSF ICER 1540984: EarthCube IA. Collaborative Proposal: ePANDDA: Enhancing Paleontological and Neontological Data Discovery API
iDigPaleo: idigpaleo.org (in development)

Project web page: fossilinsects.colorado.edu