Archeocyatha
- 1st animal reef-builder
- Oldest calcified-sponges
- Exclusively Cambrian fossils

Schematic morphology
- 2 walls,
- 1 intervallum with vertical elements, horizontal elements, links between intervallar elements

See: http://archaeocyatha.infosyslab.fr

Annotate (RECOLNAT(ANR-11-INBS-0004))
image annotation tool for the natural science to perform physical and identification measurements
used version: 1.5.44, Windows 64 bits, download: https://www.recolnat.org/fr/annotate

Recolnat: Program whose goal is to create an image bank with french collections of natural science and collaborative tools for its exploitation

Annotate library
- Import images
- Images folders
- List of photos with collection number
- Metadata and annotations
- Import the descriptive model from Xper (controlled vocabulary list)
- Creation of a measurements model

Annotate measurement window
- List of measurements and annotations: Need to be able to sort and organize them.
- Annotations of observed anatomical structures: visible and easy to use
- Length tool: visible and easy to use
- Photo contrast: Need to be able to play with sharpness to simulate a change in microscope focus.
- Import of photos: If several photos of the same specimen are imported, the import does not work.
- Updating the work plan: Annotate's memory is quickly saturated, needing to close the software to update the desktop.
- Export to Xper: This feature is only available on the mac version.

Configuration of the search fields:
- Not directly linked to Annotate. Recolnat’s search criteria not suitable for us. Need to search by Class or Order.
- See: https://explore.recolnat.org

Problem with descriptive groups:
Annotate duplicates the descriptors present in several groups under Xper which makes the model redundant.

To be improved
- Photo contrast: Need to be able to play with sharpness to simulate a change in microscope focus.
- Import of photos: If several photos of the same specimen are imported, the import does not work.
- Updating the work plan: Annotate's memory is quickly saturated, needing to close the software to update the desktop.
- Export to Xper: This feature is only available on the mac version.

Conclusion
Annotate has great potential as it can assist researchers in their work and proposes an alternative to the need to travel around the world to study a fossil.

Virtual Systematics with Annotate: the Mexican Archaeocyaths Example
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