



PTERIDOPHYTE  
COLLECTIONS  
CONSORTIUM

# The Pteridophyte Collections Consortium: 420 million years in 1.7 million specimens

## Year 3 update

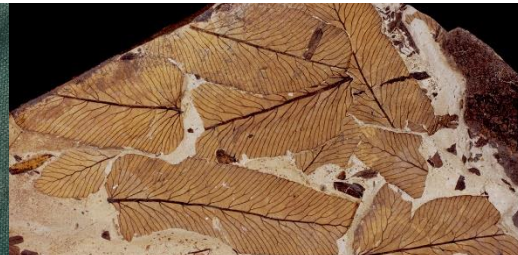
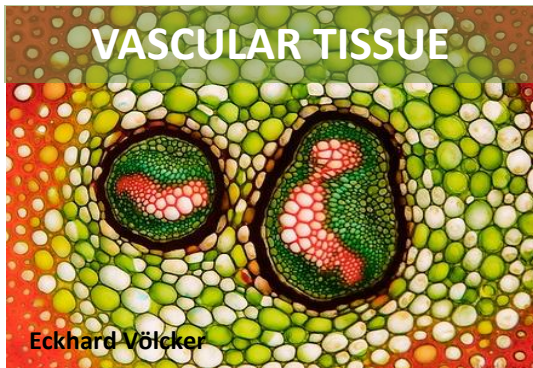
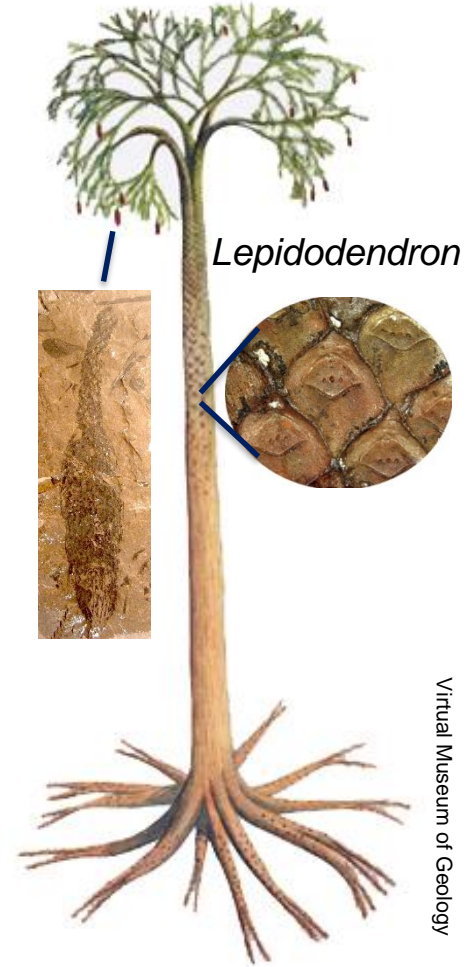
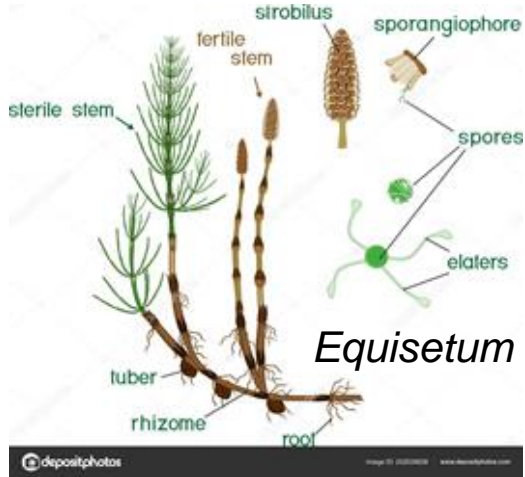


**NSF Awards:** 1802504, 1802352, 1802134, 1802033, 1802270,  
1802255, 1802239, 1802446, 1802305.





# What are pteridophytes?



GOAL to digitize **~1,700,000** pteridophyte specimens:

~1,600,000 herbarium specimens

~100,000 fossil specimens

36 PCC members: 9 core institutions

- UC Berkeley (lead)
- New York Botanical Garden
- University of Michigan
- Field Museum
- Missouri Botanical Garden
- University of Florida
- University of North Carolina
- Yale University
- University of Vermont

20 sub-awards and 7 data contributors



# Digitization progress



**Total extant specimens digitized:**  
1,065,414 imaged (65% of goal)  
962,836 databased (60% of goal)  
252,978 specimens geo-referenced  
(15% of goal)



**Total fossil specimens digitized:**  
27,754 imaged (32% of goal)  
28,791 databased (33% of goal)  
10,796 records geo-referenced  
(12% of goal)



Welcome to the data portal for the Pteridophyte Collections Consortium (PCC)! Pteridophytes (ferns, lycophytes, and their extinct seed-free relatives) are a diverse group of plants that today comprises approximately 12,000 species and plays a major role in terrestrial ecosystems. Pteridophytes were even more important in the past, especially before the evolution of the gymnosperms and the flowering plants. This group of land plants was the first to evolve roots and leaves, the first to colonize drier habitats, and the first to form forests.

Historically, the research communities interested in living pteridophytes and those studying the fossil ones were largely separate from each other. The extant and fossil specimens were housed in different facilities (herbaria and paleontological museums, respectively) and their researchers often worked in different departments. The PCC was created to promote the integration of these communities by bringing together specimen data and associated resources for both living and fossil pteridophytes.

This portal provides one-stop access to digitized fossil and herbarium pteridophyte specimens, and their associated data. Initially these data will be from the collections of our core 36 PCC member institutions. However, in the future we hope to include collections from new PCC-affiliated institutions, and to partner with other institutions worldwide to serve their data through the PCC portal.

For more information about pteridophytes or the PCC, please visit our [PCC website](#) and follow us on Facebook and Twitter.

**pteridoportal.org**

Search Taxon

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Cyathea multiflora. Image by: Robbin Moran.

HIDE CAPTION



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## University of North Carolina at Chapel Hill (fossils) (NCU:PC)

**Catalog #:** NCU-PC-000095

**Occurrence ID (GUID):** 8d97b29a-8cd5-4d77-b07b-63a4c22ec412

**Secondary Catalog #:** NCU - 31

**Taxon:** *Renalia hueberi*

**Family:**

**Collector:** Gensel, Patricia

**Locality:** Canada, Quebec, Fort Peninsule

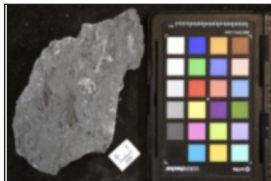
**Description:** Compression/Impression

**Individual Count:** 1

**Paleontology terms:** Devonian; Lower; Emsian

**formation:** Lower Battery Point

### Specimen Images



[Open Large Image](#)



[Open Large Image](#)



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**Usage Rights:** CC0 1.0 (Public-domain)

**Record ID:** 8d97b29a-8cd5-4d77-b07b-63a4c22ec412

For additional information on this specimen, please contact: Dr. Patricia Gensel ([pgensel@bio.unc.edu](mailto:pgensel@bio.unc.edu))

Do you see an error? If so, errors can be fixed using the Occurrence Editor.



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## New Symbiota Paleontology Fields

**Geologic age:** Eon, Era, Period, Epoch, Stage, Local Stage, Early Interval, Late Interval, Absolute Age, Storage Age, Biostratigraphy (Biozone)

**Locality metadata:** Group, Formation, Member, Bed, Taxon Environment, Lithology, Stratigraphy Remarks, Geological Context ID (Locality ID)

**Fossil metadata:** Element, Biota (Flora/Fauna), Slide Properties

More info on our website: <https://pteridophytes.berkeley.edu/paleo-fields/>

And on the Symbiota website: <https://symbiota.org/docs/symbiota-occurrence-data-fields-2/>



**PTERIDOPHYTE  
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# Thank you!

Contact the UC Berkeley team at [pteridophytes@berkeley.edu](mailto:pteridophytes@berkeley.edu)

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Visit the Pteridoportal: [pteridoportal.org](http://pteridoportal.org)  
Project website: [pteridophytes.berkeley.edu](http://pteridophytes.berkeley.edu)



Taxonomic thesaurus courtesy of **Checklist of Ferns and Lycophytes of the World**  
([worldplants.webarchiv.kit.edu/ferns/](http://worldplants.webarchiv.kit.edu/ferns/))

