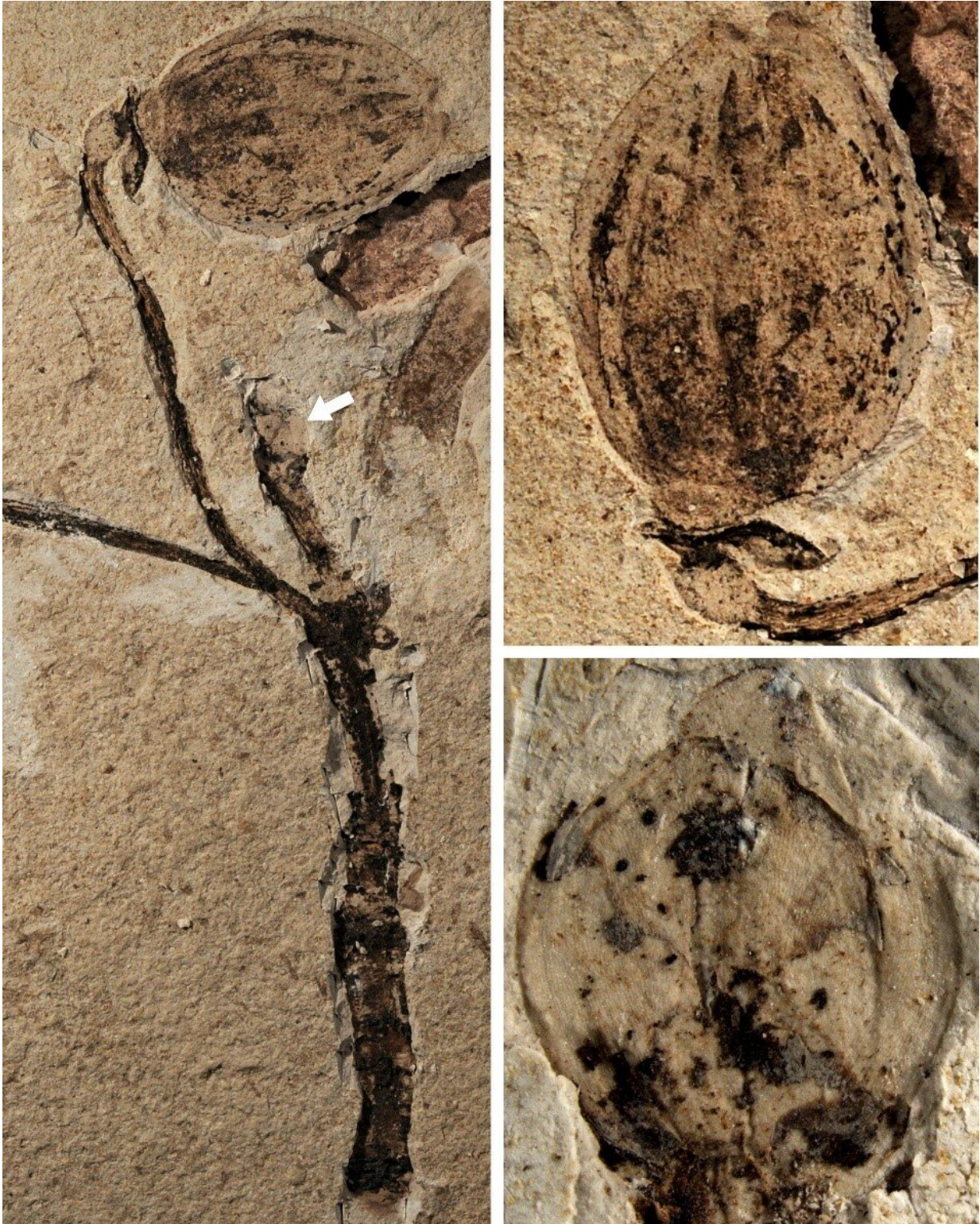


World's earliest fossil record of flower buds discovered

January 13 2022, by Li Yuan



Florigerminis jurassica gen. et sp. nov. and its details. Credit: NIGPAS

Angiosperms may be distinguished from their gymnosperm peers by their flowers, and thus a flower is a good proxy of fossil angiosperms.

However, [flowers](#) and their parts are usually too frail to be preserved in the fossil, which makes the origin of angiosperms and their flowers the foci of controversy.

Recently, Prof. Wang Xin from the Nanjing Institute of Geology and Palaeontology of the Chinese Academy of Sciences (NIGPAS), in collaboration with scientists from South China Agricultural University, reported a fossil flower bud, *Florigerminis jurassica* gen. et sp. nov., from the Jurassic in Inner Mongolia, China. This is the earliest fossil record of flower buds in the world so far.

The study was published in *Geological Society, London, Special Publications* on Jan. 6.

"This fossil includes not only a leafy branch but also physically connected fruit and flower bud," said Prof. Wang. The developmentally interpolated existence of a blooming flower between the flower bud and mature fruit in *Florigerminis* suggests that angiosperm flowers were present in the Jurassic, in agreement with recent botanical progress.

Previous plant fossils were often preserved fragmentarily, leading paleobotanists to consider them as belonging to different plants. This *Florigerminis jurassica* underscores the presence of angiosperms in the Jurassic and demands a rethinking of [angiosperm](#) evolution.

More information: Da-Fang Cui et al, A Jurassic flower bud from China, *Geological Society, London, Special Publications* (2021). [DOI: 10.1144/SP521-2021-122](https://doi.org/10.1144/SP521-2021-122)

Provided by Chinese Academy of Sciences

Citation: World's earliest fossil record of flower buds discovered (2022, January 13) retrieved 11 May 2024 from <https://phys.org/news/2022-01-world-earliest-fossil-buds.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.