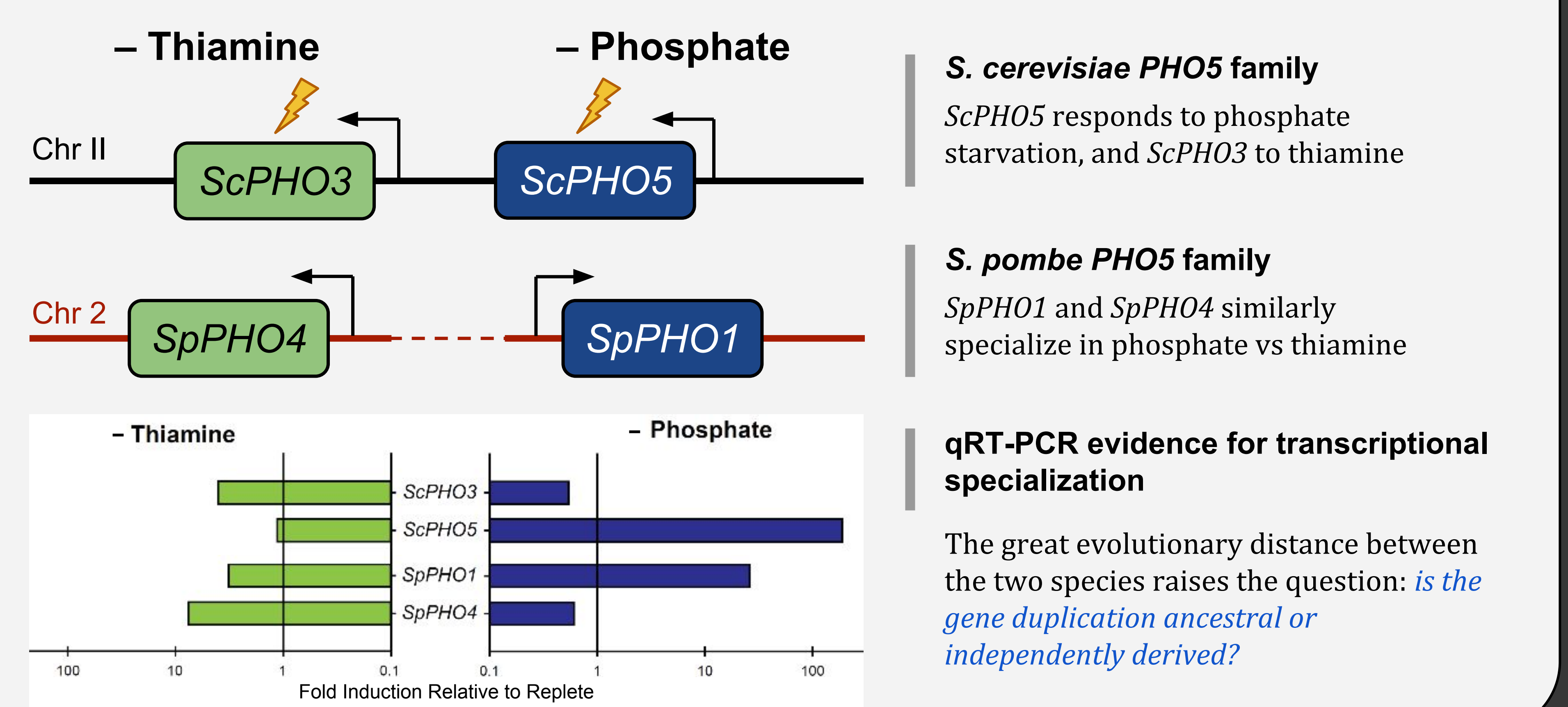


John V. Nahas¹, Christine L. Iosue¹, Noor F. Shaik¹, Kathleen Selhorst¹, **Bin Z. He**^{*, 2}, Dennis D. Wykoff^{*, 1}

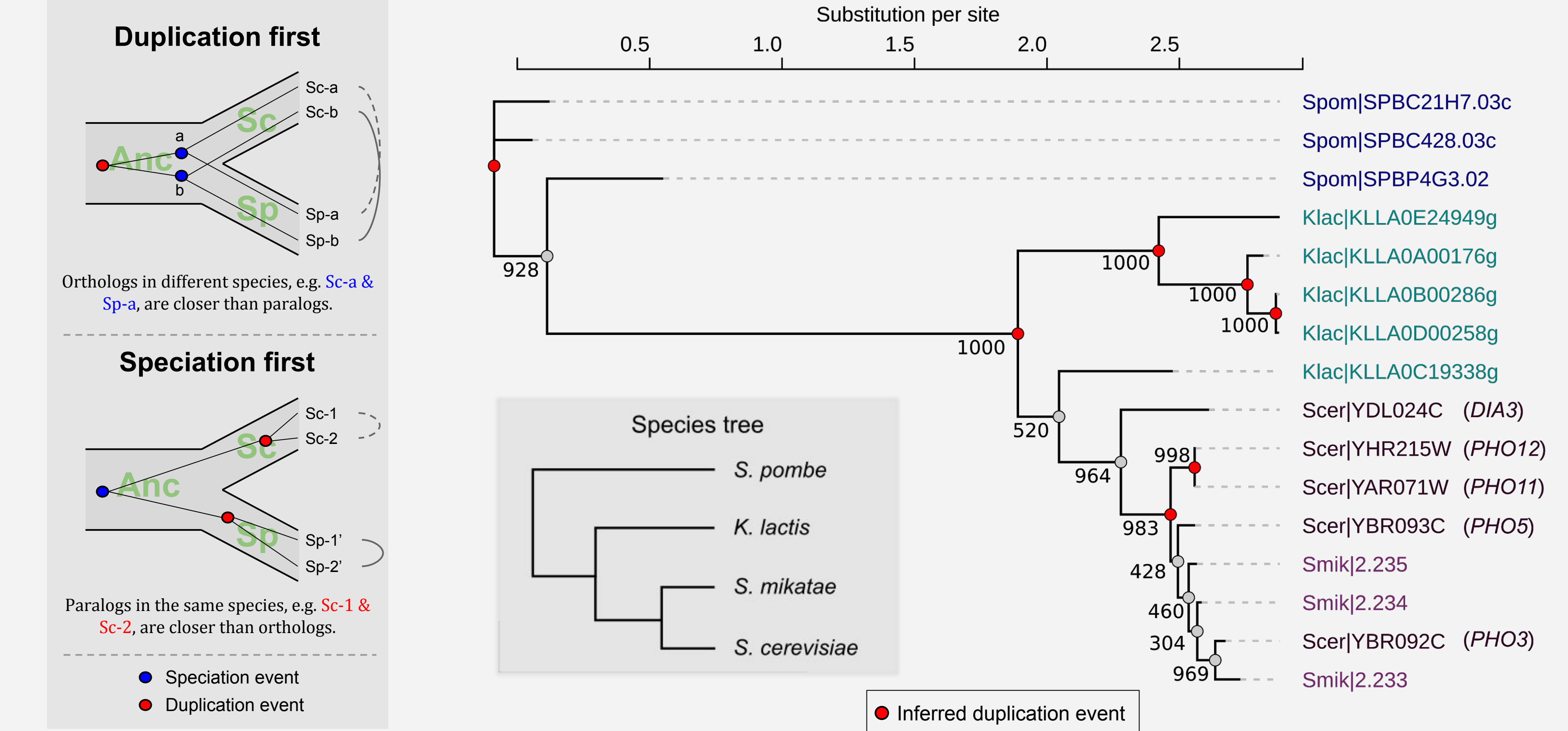
¹ Biology Department, Villanova University, Villanova, PA; ² Biology Department, University of Iowa, Iowa City, IA

* bin-he@uiowa.edu <https://binhe-lab.org> * dennis.wykoff@villanova.edu

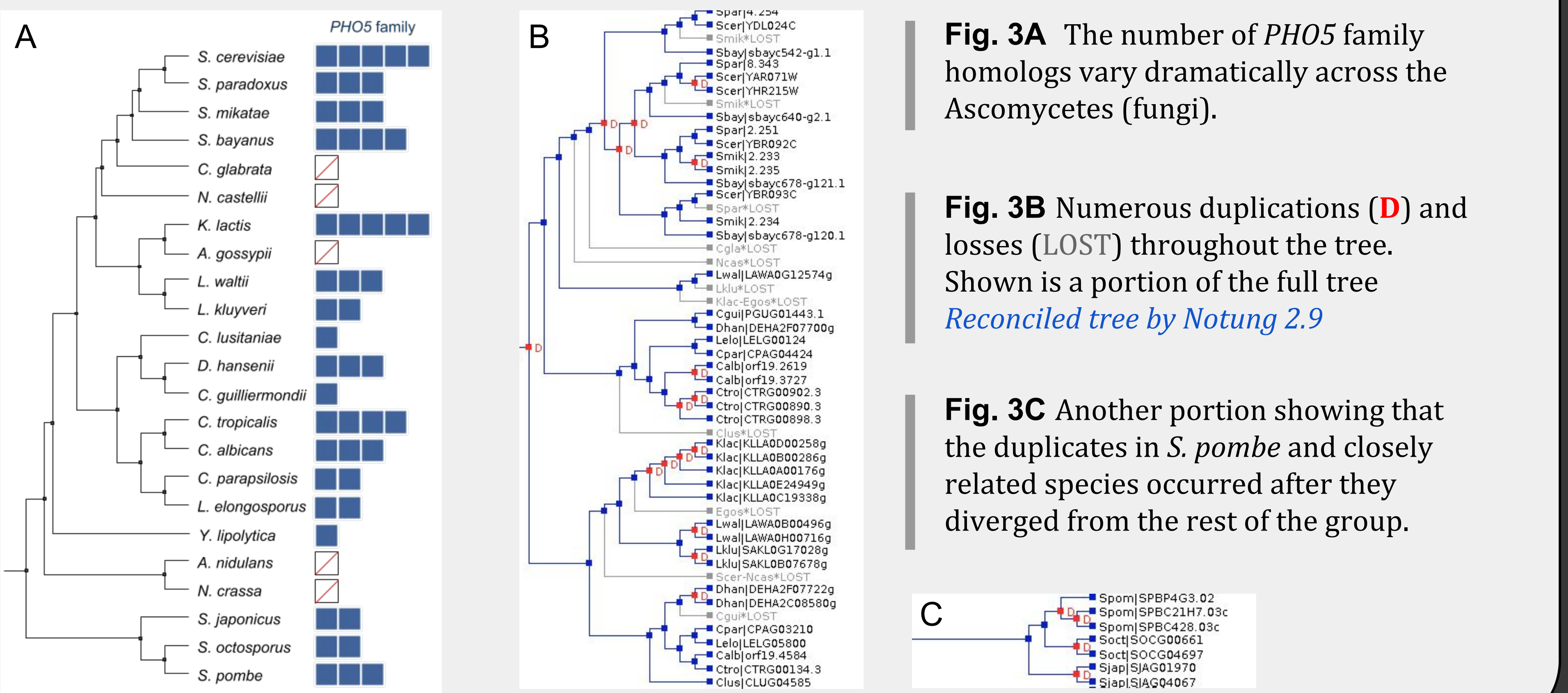
1. Divergent yeast species similarly specialize their phosphatase genes for different starvation conditions.



2. Gene duplications in the *PHO5* family in *S. cerevisiae* and *S. pombe* occurred post-speciation.



3. Gene duplications and losses in the *PHO5* family were prevalent throughout the history of the Ascomycetes.



4. *C. glabrata* lost the entire *PHO5* family and co-opted a phosphomutase family to replace its function

