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A glimpse of the syn- and post-glacial biosphere recorded in the late Neoproterozoic Pocatello and Perry Maple Canyon formations, Southeastern Idaho and Northern Utah, USA

> Robin Nagy and Carol Dehler Utah State University Department of Geology





Modified from Yonkee et al., in press



Modified from Link, 1983; Balgord, 2011; and Dehler et al., 2011







Modified from Yonkee et al., in press

## Southern Idaho - "green argillite" (Pocatello Fm.)





Modified from Link, 1983 and Dehler et al., 2011



Modified from Yonkee et al., in press

Perry Canyon - "blue limestone" (Maple Canyon Fm.)





### Perry Canyon - "mouth section" (Maple Canyon Fm.)





Modified from Balgord, 2011



# Conclusions:

- Organic material from late Cryogenian to early Ediacaran argillite *and* carbonate
- Low diversity assemblage from post-glacial strata in western US
- Asymmetrically distributed processes likely indicate actively metabolizing eukaryotes
- How does this compare with other fossil assemblages from the late Neoproterozoic?

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#### *Tappania plana* Javaux et al., 2001



Material from this study



*Tappania sp.* interpreted as fungi (Butterfield, 2005)



Material from this study