

# Supporting Information

## Composition and Function of Spider Glues

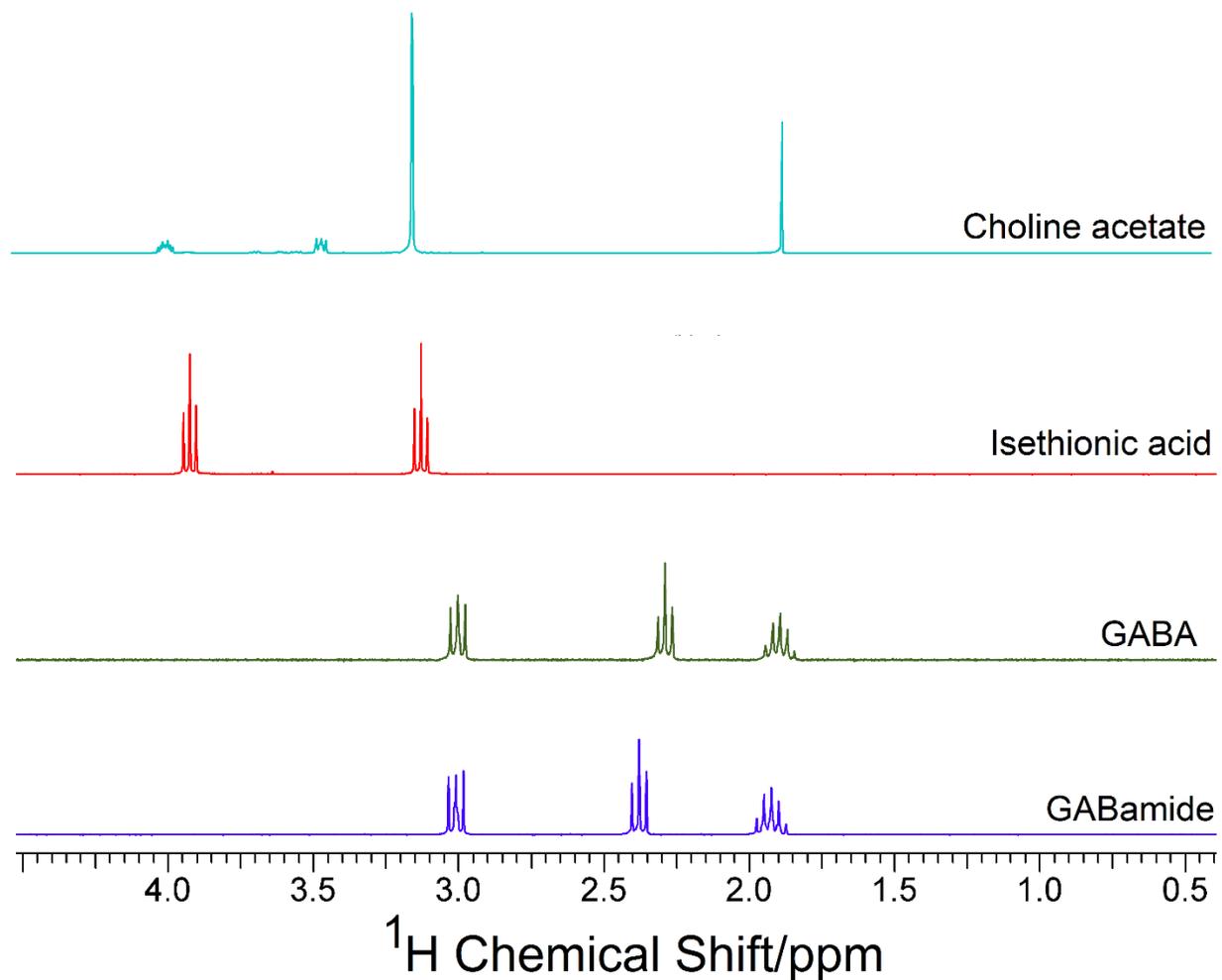
## Maintained During the Evolution of Cobwebs

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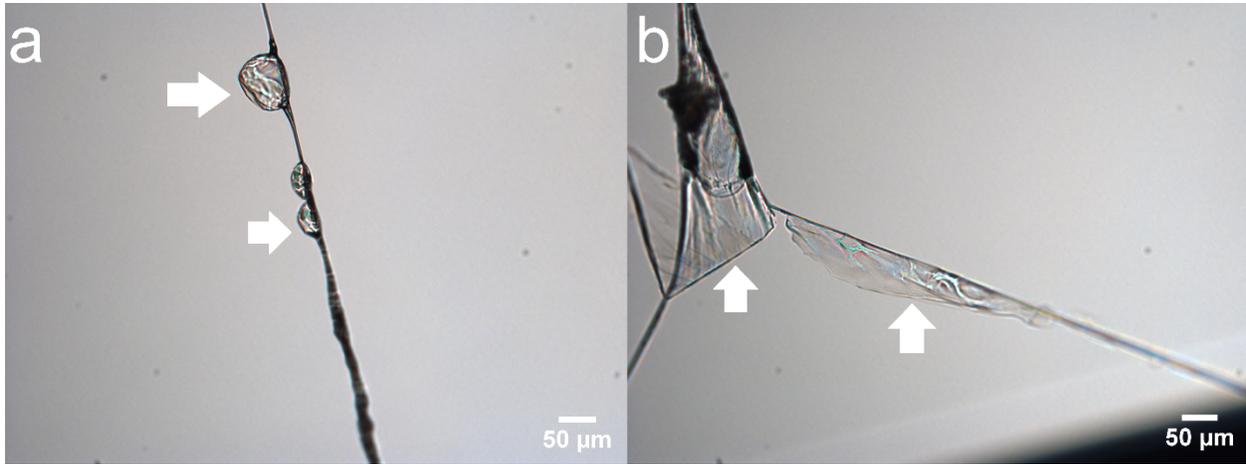
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**Supporting Figure 1.** *Solution-State NMR for synthetic salts.*  $^1\text{H}$  NMR spectrum shows the peaks for synthetic salts Choline acetate, Isethionic acid, GABA and GABamide. The peak assignments were used to confirm the salts in natural water-soluble extracts obtained from gumfoot silk of *Latrodectus hesperus*.



**Supporting Figure 2.** *Washed viscid silk threads.* Figure a and b are the optical images of water-washed suspended viscid silk threads from webs of *Larinoidea cornutus*. White arrows indicate the presence of water insoluble glycoproteins left on the threads after the washing.