

## Title: A Revision of North American Unionid Mussels (Bivalvia: Unionidae)

### 1. Tribes & Subtribes:

- Unionini Rafinesque, 1820
  - Genus: *Quadrula* Rafinesque, 1819
  - Subgenus: *Quadrula* (*Ictinodonta*) Simpson, 1900

### 2. Morphological diagnostics:

- Beak sculpture: concentric lamellae alternating sharp/ragged ( $\lambda \approx 0.2\text{--}0.5$  mm)
- Pseudocardinal teeth: bifid or trifid, inner lamella sclerotic

### 3. Observations:

- *Q. pustulosa*: specimens from Ohio River basin often exhibit aberrant “denticulations” on the anterior pseudocardinal, suggesting possible hybrid introgression with *Q. verrucosa*.
- *Ictinodonta* spp.: preliminary allozyme assays (PEP, MDH) show ~12% divergence.

### Notes:

- See Stansbery 1960 for original keys.
- Abbreviations follow Turgeon et al. (1998).
- Don't confuse with Asian *Asiaticolla*; incipient cryptic speciation under study.