

SUPPLEMENTAL FIGURES FOR:

Kons, Hugo L. Jr. & Robert J. Borth. 2015. A New Species of *Catocala* (Lepidoptera: Noctuidae) from the Southeastern United States. *Bulletin of the Peabody Museum of Natural History* 56(1): 55-65.

SUPPLEMENTAL FIGURE 1. Adults of *Catocala myristica* and similar species.

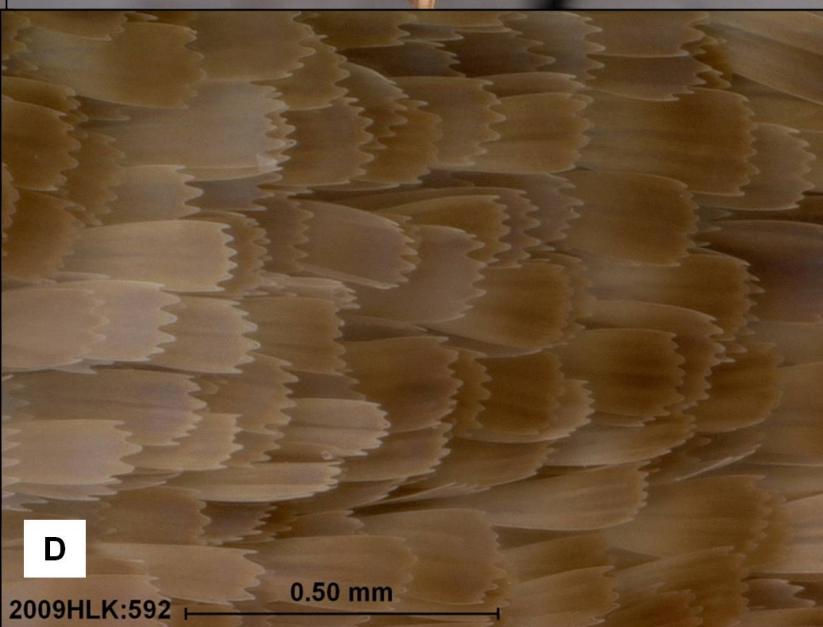
- A:** *Catocala myristica* holotype male (dissection No.: 2010HLK:727, DNA No.: 5161-270608-MS).
- B:** *C. myristica* female (dissection No.: 2011HLK: 1570).
- C:** *C. myristica* male (DNA No.:5160-270608-MS).
- D:** *C. robinsonii* male (DNA No.:4050-COI-08), Indiana, Posey County.
- E:** *C. myristica* female (dissection No.:2010HLK:731, DNA No.:5162-270608-MS).
- F:** *C. robinsonii* female (dissection No.:2010HLK:734, DNA No.: 5129-260808-IN), Indiana, Posey County.
- G:** *C. myristica* male (DNA No.:5176-300608-MS).
- H:** *C. robinsonii* male (DNA No.:11-80-170999-SC), South Carolina.
- I:** *C. angusi* male (DNA No.:4054-COI-08), Indiana, Posey County.
- J:** *C. flebilis* female, Mississippi, Lee County.
- K:** *C. myristica* female (ventral) (dissection No.:2010HLK:731, DNA No.:5162-270608-MS).
- L:** *C. robinsonii* female (ventral) (dissection No.:2010HLK: 734, DNA No.:5129-260808-IN), Indiana, Posey County.



20mm

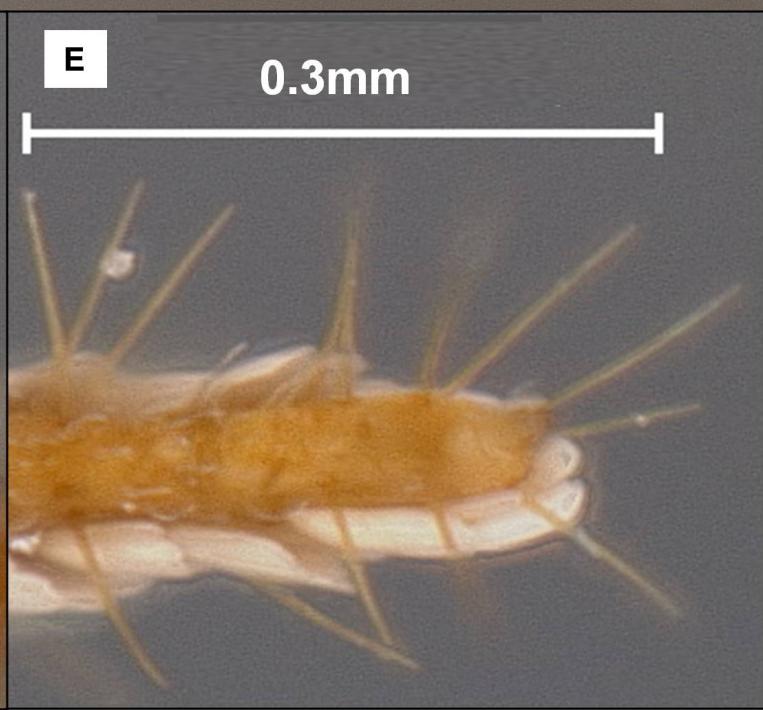
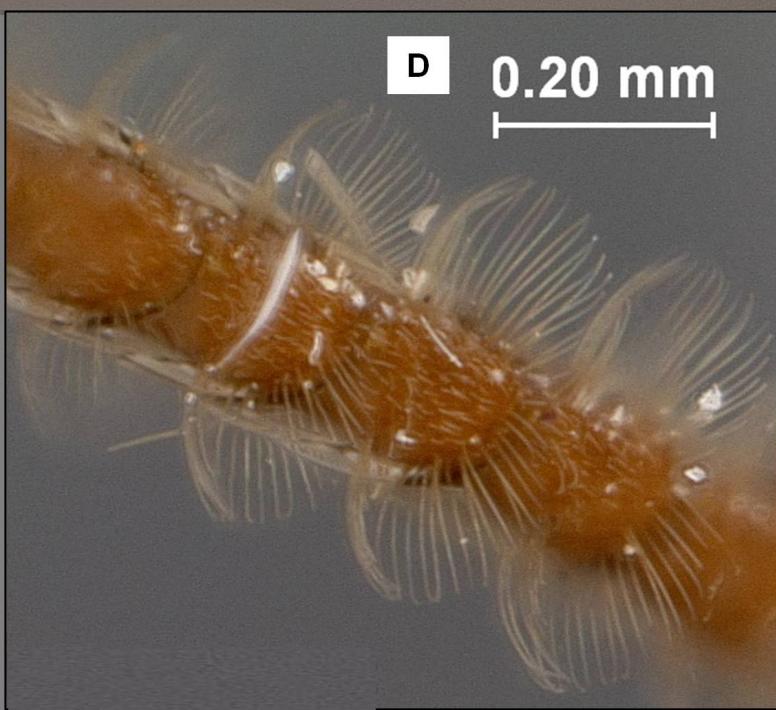
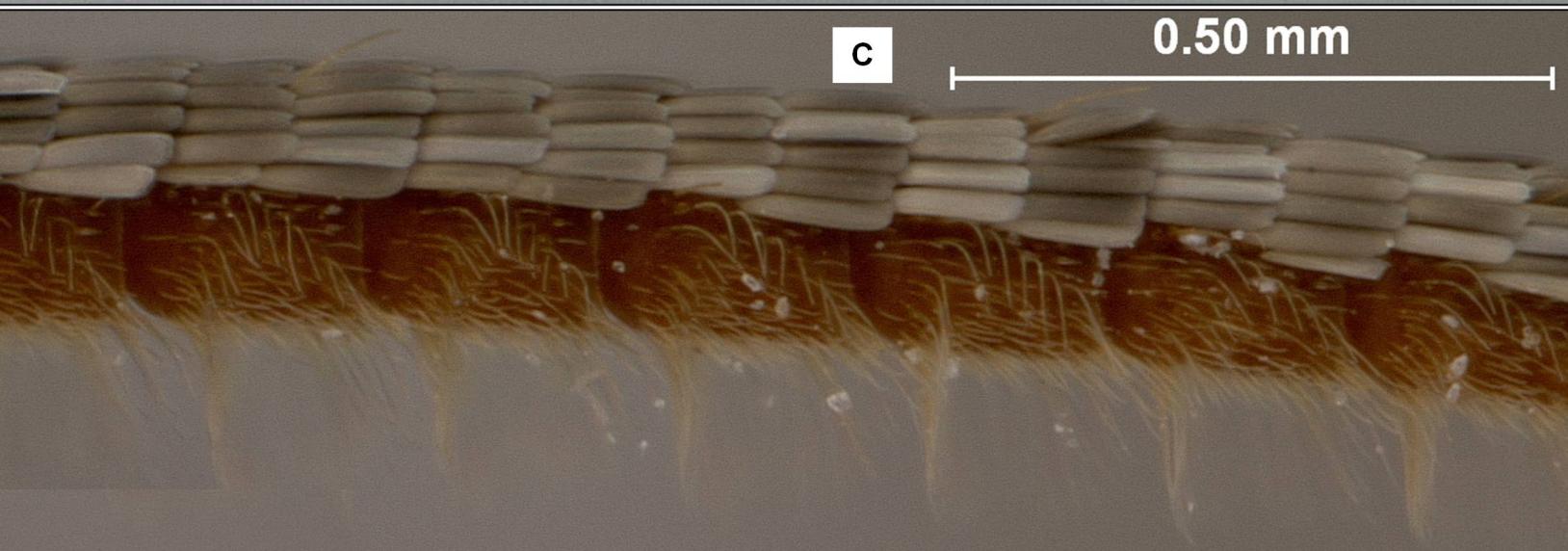
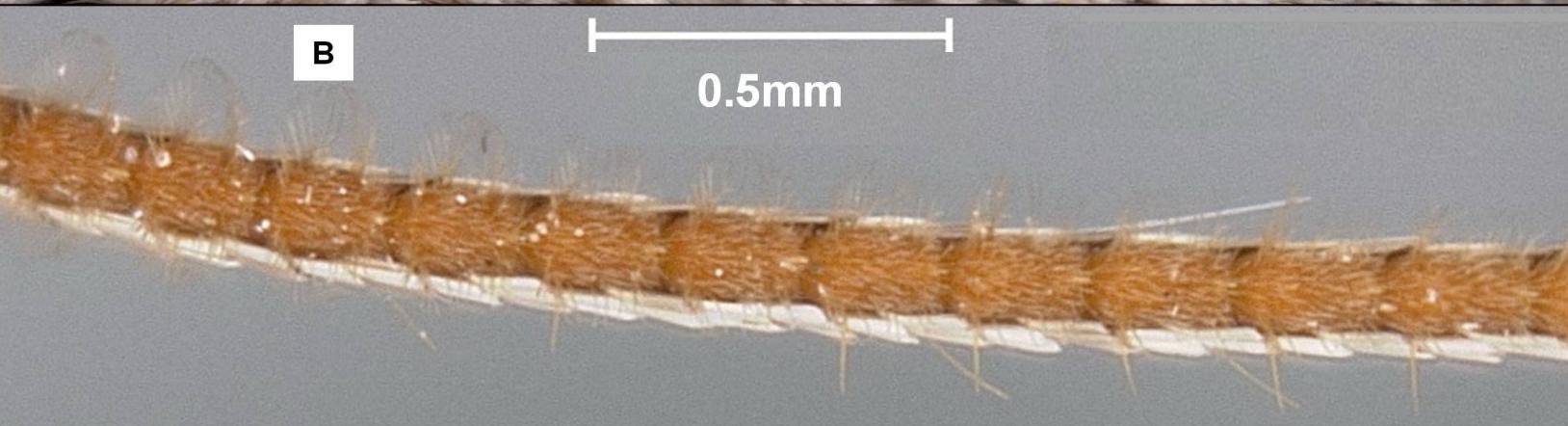
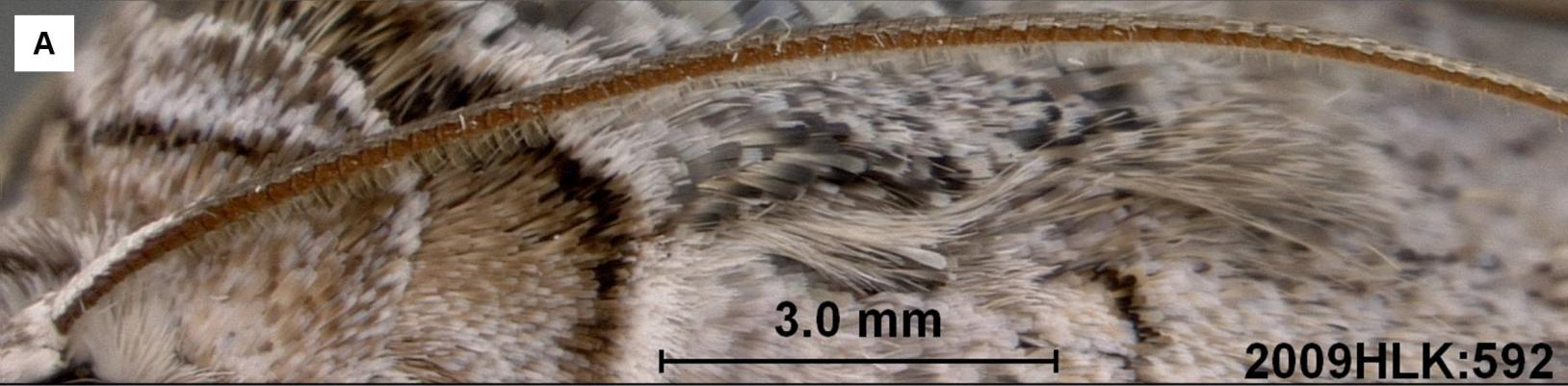
SUPPLEMENTAL FIGURE 2. *Catocala myristica* male head and reniform detail (dissection No.: 2009HLK:592).

- A:** Head (lateral).
- B:** Head (Anterior-dorsal).
- C:** Reniform spot.
- D:** Scales in center of reniform spot.



SUPPLEMENTAL FIGURE 3. *Catocala myristica* male antenna structure (dissection No.: 2009HLK:592).

- A:** Whole antenna except apex (lateral).
- B:** Midsection where spine-like setae begin (ventral).
- C:** Basal section lacking spine-like setae (lateral).
- D:** Basal section lacking spine-like setae (ventral).
- E:** Apex with spine-like setae and no hair-like setae (ventral).



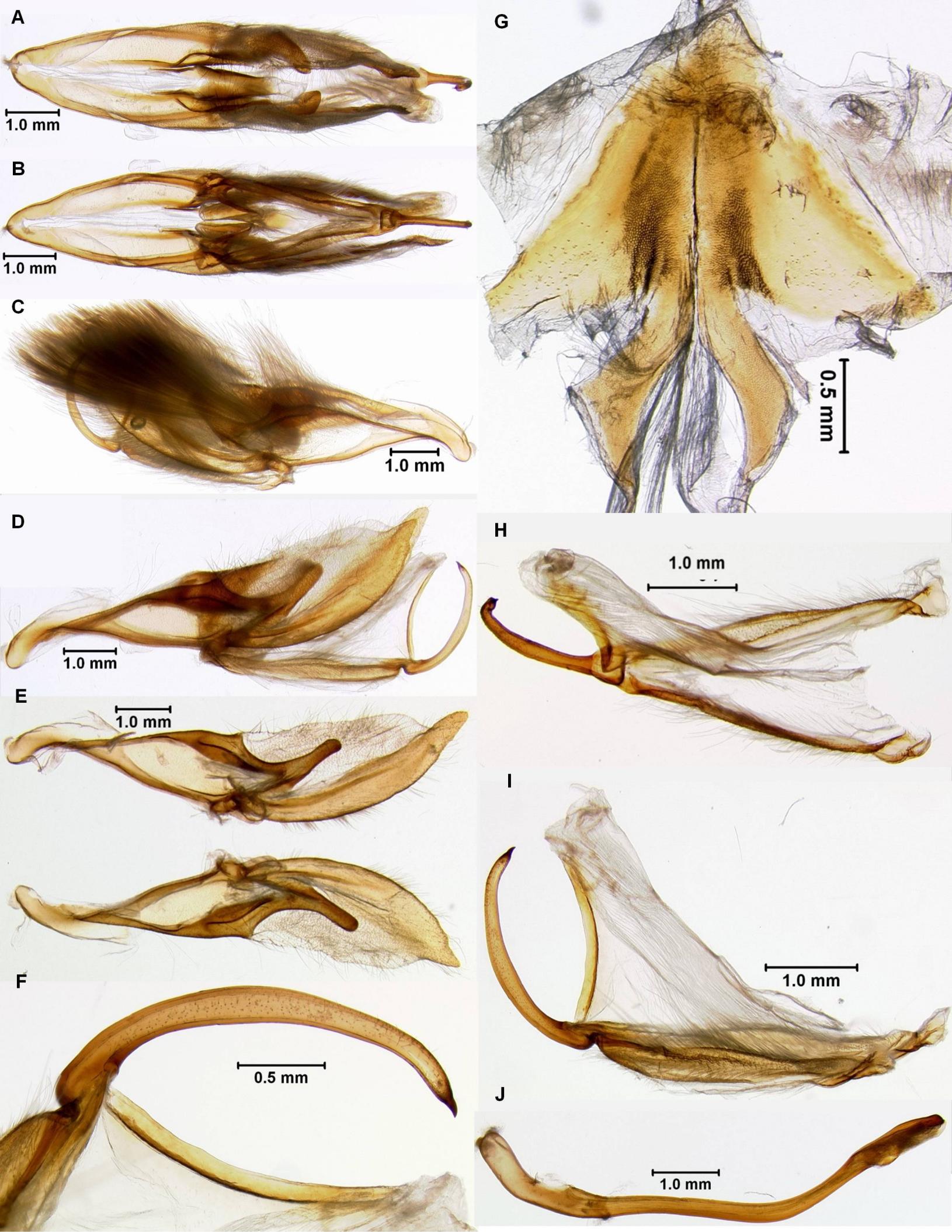
SUPPLEMENTAL FIGURE 4. *Catocala myristica* leg structures [male (dissection No.: 2014HLK:2029), female (dissection No.: 2011:1570)].

- A**: Female metatibia (outer).
- B**: Female metatibia (inner).
- C**: Female mesotibia (outer).
- D**: Female mesotibia (inner).
- E**: Female protibia (outer).
- F**: Female protibia (inner).
- G**: Male protibia (outer).
- H**: Male protibia (inner).
- I**: Female metatarsi (outer).
- J**: Female metatarsi (inner).
- K**: Female mesotarsi (outer/ventral).
- L**: Female mesotarsi (inner/dorsal).
- M**: Female protarsi (outer).
- N**: Female protarsi (inner).
- O**: Female metatarsomere 5 (outer).
- P**: Male distal profemur (with apical spine)/ proximal protibia (outer).



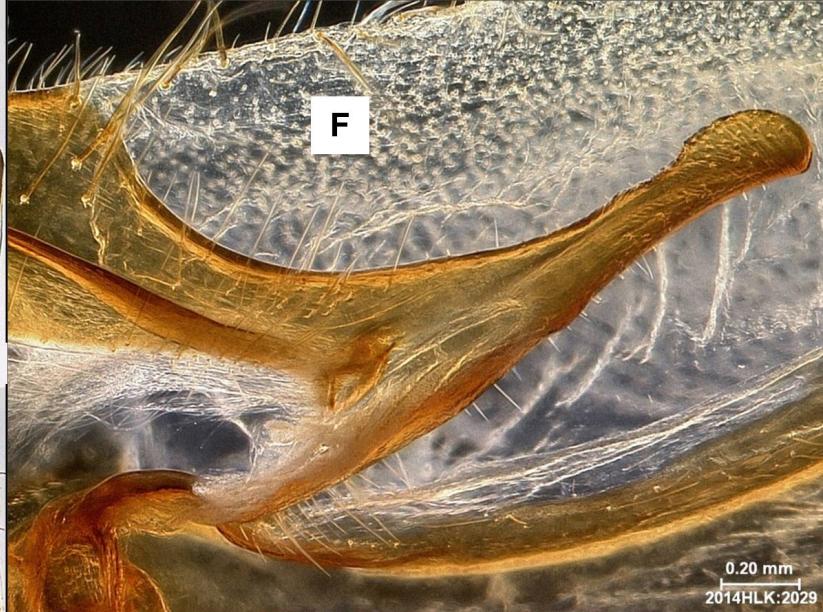
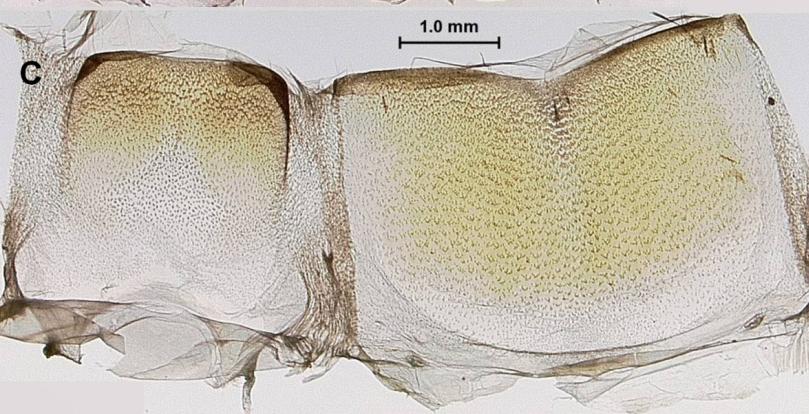
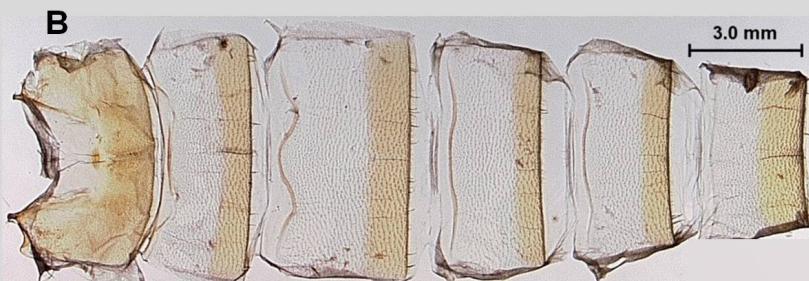
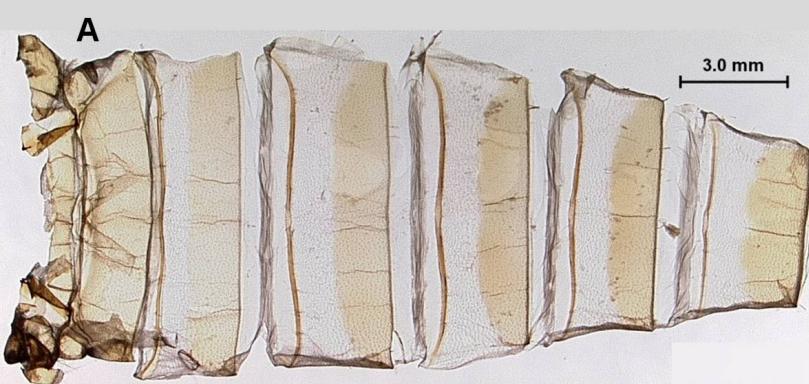
SUPPLEMENTAL FIGURE 5. *Catocala myristica* holotype male genitalia (dissection No.: 2010HLK:727).

- A:** Capsule (ventral).
- B:** Capsule (dorsal).
- C:** Capsule (lateral, before dense hairs removed).
- D:** Capsule (lateral, with dense hairs removed).
- E:** Valvae (inner side).
- F:** Uncus and scaphium (lateral).
- G:** Juxta/Anellus.
- H:** Uncus, tegumen, and tuba analis (ventral).
- I:** Uncus, tegumen, and tuba analis (lateral).
- J:** Aedeagus (lateral).



SUPPLEMENTAL FIGURE 6. *Catocala myristica* male abdominal cuticle and genitalia (dissection No.: 2014HLK:2029).

- A:** Abdominal cuticle (dorsum).
- B:** Abdominal cuticle (ventral).
- C:** Abdominal cuticle, terminal segment, tergite (left), sternite (right).
- D:** Ductus ejaculatorius.
- E:** Ductus ejaculatorius (opposite side of preceding).
- F:** Left valve clasper (inner).
- G:** Right valve clasper (inner).
- H:** Left valve clasper (inner).
- I:** Right valve clasper (outer).



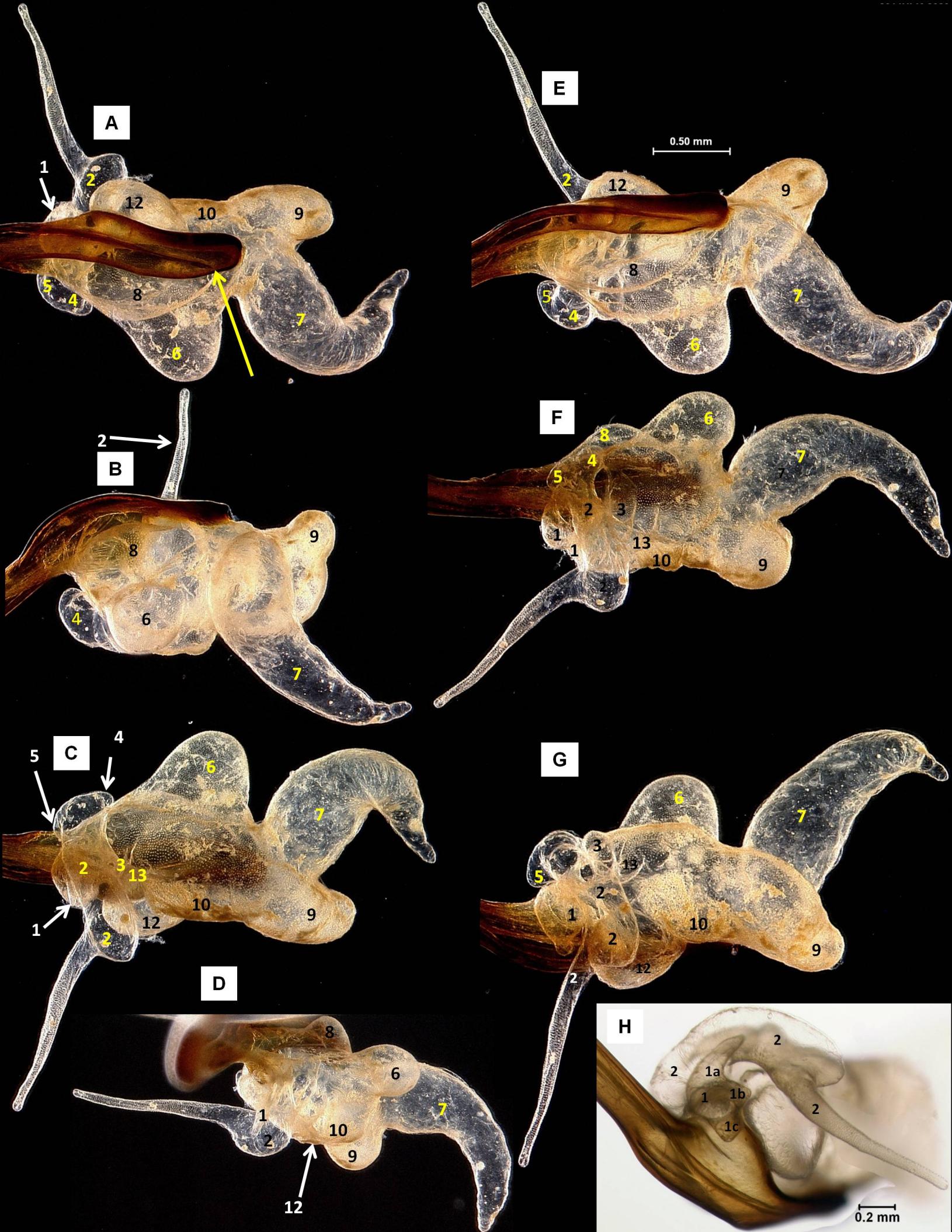
SUPPLEMENTAL FIGURE 7. *Catocala myristica* male genitalic structures from different angles (dissection No.: 2014HLK:2029).

- A:** Valvae (inner).
- B:** Valvae (inner/ventral).
- C:** Valvae (ventral).
- D:** Valvae (outer).
- E:** Valvae (inner/dorsal).
- F:** Valvae (dorsal).
- G:** Aedeagus (posterior end dorsal).
- H:** Aedeagus (posterior end lateral).
- I:** Adeagus (posterior end ventral).
- J:** Uncus (posterior).



**SUPPLEMENTAL FIGURE 8. *Catocala myristica* everted vesica
(dissection No.: 2014HLK:2029) (MGC).**

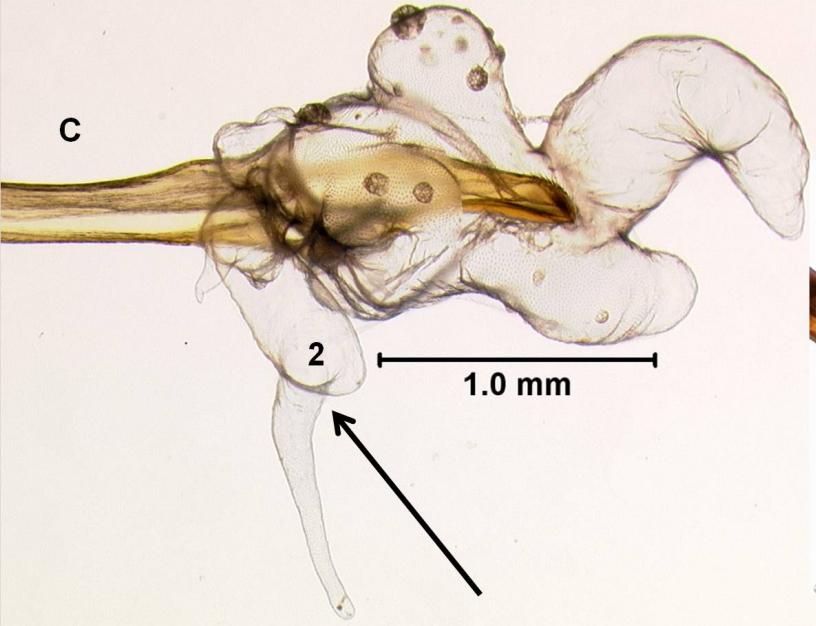
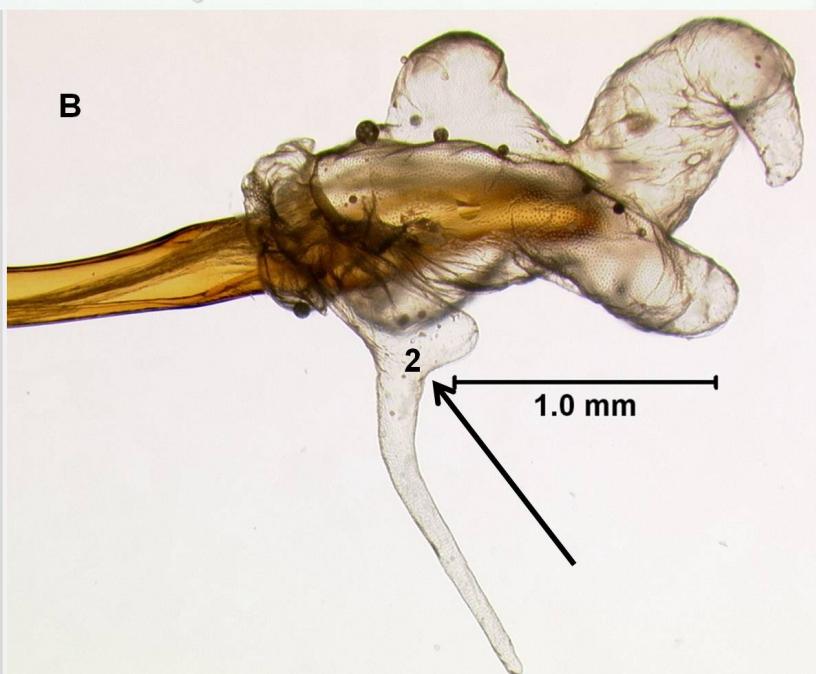
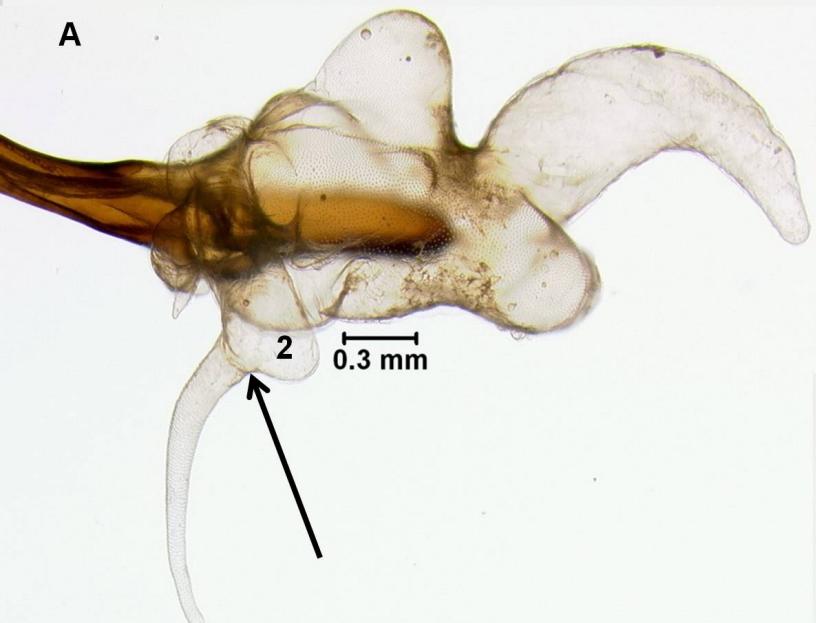
- A:** Ventral.
- B:** Lateral (ventral hood above).
- C:** Dorsal.
- D:** Anterior.
- E:** Ventro-lateral.
- F:** Dorsal tilted right.
- G:** Lateral (ventral hood below).
- H:** Anterior/lateral.



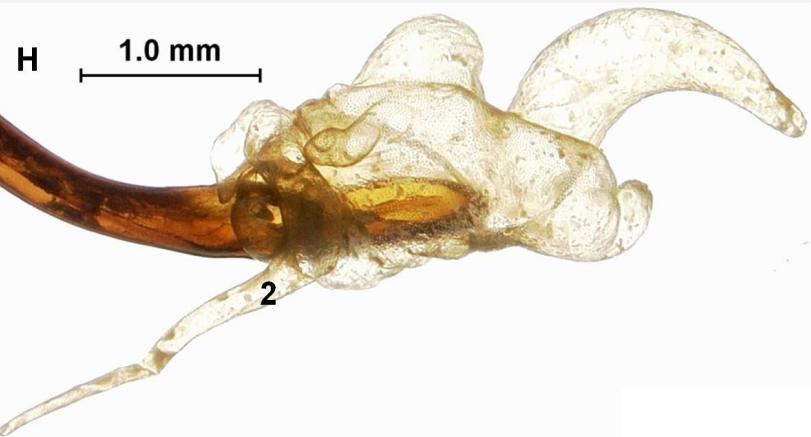
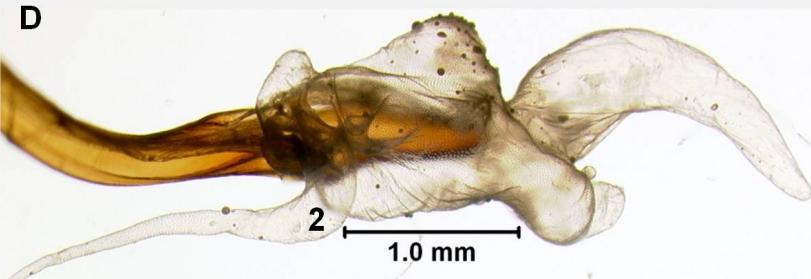
SUPPLEMENTAL FIGURE 9. Comparison of the vesica (dorsal aspect) between *Catocala myristica* (left) and *C. robinsonii* (right).

- A:** *C. myristica* holotype (dissection No.: 2010HLK:727).
- B:** *C. myristica* (dissection No.: 2009HLK:516).
- C:** *C. myristica* (dissection No.: 2009HLK:517).
- D:** *C. robinsonii* (dissection No.: 2011HLK:1208).
- E:** *C. robinsonii* (dissection No.: 2011HLK:1209).
- F:** *C. robinsonii* (dissection No.: 2009HLK:572).
- G:** *C. robinsonii* (dissection No.: 2009HLK:573).
- H:** *C. robinsonii* (dissection No.: 2009HLK:571).

Catocala myristica

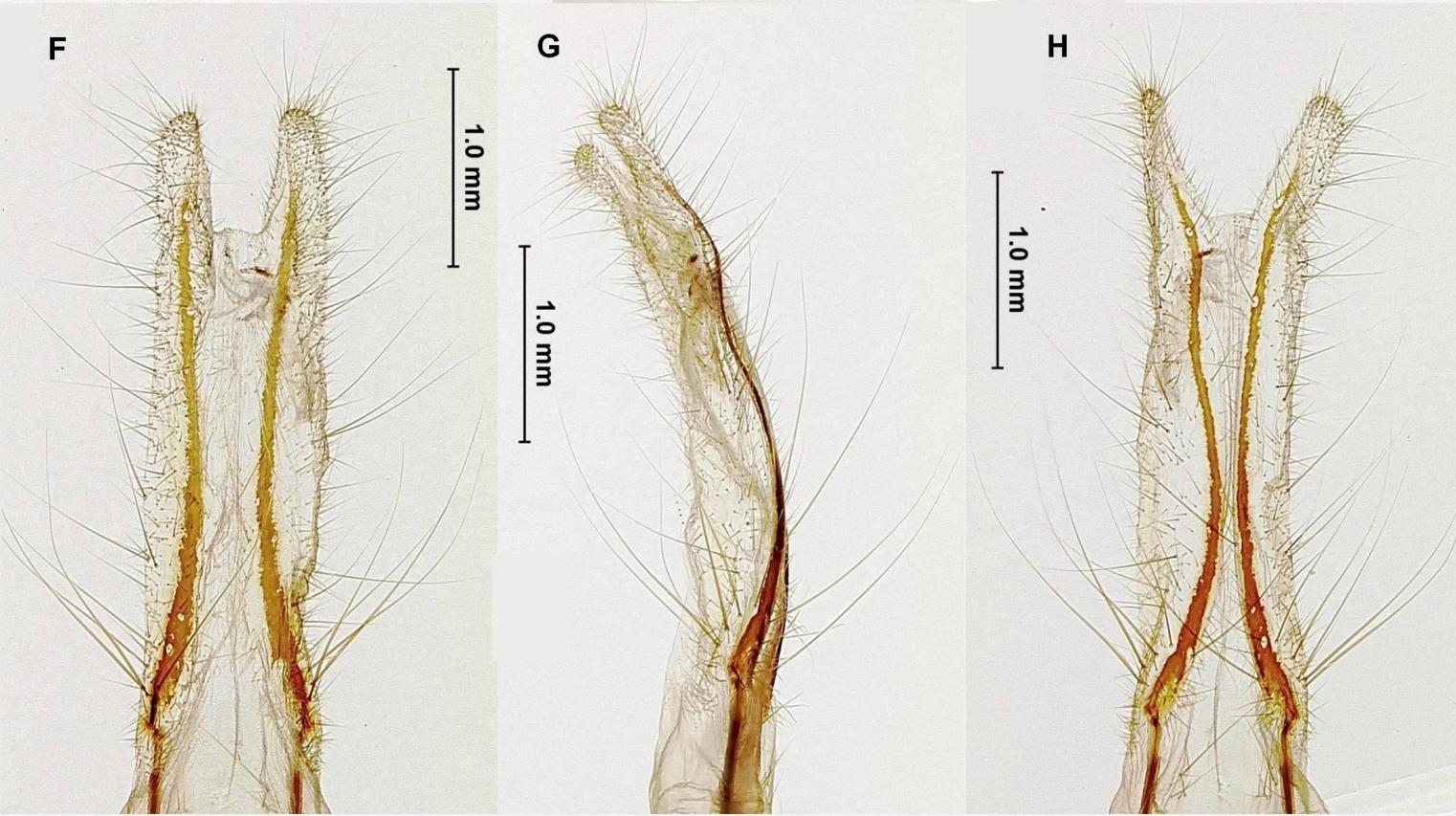
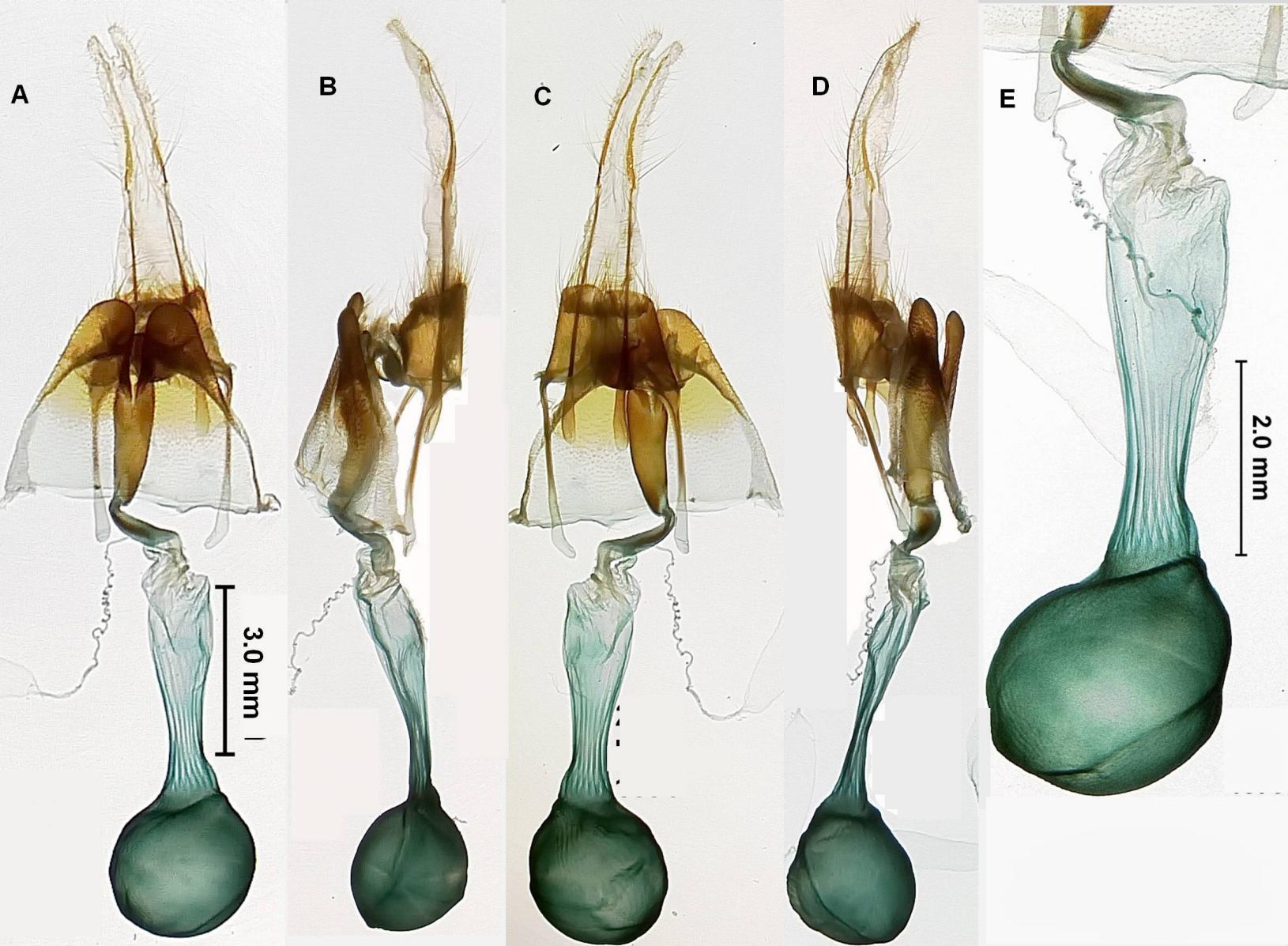


Catocala robinsonii



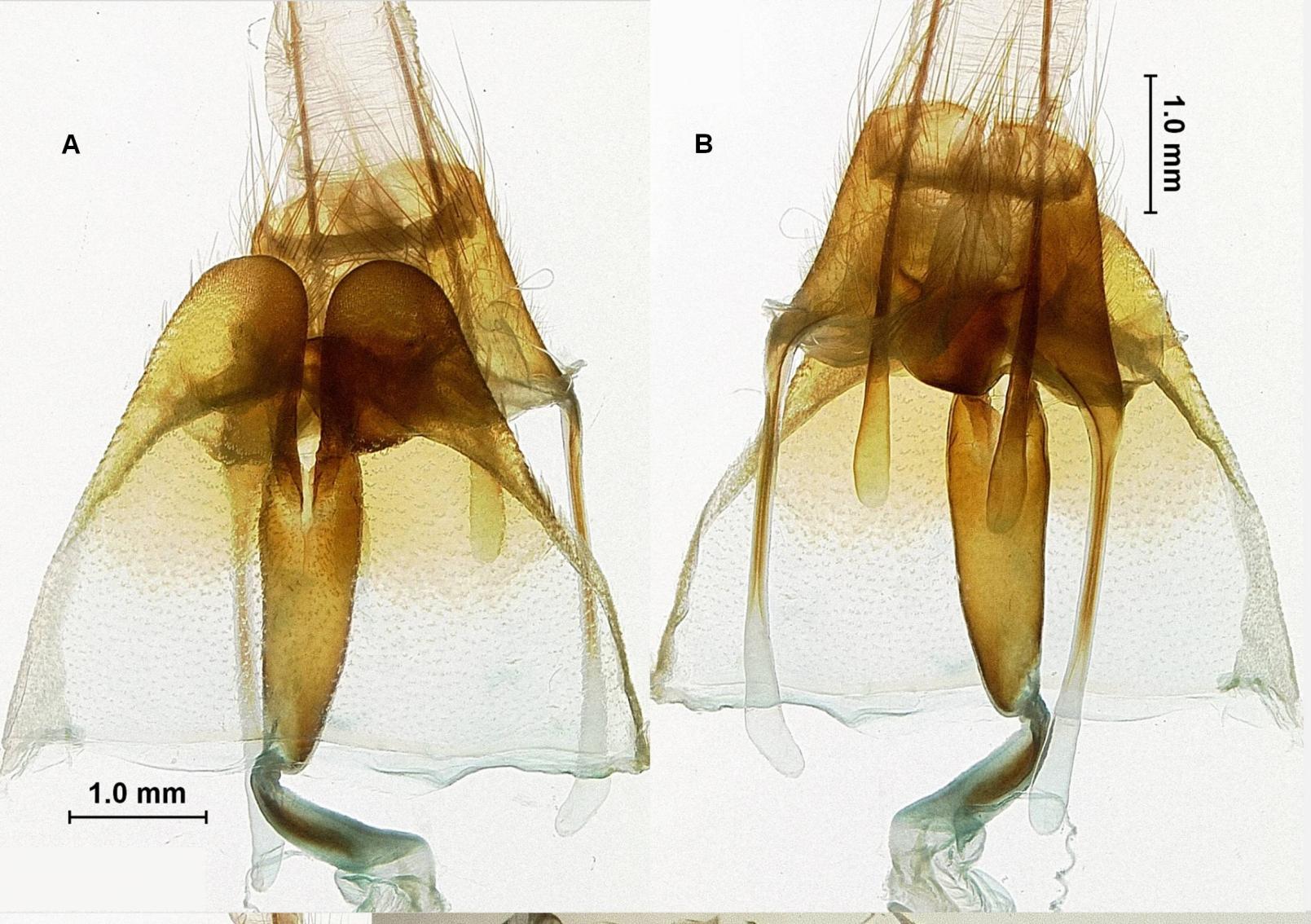
SUPPLEMENTAL FIGURE 10. *Catocala myristica* female genitalia (dissection No.: 2011HLK:1570).

- A:** Ventral.
- B:** Lateral (ventral left).
- C:** Dorsal.
- D:** Lateral (ventral right).
- E:** Corpus bursae (ventral).
- F:** Papillae analis (ventral).
- G:** Papillae analis (lateral).
- H:** Papillae analis (dorsal).



SUPPLEMENTAL FIGURE 11. *Catocala myristica* female genitalia and abdominal cuticle (dissection No.: 2011HLK:1570).

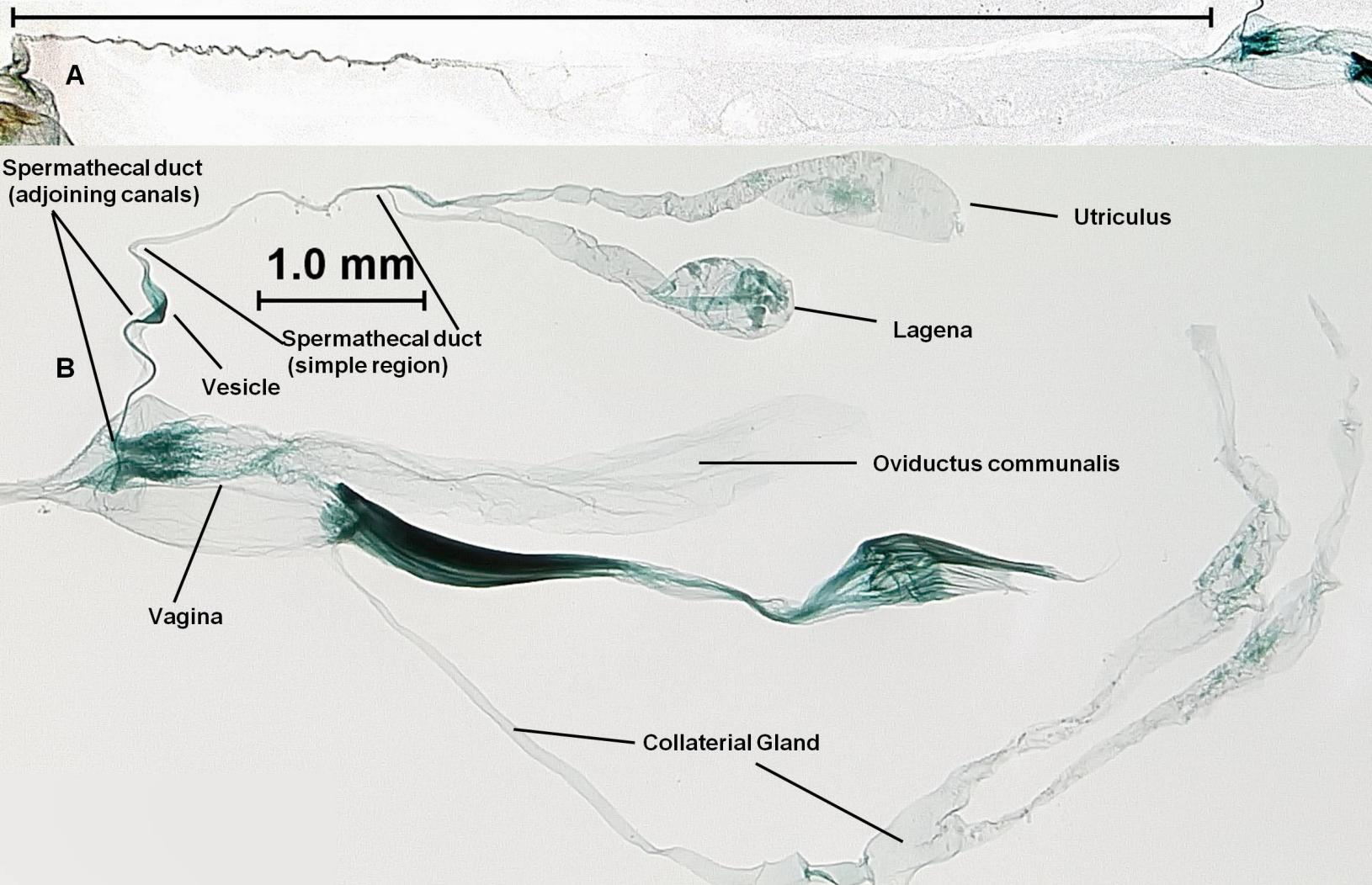
- A:** Lamella antevaginalis + Segment 8 (ventral).
- B:** Lamella antevaginalis + Segment 8 (dorsal).
- C:** Lamella antevaginalis + Segment 8 (lateral).
- D:** Abdominal cuticle (tergites 1-6).
- E:** Abdominal cuticle (sternites 3-6).
- F:** Abdominal cuticle (tergite 7).



SUPPLEMENTAL FIGURE 12. *Catocala myristica* ductus seminalis and collaterial gland complex (dissection No.: 2011HLK:1570).

- A:** Ductus seminalis.
- B:** Collateral gland complex.
- C:** Vesicle and adjoining canals of spermathecal duct.
- D:** Utriculus.
- E:** Lagena.

14.2 mm



C



D

