



**Cover:** The background image shows an adult female of the malaria mosquito (*Anopheles gambiae*) in the process of ingesting a blood meal while urinating (fluid droplet emerging from the tip on the abdomen) on the human host (photo credit: Jon Wilson, Birkbeck College). Inset (from top to bottom): *Allodapula variegata* drying out nectar on its tongue (photo credit: Michael Ellis); septate junctions from *Drosophila* Malpighian tubule (photo credit: Julian Dow/Pablo Cabrero); colony of *Apis florea* honeybees (photo credit: Christian Pirki); and fed 5th-stage *Rhodnius prolixus* (photo credit: Simon Maddrell).

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