Does fiddler crab's major claw have a role

in body temperature regulation?

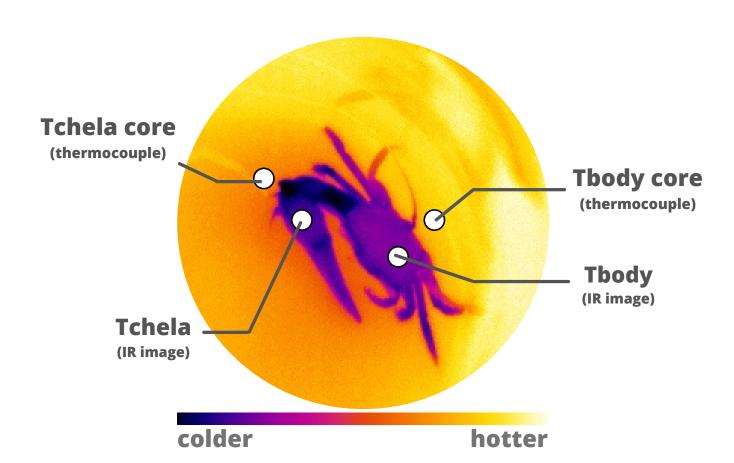
Intact and declawed organisms

Temperature ramp: 25°C to 37°C* (1°C/6 min)

Evaporative Water Loss (EWL)

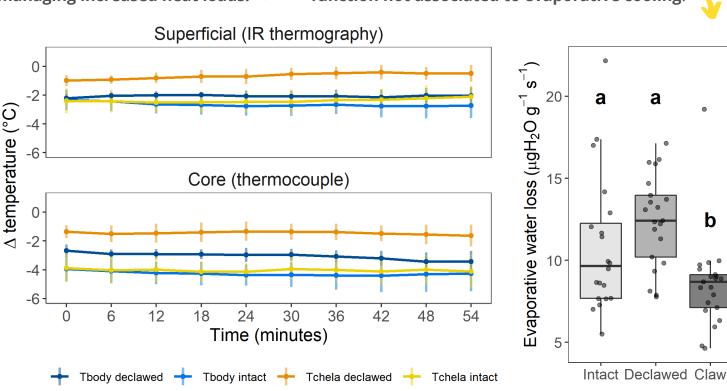


Role in temperature regulation (Darnell and Munguia 2011)



Major claw: assisted in managing increased heat loads.

Major claw: lower EWL rates - thermoregulatory function not associated to evaporative cooling.



*Here, showing results for up to 34°C (consistency in replicates n) Darnell, M. Z., and Munguia, P. (2011). Thermoregulation as an alternate function of the sexually dimorphic fiddler crab claw. Am. Nat. 178, 419-428. doi:10.1086/661239

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