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When oxygen in the water gets low, different animals react in different ways. One animal, *Tigriopus californicus,* was thought to react to low oxygen by turning on one pathway in their bodies. However, it was found in this paper that this pathway is broken for this animal. Instead, *T. californicus* turns on different pathways that have to do with their exoskeleton. This finding suggests that maybe other animals react to low oxygen in different ways than we thought.