

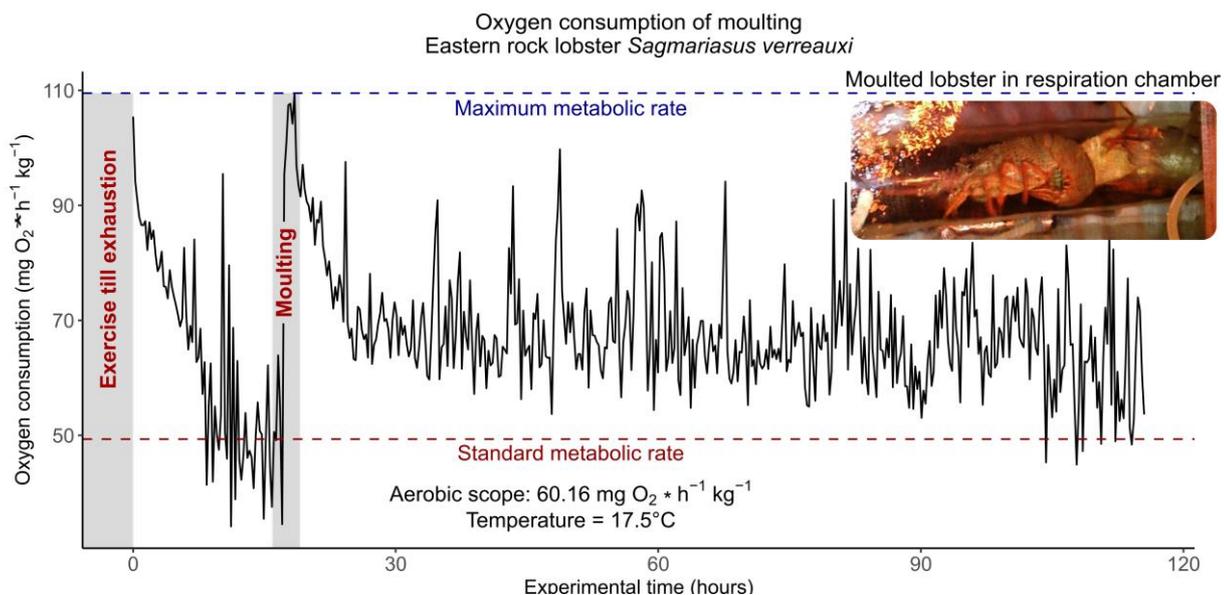
Supplementary information

Research Article:

Metabolic plasticity improves lobster's resilience to ocean warming but not to climate-driven novel species interactions

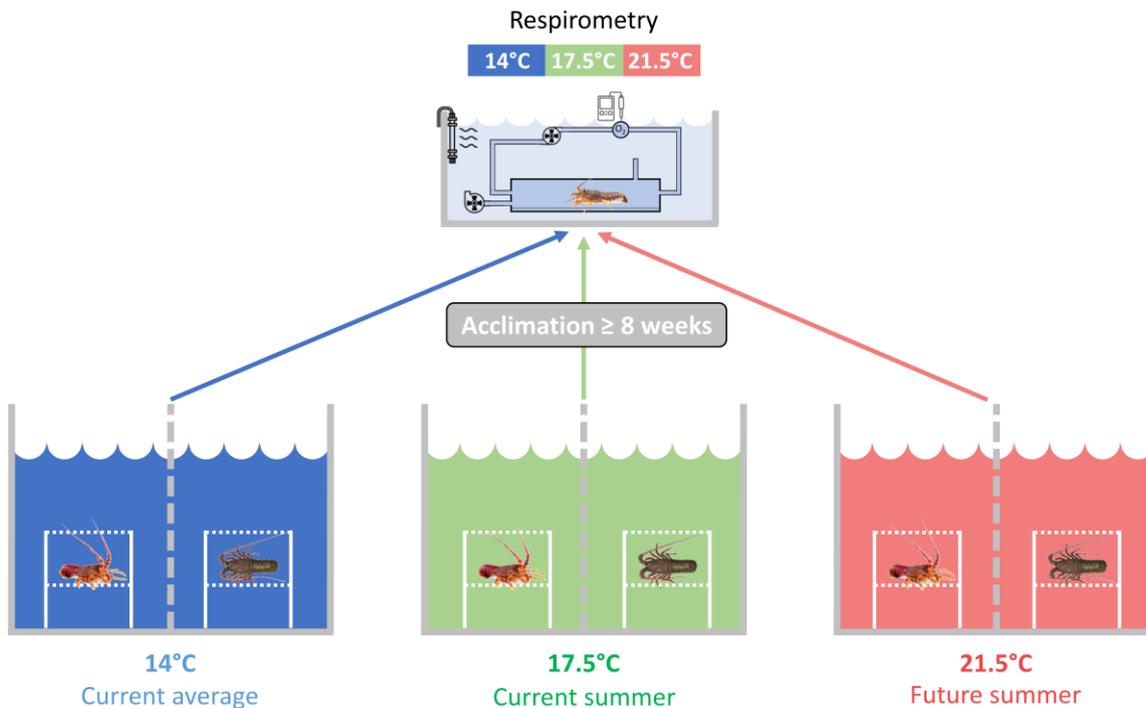
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Supplementary Figure S1: Oxygen consumption rate of moulting eastern rock lobster *S. verreauxi*, following exhaustive exercise and a recovery period. Moulting caused the exhaustion of the full aerobic scope and an elevation of post-moulting oxygen consumption above standard metabolic rate.



Oellermann et al., (2021), Metabolic plasticity improves lobster's resilience to ocean warming but not to climate-driven novel species interactions, Scientific Reports

Supplementary Figure S2: Schematic illustration of experimental design. Eastern and southern rock lobsters were acclimated in pairs to current average (14°C), current summer (17.5°C) and future summer temperatures (21.5°C) for at least eight weeks. To detect differences between acclimation treatments, we measured oxygen consumption rates of each lobster, across all three acclimation temperatures, using intermittent respirometry.



Supplementary Table S1: Raw data table (in .csv format) for all individual spiny lobsters used in this study. Data table also available for download at this figshare repository ([LINK](#)).

Supplementary File S1: Python script (in .txt format) to record total escapes and escape speed of spiny lobsters from video files recorded during exhaustion trials. File also available for download at this figshare repository ([LINK](#)).

Supplementary Files S2: Collection of R Markdown files (.html format), presenting all data processing and statistical analysis steps applied in this study. Files also available for download at this figshare repository ([LINK](#)).

Supplementary File S3: R Markdown file (.html format), presenting the analysis for balanced body mass and sex distributions between the two spiny lobster species as well as across acclimation treatments. File also available for download at this figshare repository ([LINK](#)).