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Dear Editor,

I am submitting the manuscript ‘*Optimum growth temperature declines with body size within fish species*’ for consideration to be published as a research report in *PNAS*.

Predicting the consequences of rising temperatures requires understanding of how key physiological processes such as growth, feeding and metabolism depend on body size and temperature within species.

By collating experimental data on fishes, we show how feeding rates increase slower than metabolic rate with body mass – and temperature when it gets warmer, which indicates that optimum growth temperatures decline with mass.

These findings suggest large individuals within populations may be the first to suffer negative consequences of warming on growth. This has with potential implications for maintaining population resilience, fisheries yield, and food web structure in warm

We are grateful for your consideration of our manuscript, and we look forward to hearing from you.

Sincerely,

Max Lindmark, on behalf of all co-authors  
Swedish University of Agricultural Sciences, Department of Aquatic Resources (SLU Aqua), Institute of Coastal Research, Skolgatan 6, 742 42 Öregrund, Sweden, Phone: +46(0)104 78 41 73, mobile: +46(0)722 10 72 66, [max.lindmark@slu.se](mailto:max.lindmark@slu.se)

[Date]

Dear [Editor name],

I/We wish to submit an original research article entitled “[title of article]” for consideration by [journal name].

I/We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

In this paper, I/we report on / show that \_\_\_\_\_\_\_. This is significant because \_\_\_\_\_\_\_\_\_\_.

We believe that this manuscript is appropriate for publication by [journal name]because it… **[specific reference to the journal’s Aims & Scope]**. \_\_\_\_\_\_\_\_\_\_.

[Please explain in your own words the significance and novelty of the work, the problem that is being addressed, and why the manuscript belongs in this journal. Do not simply insert your abstract into your cover letter! Briefly describe the research you are reporting in your paper, why it is important, and why you think the readership of the journal would be interested in it.]

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