**Modelling the zebrafish gut microbiome's resistance and sensitivity to climate change and infection**

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# 2) Water temperature shapes gut microbiome structure

## S2A)

A diagram of different colored shapes

AI-generated content may be incorrect.

## S2B)

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## S2C)

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## S2D)

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# 3) Infection burden is highest in fish reared at lower water temperatures

## S3A)

### S3A.1)

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### S3A.2)

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## S3B)

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| A microscope view of a small intestine  AI-generated content may be incorrect. |

## S3C)

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# 4) Gut microbiome response to parasite exposure varies across water temperature

## S4A)

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## S4B)

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## S4C)

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## S4D)

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# 5) Gut microbiome response has a non-linear relationship with infection burden

## S5A)

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## S5B)

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## S5C)

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## S5D)

### S5D.1)

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### S5D.2)

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### S5D.3)

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### S5D.4)

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# 6) Parasite exposure exacerbates water temperature differences in gut microbiome structure

## S6A)

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## S6B)

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## S6C)

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## S6D)

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