

## Multi-omics reveals response mechanism of liver metabolism

## of hybrid sturgeon under ship noise stress

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Underwater sound spectra of control and noise

Frequency/H

groups.



log - Fold Chang

## Conclusion

Frequency/Hz

During continuous exposure to underwater noise, for hybrid sturgeons, apoptosis and cell motility were increased, protein synthesis was inhibited. Lipid metabolism,

nucleotide metabolism, and vitamin D3 metabolic pathways were inhibited as well. Meanwhile, normal immunity of the sturgeon was ensured through the initiation of

References 1. Altschul S, Gish W, Miller W, Myers E, Lipman D. Basic local alignment search tool. J Mol Biol, 1990.

2. Bolger AM, Lohse M, Usadel B. Trimmomatic: a flexible trimmer for Illumina sequence data.

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Chunhua Liu and Jiehao Liu have contributed

Pyrimidine metaboli

Purine metal

Sulfur meta

3

Pvalue

0.3

0.2

equally to this work.

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