

instability. Future applications in yellowfin seabream aquaculture should move beyond simple salinity control toward more precise and adaptive management frameworks. The use of real-time monitoring technologies, automated environmental regulation systems, and data-driven culture models could improve the prediction and mitigation of salinity stress under commercial conditions. At the same time, selective breeding for salinity tolerance, together with molecular and multi-omics research on adaptive mechanisms, may provide new opportunities to develop more resilient stocks. In the context of climate change and increasing environmental variability, advancing salinity management from passive response to proactive regulation will be a key direction for sustainable yellowfin seabream aquaculture.

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Conflict of Interest Disclosure

The authors affirm that this research was conducted without any commercial or financial relationships that could be construed as a potential conflict of interest.

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