

研究报告

## 信阳桃花水母对几种生态因子胁迫的耐受反应

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**摘要** 在不同温度、盐度、pH等因子胁迫条件下, 研究观察了信阳桃花水母(*Craspedacusta sowerbyi xinyangensis*)的生活状态、形态变化及存活等耐受反应, 并测定了信阳桃花水母在不同温度下的耗氧率和最低耐氧能力. 结果表明, 信阳桃花水母的最适生活温度范围为15 ℃~25 ℃, pH为6.0~8.2. 信阳桃花水母对盐度耐受力差, 盐度为2时, 仅能存活96 h; 但具有较强的耐低氧能力, 20 ℃时窒息点为0.26 mg·L<sup>-1</sup>, 平均耗氧量和平均耗氧率随温度的升高而升高.

**关键词** [桃花水母](#) [生态因子胁迫](#) [耐受性](#) [耗氧率](#)

分类号

## Tolerance of *Craspedacusta sowerbyi xinyangensis* to the stresses of some ecological factors

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### Abstract

This paper studied the tolerance of *Craspedacusta sowerbyi xinyangensis* to the stresses of temperature, salinity, and pH from the aspects of its living status, morphology and survival, and measured its oxygen consumption rate and oxygen tolerance at different temperatures. The results indicated that the suitable temperature and pH of *C. sowerbyi xinyangensis* were 15 ℃~25 ℃ and 6.0~8.2, respectively. *C. sowerbyi xinyangensis* had a low tolerance to salinity, and it could only survive for 96 h when the salinity was 2. *C. sowerbyi xinyangensis* could bear low DO, and its lethal DO was 0.26 mg·L<sup>-1</sup> at 20 ℃. The average oxygen consumption amount and rate of *C. sowerbyi xinyangensis* increased with increasing temperature.

**Key words** [Craspedacusta sowerbyi xinyangensis](#) [Ecological factors stress](#) [Tolerance](#) [Oxygen consumption rate](#)

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