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塘鱧血漿性腺類固醇濃度與生殖週期之同步性

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本文描述環境因子對高屏溪河口塘鱧的生殖週期之可能影響。超過一年期以光學顯微鏡研究魚體生殖腺之形態，並以酵素免疫分析血清雌二醇和睪固酮。在雄性塘鱧血清睪固酮濃度顯示了單一週期的變化，且其高峰在夏天（六月到八月）伴隨著生殖腺體重指數。在雌性，血清雌二醇濃度與生殖腺體重指數在夏天顯著變高。冬天的低溫與短光週期誘發生殖腺的成熟。雌性與雄性塘鱧之血清雌二醇和睪固酮的年變化和生殖腺體重指數相似。這些發現指出低溫與短日照顯然影響塘鱧的生殖週期。

關鍵詞：光週期，溫度，年週期，塘鱧，性腺類固醇。

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