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## REVIEWER'S REPORT

Manuscript No.: IJAR-56632

Title: Exploring the Pharmacological Potential of Synechococcus sp. PGDR2 through Phytochemical and In Vitro Bioactivity Studies.

### Recommendation:

Accept as it is

Accept after minor revision

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity		✓		
Significance		✓		

Reviewer ID: JP085

### Reviewer's Comment for Publication.

This manuscript studies the phytochemical constituents and biological activities of Synechococcus sp. PGDR2. The study includes antioxidant, anticancer, and anti-inflammatory assays. The extract showed weak antioxidant and anticancer activity but moderate anti-inflammatory activity. The study provides basic information on cyanobacterial bioactive compounds, but some improvements are required.

### Strength:

1. Interesting topic related to cyanobacterial bioactive compounds.
2. Different in-vitro assays were used to evaluate activity.
3. Molecular identification (16S rRNA) was performed.
4. Methods are clearly described.

### Weakness:

1. Biological activity is weak compared to standard drugs.
2. Conclusion should better match the results.
3. Some grammar and formatting errors are present.
4. Statistical details are limited.

### Overall assessment:

The manuscript covers an interesting research topic but requires improvement in language, result interpretation, and formatting before publication.

**Recommendation:** Manuscript accepted for publication after minor corrections.