

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
قَالُوا

سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا
إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

هَذَا قَوْلُ اللَّهِ الْغَفِيرِ

Biochemical Studies on Some Brown Algae in the Red Sea

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Professor Dr. :- ZAINAB Z. EL DARDIRI

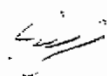
Professor of Biochemistry

Biochemistry Dept.

Faculty of Science

Ain Shams University

Cairo - Egypt.



Professor Dr. :- TAHANI M. MAHAREM

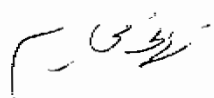
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Ain Shams University

Cairo - Egypt

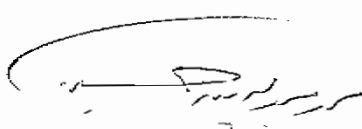


Professor Dr. :- M.M. HUSSEIN DARWISH

Professor of Natural & Microbial Products .

National Research Centre

Dokki - Cairo



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I am greatly indebted to National Research Centre for the financial support and facilities that enabled me to carry out this work

**Hassan Abdel Zahir Mohamed
1994**

**To My Parents .
To My Wife .
And To My Daughter
(ZAINAB) .**

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مَنْ ذَا الَّذِي غَفَرَ

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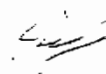
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Biochemistry Dept.

Faculty of Science

Ain Shams University

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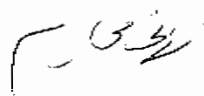
Professor of Biochemistry

Biochemistry Dept.

Faculty of Science

Ain Shams University

Cairo - Egypt



Professor Dr. :- M.M. HUSSEIN DARWISH

Professor of Natural & Microbial Products .

National Research Centre

Dokki - Cairo



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٩٤٢/٤١ : د. هادي عبد الله عبد الله
٩٤٢/٤١ : د. هادي عبد الله عبد الله



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Abstract

The chemical composition of each of the local brown algae :- *Cystoseira trinode*, *Sargassum linifolium*, *Turbinaria decurrens* and *Padina pavonia* was investigated during the four seasons of the year . Many products of fucose-containing polysaccharide materials were isolated from these algal species and then examined for their anticoagulation, antitumour and fibrinolytic activities . The polysaccharide material obtained from *S. linifolium* (collected in January) appeared as the most biologically active product. Accordingly, it was the target of a specific study aiming at the elucidation of its structural features .

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