

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



بعض الوثائـــق الإصليــة تالفــة



بالرسالة صفحات لم ترد بالإصل

Characterization of cell attachment factors in camel sera

Thesis Submitted for Partial Fulfillment of Master Degree in Biochemistry

By **Ehab Aly Drees Hassan** B.Sc. Biochemistry Faculty of Science Ain Shams University 1991

Supervised by

PROF. DR.

Ibrahim H. Borai

Prof. of Biochemistry

Biochemistry Dept.

Faculty of Science

9 hers

Ain Shams University

 \mathcal{DR} Ahmed F. Wahby

Assist. Prof. of immunochemistry

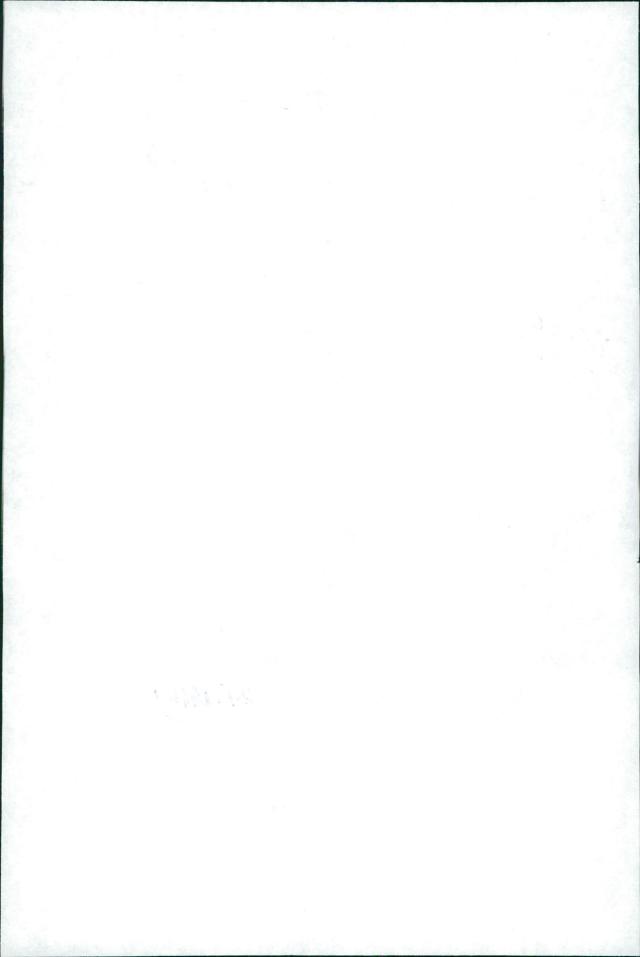
Molecular Biology Dept.

Genetic Engineering Division

National Research Centre

A.F. Wahby

Ain Shams University Faculty of Science Department of Biochemistry (1999)

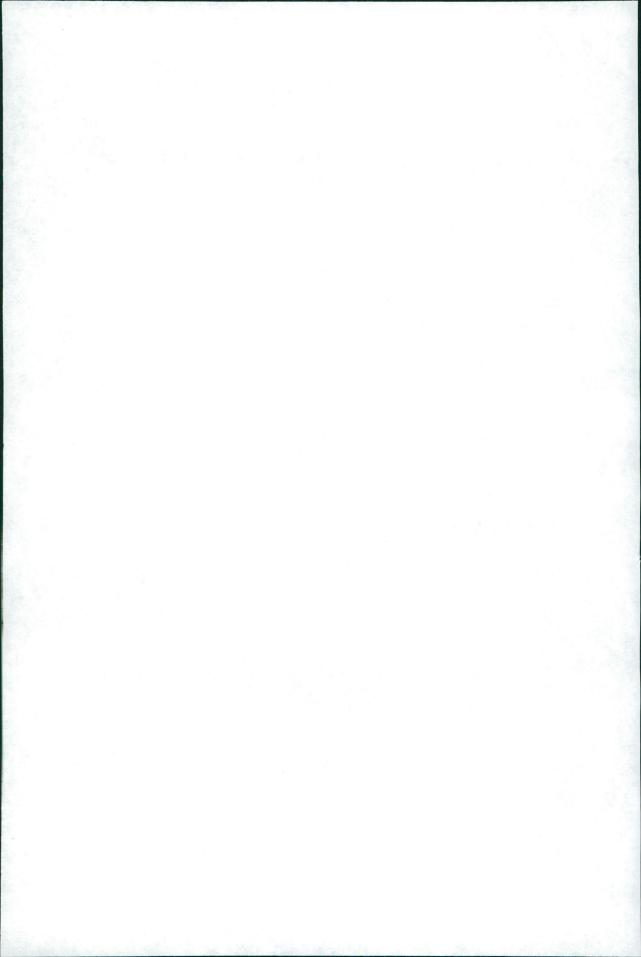


Characterization of cell attachment factors in camel sera

Board of Scintific Supervision

Professor Dr. Ibrahim Hassan Borai Professor of Biochemistry Faculty of Science Ain Shams University Cairo - Egypt

Dr. Ahmed Fikry Wahby
Assist. Professor of Immunochemistry
Molecular Biology Deprtment
Genetic Engineering Division
National Reaearch Center
Dokki - Cairo - Egypt

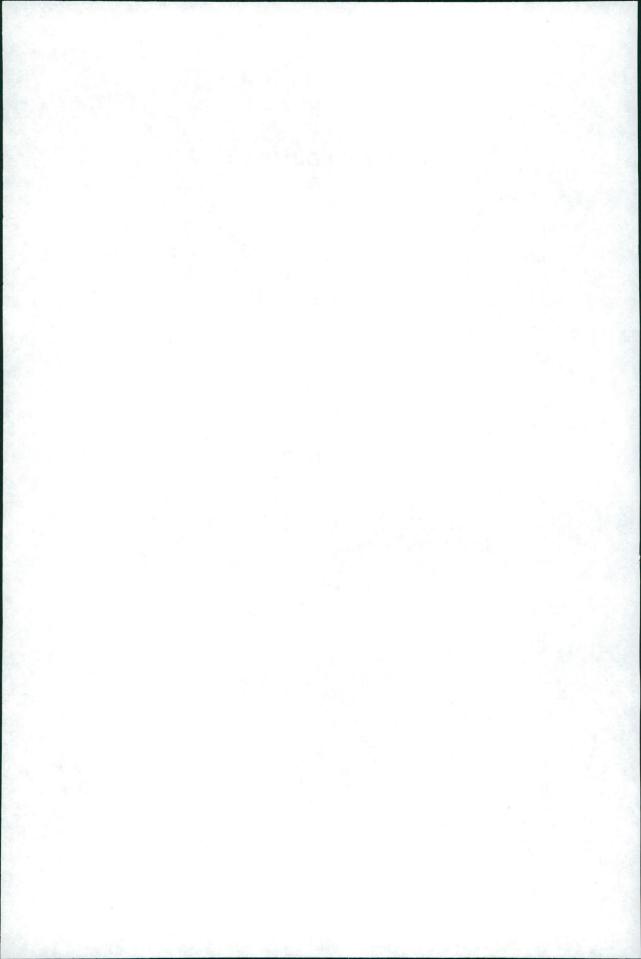


ACKNOWLEDGMENT

I would like to express my sincere thanks to PROF. DR. Ibrahim Hassan Borai. Prof of Biochemistry, Depatment of Biochemistry, Faculty of Science, Ain Shams University for his close supervision, kind help, and valuable criticism.

I owe special thanks, deepest feeling and sincere gratitude to DR. Ahmed Fikry Wahby, ASSIST. PROF. of Immunochemistry, Department of Molecular Biology, National Research Center for suggesting this point, valuable supervision, continous guidance, sympathetic help, and encouragment. It was a great honor to work under his supervision.

Deepest gratitude is indebted to the National Research Center for the facilities that enabled me to participate in this work.



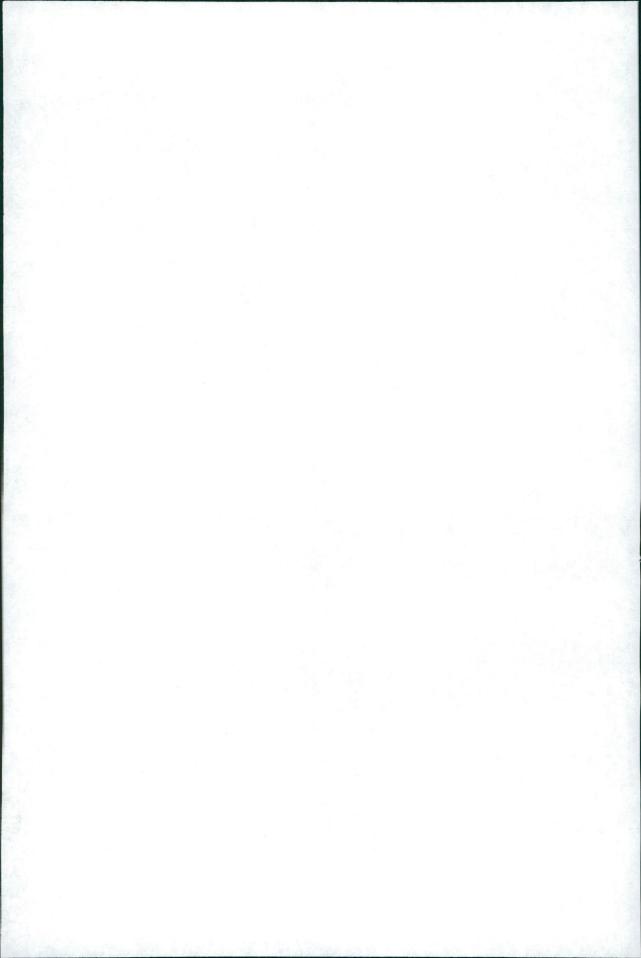


TABLE OF CONTENTS

P	age
	_
-ABSTRACT	
-LIST OF FIGURES	
-LIST OF TABLES	
-LIST OF ABBREVIATIONS	IV
-AIM OF THE WORK	
-INTRODUCTION	-1
-MATERIALS AND METHODS	-28
Chemicals and Reagents	-28
-METHODS	29
1-Purification of camel plasma FN	29
2-Fragmentation of camel plasma FN	30
3-Affinity chromatography of camel	
plasma on heparin-Sepharose column	31
4-Chemical analyses	-32
[a]-Determination of protein by the method of	
Bradford	
[b]-Amino acids composition analysis by HPLC	
1]-Acid hydrolysis of camel FN for all determi-	
nation of amino acids except cysteine and	
tryptophan	34
2]-Amino acid derivatization	34
3] HPLC of amino acid	35
[c]-Carbohydrate composition of FN	35
1]-By HPLC	3
2]-Phenol-Sulfuric acid assay for estimation of to	otal
carbohydrates	3

	Page
5-Electrophoretic Technique	39
Sodium dodecyl sulfate-polyacrylamide gel	
electrophoresis (SDS-PAGE) according to the	
method of Laemmli	39
6-Preparation of rabbit anti-camel anti-sera	
or anti-FN	44
[a]-Preparation of rabbit IgG from anti-camel ant	i-
sera or anti-FN using DEAE-cellulose column	
[b]-Biotinylation	
[c]-Western blot	
7-Chromatographic Techniques	48
[a]-Affinity chromatography of camel serum and	
plasma on Con A Sepharose column	48
[b]-Gel filtration chromatography of camel serum	ı
and camel GPs	49
1-By Sephadex G-200 column	
2-By Sepharose 4B column	49
[c]-Chromatography of camel serum GPs on	
Sephacryl S-200 column	
8-Cell attachment assay	54
RESULTS	55
PART I	55
-Partial purification and characterization of a	cell
attachment factors	
[a]-Isolation of cell attachment factors from came	1 *
serum	5