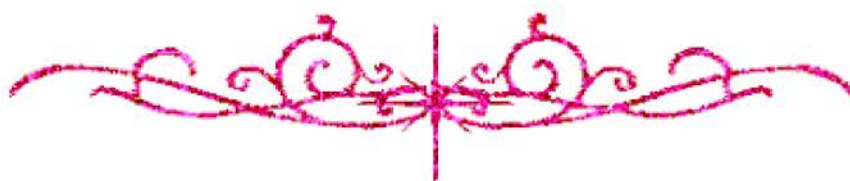


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بسم الله الرحمن الرحيم



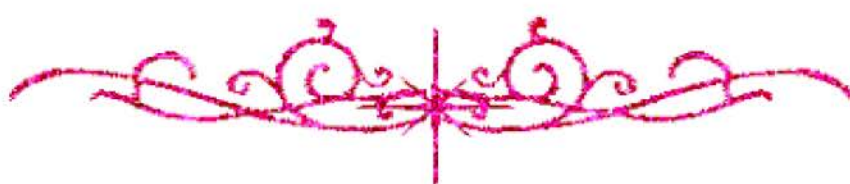
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شبكة المعلومات الجامعية



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



سامية محمد مصطفى



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

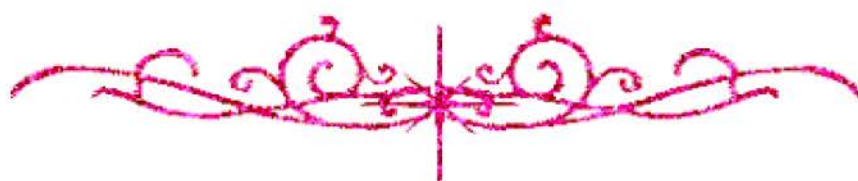
قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



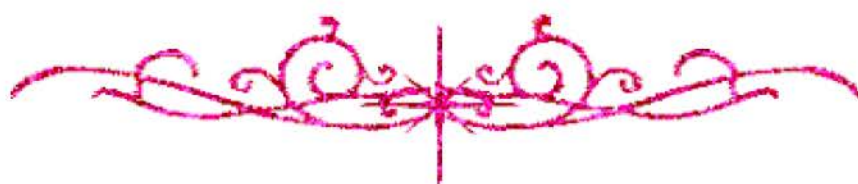
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بعض الوثائق الأصلية تالفة



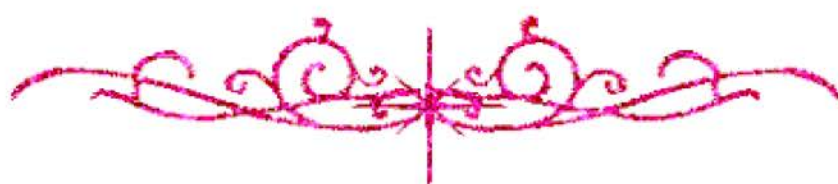
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شبكة المعلومات الجامعية



بالرسالة صفحات لم ترد بالأصل



SERUM THROMBOPOIETIN LEVEL IN PATIENTS WITH CHRONIC LIVER DISEASE

Thesis

Submitted for Partial Fulfillment of
Master Degree in
Tropical Medicine

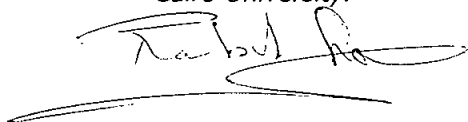
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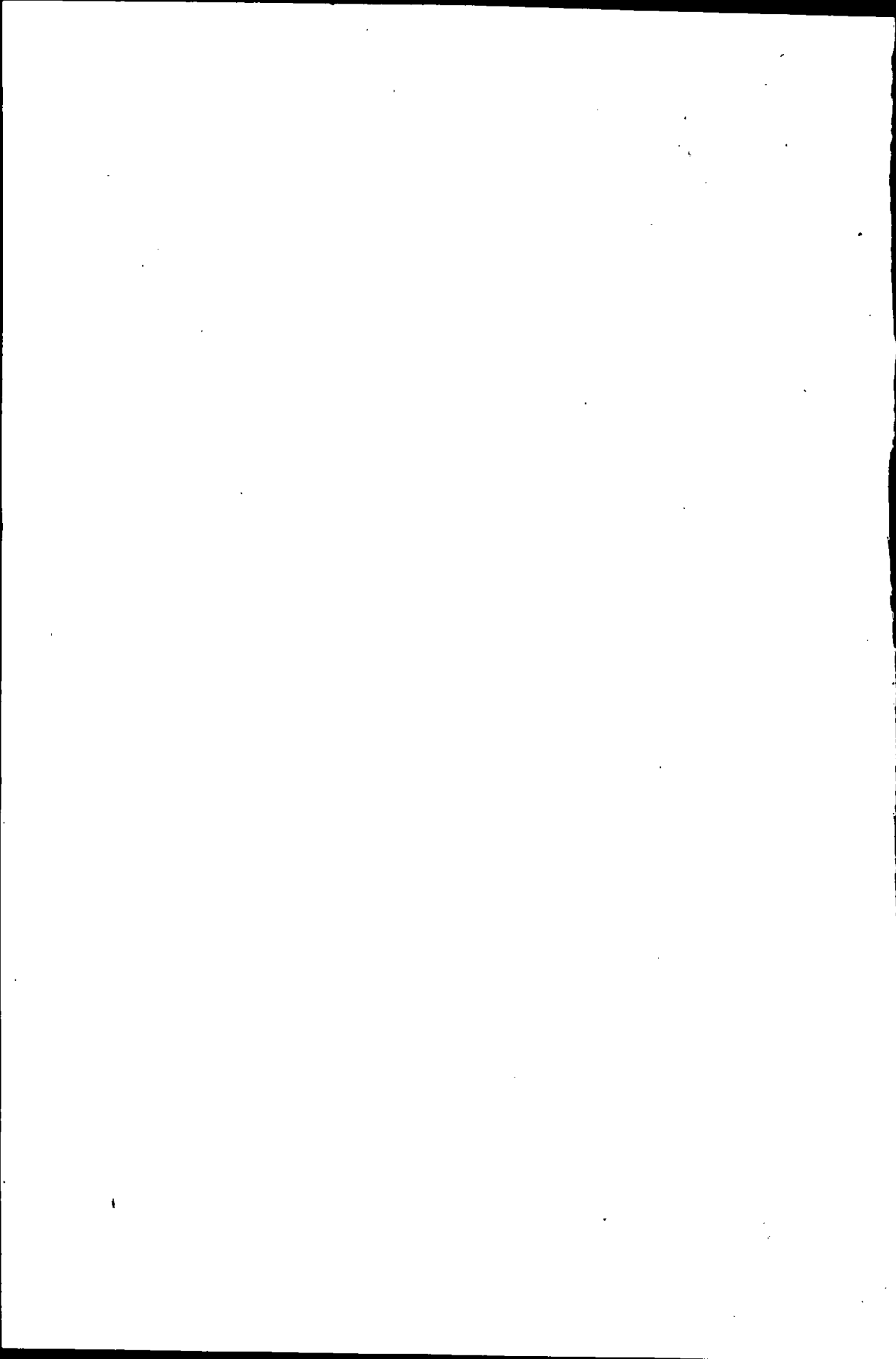


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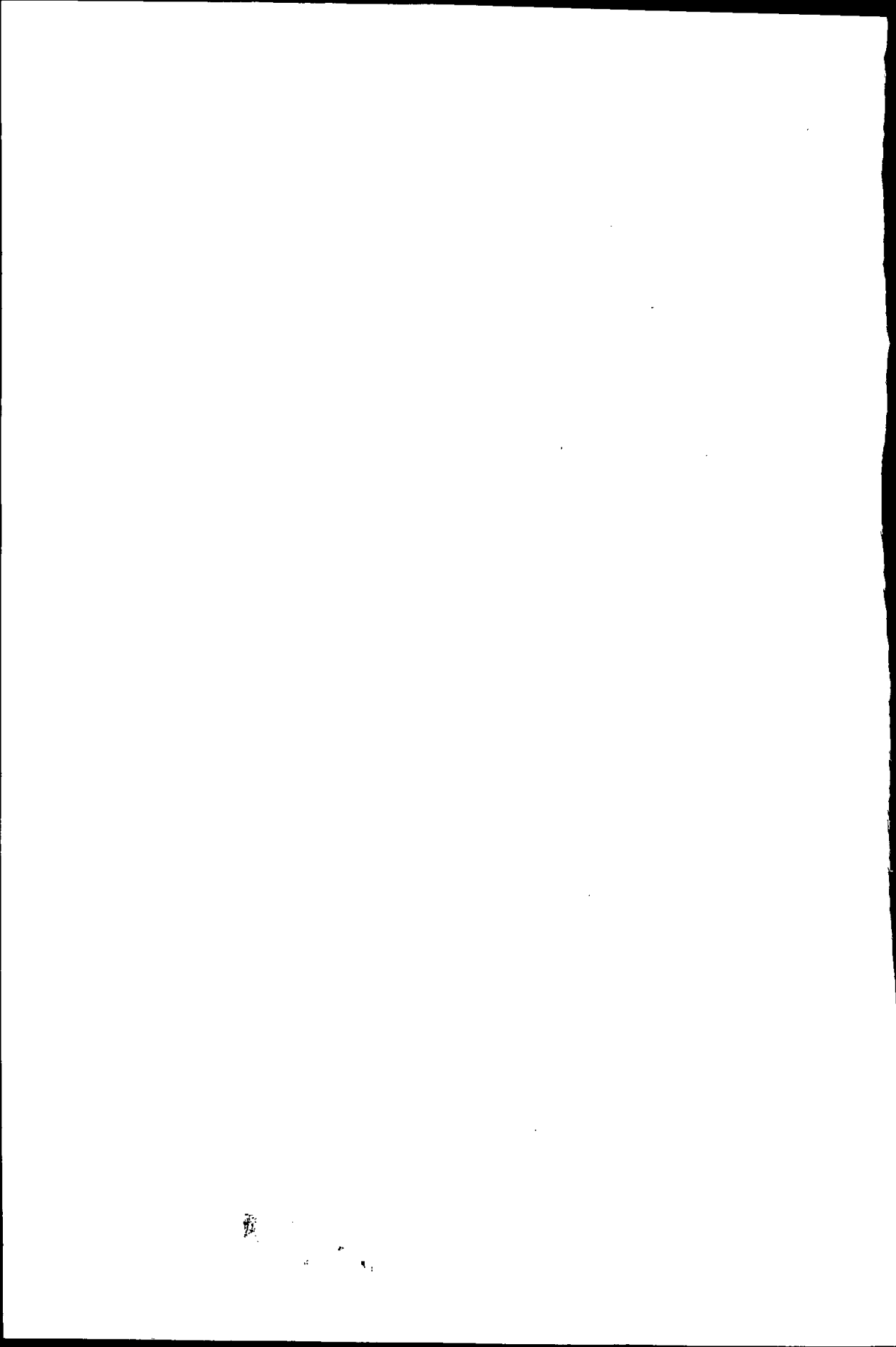


ABSTRACT

Thromboprotein is considered to be the primary growth factor for regulating megakaryopoiesis and thrombopoiesis. It do its action through binding to its receptor (Thromboprotein receptor) present in platelets megakaryocytes. The predominant site of TPO production is liver and to lesser density the kidneys. Reticulated platelets is the most recent platelets released in the circulation. We found that TPO level decrease with advancement of liver disease while TPO receptor, reticulated platelets increase.

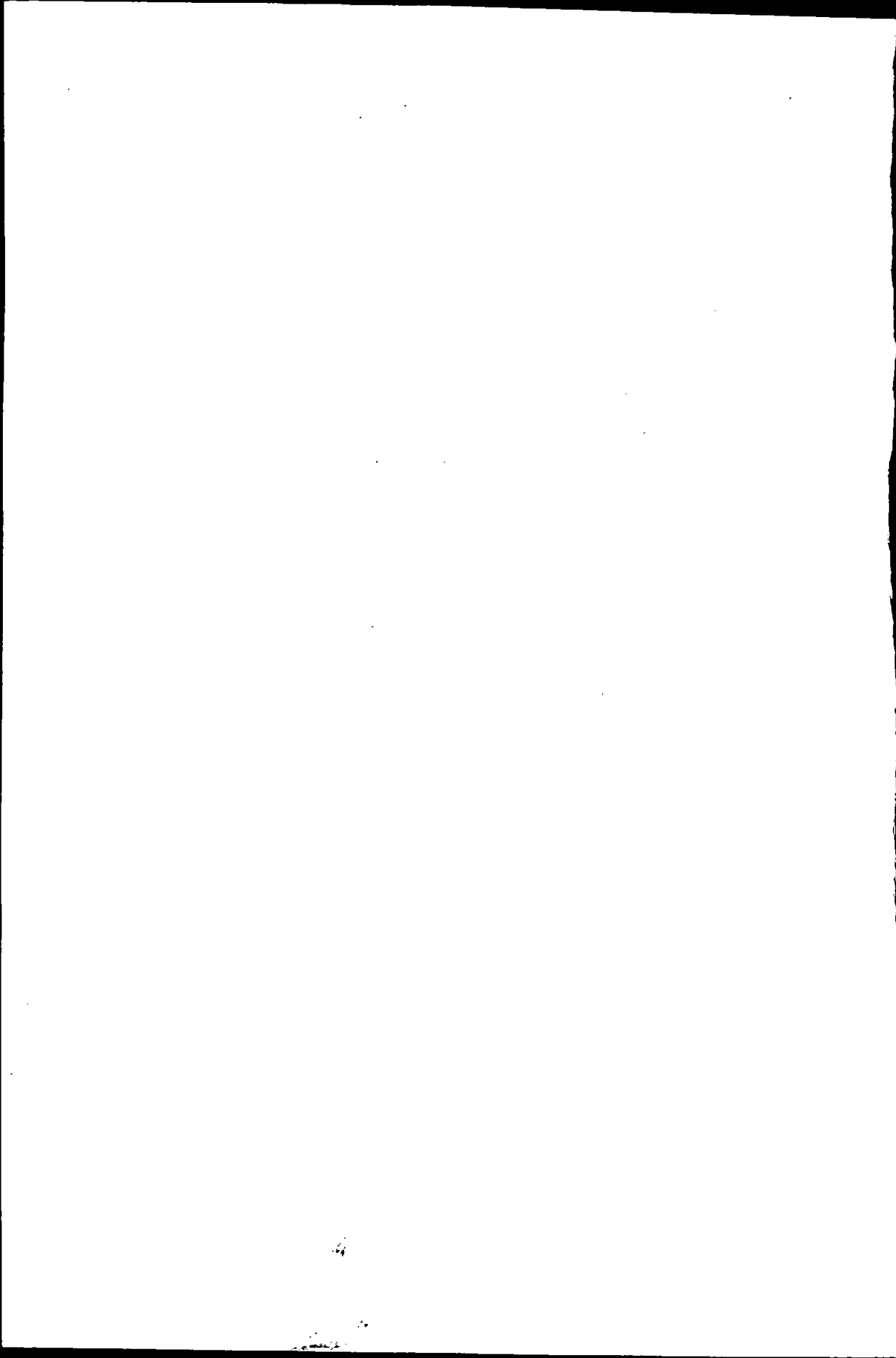
Key Words:

Thromboprotein, thromboprotein receptors,. reticulated platelets.



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First and foremost, thanks are due to *my God*, the most Beneficent and Merciful.

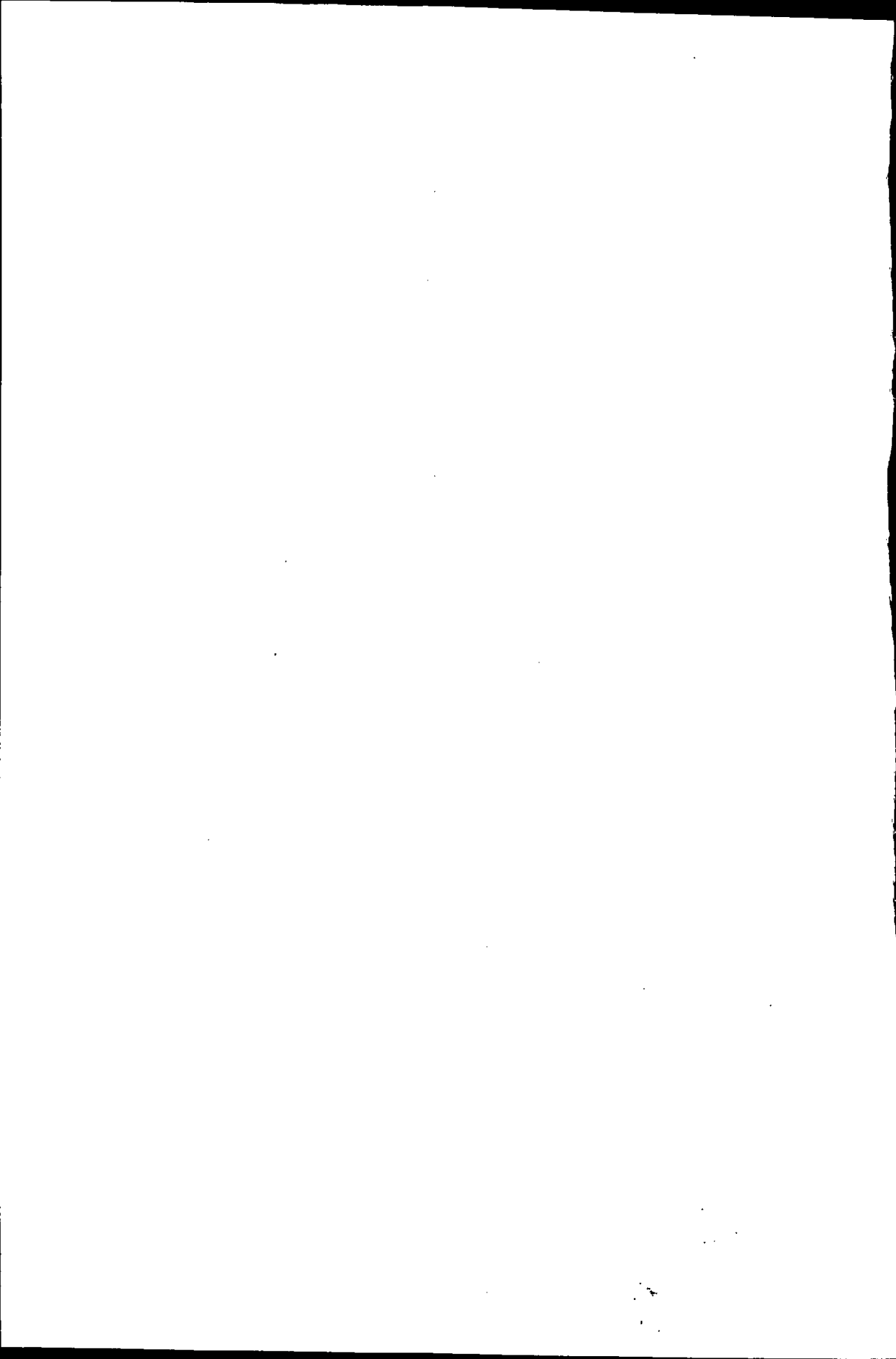
I wish to express my cordial thanks to *Dr. Mahassen Abd El-Rahaman Mabrouk* Professor of Tropical Medicine, Cairo University, her generous flow of support and constructive remarks were a valuable credit throughout the preparation of this work.

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Last but not least, I would like to express my feelings to all the patients, to whom we dedicate all our efforts.

Charwat Mossa



ABBREVIATIONS

ADP	Adenosine diphosphahte
ATP	Adenosine triphosphate
BFU-MK	Burst forming unit megakaryocytes
BM MK	Bone marrow megakaryocyte
BM	bone marrow
BTG	Beta thromboglobulin
cDNA	Complementary DNA
CFU-GEMM	Colony-forming unit gronulocyte-erythroid-macrophage-megakaryocyte
CFU-MK	Colony-forming unit-megakaryocyte
CLD	Chronic liver disease
c-mPL	cloned myeloproliferative leukemia
DIC	Disseminated intravascular coagulopathy
DIH	Dimmer interface homology
EDTA	Ethylene diamino tetra acetic acid
ELISA	Enzyme-linked-immunosorbent assay
EPO	Erythropoeitin
G-CSF	Granulocyte colony-stimulating factor
GDP	Guanosine diphosphate
GM-CSF	Granulocyte-macrophage colony stimulating factor
Gp	Glycoprotein.
GTP	Guanosine triphosphate
HBcAb	Hepatitis B core antibody

HBsAg	Hepatitis B surface antigen
HBV	Hepatitis B virus
HCV	Hepatitis C virus
HCVAbs	Hepatitis C antibody
HLT	Heterotopic liver transplantation
Ig	Immunoglobulin
IL	Interleukin
ITP	Idiopathic thrombocytopenic purpura.
JAK	Janus kinase
LAMP	Lysosomal-associated membrane protein
LC	Liver cirrhosis
LD-CFU-MK	Light-density colony-forming unit megakaryocyte
LEC	Liver endothelial cells.
LIF	Leukemia inhibitory factor
LIMP	Lysosomal membrane Glycoprotein
MAPK	Mitogen activated protein kinase
MGDF	Megakaryocyte growth and development factor
MK-CSF	Megakaryocyte-colony stimulating factor
MKs	Megakaryocytes
MPL	Myeloproliferative leukemia
MPV	Mean platelet volume
mRNA	Messenger ribonucleic acid
OLT	Orthotopic liver transplantation
PAF	Platelet activating factor
PAIg	Platelet associated immunoglobulin