



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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Correlations between TIMP1, VEGF and joint magnetic resonance imaging (MRI) finding in severe haemophilia A children

Thesis

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*✍ **Mervat Abd Elhakim Hussain Soliman***

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List of Abbreviations

<i>Abbr.</i>	<i>Full-term</i>
ACTH	: Adrenocortical trophic hormone
ADAM	: A Disintegrin and metalloprotease
ALP	: Alkaline phosphatase
APCC	: Activated prothrombin complex concentrates
AUC	: Area Under ROC curve
Axna2	: Annexin a2
BMI	: Body Mass Index
BT	: Bleeding time
Ca	: Calcium
CFCs	: Clotting factor concentrates
CNS	: Central nervous system
CTGF	: Connective tissue growth factor
DCs	: Dendritic cells
EC	: Endothelial cells
ERK1	: Extracellular signal-regulated kinase 1
FDA	: Food and Drug Administration
Fe²⁺	: Iron
FVIII	: Functional plasma clotting factor VIII
GE	: Gradient echo
GPCR	: G protein-coupled receptor
H₂O₂	: Hydrogen peroxide

HA	: Hemophilia A
HB-EGF	: Heparin-binding epidermal growth factor.
HGF	: Hepatocyte growth factor
HIF1A	: Hypoxia-inducible factor-1A
HIV	: Human immunodeficiency virus
HJD	: Hemophilic joint disease
HJHS	: Hemophilia joint health score
IgG	: Immunoglobulin G
IL	: Interleukin
IPSG	: International Prophylaxis Study Group
Kb	: Kilobases
LIF	: Leukaemia inhibitory factor
LRP1	: Lipoprotein receptor-related protein 1
LSECs	: Liver sinusoidal endothelial cells
MAPKs	: Mitogen-activated protein kinases
MMPs	: Matrix metalloproteinases
Mo/Mφ	: Macrophages
MRI	: Magnetic Resonance Imaging
NO	: Nitric oxide
NP	: Neuropilins
OA	: Osteoarthritis
OPG	: Osteoprotegerin
P	: Phosphate
PAIs	: Plasminogen activator inhibitors,
PDGF	: Platelet derived Growth Factor

PE	: Physical Examination
PIGF	: Placenta Growth factor
PT	: Prothrombin Time
PTT	: Partial thromboplastin time
PUPs	: Previously untreated patients
RA	: Rheumatoid arthritis
RANK	: Receptor activator of nuclear factor
RANKL	: RANK ligand
RBC	: Red blood cell
rFVIII	: Recombinant Functional plasma clotting factor VIII
rm	: Recombinant murine
ROC	: Receiver-operating characteristic
ROM	: Range Of Motion
ROS	: Reactive oxygen species
RTKs	: Receptor tyrosine kinases
SD	: Standard deviation
SE	: Standard error
SPSS	: Statistical package for social science
T1KO	: TIMP-1 knockout
TGFβ	: Transforming growth factor- β
TIMP-1	: Tissue Inhibitor of Metalloproteinase
TIMPs	: Tissue inhibitors of matrix metalloproteinases
TK	: Tyrosine kinase
TNF	: Tumor necrosis factor
TNFR1	: Tumour necrosis factor receptor 1

tPA	: Tissue-type plasminogen activator
TT	: Thrombin Time
uPA	: Urokinase-type plasminogen activator
US	: Ultrasound
VEGF	: Vascular Endothelial Growth Factor
VEGFR	: Vascular endothelial growth factor receptor
VPF	: Vascular permeability factor
vWD	: von Willebrand disease
WFH	: World Federation of Hemophilia
WT	: Wildtype

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