



MOLECULAR AND CELLULAR BIOLOGY OF NEOPLASTIC AND NON-NEOPLASTIC LESIONS OF MUSCULOSKELETAL SYSTEM

ESSAY

**SUBMITTED FOR PARTIAL FULFILLMENT
OF MASTER DEGREE OF ORTHOPAEDICS**

By

Amr Adel Abdel Aal

M. B; B. ch - Ain Shams University

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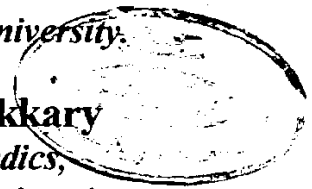
Supervised by

Prof. Dr. EL-Sayed Mohamad Wabb

*Professor of Orthopaedics,
Faculty of Medicine , Ain Shams University.*

Dr. Mohamad Sadek EL-Sokkary

*Assistant professor of Orthopaedics,
Faculty of Medicine , Ain Shams University.*



Dr. Nahed Samy Khamis

*Assistant professor. of Pathology,
Faculty of Medicine , Ain Shams University.*

Faculty Of Medicine

Ain Shams University

1997

فيسر محمد صبرى
1997

فيسر محمد صبرى

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*This work is dedicated to
my mother and father*



Acknowledgements

First of all thanks to GOD.

I wish to express my deepest gratitude and thanks to Professor Dr. EL-Sayed Mohamad Wahb Professor of Orthopaedics, Ain Shams University, for giving me the privilege of being under his supervision in this essay, This constant encouragement and constructive guidance were of paramount importance for the initiation and progress of this work .

I would like to express my sincere thanks to Professor Dr. Mohamad Sadek EL-Sokkary, Assistant Professor of Orthopaedics, Ain Shams University for his remarkable effort, considerable help, and continuous supervision and guidance, which were the major factors behind the completion of this essay .

I would like to express my sincere thanks to Professor Dr. Nahed Samy Khamis Professor of pathology Ain Shams University for her unlimited effort, continuous help and supervision during writing this essay.

LIST OF ABBREVIATION

%	Percentage
A	Adinine
ABC	Aneurysmal bone cyst
ACTH	Adrenocorticotrophic hormone
AJC	American joint committe
Ala	Alanine
Arg	Arginine
Asn	Asparagine
ASP	Aspartic acid
ATP	Adenosine triphosphate .
B	Beta
BMD	Becker muscular dystrophy .
C	Cytosine
c DNA	Complementary deoxyribonucleic acid
C.K	Ceriatine kinase
C.T	Computed tomography .
Cys	Cystine
DMD	Duchenne muscular dystrophy
DNA	Deoxyribonucleic acid
DNA se	Deoxyribonuclease
E.Coli	Escherichia coli
EDTA	Ethylene diaminetetraacid
ELISA	Enzyme linked immuno sorbent assay
EMG	Electromyogram
FGF	Fibroblast growth factor
G	Grade in staging system
G	Guanine
Go stage	Resting cell
G1 stage	First gap stage
G2 stage	Second gap stage

List of abbreviation

GCT	Gaint cell tumor
Glu	Glutamic acid
Gly	Glycine
GTPase	Guanosine triphosphatase
His	Histidine
Ile	Isoleucine
ISH	In situ hybridization
K.b	Kilo base
Leu	Leucine
M	Metastases
MAS	Mc Cune- Albright Syndrome
Met	Methionine
m RNA	Messenger ribonucleic acid
MFH	Malignant fibrous histiocytoma
NaOH	Sodium hydroxide
NB	Nitrogenus base
N.B.	Nota bene
nm	Nano meter
P	Phosphate group
p	Symbol of the short arm of a chromosome
PH	negative logarithm of H^+
Phe	Phenylalanine
Pro	Proline
PS	Pentose sugar
q	Symbol of the long arm of a chromosome
RB	Retinoblastoma .
RFLPs	Restriction fragment lengh polymormorphism
RIBA	Recombinant immuno blot assay
RNA	Ribonucleic acid
RNase	Ribonuclease
S stage	Synthesesis stage

List of abbreviation

Ser	Serine
SSS	Surgical staging system
T	Thymine
T	Site in staging system
t	Symbol for translocation
Taq	Thermus aquaticus
Thr	Threonine
tRNA	transfer ribonucleic acid
Trp	Tryptophan
Tyr	Tyrosine
U	Uracil
UV	Ultra violet
Val	Valine



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