# TCF\*-PBX \ Fusion Gene in Egyptian Pediatric Acute Lymphoblastic Leukaemia

Thesis

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Ву

Shimaa Mohamed Ahmed Ibrahem M. B., B. Ch. Ain-Shams University

## Supervised By

#### Professor/ Hoda Mohamed El Gendi

Professor of Clinical and Chemical pathology Faculty of Medicine- Ain-Shams University

#### Professor/Amal Abd El Hamed Mohamed

Professor of Clinical and Chemical pathology Faculty of Medicine- Ain-Shams University

Doctor/ Doaa Ahmed Gamal Eissa

Lecturer of Clinical and Chemical pathology Faculty of Medicine- Ain-Shams University

> Faculty of Medicine Ain-Shams University

> > 7.17



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## List of Abbreviations

١F	One Fusion signals
۲F	Two Fusion signals
۳-D FISH	Υ-Dimensional FISH
ABL	Abelson
ALL	Acute lymphoblastic leukemia
AML	Acute Myeloid leukemia
ANC	All nucleated cells
APL	Acute promyelocytic leukemia
AUL	Acute undifferentiated leukemia
BAL	Biphenotypic acute leukemia
B-ALL	Precursor B-cell acute lymphoblastic leukemia
BCR	Breakpoint cluster region
bHLH	Basic helix- loop- helix
BLL	Acute bilineal leukemia
BM	Bone marrow
BM R	Bone mrrow replase
BUN	Blood urea nitrogien
CBC	Complete blood cell count
CBF	Core binding factor
CBFA-Y	Core binding factor alpha-Y
CC	Conventiunal cytogenetic
CEL	Chronic eosinophilic leukemia
cenM- FISH	centromere M-FISH
cIg	Cytoplasmic heavy chain immunoglobulin
CLL	Chronic lymphoctic leukemia
CML	Chronic myeloid leukemiaq
C-MYC gene	Cellular myelocytoma gene
CNS	Central nervous system

#### 🕮 List of Abbreviations 🗷

CNS R	Central nervous system relapse
COG	Children's onocology group
CR	Complete remission
CR	Complete remission
CRT	Second remission
CSF	Cerebrospinal fluid
DAPI-II	Diamidine phenyle indole dihydrochloride II
DAZAP	Deleted Azospermia- Associated Protein \
D-FISH	Dual color dual Fusion- FISH
DFS	Disease-free survival
DI	DNA Index
DNA	Deoxyribonucleic acid
DW	Distilled water
EYA-PBXY	Transcription factor EYA- pre B cell leukemia
	homeobox 1.
EDTA	Ethylene diamine tetraacetic acid
EFS	Event- free survival
ETVB-	ETS translocation variant \( \cdot - \text{Runt related transcription} \)
RUNX	factor X <sup>1</sup>
FAB	French- American- British
FCI	Flowcytometry immunophenotyping
FCS	Fetal calf serum
FISH	Fluorescence in situ hybridization
FLT-۳	FMS-like Tyrosine Kinase-*
Hb	Hemoglobin
HLA	Human leukocyte antigen
HLA-DR or	Human leukocyte differentiation antigen
DR	
HLF	
HM	Hepatomegaly
HOX	Homeobox gene

## 🚨 List of Abbreviations 🗷

HSCT	Hematopoietic stem cell transplantation
HTX gene or	ALLI, human trithora X gene
HTRX gene	, C
IG	One green signal
IKZFI	Ikarose family zinc finger protein \
IPT	Immunophenotyping
IQ-FISH	Interphase Q-FISH
IR	One red signal
IT	Intrathecal
Kb	Kilobase
K-PCR	Kinetic polymerase chain reaction
LDH	Lactic dehydrogenase
LN	Lymphadenopathy
MEFYD	Myocyte enhancer factor YD
M-FISH	Multiplex FISH
MLL	Mixed linease leukemia gene
MPAL	Mixed phenotype acute leukemia
MPO	Myeloperoxidase
MRD	Minimal residual disease
M-TEL-FISH	Multiplex Telomere FISH
NCI	National Cancer Institute
NHEJ	Non-homologous end joining
NK	Natural killer
NOS	Not otherwise specified
P value	Probability level
PB	Peripheral blood
PCM	Plasma cell myeloma
PCR	Polymerase chain reaction
Ph	Philadelphia
PML-RARA	
PNA	Peptide nucleic acid

#### 🕮 List of Abbreviations 🗷

PNA- FISH	Peptide nucleic acid FISH
POG	Pediatric oncology group
Q-FISH	Quantitative FISH
Q-PCR	Quantitative real- time polymerase chain reaction
R	Relapse
RNA	Ribonucleic acid
RPMI	Roswell park memorial institute
RT-PCR	Real time polymerase chain reaction
SD	Standard deviation
sIg	Surface immunoglobulin
SKY	Spectral karyotping
SLL	Small lymphocytic lymphoma
SM	Splenomegaly
SSC	Standard saline citrate
STELA	Single telomere length analysis
subcen M-FISH	subcentromere M-FISH
T value	Student's test
TAL	Three amino acid loop \ gene
T-ALL	Precursor T-cell acute lymphoblastic leukemia
TCF <sup>r</sup> -PBX <sup>1</sup>	Transcription factor <sup>r</sup> - pre B cell leukemia homeobox <sup>1</sup>
TCR	T-cell receptor
TdT	Terminal deoxyncleotidyl transferase
TEL-AML	Telo-acute myeloid leukemia \
TKIs	Tyrosine Kinase Inhibitors
TLC	Total leukocytic count
WBCs	White blood cells
WCPP	Wole chromosome painting probe
WHO	World health organization
X	Chi square test
Z Value	Mann- whitney test

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