

NUCLEIC ACID ANALYSIS AND ITS APPLICATION IN HEMATOLOGICAL MALIGNANCIES

Essay

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List of Abbreviations

- **A** Adenine.
- **a.a** Amino acid.
- **5-AC** 5-Azacytidine, demethylating agent.
- **ALCL** Anaplastic large cell lymphoma.
- **ALK gene** Anaplastic lymphoma kinase (protein kinase gene).
- **ALL** Acute lymphoblastic leukemia.
- **AML** Acute myeloid leukemia.
- **ARMS-PCR** Amplification refractory mutation system - polymerase chain reaction.
- **ASCT** Autologous stem cell transplantation.
- **ASOH** Allele specific oligonucleotide hybridization.
- **ATP** Adenosine triphosphate.
- **BL** Burkitt's lymphomas.
- **BMT** Bone marrow transplantation.
- **bp** Base pair.
- **C** Constant gene segment.
- **C** Cytosine.
- **CCA** Conventional chromosome analysis.
- **CD** Cluster differentiation.
- **cDNA** Complementary deoxyribonucleic acid.
- **CGH** Comparative genomic hybridization.
- **CISS** Chromosomal in situ suppression.
- **CLL** Chronic lymphocytic leukemia.
- **CMML** Chronic myelomonocytic leukemia.

List of Abbreviations

• CML	Chronic myelogenous leukemia.
• CR	Complete remission.
• CRM	Cross - reacting material.
• DNA	Deoxyribonucleic acid.
• dNTPs	Deoxynucleotides triphosphates.
• ds	Double stranded.
• ECOR I	Escherichia coli restriction enzyme 1.
• EF	Elongation factor.
• FA	Folic acid.
• FAB	French - American - British classification.
• Fas-L	Fas ligand.
• Fas-R	Fas receptor.
• FGFR3	Fibroblast growth factor receptor 3.
• FISH	Fluorescent in situ hybridization.
• FR	Folate receptor.
• G	Guanine.
• GC	Germinal center.
• G-CSF	Granulocyte - colony stimulating factor.
• GTP	Guanosine triphosphate.
• HD	Hodgkin's disease.
• HIP1 gene	Huntigtin interactin protein 1 gene.
• HLA	Human leucocytic antigen.
• HLS	Hematopoietic - lymphoid system.
• HRS	Hodgkin and Reed - Sternberg cells.
• IF	Initiation factor.
• IFN-α	Interferon - α .

List of Abbreviations

• IGH	Immunoglobulin heavy chain.
• J	Joining gene segments.
• Kb	Kilo base.
• LCR	Ligase chain reaction.
• LDCA	Low dose cytosine arabinoside.
• MCL	Mantle cell lymphoma.
• MDR1 gene	Multiple drug resistance 1 gene.
• MLC	Mix lymphocyte culture.
• MM	Multiple myeloma.
• MRD	Minimal residual disease.
• m RNA	Messenger ribonucleic acid.
• MRNPs	Messenger ribonucleic particles.
• NHL	Non - Hodgkin's lymphoma.
• NPM gene	Nucleophosmin gene.
• PAA	Polyacrylamide gel.
• PBPC	Peripheral blood progenitor cells.
• PCR	Polymerase chain reaction.
• PDGF beta R gene	Platelet - derived growth factor beta receptor gene.
• Ph	Philadelphia chromosome.
• PTK	Protein tyrosine kinase.
• p73 gene	Tumor suppressive gene.
• QC-RT-PCR	Quantitative competitive - reverse transcriptase - polymerase chain reaction.
• RE	Restriction enzyme or restriction endonuclease.
• RF	Release factor.

List of Abbreviations

• RFLP	Restriction fragment length polymorphism.
• r RNA	Ribosomal ribonucleic acid.
• RNA	Ribonucleic acid.
• RT-PCR	Reverse transcription - polymerase chain reaction.
• SnRNPs	Small nuclear ribonucleic proteins.
• SSCP	Single strand confirmation polymorphism.
• t	translocation.
• T	Thymine.
• TCRG gene	T-cell receptor gamma gene.
• t RNA	Transfer ribonucleic acid.
• U	Uracil.
• UV	Ultra violet.
• V	Variable gene segment.
• VNTRs	Variable number of tandem repeats.
• WHSC1	Wolf - Hirschorn malformation syndrome.
• YAC	Yeast artificial chromosome.
• α-P³²	Radioactive phosphorous.

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