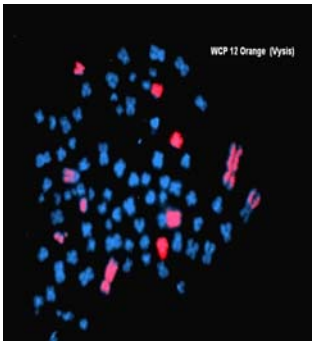
CEDARS-SINAI MEDICAL CENTER
Pathology Services

Molecular Pathology Assays & Consultation Service

PROGRAM HIGHLIGHTS

- **Integration** of molecular testing results with clinicopathological information
- **Pharmacogenomics-based warfarin** sensitivity assay
- **High-risk HPV** assay with reflex HPV16/18 highly associated with cancer
- **Ultrasensitive quantitative PCR** in CML for Gleevec therapy monitoring
- **Detection of short & variant form APL** by RT-PCR associated with ATRA resistance
- **Ultrasensitive B and T-cell receptor** gene rearrangement assay by PCR

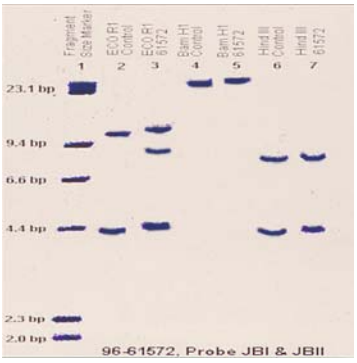


HEMATOPATHOLOGY

- **Lymphoproliferative disorders**
  - B & T-cell receptor gene rearrangements by PCR
  - B& T-cell receptor by Southern blot
- **Myeloproliferative Disorders**
  - Chronic Myelogenous Leukemia: Quantitative RT-PCR BCR-ABL (M-BCR & m-BCR)
  - Chronic Myeloproliferative Disorders (PV, ET, CIMF): Quantitative PCR JAK2 V617F
  - Acute Promyelocytic Leukemia: Quant RT-PCR for PML-RARA (bcr1, bcr2, & bcr3)

INFECTIOUS DISEASES

- HIV quantitative viral load
- HBV quantitative viral load
- HCV quantitative viral load and qualitative
- HCV genotyping
- Chlamydia trachomatis
- Neisseria gonorrhea
- HPV with reflex HPV16/18 on cytology and tissue
- Streptococcus

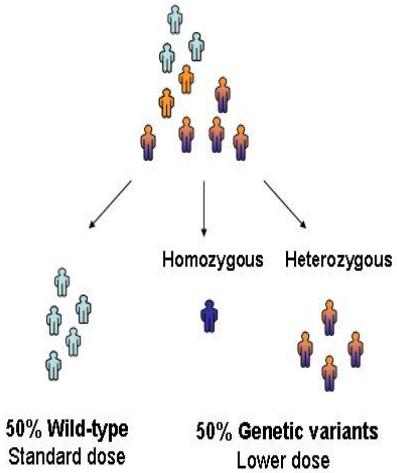


GENETICS

- Factor V Leiden mutation
- Prothrombin mutation
- MTHFR mutation

PHARMACOGENOMICS

- Warfarin sensitivity (CYP2C9 & VCORK1)
- Irinotecan sensitivity (UGT1A1)



To be released soon!

- Cystic Fibrosis by Invader, December 2007
- FLT3/NPM1 in cytogenetically normal AML by PCR, January 2008
- EGFR mutation by PCR Gefitinib sensitivity/resistance in non-small cell lung cancer, March 2008

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