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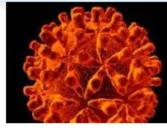
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Importance of Molecular Diagnostics in state of Maharashtra

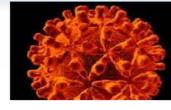
Dr. Pravin D. Potdar. M.Sc, Ph.D, DMLT, DHE, DMS



Head,
Department of Molecular Medicine & Biology,
Jaslok Hospital & Research Centre, 15, Dr. G. Deshmukh Marg,
Mumbai-400 026., India.



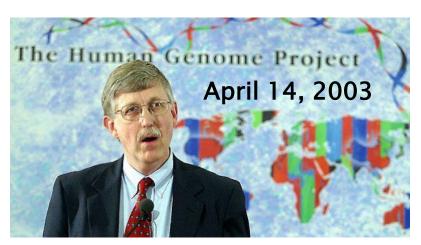
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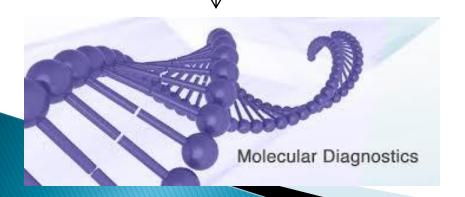
JASLOK HOSPITAL

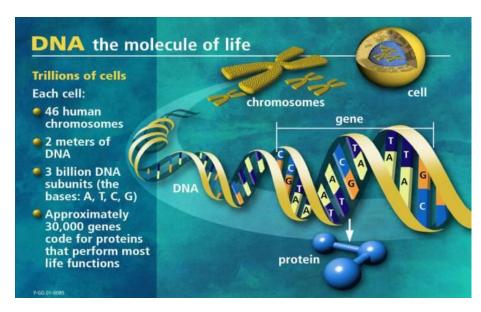
Molecular Diagnostics

NIH Director Francis Collins



Implementing New Discipline

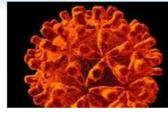




NIH Director Francis Collins, then-director of the U.S. National Human Genome Research Institute, announces that a six-country consortium has successfully drawn up a complete map of the human genome, completing one of the most ambitious scientific projects ever and offering a major opportunity for medical advances, April 14, 2003, at a press conference at the National Institute of Health in Bethesda, Md.



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National Institute of Environmental Health Sciences (NIEHS), NIH, USA (1995-1996)



Short term Scientist Exchange
program Award from
National Cancer Institute (NCI),
USA





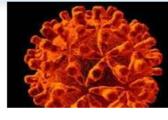
Dr. Paul Nettesheim M.D.
Research Director, NIEHS (NIH)

Differential Display study to identify Novel genes involved in mucocilliary differentiation of Rat & human Tracheobranchial epithelia cells





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Global Molecular Diagnostic Market

The global molecular diagnostics market will reach \$7,956.9 million by 2018, forecast period (2013–2018).

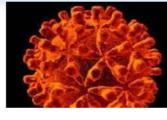
Indian Molecular Diagnostic Market

Expansion of Corporate Hospitals to Drive the \$331.7-Million Indian In-Vitro Diagnostics Market to \$900.2 Million in 2016





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Department of Molecular Medicine & Biology JASLOK HOSPITAL & RESEARCH CENTRE, MUMBAI



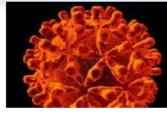
Join in April 2005

JASLOK HOSPITAL & RESEARCH CENTRE – Multi Specialty hospital, with 350 beds and almost 300 consultants





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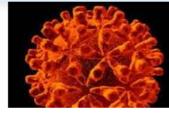
Major Goals To established well reputed and functional R&D Molecular Diagnostic Laboratory in India in following areas.

- Molecular Diagnostics for Cancers
- Molecular diagnostics for Infectious diseases
- Molecular Diagnostic for Neurological disorders
- Molecular Diagnostics for Genetic disorders
- Molecular Diagnostics for Hematological disorders.
- Molecular Diagnostics for Metabolic Syndromes
- Diabetic mellitus
- Hyper tension
- Cardiovascular diseases





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Major Instruments required for Molecular Diagnostics







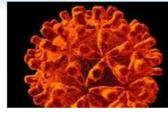
Latest Innovations

- •Next Generation sequencing
- Microchip analysis





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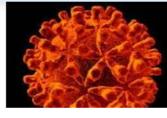
Major Types Molecular Diagnostic Tests

- •PCR For most of the genes
- •Real Time PCR Infectious diseases, Cancer etc
- •**DNA Sequencing** Mutational study, Drug resistant testing.
- •Micro array technology Microchip analysis to evaluate several genes in one test
- •Next Generation Sequencing useful is doing complete genome sequences useful in finding out hereditary disease, cancer & genetic & Neurological disorders





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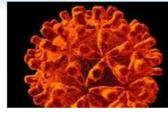


Success stories in Molecular Diagnostics





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University of Texas, M. D. Anderson Cancer Centre, Houston Texas, USA (2002-2004)





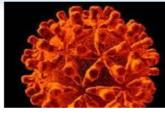
Research Scientist (Faculty position)

Molecular Targeted therapy in prostate and pancreatic cancer





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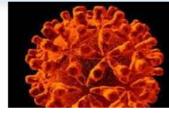


Hereditary Breast Cancer





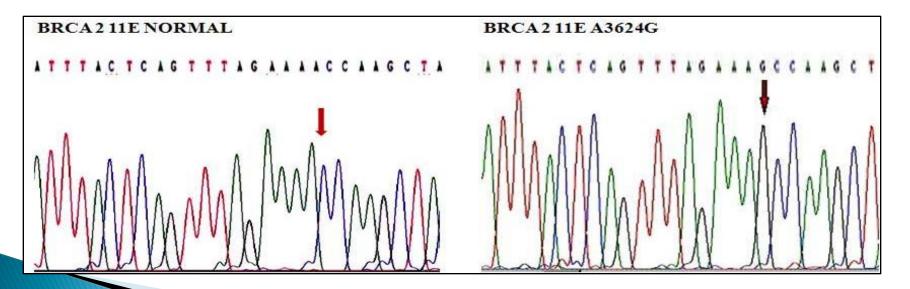
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Test for Familial Breast Cancer

Complete Genome Sequence for BRCA1 & BRCA 2

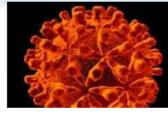
BRCA 211E Electropherograms of Normal and Breast cancer patient



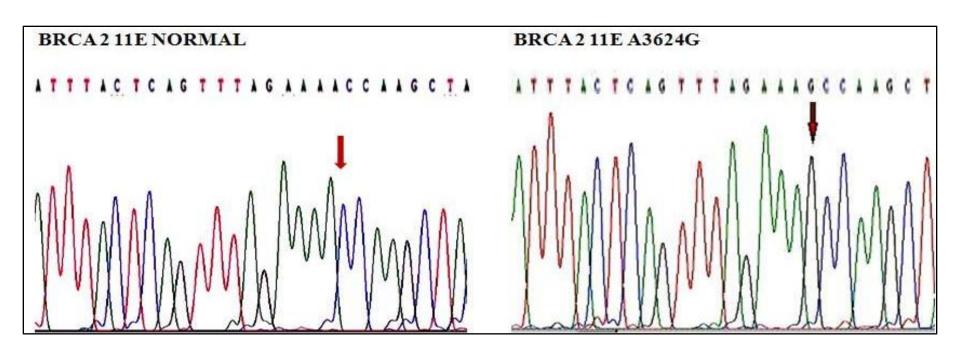




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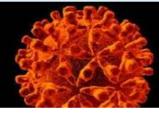
BRCA 211E Electropherograms of Normal and Breast cancer patient

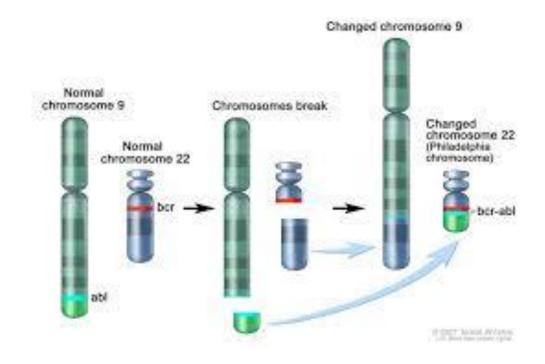






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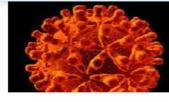


Chronic Myeloid Leukemia





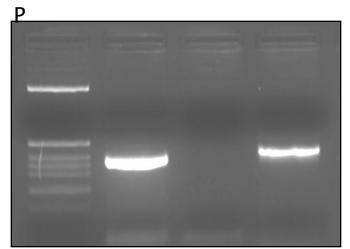
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Molecular Diagnostics for Hematological Disorders

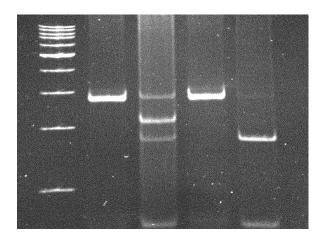
BCR-ABL PCR

M K567 N

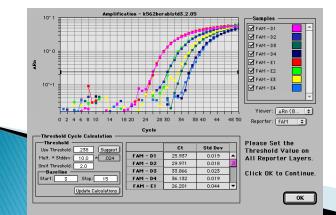


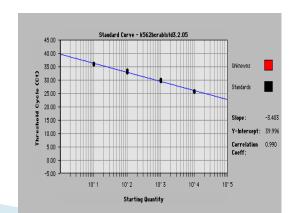
Factor V Leiden by RFLP

M +C +C P1 P2



CML Real Time PCR

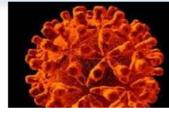








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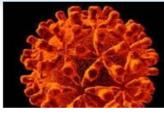
DNA sequenced methods for Molecular Diagnostics for Hematological Disorders

- 1. JAK-2 MUTATION
- 2. NPM-1 MUTATION
- 3. FLT3 MUTATION





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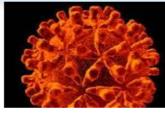


Neurological disorders

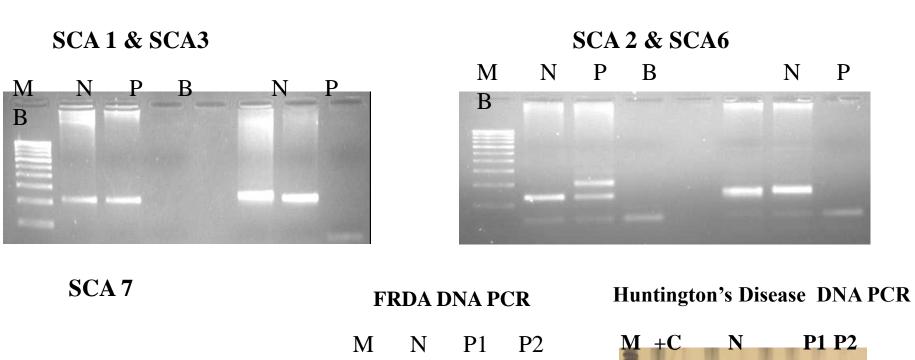


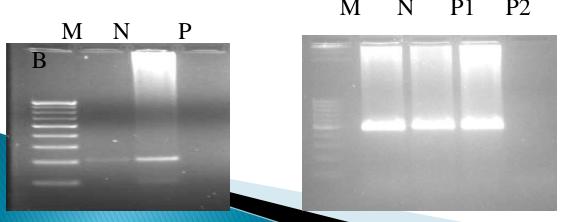


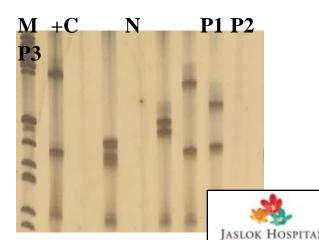
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Molecular Diagnostics for Neurological Disorders

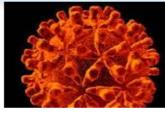


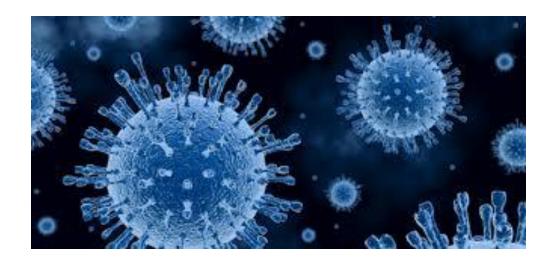






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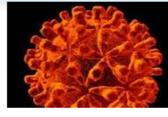


Infectious diseases





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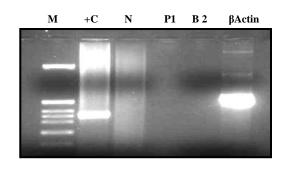


Molecular Diagnostics for Infectious diseases

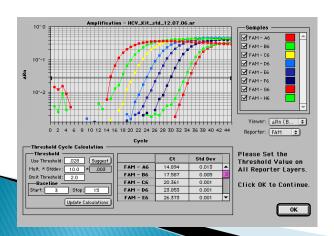
HBV DNA PCR

M +C N P1 P2 P3 +C N P1 P2 P3

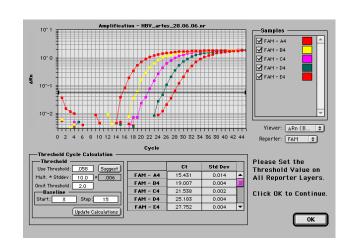
HCV RNA PCR



HBV Real Time PCR



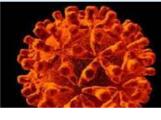
HCV Real Time PCR







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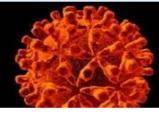


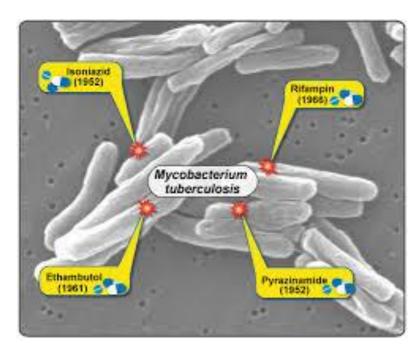
Successful in setting up home brew test for HIV drug Resistant





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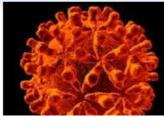


Mycobacterium Tuberculosis





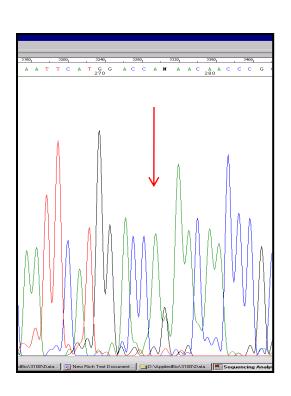
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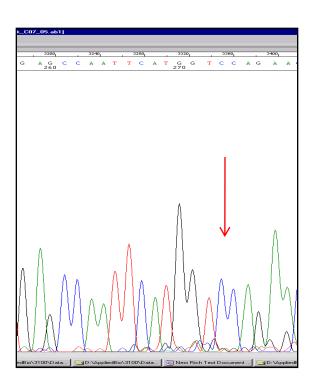


Molecular Diagnostics for M. Tuberculosis Drug Resistant

rpoB - Normal CAG- CAG

rpoB – mutation CAG- CTG





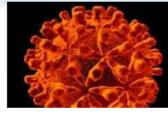
Thine Genes – rpoB, pncA, ndh, rpsL, Kat G, Kas A, inhA, embB, rrS

2nd Line genes Cyr A, GyrB, Thy A





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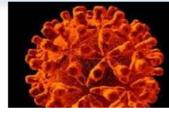
Present Need of Molecular Diagnostic laboratory

Better Health care program of Maharashtra





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Overall Message to Maharashtra Government

- •Provide basic accredited Molecular diagnostic laboratory to all government hospitals.
- •Set up Centralized facilities in some of the major states of Maharashtra where the laboratory is equipped with all sophisticated instruments for Molecular diagnostics
- There is a need for well experienced Molecular Biologist to look after this laboratory with R&D unit attached to this facility.



Molecular Biomarkers & Diagnosis Related Journals

- Advancements in Genetic Engineering
- Journal of Molecular and GeneticMedicine



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