

CENTRE FOR GENETIC STUDIES

WEST BENGAL UNIVERSITY OF TECHNOLOGY

BF-142, Salt Lake, Sector-1, Kolkata-700064



Background of the Centre :

The Centre for Genetic Studies was set up in West Bengal University of Technology in 2007 to meet the growing demand for Genetic Diagnosis and Genetic Counseling and to increase the Awareness on Genetic Disorders among General Public & Health workers.

Highlights of the Centre :

- Till date more than 2000 patients with genetic disorders have been diagnosed. Patients are usually referred from Medical Colleges , Children's Hospitals & Private Practitioners.
- Symposium and workshop on Diagnosis and Management of Genetic Disorders sponsored by ICMR was held in 2008.
- Publication from the Centre: *Practical Manual : Human Cytogenetics: Vol: 1*

The following tests are performed in the Centre for Genetic Studies

CYTOGENETICS

1. Chromosome Analysis:

for diagnosis of common chromosomal disorders such as
Down syndrome.
Turner syndrome.
Klinefelters syndrome.
Edward's syndrome
Recurrent miscarriages and other congenital disorders.

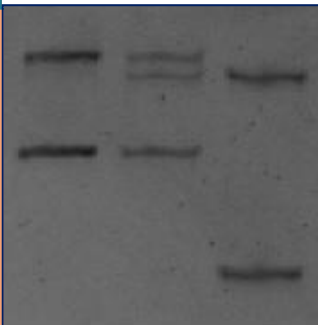


2. Cancer Cytogenetic Analysis:

Detection of Philadelphia chromosome or other characteristic cytogenetic markers associated with leukemia.

3. Sex Anomaly & Infertility:

Ambiguous genitalia
Amenorrhea
Oligospermia or Azoospermia in males.
Unexplained miscarriages



Father Down Child Mother

MOLECULAR DIAGNOSIS

1. Down syndrome Package

Karyotyping of baby
Parental karyotyping
Thyroid hormone status of the baby

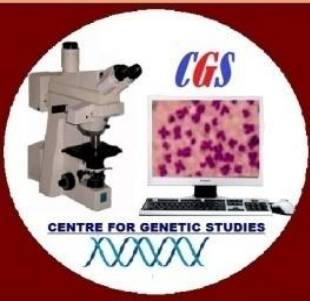
2. Identification of susceptible genetic markers for

Alzheimer's,
Cardiovascular diseases
&
Lipid profile

3. PCR based DNA diagnosis :

A simple PCR-based DNA diagnostic method has been developed for the routine diagnosis of Down syndrome, Turner syndrome, Klinefelter syndrome and Sex Anomalies.





CENTRE FOR GENETIC STUDIES

WEST BENGAL UNIVERSITY OF TECHNOLOGY

BF-142, Salt Lake, Sector-1, Kolkata-700064



CONTACTS & BOARD MEMBERS

Member Secretary: Centre for Genetic Studies

Prof. Subrata Kumar Dey,

Director, School of Biotechnology and Biological Sciences, WBUT

Phone: 033-2321 0731/1327 Ext. 204. Fax: 033-2321 7578 Mobile: 9830278216

email: subrata.dey@wbut.ac.in

Advisory board of "Centre for Genetic Studies"

Prof. S. Sengupta: Vice Chancellor

Dr. Rafiqul Islam: Registrar

Dr. Atri Bhoumik: Finance Officer

Employee of the Centre:

Ms. Priyanka Ghosh, Research Assistant

Designed by Mr. Angshuman Biswas & Ms. Pranami Bhoumik (Research Scholars)

Clinical Board of the Centre:

Prof.(Dr). M.K. Chatterjee: Pediatrician, Pro. V.C., West Bengal Health University

Dr. Swapan Chakroborty: Pediatrician

Dr. Satadal Das : Consultant Microbiologist

Dr. Subrata Chakroborty : Pediatrician

Down Syndrome Working Group:

Dr. Sujoy Ghosh , Ms. Pranami Bhoumik , Ms. Priyanka Ghosh, Mr. Krishna Kumar Singh

Published papers on Down syndrome: 08

Route Map of the Centre

