

# **Human Genome Hall – An Exhibition of Human Genome and Genetics in Human Health**

By- NIBM

# Introduction

The National Institute of Biomedical Genomics (NIBMG) is India's first autonomous institution dedicated to biomedical genomics, established by the Government of India under the Department of Biotechnology. Located in Kalyani, West Bengal, near Kolkata, NIBMG focuses on research, training, translation, service, and capacity-building in the field of biomedical genomics.

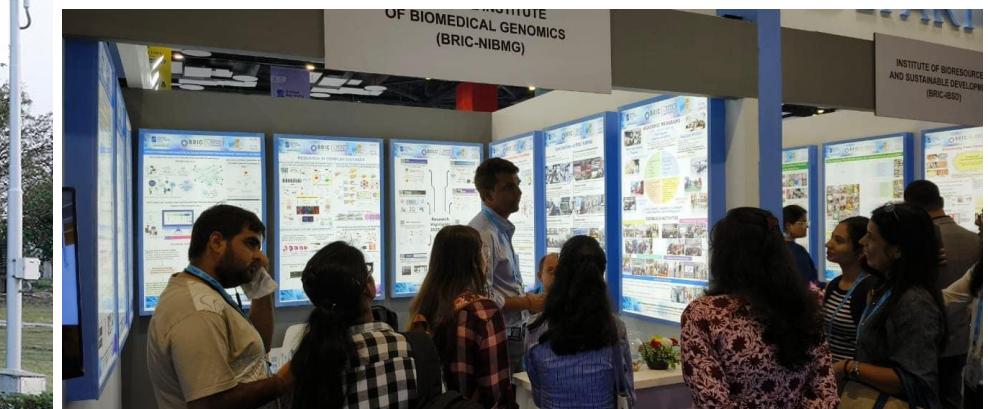
**1. Academic Programs and Training:** We offer a range of academic programs namely Integrated MS-PhD program, traditional PhD options, and short-term training courses designed to enhance skills and knowledge.

**2. Public Outreach Activities:** We organise lab visits, school and college talks, public seminars, exhibitions, and workshops to engage and educate the community.

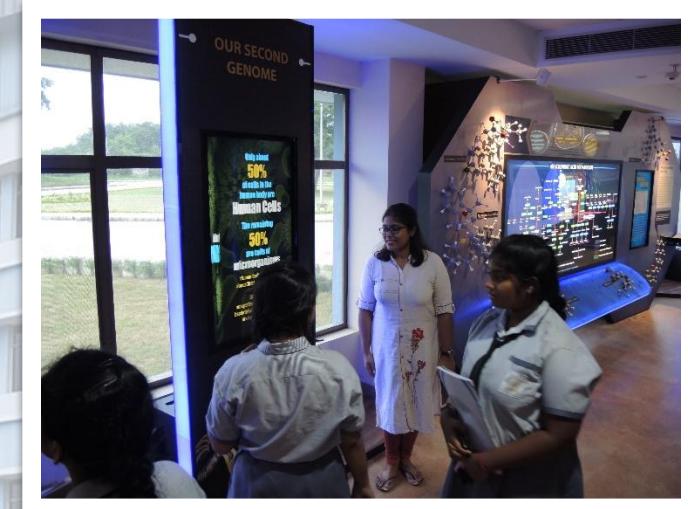
**3. Human Genome Hall at BRIC-NIBMG:** The Human Genome Hall features interactive exhibits aimed at educating diverse audiences about human genomics and genetics, established with funding from the National Council of Science Museums.

**4. Community Engagement and Recognition:** The hall has welcomed over 950 students from various institutions and received praise from numerous distinguished scientists, with volunteer assistance from graduate students and faculty supervision.

**5. Committed to SDG4:** We promote inclusive and equitable quality education for all, ensuring lifelong learning opportunities, enhancing access to education, and addressing barriers to education for marginalized groups.



# The Human Genome Hall





# Requirements and Objectives

## Need For The Genome Hall: The Societal Impact

### Educational Enhancement

- Textbook-centric education lacks interactive models.
- Excitement among students from various disciplines.
- Encourages interdisciplinary thoughts.



### Support for Rural Education

- Rural students have limited exposure to modern developments.
- Visits enhance knowledge and empower students as reformers.
- Spread scientific knowledge in rural areas.



### Public Awareness

- General public gains insights into biomedicine.
- Simplified explanations promote understanding of genomic medicine.
- Counter misinformation and raise awareness.



# Proposed Activities and Budget

**1. New Exhibits:** Expand and update exhibits to include recent advancements in genomics, such as epigenetics, the role of the microbiome in brain disorders, and cancer genomics. Incorporate new knowledge from the Covid-19 pandemic and highlight BRIC-NIBMG's contributions and AI/ML efforts for disease risk prediction.

**2. Exhibit Repairs:** Improve maintenance by replacing individual UPS systems with a central UPS connected to the main power line to ensure efficient operation of existing exhibits.

**3. Student Visits:** Organize monthly visits for high school and college students from deep rural and remote areas, coordinated by a designated committee, to increase their access to the exhibition and related educational experiences.

S. no.	Items	Cost
1.	Preparing new exhibits	₹25,00,000
2.	Repair and maintenance of exiting exhibits	₹25,00,000
3.	Organizing trips for School and College students	₹10,00,000
Total		₹60,00,000

