

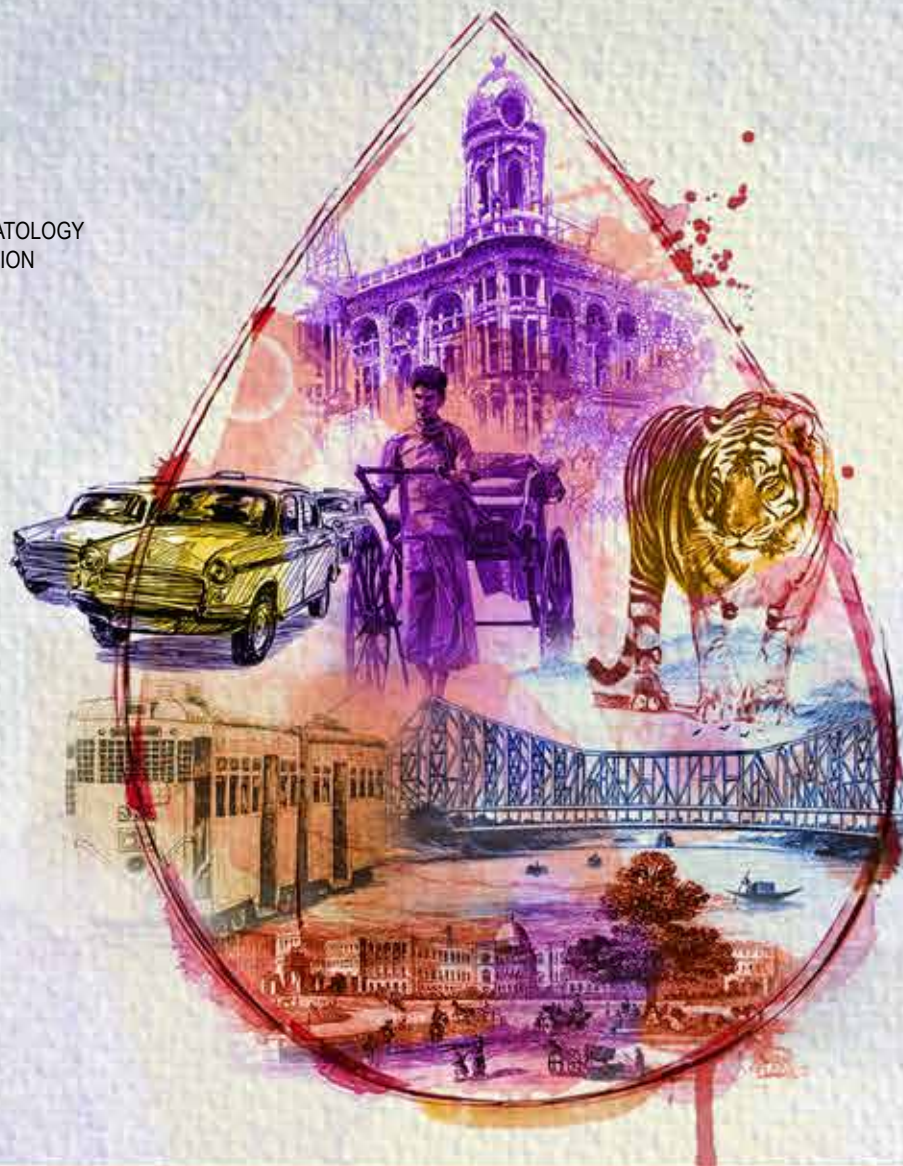


INDIAN SOCIETY OF HEMATOLOGY
& BLOOD TRANSFUSION

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OF INDIAN SOCIETY OF HAEMATOLOGY & BLOOD TRANSFUSION

HAEMATOCON 2022 WORKSHOP

Molecular Biology Techniques

3RD November 2022

COORDINATOR: Dr. Maitreyee Bhattacharyya

SCIENTIFIC PROGRAM

10:30 - 10:45

Theory sessions: Introduction

- Application of Molecular biology Techniques in Hematology
- Speaker: Prof. (Dr.) Maitreyee Bhattacharyya**

10:30 - 10:45

Theory sessions: PCR

- Introduction, Basics and Principles
 - PCR chemistry
 - Clinical applications
- Speaker: Dr. Atanu Adak**

Theory sessions: Real Time PCR

- Introduction, Basics and Principles
 - Real time PCR chemistry
 - Clinical applications
- Speaker: Dr. Atanu Adak**

Click on below link for Registration

<https://www.haematocon2022.com>

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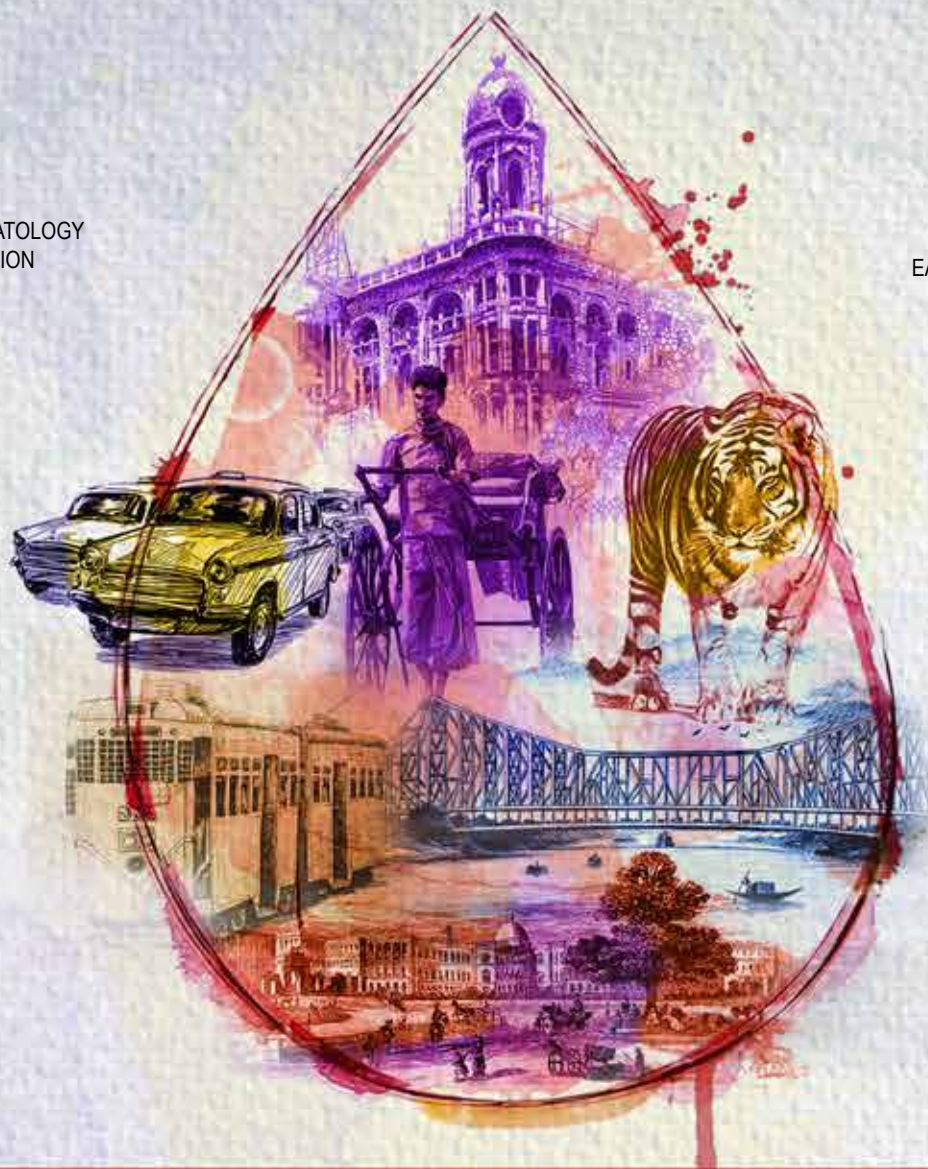


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COORDINATOR: Dr. Maitreyee Bhattacharyya

SCIENTIFIC PROGRAM

11:00 - 11:15

Theory sessions: Primer and probe design

- Introduction, Basics and Principles
Speaker: Dr. Biswabandhu Bankura

Theory sessions: Capillary Sequencing of DNA

- Introduction, Basics and Principles
- Reaction chemistry
- Clinical applications
Speaker: Dr. Biswabandhu Bankura

11:15 - 13:15

Hands on training: PCR

- Reaction setup
PCR programme setup
Speaker: Dr. Biswabandhu Bankura

Hands on training cDNA synthesis and Real Time PCR

- Reaction setup
- RT-PCR programme setup
- Data analysis and Quantization using Standard Curves
Speaker: Dr. Biswabandhu Bankura

13:15 - 14:00

Lunch

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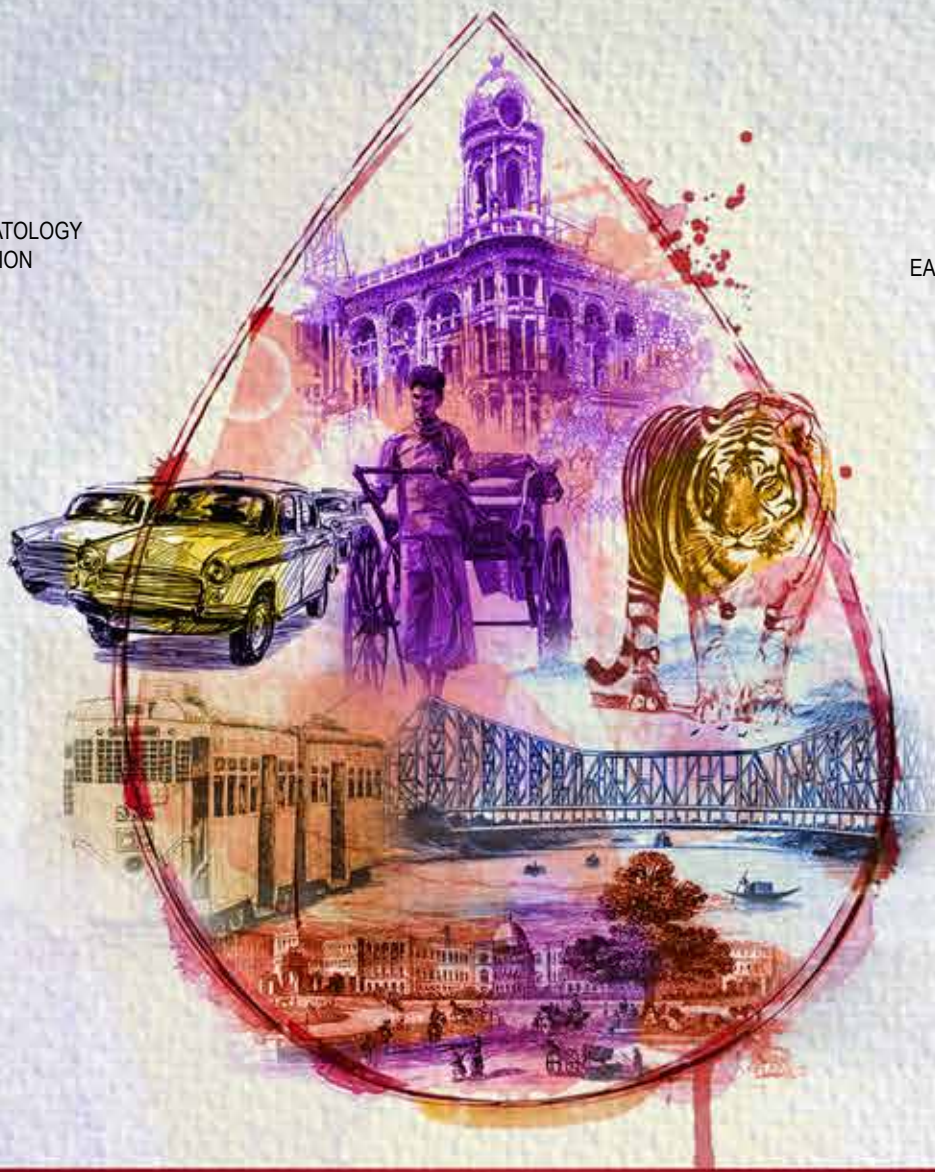


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3RD November 2022

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SCIENTIFIC PROGRAM

14:00 - 14:30

Theory sessions: Agarose Gel Electrophoresis of PCR product

- Sample loading and running the gel
 - Visualizing the PCR product in Gel
- Speaker: Dr. Biswabandhu Bankura

14:30 - 14:50

Demonstration: Genomic DNA isolation

- Sample isolation and storage
 - Column purification
- Speaker: Dr. Atanu Adak

Demonstration: RNA Isolation

- Sample isolation and storage
 - Column purification
- Speaker: Dr. Atanu Adak

14:50 - 15:10

Demonstration: Capillary Sequencing of DNA

- Machine work-flow
 - Reaction setup
 - Data analysis
- Speaker: Dr. Biswabandhu Bankura

15:10 - 16:00

● General Discussion
Prof. (Dr.) Maitreyee Bhattacharyya, Dr. Atanu Adak,
Dr. Biswabandhu Bankura

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