



# SUMMIT-PATH 2026

**SUM M**entored **I**ntensive **T**raining in **P**athology

April 2<sup>nd</sup> to April 5<sup>th</sup> 2026

(Please find the registration details on the last page)

**Organized by**

Department of Pathology  
IMS and SUM Hospital, Bhubaneswar  
Odisha, IN

Write to us at [—————>](#)



## About the course

The subject of pathology is extensive, involving enormous depths and emerging sub-specialties. The expansion in knowledge and evolving technologies in recent years has made the discipline even more challenging. During the three years of pathology residency, exposure to practical learning in advanced areas (eg. immunohistochemistry, immunofluorescence, flowcytometry, molecular techniques-cytogenetics, FISH, PCR, NGS) is presently available only in handful of medical colleges in India.

Our institute has all the basic as well as advanced laboratories, with diverse cases in all organ systems. This four-day course (SUMMIT-PATH) offers access to extensively compiled teaching material (11 modules) designed with an objective to provide a comprehensive overview of key areas in pathology including hematopathology, histopathology, cytopathology and molecular pathology. These four days shall serve as a revision/ learning in all the broad areas with emphasis on practical approach, helpful not only from examination point of view but also for future professional practice.

Let's SUM it all at SUM Path!!



## Chief Patron

Dr Manojranjan Nayak  
Honorable President, SOA DU

## Patrons

Dr Sanghamitra Mishra  
Dean  
IMS and SUM Hospital  
Bhubaneswar

Dr Pusparaj Samantasinghar  
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## Program Director

Dr Debahuti Mohapatra  
Professor and Head  
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## AGENDA- Day 1 (April 2nd, Thurs) HEMATOPATHOLOGY

### Pre test questionnaire

#### Module 1 Morphology

Participants shall get to see the morphology (PS, bone marrow aspirate, special stains, bone marrow biopsy, IHC slides) of representative cases encompassing all the WHO-HEME5 disease categories.

Spectrum of important benign hematology cases shall also be included.

#### Module 2 CBC, Coagulation, Hb CZE

Important CBC scatterplots shall be discussed.

Coagulation studies (platelet aggregometry plots, mixing studies, inhibitor assay, factor assays) shall be discussed as case-based work up.

Graphs of hemoglobin capillary zone electrophoresis of common and rare hemoglobinopathies and shall be discussed along with relevant CBC, PS and clinical findings for approach. Serum protein electrophoresis graphs will also be shown.

### INAUGURATION

#### Module 3 Flowcytometry

Participants shall be shown live analysis of flowcytometry data. They will get an opportunity to do live gating and analyze acute leukemia, CLPD, PNH, lymphocyte subset analysis cases.

Demonstration on how a sample is processed (staining and acquisition) will also be done.

## AGENDA- Day 2 (April 3rd, Fri) SYSTEMIC PATHOLOGY 1

### **Module 4**

Renal pathology,  
Dermatopathology slides with  
immunofluorescence

Histopathology slides of common medical renal including neoplastic and dermatology cases will be discussed, with integrated approach, including clinical and lab findings. Grossing specimens and important cytopathology slides will also be discussed.

Interpretation and correlation of immunofluorescence findings in a case-based approach will be discussed.

### **Module 5**

Gastrointestinal and hepatobiliary  
pathology, neuropathology

Histopathology slides of common pathologies (infectious, other non-neoplastic and neoplastic) will be discussed, along with relevant special stains and immunohistochemistry. Grossing specimens and important cytopathology slides will also be discussed.

### **Module 6**

Breast, thorax, head and neck,  
endocrine

Histopathology slides of common pathologies (infectious, other non-neoplastic and neoplastic) will be discussed, along with relevant special stains and immunohistochemistry. Grossing specimens and important cytopathology slides will also be discussed.

## AGENDA- Day 3 (April 4th, Sat) SYSTEMIC PATHOLOGY 2 & CYTOGENETICS

### **Module 7**

Female genital tract, bone and soft tissue, lymphoreticular system

Histopathology slides of common pathologies (infectious, other non-neoplastic and neoplastic) will be discussed, along with relevant special stains and immunohistochemistry. Grossing specimens and important cytopathology slides will also be discussed.

### **Module 8**

Urinary Bladder, Male genital tract, Pediatric Oncology, Miscellaneous

Histopathology slides of common pathologies (infectious, other non-neoplastic and neoplastic) will be discussed, along with relevant special stains and immunohistochemistry. Grossing specimens and important cytopathology slides will also be discussed.

### **Module 9**

Conventional Karyotyping and FISH

Participants will get an opportunity to see how a sample is processed in lab for karyotyping and FISH, including enrichment of plasma cell using CD138 magnetic beads.

FISH slides (HER2/neu), Lymphoma (BCL2, BCL6, MYC), *EWSR1*, myeloma shall be visualized in the dark room. Signal interpretation will be discussed.

Karyograms of representative cases shall be shown.

## AGENDA- Day 4 (April 5th, Sun) MOLECULAR PATHOLOGY

### **Module 10**

PCR and  
Sanger  
sequencing

Participants shall be shown the workflow in our molecular lab- pre and post PCR areas, NGS area. DNA/ RNA extraction, purity assessment on Nanodrop, mastermix preparation, setting up of PCR protocol, gel electrophoresis, quantitation by Qubit 4.0, Tapestation shall be demonstrated.

Interpretation of gel electrophoresis, RQ-PCR graphs, Sanger sequencing electropherograms of worked up cases shall be discussed.

### **Module 11**

Next generation  
sequencing

Variant Interpretation shall be discussed in detail with respect to the ACMG and AMP Tiers. Interested participants can bring their laptops and analyze NGS data in the lab.

Basic concepts in NGS along with an integrated review of NGS reports of completely worked up cases (hemat and solid onc) shall be discussed.

### **Assessment**

Case based questionnaire including questions from all modules will be displayed and participants will be asked to answer in google form.

### **Valedictory function**



## SUMMIT PATH 2026 REGISTRATION UPDATE



- PG students interested to appear for the course are requested to fill the google form (Last date is 31st Jan 2026, 5 pm).
- The interested candidates who fill the Google form will have to appear for a qualifying exam to be conducted through Google Form on 2nd Feb 2026 (Monday) between 6 -7 pm (duration of exam will be 30 minutes), with a letter duly signed and approved by the HOD certifying that the candidate is second/ third year post graduate of the department (Image/ PDF).
- Link for Google form: <https://forms.gle/tNYEozaCHeo97W2b7>
- There will be 60 questions (Image/ Case scenario- MCQ/ True or False) based on basics and practical approach across all modules (hematopathology, surgical pathology, cytopathology, grossing and molecular pathology).
- Further details on the conduct of examination shall be mailed to the interested candidates one day prior to the exam.
- Thirty candidates scoring the top marks shall be selected. Only the selected candidates will get a reply by 8th Feb 2026 to complete the registration process. The course fee for selected candidates is Rs 2500.
- Lunch will be provided on all four days. Participants will have to arrange their own accommodation.