Assam University, Silchar

Academic Triad Dialogue

LECTURE SERIES

OF ASSAM UNIVERSITY

Ideas • Connections • Impact

Speaker

Prof. Yashmin Choudhury

Professor of Biotechnology



Topic

The Cancer Equation:

Old Habits, Genetic Triggers and Recycled Therapeutics

Date
13 October 2026

Time
3:00 PM

Venue
CONFERENCE HALL, RABINDRA LIBRARY, AUS

RSVP

- Prof. Mahmood Alam Ansari
- Prof. Barunjyoti Choudhury
- Dr. Shubhadeep Roychoudhury
- Prof. Mukut Sarmah
- Prof. Jhimli Bhattacharjee

The Cancer Equation:
Old Habits, Genetic Triggers and Recycled Therapeutics



Speaker

Prof. Yashmin Choudhury

Professor of Biotechnology
Assam University, Silchar

KEY TAKEAWAYS

High cancer burden in North-East India
The region records higher cancer incidence, with specific high-risk cancers among males and females.

Tobacco and betel-nut use
Widespread use (smoking and smokeless forms), including among young individuals, is a major preventable risk factor for cancer.

Genetic and biological factors
Genetic susceptibility and trans-generational exposure to betel-nut can increase cancer risk through molecular mechanisms.

Other contributing factors
Dietary habits (e.g., smoked meats), alcohol/fermented beverages and lifestyle factors also play a role.

Need for prevention and control
Urgent policy measures, awareness and reduction in tobacco and betel-nut use are essential to curb cancer incidence in the region.



The Cancer Equation:

Old Habits, Genetic Triggers and Recycled Therapeutics

RESEARCH HIGHLIGHTS

01 **AMPK pathway inhibition**

Chronic betel-nut exposure was linked to inhibition of AMPK signalling.

02 **Metabolic changes**

Altered lipid metabolism was discussed in relation to tumour growth.

03 **Gene–environment links**

Tobacco, betel-nut and other exposures may interact with genetic susceptibility.

04 **Cellular defence genes**

Tumour-suppressor and DNA-repair genes can influence cancer risk.

05 **Drug repurposing and AMPK activation**

Preclinical research explored existing drugs and compounds—including metformin, vildagliptin, pioglitazone, orlistat and berberine—for potential effects on betel-nut-associated cancer mechanisms.



MUSICAL PERFORMANCE

We Shall Overcome

A MESMERIZING SONG PERFORMANCE

A soulful and mesmerizing musical performance that spread a message of hope, unity and togetherness.

The performance resonated with the spirit of resilience and solidarity, leaving the audience inspired.



INTERACTIVE

Q & A Session

with Faculty Members and Scholars

An engaging interactive session where faculty members and research scholars actively participated, shared their queries, and discussed various academic and research-related topics with the speaker.

Active Participation

Meaningful Discussions

Exchange of Ideas



Vote of Thanks

Dr. Shubhadeep Roychoudhury
Associate Professor
Department of Life Science and Bioinformatics

A sincere vote of thanks was delivered by **Dr. Shubhadeep Roychoudhury**, appreciating the contributions of all participants and stakeholders for making the session successful.



Thank You

Rabindra Library is honored to host the
Academic Lecture Series.

We extend our sincere thanks to the **organizers, Faculty Members, Speakers, and Research Scholars** for their valuable contributions and support in making the program a success.

Scan to Get the
Abstract of the Lecture

Visit our
Library Website

Get in Touch

Librarian
librarian@aus.ac.in

Library Help Desk
info.rabindralibrary@gmail.com