

**Report on Expert Lecture on 'Cell Signalling and Cancer' by Prof. Shahabuddin Khan**

1 message

Head Bio-Sciences <headbios@iul.ac.in>  
To: IT HelpDesk Integral University <ithelpdesk@iul.ac.in>

Fri, Feb 7, 2025 at 10:59 AM

**An Expert Talk on "Cell Signalling and Cancer"**

by

**Prof. Shahabuddin Khan****Saturday, 18<sup>th</sup> January, 2025**

The Department of Biosciences (A DST-FIST Sponsored Department) had the privilege of hosting an insightful talk on “**Cell Signalling and Cancer**” and interactive session with **Dr. Shahabuddin Khan**, an esteemed Professor of Cancer Biology at the **Laboratory of Animal Research Center, Qatar University, Qatar**, on **Friday, 18th January 2025**. Dr. Khan is a distinguished scientist, currently serving as the **Principal Research Scientist and Head of the Molecular Pathophysiology Unit at the Academic Health System, Hamad Medical Corporation, Doha, Qatar**. His research primarily focuses on identifying dysregulated signaling molecules that drive the survival and proliferation of malignant cells, contributing significantly to advancements in cancer therapeutics.

With an impressive academic background, Prof. Khan has previously held the position of **Research Associate Professor at the Department of Medicine, University of Chicago, and the University of Illinois, USA**. His groundbreaking research and contributions to the field have earned him numerous accolades, including recognition as the **2nd top researcher at Hamad Medical Corporation and 9th in Qatar**. Adding to his remarkable achievements, he has received several prestigious awards and fellowships for his exceptional work in cancer research. Prof. Shahabuddin Khan is also serving as an Adjunct Professor in Department of Biosciences, Integral University.

The primary objective of this lecture was to provide students, researchers, and faculty members with an in-depth understanding of cell signalling pathways, their dysregulation in cancer, and emerging therapeutic strategies targeting these pathways. Prof. Khan began by explaining the basics of cell signalling, including **autocrine, paracrine, endocrine, and juxtacrine signalling** mechanisms. The discussion covered **MAPK/ERK, PI3K/Akt, Wnt/β-catenin, Notch, and JAK-STAT** pathways, emphasizing how mutations in these pathways lead to uncontrolled cell proliferation, survival, and metastasis. Prof. Khan shared his research study on the efficacy of **sanguinarine** in inactivating **STAT3 and its associated signalling molecules in multiple myeloma cell lines**. He discussed the potential of **sanguinarine as a therapeutic compound**, either alone or in combination with the **FDA-approved drug Bortezomib (BTZ)**, highlighting its promise in cancer treatment. Prof. Khan provided detailed explanations and encouraged further research in this domain.

The expert lecture on “**Cell Signalling and Cancer**” by **Prof. Shahabuddin Khan** was an enriching experience, offering valuable insights into the complexities of cancer biology and its therapeutic interventions. The session successfully bridged the gap between theoretical knowledge and current research advancements, leaving participants with a deeper appreciation for the subject. The event concluded on a highly positive note, with **Prof. Snober S. Mir, Head, Department of Biosciences**, expressing heartfelt gratitude to **Prof. Khan** for taking time out of his busy schedule to deliver such an insightful talk and emphasised on continuing collaboration in research endeavors. The interactive session witnessed enthusiastic participation from about 100 participants including faculty members, research scholars, and students, contributing to a dynamic exchange of knowledge.

Here are some glimpses of the guest lecture

Is Organising An  
Expert Lecture  
On

# CELL SIGNALING AND CANCER

Guest Speaker

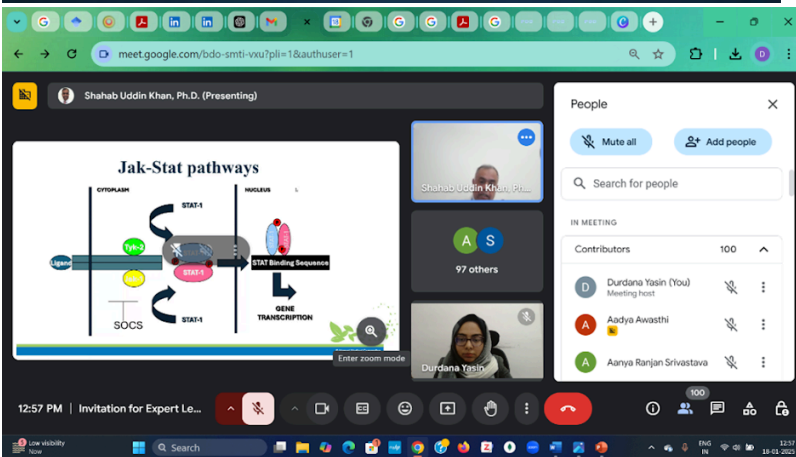
**PROF. SHAHABUDDIN KHAN**

PRINCIPAL RESEARCH SCIENTIST AND HEAD,  
MOLECULAR PATHOPHYSIOLOGY CORE  
TRANSLATIONAL RESEARCH INSTITUTE  
HAMAD MEDICAL CORPORATION, DOHA

- Date: 18th January, 2025
- Mode: Online (via Google Meet)
- Timings: 12:30 pm

Joining Link will  
shared soon!

ALL THE STUDENTS AND FACULTY MEMBERS ARE REQUESTED TO JOIN THE LECTURE



The screenshot shows a Google Meet interface. The main window displays a slide titled "Jak-Stat pathways". The slide content includes a diagram of the signaling pathway: Cytokine binds to a receptor, activating JAK, which phosphorylates STAT. Activated STAT dimerizes and enters the nucleus to initiate gene transcription. SOCS is shown as an inhibitor of JAK. The text "STAT Binding Sequence" and "GENE TRANSCRIPTION" are also present. The meeting controls at the bottom show the time as 12:57 PM and the title "Invitation for Expert Le...".



The screenshot shows a Google Meet interface. The main window displays a slide titled "Conclusion". The slide content lists the following points:

- ❖ Uncontrolled cell proliferation
- ❖ Evasion of apoptosis
- ❖ Increased cell motility and invasion
- ❖ Angiogenesis
- ❖ Metastasis

The meeting controls at the bottom show the time as 1:30 PM and the title "Invitation for Expert Lec...".

Best Regards,

Dr. Snober S. Mir,

Head, Department of Biosciences,  
(A DST-FIST sponsored Department),  
Integral University,  
Dasauli, Kursi Road,  
Lucknow-226026.  
Mob:9198990380

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