

Date: 21st October, 2024

To,
The Registrar,
Sarvajanik University,
Surat.

Dear Sir,

Kindly find herewith the report on the event “A Glimpse into Nobel Prize Winner - 2024” held at SU seminar hall on 17th October, 2024.

We are very much thankful to honorable provost Shri Kiran Pandya sir for motivating and giving an opportunity to organize such event.

Thanking you,

Utpal Pandya
Dean - R & D
Sarvajanik University

Report on discussion on “A Glimpse into Nobel Prize Winners -2024 for Physics Chemistry and Physiology/Medicine”, held at SU Hall (TIFAC seminar hall) on 17th October, 2024

As discussed with honorable provost sir Shri Kiran Pandya, above event was organized and faculties from different departments of constituent institutes of Sarvajani University were invited to deliver a talk on Nobel Prize Winners- 2024 of Science stream.

Dr. Nirali Nanavati from Computer Engineering department of SCET has given a presentation on Nobel prize 2024 for Physics. She stated with how John Hopfield created a structure that can store and reconstruct information. She has explained a method invented by Geoffrey Hinton that can independently discover properties in data and which has become important for the large artificial neural networks now in use. John Hopfield and Geoffrey Hinton have been awarded Nobel prize for Physics as they used tools from physics to construct methods that helped lay the foundation for today's powerful machine learning. She has talked about how AI is going to help mankind and the same time she also reminded some negative points of AI as cautioned by Geoffrey Hinton.

Dr. Toral Desai from Chemistry department of SRKI was invited to discuss the Nobel prize 2024 for chemistry. She has started her talk by explaining fundamentals of Protein design and structure. She has narrated contribution of Mr. David Baker towards computational protein design, Mr. Demis Hassabis towards for protein structure prediction and Mr. John Jumper for protein structure prediction. She has thrown a light on the journey of all three contributors in the field of chemistry.

For the Nobel prize winner - 2024 in Physiology or Medicine, Dr. Darshan Marjadi from Biotechnology department of SRKI has given an interactive presentation. He stated how mRNA and microRNA are formed and their impact on protein creation in human body. Then Dr. Marjadi stated the contribution of Victor Ambros and Gary Ruvkun who have discovered microRNA, a new class of tiny RNA molecules that play a crucial role in gene regulation. Their groundbreaking discovery in the small worm *C. elegans* revealed a completely new principle of gene regulation. This turned out to be essential for multicellular organisms, including humans.

The presentation given by Dr. Marjadi has helped to understand how MicroRNAs are proving to be fundamentally important for how organisms develop and function.

In the end of session, Dr. Kiran Pandya- Honorable Provost of Sarvajani University has shared his thought on the session. He has insisted to arrange such type of talks on regular basis at university level to aware students and faculties regarding the research work happening in the diverse fields. These kind of sessions will lead towards multi-disciplinary research and faculties and students of SU can be engaged in collaborative work .

Few glimpses and poster of the session is attached herewith.



Dr. Nirali Nanavati from Computer department of SCET presenting information related with Nobel prize for Physics.



Dr. Toral Desai from Chemistry department of SRKI sharing her views on Nobel prize for Chemistry.



Dr. Darshan Marjadi from Biotechnology Department of SRKI highlighting key features of research done in Biology field by Nobel prize winners for Physiology or Medicine



Dr. Kiran Pandya- Honorable Provost SU sharing his views on such discussion with students and faculties



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Invitation

A Glimpse into Nobel Prize Winner 2024

**Nobel Prize for Physics:
John Hopfield and Geoffrey
Hinton**

Represented by: Dr. Nirali Nanavati



**Nobel Prize for chemistry:
David Baker, Demis Hassabis
and John Jumper**

Represented by: Dr. Toral Desai

**Nobel Prize for Physiology or
Medicine: Victoria Ambros
and
Gary Ruvkun**

Represented by: Dr. Darshan Marjadi



**Each expert
will talk for
30-40
minutes**



Scan QR

Date: 17th October 2024

Venue: Tifac Hall

Time: 3:00 to 5:00

Registrar SU

Student Co-ordinator: Vansh Chapadia, CO Sctet