

Department of Microbiology

Karpagam Academy of Higher Education (KAHE)

&

Research Directorate, SAFI Institute of Advanced Study (SIAS)

Jointly organized

International webinar on

Novo Scienza 2020-21 (31st December 2020)


Participants:75

Department of Microbiology, Karpagam Academy of higher Education (KAHE), Coimbatore, Tamil Nadu The Directorate of Research (DoR) and Internal Quality Assurance Cell (IQAC) of SAFI Institute of Advanced Study (SIAS) and has organized the first talk of the International Webinar/ Virtual talk Series Novo Scienza '20-'21 on the topic "Deciphering the role of α -synuclein in regulating exocytosis" On 31st Dec. 2020 on google meet platform. The seminar was inaugurated by Prof E P Imbichikoya, respected Principal of SIAS. Prof (Dr) R. Usha, Head, Dept of Microbiology, KAHE delivered the welcome Speech. The resource person, Dr. Rohith Kumar N Post-Doctoral Fellow TATA Institute of Fundamental Research (TIFR), Mumbai talked about the role of implication in understanding the molecular basis of abnormal vesicular secretion under pathological consequences. The session was attended by 100 delegates from Various regions of India and included a versatile group of Faculties, Research Scholars and Students. The participants were entered via a pre-registration link through google form. At the end of the key note address and talk, participants were eagerly engaged in discussion session with several questions. The session was ended with a Vote of Thanks by Dr. Shabanamol S, Research Director, SIAS. Dr Smitha K V, Asst Professor, SIAS and Convenor of the programme controlled the session. Dr. Serwin P Wesley, Asst Professor, SIAS and Co Convener handled the question answer and interactive session. The participants could get their Certificate of Participation after filling the google form feedback link at the end of the session.

Registration Link- <https://forms.gle/BGfRq5rKYMKV4Gnk6>

Google meet platform link <https://meet.google.com/ekm-jumv-dym>



Feedback form and Certificate Link-<https://forms.gle/ZAposnvhb5UDstMn8>




Jointly organized by
**Research Directorate
SAFI Institute of Advanced Study
(SIAS)**
(Affiliated to University of Calicut)
in association with IQAC
www.sias.edu.in

&

Department of Microbiology
**Karpagam Academy of Higher
Education
(KAHE)**
www.kahe.edu.in

Virtual Talk Series
"Novo Scienza 20-21"
Speaker of the Day




Dr. Rohith Kumar N
Post Doctoral Fellow
TIFR, Mumbai

On the Topic:
Deciphering the role of
 α -synuclein in regulating
exocytosis

On 31st Dec. 2020
At 10 am

Contact us:
9539966591,
7902269828,
9976441595

❖ Free Registration
❖ E-certificates will be provided
❖ No of Seats : 100

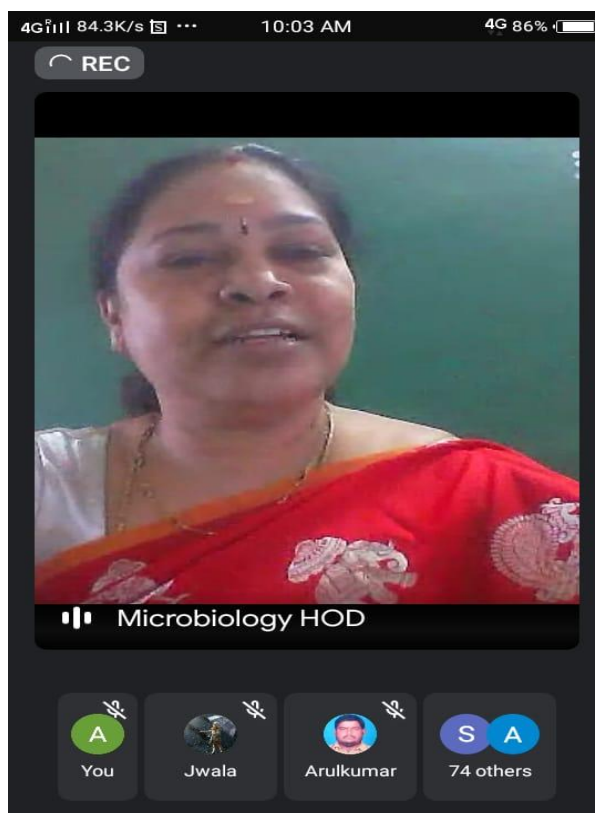
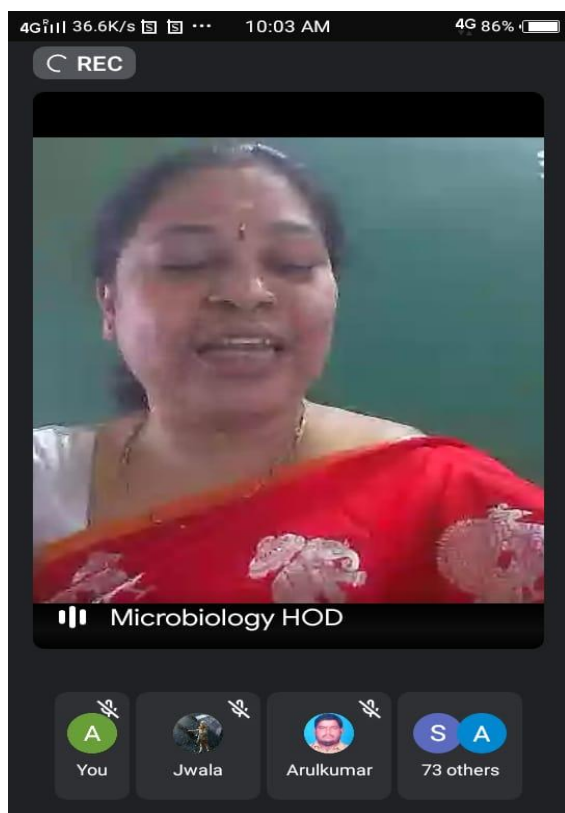


Patrons:
Prof. E. P. Imbichikoya
(Principal, SIAS)
Dr. M Palaniswamy
(Registrar, KAHE)

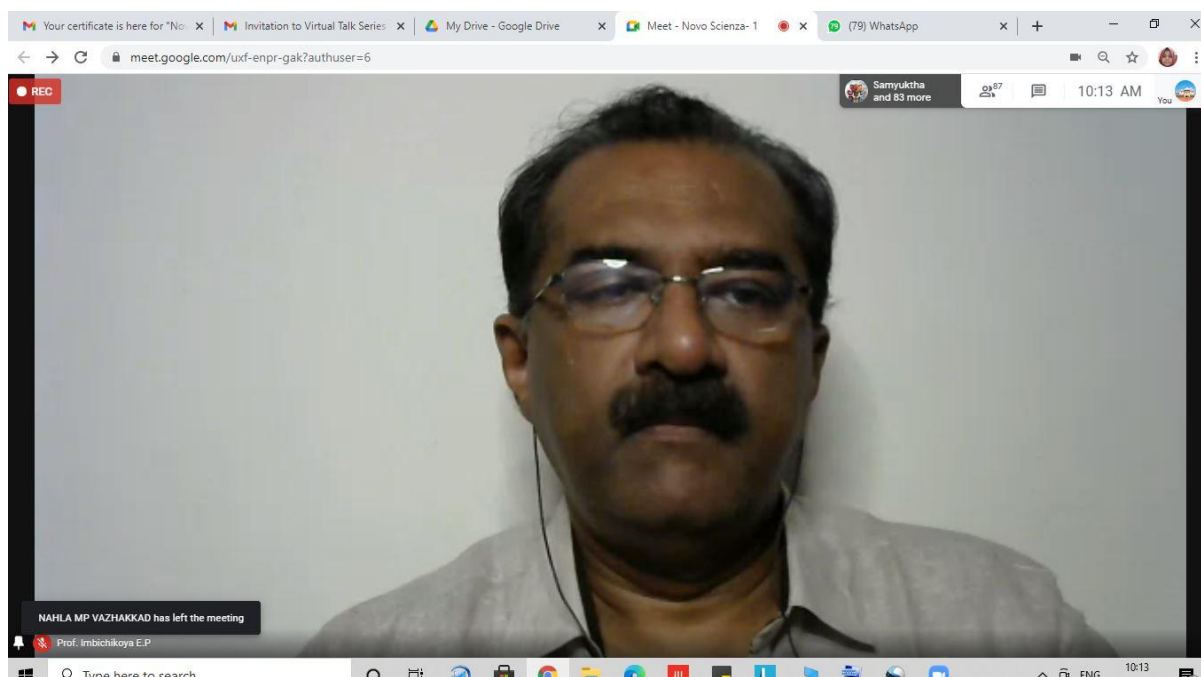
Program Convenors:
Dr. R Usha
Dr. Smitha K V

Co-Convenors:
Dr. ShabnamoLS
Dr. Servin Wesley

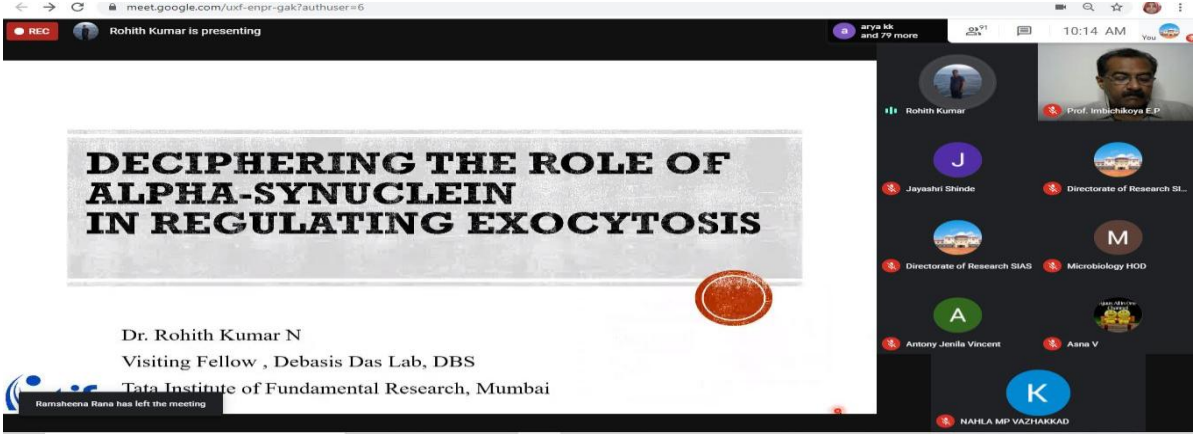
Abstract
Neurons communicate with each other through release of neurotransmitters by the process of exocytosis. These neurotransmitters are stored in synaptic vesicles (SV). Synaptic vesicles containing VAMP2 (γ -SNARE) interacts with SNAP 25 and syntaxin (t -SNARE) present on the presynaptic membrane forming the SNARE complex forming a transient structure during the membrane fusion called as fusion pore. Through this pore, neurotransmitters escape SV into the synaptic cleft. A synuclein, an abundant presynaptic protein, in its aggregated form causes abnormal dopamine release from presynaptic terminal which is the characteristics of Parkinson's disease. Interestingly the function of monomeric α -synuclein is still not fully known. Understanding its normal function could shed light on how aggregated forms cause abnormal neurotransmitter release in Parkinson's disease. Our single molecule and ensemble measurements reveal a novel role of monomeric α -synuclein in controlling fusion pore transitions. Our study has far reaching implication in understanding the molecular basis of abnormal vesicular secretion under pathological consequences.



Welcome Speech by Prof Dr R Usha, HoD, Dept of Microbiology, KAHE and Convener of programme

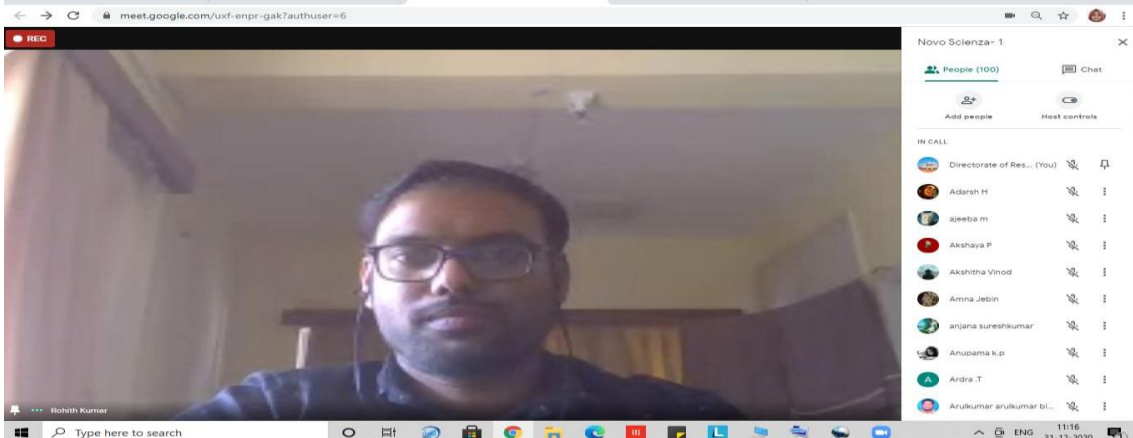


Inauguration By Prof E P Imbichikoya, Principal.SIAS

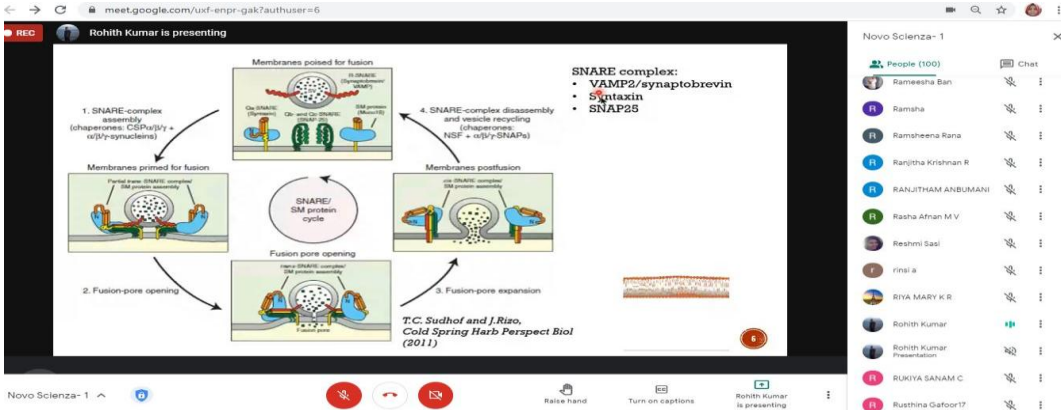


Dr. Rohith Kumar N
Visiting Fellow, Debasis Das Lab, DBS
Tata Institute of Fundamental Research, Mumbai

Presentation by Dr. Rohit Kumar, The Resource Person



Presentation by Dr. Rohit Kumar, The Resource Person



Membranes poised for fusion

1. SNARE-complex assembly (chaperones: C9orf72, C9orf72, C9orf72)

2. Fusion-pore opening

3. Fusion-pore expansion

4. SNARE-complex disassembly and vesicle recycling (chaperones: NSF + α-Syn/SNAPs)

Membranes postfusion


SNARE complex:

- VAMP2/synaptobrevin
- SNAP25
- SNAP25

T.C. Sudhof and J. Rizo, Cold Spring Harb Perspect Biol (2011)

meet.google.com/uxf-enpr-gak?authuser=6

Directorate of Research SIAS is presenting



KARPAGAM ACADEMY OF HIGHER EDUCATION (KAHE)
Coimbatore, Tamil Nadu (www.kaheedu.edu.in)

SAFI INSTITUTE OF ADVANCED STUDY (SIAS)
(Affiliated to the University of Calicut)
Molappuram, Kerala

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. ROHITH KUMAR N.**, Post Doctoral Fellow, TATA Institute of Fundamental Research (TIFR), Mumbai, has delivered a talk on the topic **"Deciphering the role of α -synuclein in regulating exocytosis"** in a Virtual Talk Series **"Novo Scienza 2020-21"**, an International webinar jointly organized by Research Directorate, SIAS and Department of Microbiology, Karpagam Academy of Higher Education on 31- December 2020.

Dr. R. USHA
DEPT. OF MICROBIOLOGY
KAHE

Dr. SMITHA K.Y.
DEPT. OF MICROBIOLOGY
SIAS

Dr. SHAMIN S.R.
DEPT. OF MICROBIOLOGY
SIAS

Prof. L.F. IMBROSHKOVA
Principal
SIAS

rishi a has left the meeting

Shabana mol s, Jayashri Shinde, SHINY K J, Directorate of Rese..., JIMNA MARIYA GE..., fathima parveen, Sana Fathima, Dhanashri Pathak, Gayatri Patel

Certificate of Appreciation to Dr. Rohit Kumar