





## NEWS UPDATE

### POPULAR SCIENCE LECTURE SERIES

Sunandan Divatia School of Science (SDSOS) organized “Popular Science Lecture Series” by Indian Women Scientists’ Association (IWSA), supported by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy on 7<sup>th</sup> January 2021. With an aim to popularize science and inculcate scientific temper in the society, ISWA regularly conducts lectures in Chemistry and Biotechnology in different colleges of Mumbai and Navi Mumbai for students of post-graduate and graduate levels. The idea behind this lecture series is to motivate and inspire students about science and expose them to the excellent work being done by Indian scientists, especially by women scientists. Further, the program intends to generate interest in science among students and also for students to have interaction with scientists so that they can pursue a scientific career.

The popular science lecture was in the area of Computational Pharmaceutics in which Dr. Vandana Patravale, Professor, Institute of Chemical technology, Mumbai spoke on “*Computational Pharmaceutics: Can It Help Understand Drug Targeting?*”. Dr. Patravale emphasized on the importance and need of computational science in the field of drug discovery, wherein, new computational can aid in design of formulations and curb the extensive loss of man and materials in the process. Dr. Surekha Zingde, President of Indian Women Scientists' Association (IWSA) spoke on the various activities of IWSA. The lecture was organized online and was attended by students and academicians from SDSOS and various other colleges. E-certificates were presented to all the participants.

 <b>POPULAR SCIENCE LECTURE</b> On <b><i>Computational Pharmaceutics: Can It Help Understand Drug Targeting?</i></b>		 <b>SUNANDAN DIVATIA SCHOOL OF SCIENCE</b>
Organized by <b><i>Indian Women Scientists' Association</i></b> <b><i>Vashi, Navi Mumbai</i></b> Supported by BRNS-DAE In association with <b><i>Sunandan Divatia School of Science</i></b> SVKM's NMIMS (Deemed-to-be) University Vile Parle (W), Mumbai	 <b>Dr. VANDANA PATRAVALE</b> Professor of Pharmaceutics Institute of Chemical Technology, Mumbai	<b><i>Research Interests:</i></b> <ul style="list-style-type: none"><li>• Development of nanocarriers with major emphasis on malaria, cancer and neurodegenerative disorders</li><li>• Medical device development</li><li>• Nanodiagnostics</li><li>• Nanovaccines</li></ul>
 <b>7<sup>th</sup> January, 2021 at 5:30 pm</b> Session will be held through MS Teams	<b>Register online to participate in the webinar</b> Link: <a href="https://bit.ly/3a89A7M">https://bit.ly/3a89A7M</a> Last date for registration- 31 <sup>st</sup> Dec, 2020 e-Certificate will be provided to the attendees	

Drug Discovery: Decades of Progress

Genomic data continues to increase

Experimental insight improving

Computational power and speed increasing

1990 2020

INTEGRATION

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End

Presenters

Vandana Patravale ...

Sudeshna Chandra ...

Shyamala Bharadw...

Purvi Bhatt (Dr.)

You

Tushar Bari

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6:04 PM 07/01/2021

## Improving Ocular Mucoadhesion

Tear film

Cornea

Mucin

Aqueous

Mucoaqueous layer

Lipid

Polymer

Drug

Ophthalmic in situ gel

*In silico* molecular interactions of drug-polymer conjugate with ocular surface proteins (mucin)

Mucin protein

Drug

VBP Research Group, ICT Mumbai

Source: Vyas, S., Khambete, M., Gudhka, R. et al. *In silico* modeling of functionalized poly(methylvinyl ether/maleic acid) for controlled drug release in the ocular milieu. *Drug Deliv. and Transl. Res.* 10, 1085–1094 (2020).

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