

# WEBINAR ON DNA ORIGAMI; HOW DOES A GENOME FOLD

**Organized by**

Department of Zoology & Research cell  
St. Joseph's College (Autonomous), Irinjalakuda



**Speaker**

Dr. Supriya Vartak

Post-doctoral fellow

National Institute of Health (NIH)

Bethesda, MD, USA

# BROCHURE



## DNA Origami - How does our genome fold?

Date: 30<sup>th</sup> December, 2020  
Time: 10.00 – 11.00 am

**Dr. Supriya Vartak**  
Post-doctoral Fellow  
National Institutes of Health (NIH)  
Bethesda, MD, USA

*All are cordially invited...*

**Dr. Sr. Asha Therese**  
Principal, Chairman - Webinar

**Dr. Gigi Poulouse (HoD) &  
Dr. Vidya G. (Asst. Prof.)**  
Department of Zoology, Coordinators - Webinar

**Dr. Sr. Viji M.O.**  
Director,  
Research Centre

For **Students,  
Researchers & Faculty**

To Register



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# CERTIFICATE



St. Joseph's College (Autonomous), Irinjalakuda, Kerala


College with Potential for Excellence  
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## CERTIFICATE OF PARTICIPATION

This is to certify that <Name> has participated in the **International Webinar on 'DNA Origami : How does our genome fold'** organized by the Department of Zoology and Research Cell, St. Joseph's College (Autonomous), Irinjalakuda, Kerala on 30th December, 2020.

  
Dr. Vidya G  
Assistant Professor  
Coordinators

  
Dr. Gigi Poulouse  
HOD, Dept. of Zoology

  
Dr. Sr. Anis K V  
Principal

**ACADEMIC REPORT**  
**WEBINAR ON DNA ORIGAMI; HOW DOES A GENOME FOLD**

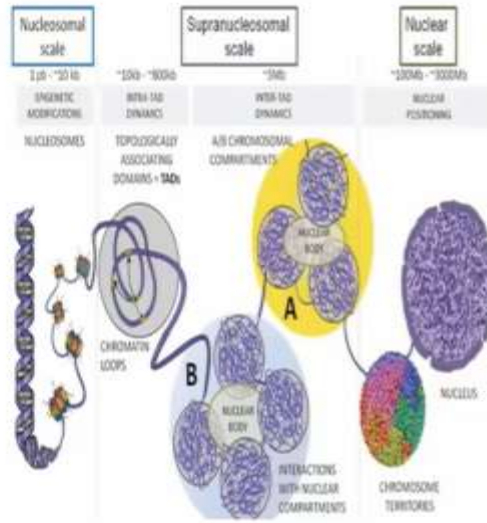
**Organized by**  
*Department of Zoology & Research Cell*

The webinar on 29/12/2020 was welcomed by Dr. Vidya G, Assistant Professor, Department of Zoology. The resource person was Dr. Supriya Vartak, who is currently a post-doctoral fellow at NIH, after her integrated MS-Ph.D. at IISc. Bangalore and had won many awards and publications. Her area of interest include cancer genetics, and her present work is on genome architecture.

The topic dealt with the extreme inner core concepts of genome, such as Genome organisation as well as the basics. The term, genome architecture was also clarified in the session. The mode of looping of DNA and thus to further folding and even regulatory mechanisms of many events of genome were picturised in the webinar. Mutational diseases were also discussed along with its specific mutation site and its genetic reasons. CTCF motif was another topic of interest in the session. Video lectures were also included and the session for clarification of the concepts dealing with.

DNA origami has been used for construction of nanorobots and other structures for studies of fluorescence, enzyme-substrate interactions, molecular motor actions, various light and other energy studies, and for drug delivery. The session ended with the vote of thanks by Dr. Gigi Poullose, H.O.D, Department of Zoology.

## The genome is organized at multiple scales



Vuhy Ea, Marie-Odile Baudement, Annick Lesne and Thierry Forné. *Genes* 2015, 6(3), 734-750



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