

Department of Biotechnology
Ministry of Science and Technology
Government of India
DBT

DBT-AIST International Laboratory
for **Advanced Biomedicine**

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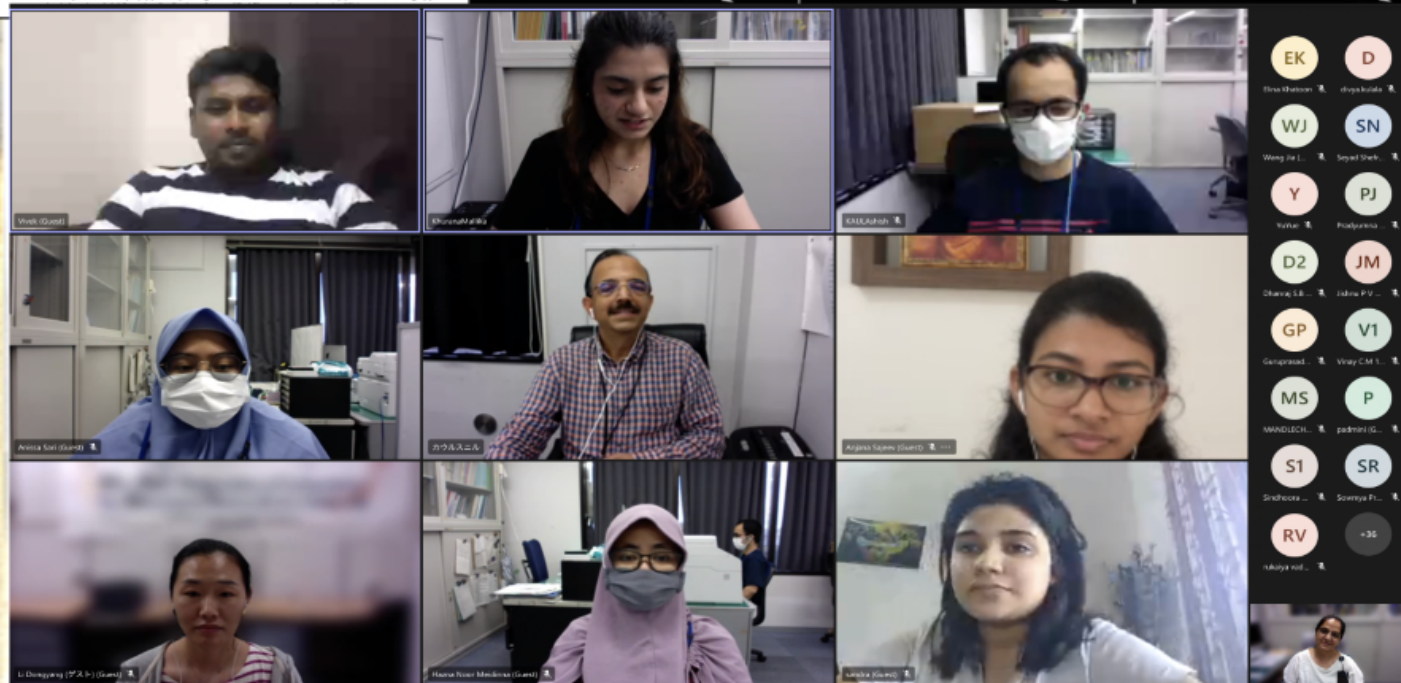
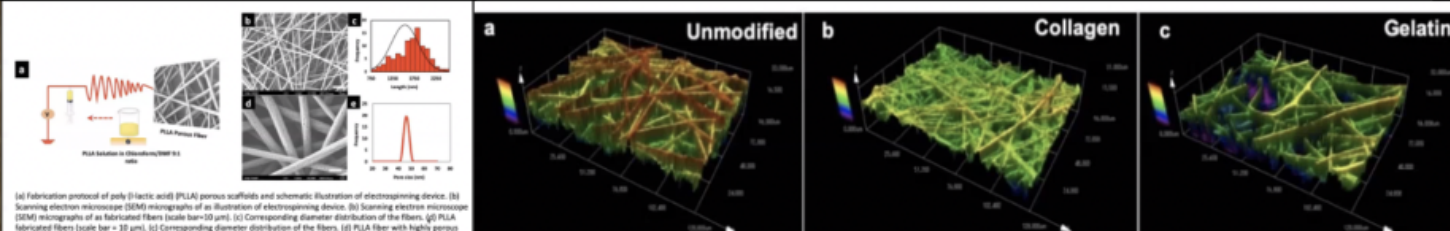
Date & Time: July 8, 2021 (15:30- 16:30 JST)
Speaker: Vivekanandan Palaninathan
Affiliation: Postdoctoral Fellow, Bionano Electronics Research Centre,
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Electrospinning for Tissue Engineering and Regeneration

Electrospinning is a versatile technology that has attracted researchers' interest due to its great diversity of fabricating nanofibers featuring a high aspect ratio, large specific surface area, flexibility, structural abundance, and surface functionality. Electrospinning allows the fabrication of successive micro- and nanofibers with various materials at a low spinning cost under controlled parameters. Functional electrospun fibers have found applications in tissue engineering and regeneration, biomedicine, masks, sensors, filtration devices, etc.

This presentation will feature an overview of the electrospinning technique and the strategies involved in developing functional scaffolds for tissue engineering. We shall discuss the potential and effect of the porous electrospun fibers in wound healing and cardiac tissue engineering. Further, we shall observe the applications of these fabricated electrospun fibers in wound healing and cardiac tissue engineering.



In this meeting (71)



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AMOLYA KANDI
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ANARGHYA A HE
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Anissa Sari (Guest)
Guest



Anjana Sajeev (Gu
Guest



ARYA (Guest)
Guest



Aswathy S. Nair 18
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Aswin.C.B. (Guest)
Guest



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Bhisham
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Dhanraj S.B 20170
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Elina Khattoon
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Gagan - MAHERO
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Gayatri (Guest)
Guest



Guruprasad K P [M
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Harsha K Chandra
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Navya Prabhu (Gues
Guest



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Padam Kanaka Sai R
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padmini (Guest)
Guest



Parama Dey
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Pooja (Guest)
Guest



Poonam Bhandari (G
Guest



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PRATHI
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rukaiya vadnagarwa
Guest



Sachin Ashok Thora
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Sandeep P Malliya [M
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sandra (Guest)
Guest



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Satyajit Dey Pereira
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Seyad Shefrin N
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Sima (Guest)
Guest



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SOUMYABRATA BAN
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73 PARTICIPANTS