

**VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN**  
**ENIKEPADU, VIJAYAWADA 521108**

**Date:09/09/2021**

**CIRCULAR**

All the faculty and students of Pharm D are hereby informed to attend a one day international webinar on "Role of Induced Pluripotent Stem Cells in Drug Discovery" on 14/09/2021.

  
**PRINCIPAL**  
**VIJAYA INSTITUTE OF**  
**PHARMACEUTICAL SCIENCES FOR WOMEN**  
**ENIKEPADU, VIJAYAWADA**  
**PIN - 521 108**

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# Antiviral Research Society

Reg. No: 144/2016 (TN Society Registration Act)  
E-mail: antiviralresearch2016@gmail.com |  
Mobile: +91 93842 18275 | Website: antiviral.in



## AVRS - International Webinar - 14.9.2021

in Association with

**Vijaya Institute of Pharmaceutical Sciences for Women,**  
**Vijayawada, Andhra Pradesh**

**Inauguration (10.30-11.00 am)**

**Dr. K. Padmalatha**

Principal, Vijaya Institute of Pharmaceutical Sciences for Women, Vijayawada

**Speaker I (11.00-12.00 pm)**

**Dr. Narasimman Gurusamy** M.Pharm., PhD

Research Assistant Professor, Department of Bioscience Research  
University of Tennessee Health Science Center, Memphis, TN 38163, USA

## **Role of Induced Pluripotent Stem Cells in Drug Discovery**

**Valediction (12.00-12.15 pm)**

**Dr. P. Selvam**

President, AVRS

Sponsored by **Schrodinger Inc**

Zoom link: <https://schrodinger.zoom.us/j/97608866336>  
Meeting ID: **976 0886 6336** | Password: **758669**



## VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

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Pharmacy Council of India, New Delhi & Affiliated to JNTUK, Kakinada  
**ISO 9001:2015 Certified Institution**



Date: 15.09.2021

### AVRS – International Webinar

<b>Name of the Programme</b>	<b>“A Webinar On Role of Induced Pluripotent Stem Cells in Drug Discovery”</b>
<b>Date</b>	14.09.2021.
<b>Resource Person Details</b>	<b>Dr. Narasimman Gurusamy</b> M.Pharm., Ph.D., Research Assistant Professor Department of Bioscience Research University of Tennessee Health Science Center Memphis, TN 38163, USA.
<b>Topic covered</b>	<b>Topic:</b> Role of Induced Pluripotent Stem Cells in Drug Discovery <b>Date &amp; Time:</b> 10:30 am to 12:30 am & 14/09/2021 i.e. Tuesday.



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**“A Webinar on Role of Induced Pluripotent Stem Cells in Drug Discovery”**, was organized by *Vijaya Institute of Pharmaceutical Sciences for Women* on 14<sup>th</sup> September 2021.

**Dr. Narasimman Gurusamy**, Research Assistant Professor, Department of Bioscience Research, University of Tennessee Health Science Center, Memphis, TN 38163, USA was the Invited Speaker. **Prof. Dr. K. Padmalatha**, Principal was the convener of the webinar and **Dr. P. Selvam**, President, AVRS was the coordinator of the webinar.

The webinar was inaugurated by **Mrs. V. Vishnu Vandana Devi** and the keynote address was delivered by **Dr. P. Selvam**.

Antiviral Research Society in association with Vijaya Institute of Pharmaceutical Sciences for Women organized an International Webinar on 14-09-2021 from 10.30 am to 12.30 pm.

**Dr. K. Padmalatha**, Principal, VIPW in her inaugural address welcomed the delegates and emphasized the importance of establishing a Research & Development Cell at the institution which takes up studies and investigations on current trends of interest in the field of Pharmacy.

**Dr. Narasimman Gurusamy**, Research Assistant Professor, Department of Bioscience Research, University of Tennessee Health Science Center, Memphis, TN 38163, USA was the Invited Speaker at the webinar whose talk focused on “Role of Induced Pluripotent Stem Cells in Drug Discovery”. Research on Stem Cells and derived products is a promising study for new medical treatments. It is quite an apt topic to choose to learn about stem cells, current and possible uses and the scenario of research and practice in drug discovery.





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The Embryonic stem cells resulting in pluripotent stem cells can divide into more stem cells or can take the form of any type of cell in the body. Further, they can be used to regenerate or repair the diseased tissue or organ.

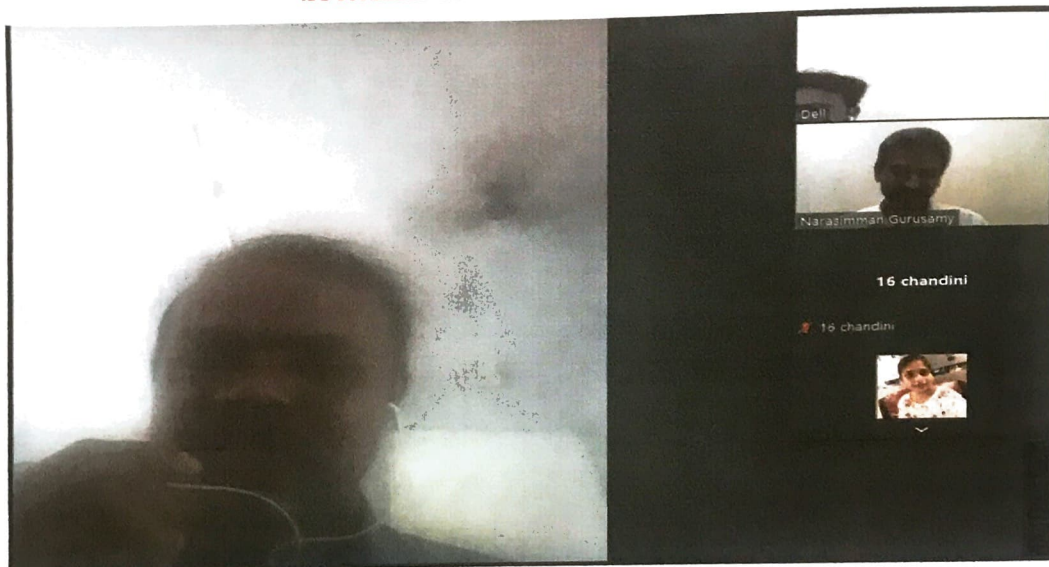
Dr. Purushothama Reddy K, Head, Department of Pharmacy Practice on behalf of the institution presented vote of thanks, before which there was a question and answer session.


Dr. P. Selvam, President, AVRS delivered the valedictory address. There were 100 participants who derived new insights from the webinar and it was conducted through the online platforms of zoom and you tube.



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## Role of Induced Pluripotent Stem Cells in Drug Discovery

Narasimman Gurusamy, M. Pharm., PhD  
Dept. of Bioscience Research  
The University of Tennessee Health Science center, TN  
United States of America



Dr. Narasimman Gurusamy

Find a participant

S	sharada	🔊	📹
SK	Sarsha Kollu	🔊	📹
SO	SOWMya 07	🔊	📹
S	Sumaya	🔊	📹
T3	Torisha 30	🔊	📹
V2	vaseem 28	🔊	📹
V	vpprincipal k	🔊	📹
VV	vishnu vandana vutukuru	🔊	📹
	24 kiran Swetha	🔊	📹
BL	Blessy Lydia Dandala	🔊	📹
C	Chandana Priya 13	🔊	📹
E	Evanjain	🔊	📹
GU	G. jeyantha	🔊	📹
SM	Swetha MohanK	🔊	📹

**Dr. Narasimman Gurusamy giving a talk on “Role of Induced Pluripotent Stem Cells in Drug Discovery” on 14<sup>th</sup> September 2021.**

## Application of organoids derived from iPSCs to disease modelling and drug discovery

The diagram illustrates the application of organoids derived from iPSCs to disease modelling and drug discovery. It shows a cycle where organoids are used for disease modelling and drug discovery, leading to further organoid development and testing.

Q. And a participant

- Dell (Me)
- Dr. Sharavanan S.P. (Host)
- Narasimman Gurusamy (Co-host)
- vipeprincipal k
- 01 Tahera
- 04 Haritha
- 07 Harisha
- 102. Kalyani, Kurapati
- 11 Meghana
- 14 B. Vijaya Sankha
- 167NUT0018 sirisha
- 17 Madhuri
- 19 kare shushrutha
- 2 Sujana

## Summary

The summary diagram compares 'Drug therapy' and 'Cell therapy'. 'Drug therapy' involves drug testing and high-throughput screening. 'Cell therapy' involves gene editing and gene delivery. Both pathways aim to improve safety and efficacy, with organoids playing a central role in disease modelling and drug discovery.

Q. And a participant

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**Dr. Narasimman Gurusamy giving a talk on “Role of Induced Pluripotent Stem Cells in Drug Discovery” on 14<sup>th</sup> September 2021.**

