



**CHAITANYA DEGREE & PG COLLEGE FOR WOMEN**

Affiliated to Andhra University, Chaitanya nagar, Old Gajuwaka, Visakhapatnam-530026.

## WEBINAR ON STEM CELLS



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# WEBINAR

on

# STEM CELLS

On 5<sup>th</sup> Oct 2021 Tuesday



### RESOURCE PERSON

**Dr. G.V. Sireesha**

Assistant Professor, Dept. of Bio-technology  
Gitam University

### ORGANIZERS

**Smt. G.Vijaya Lakshmi**

Correspondent  
Chaitanya Women's College



**Smt. Dr.S.Chandra Maha Lakshmi**  
Principal  
Chaitanya Women's College



**M.Sheela Deepak**  
HOD Dept. of Life Sciences

## PROFILE OF THE RESOURCE PERSON



### **Dr. G.V. Sireesha**

**Assistant Professor,  
Dept. of Bio-technology  
Gitam University**

Dr. Sireesha Garimella obtained her MSc in Life Sciences from University of Hyderabad with a first rank and holds a PhD degree in Molecular Genetics and Reproduction from the Indian Institute of Science (IISc), Bangalore.

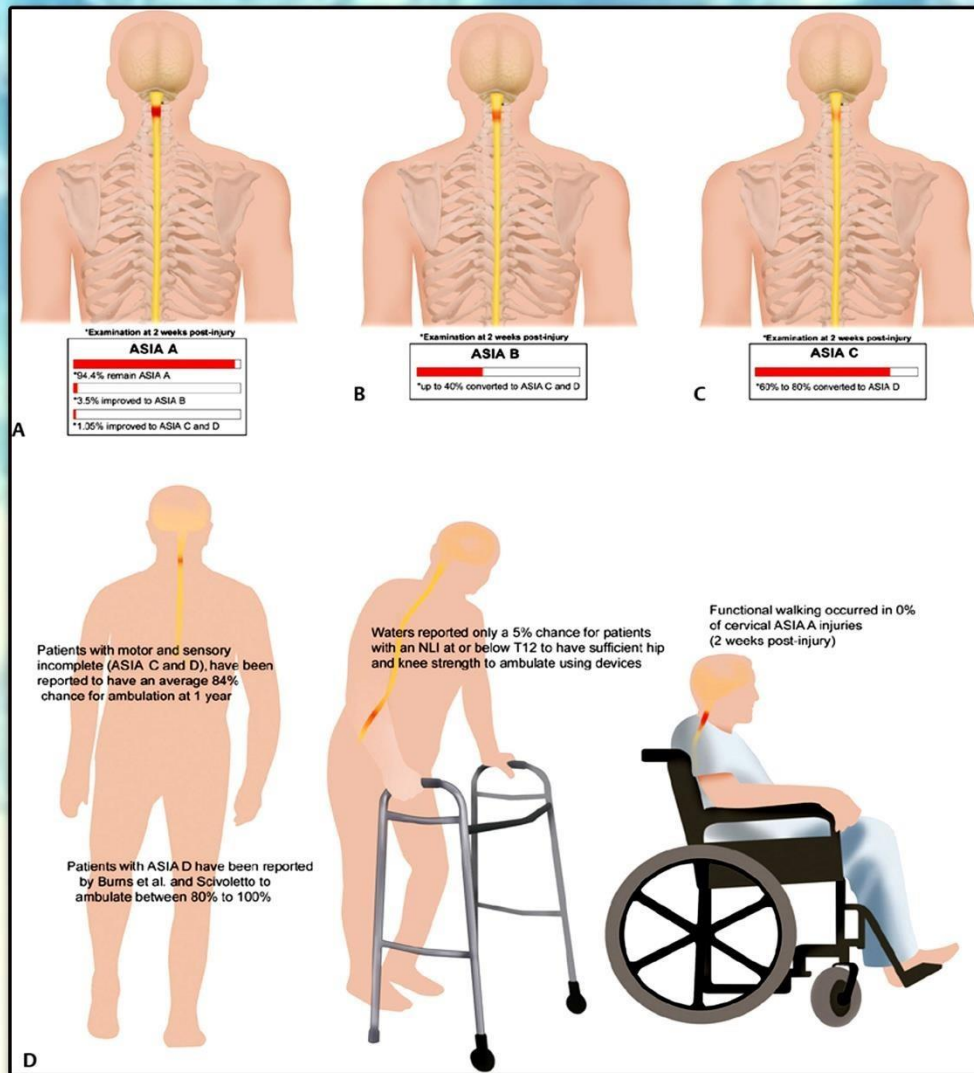
Subsequently, she worked at the National Cancer Institute (NCI) under the aegis of National Institutes of Health (NIH), USA, for her post-doctoral research work in the field of Molecular Oncology. Currently, she is working as Assistant Professor at GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh.

- ◆ Her broad research interests are primarily in the areas of molecular and cell biology of stem cells, breast cancer, and applications of functional genomics in drug discovery.
- ◆ She has successfully published many peer-reviewed articles in international journals.
- ◆ With her quest for research, she has fruitfully carried over several collaborations across the globe through government funded research projects.
- ◆ She is a recipient of the DST-DAAD fellowship in 2004 which funded her work at the Martin Luther University, Halle, Germany.
- ◆ Dr Sireesha has won the FARE (Fellows Award for Research Excellence), awarded by the National Institutes of Health in 2010 towards her contribution towards breast cancer research.

**KEY POINTS :**

- ◆ **IMPROVEMENT OF SPINAL CORD INJURY**
- ◆ **DONATING AND HARVESTING STEM CELLS**
- ◆ **PROMISE OF STEM CELL RESEARCH**
- ◆ **CARDIOVASCULAR DISEASE TREATMENT**
- ◆ **CELL DEFICIENCY THERAPY**
- ◆ **TISSUE REGENERATION**

## ◆ IMPROVEMENT OF SPINAL CORD INJURY

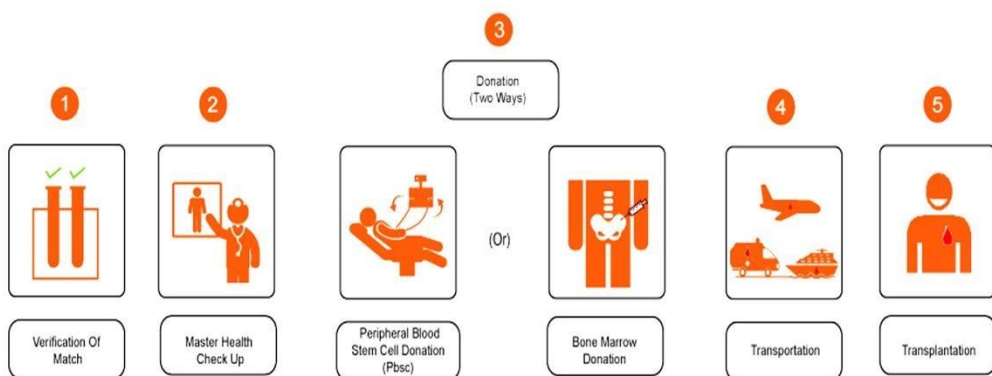


◆ **Promote nerve cell regeneration**

◆ **Improving the function of the nerves that remain after a spinal cord injury.**

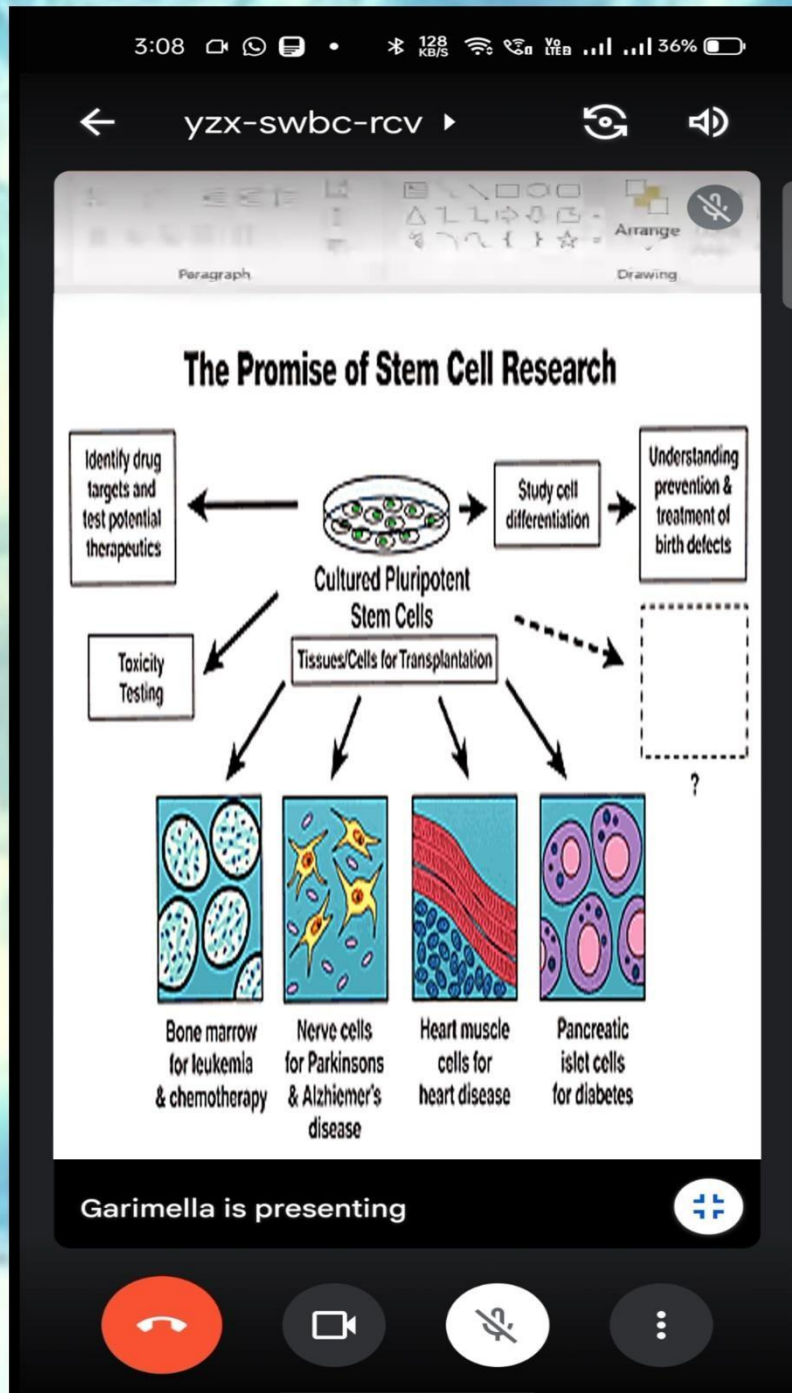
◆ **DONATING AND HARVESTING STEM CELLS**

**DONATION PROCESS**

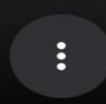
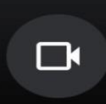
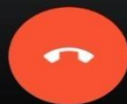


◆ **In stem cell transplants, stem cells replace cells damaged by chemotherapy or disease or serve as a way for the donor's immune system to fight some types of cancer and blood-related diseases, such as leukemia, lymphoma, neuroblastoma and multiple myeloma.**

## ◆ PROMISE OF STEM CELL RESEARCH



Garimella is presenting



## ◆ **CARDIOVASCULAR DISEASE TREATMENT**

### COMMON TREATMENTS FOR HEART DISEASE

#### **STATINS**

These cholesterol-lowering drugs can reduce the level of plaque-forming LDLs in your bloodstream. The big benefit? They can lower the risk of heart attack by up to 25%.



#### **BLOOD THINNERS**

Also known as anti-coagulants, these meds help prevent the formation of dangerous blood clots in your arteries, which could block blood flow.



#### **BETA BLOCKERS**

These pack a double-punch: They not only lower your blood pressure but they can also reduce your heart rate, which means your ticker doesn't need as much oxygen.



#### **LIFESTYLE CHANGES**

While medications are helpful, don't lose sight of the power healthier habits. Improving your diet, exercising more, and giving up smoking are essential, too.

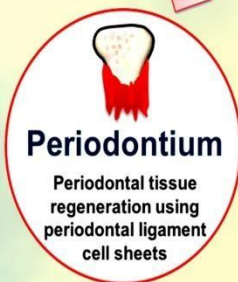
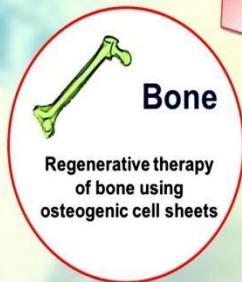
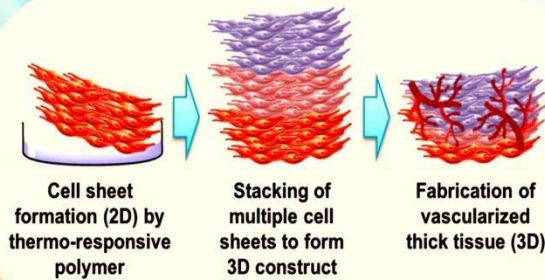


## ◆ **CELL DEFICIENCY THERAPY**

◆ **People who might benefit from stem cell therapies include those with spinal cord injuries, type 1 diabetes, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease, heart disease, stroke, burns, cancer and osteoarthritis.**

## ◆ TISSUE REGENERATION

### Engineered cell sheets for tissue regeneration

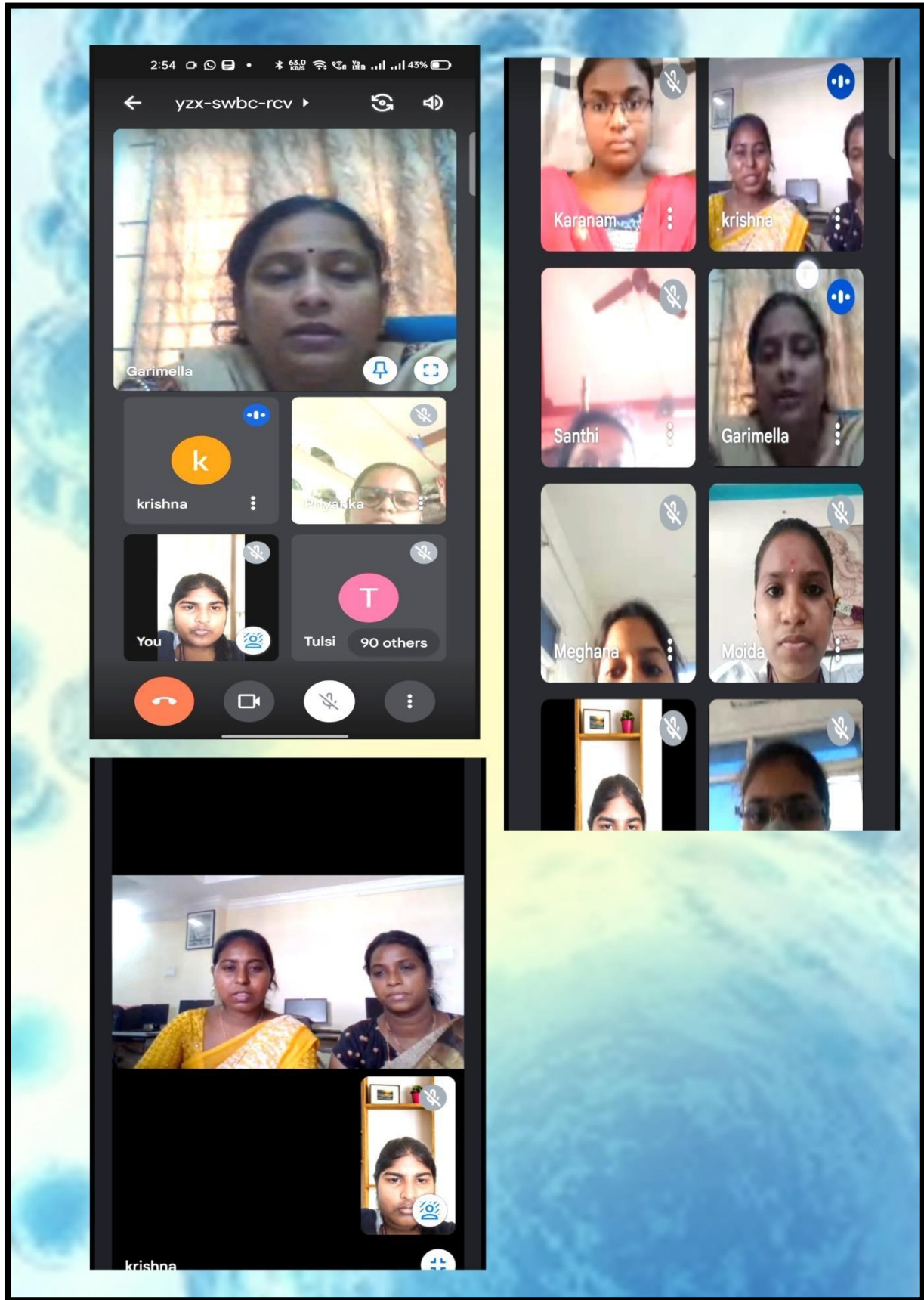






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Chaitanya Nagar, Old Gajuwaka, VSP-26. ☎ (O) 08912747250, 08912757592, 9247569901



**Certificate of Participation**


This is to certify that Miss/Mr./Dr. **M.SHEELA DEEPAK**  
Of CHAITANYA DEGREE & P.G COLLEGE FOR WOMEN participated in  
One day webinar on “STEM CELLS” by Department of Life Sciences, Chaitanya  
Degree & P.G College For Women, Old Gajuwaka, Visakhapatnam on 05-10-2021.

We appreciate his/her voluntary participation in this regard.


  
Correspondent

  
Principal

  
Resource Person




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**CHAITANYA DEGREE & P.G. COLLEGE FOR WOMEN**  
(Recognised by Govt. of A.P. & Affiliated to Andhra University)  
Chaitanya Nagar, Old Gajuwaka, Visakhapatnam - 530 026


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Ref. : \_\_\_\_\_ Date : 05/10/2021

**CERTIFICATE**

This is to certify that Dr. G V Sireesha, Asst. Professor,  
Department of Biotechnology of GITAM University, Visakhapatnam has attended as  
Resource person for the Webinar on “STEM CELLS” Organized by the department of  
Life sciences on 05/10/2021.



  
Principal  
Chaitanya Degree & P.G. College for Women