

## Guest Lecture Report

**Topic:** “3D cell culture and its application”

**Date and Venue:** 26<sup>th</sup> March, 2018 at JSS College of Pharmacy, Mysuru

**Speaker:** Dr. Amruthesh C. Shivachar,

Associate Professor of Pharmaceutical Sciences,  
College of Pharmacy and Health Sciences, Houston, TX USA.  
Adjunct Faculty of JSS Academy of Higher Education and Research.

Dr. Amruthesh. C Shivachar started his lecture by explaining the importance of cell culture techniques specially the 3D cell culture techniques and their applications. He emphasized the advantages of 3D cell culture over the traditional single layer cell culture technique in terms of its resemblance to in-vivo environment as it offers growth of cells in all directions. Then Dr. Shivachar went on to explain the applications of 3D cell culture techniques in the field of toxicology, pharmacology and tissue transplantation. He specially mentioned the use of these techniques in toxicology instead of using animals the cell of interest can be grown to check the toxicity. He also explained about its advantages in absorption studies. He also gave an example of skin being cultured from this 3D cell culture technique and transplanted to patients with burns in some of the hospitals of US. Dr. Shivachar then shared an experience from his own lab wherein for one of the project they cultured the brain cells to replace the damaged area in brain, which is yet to be completed. In the end he concluded his presentation by explaining the challenges to make it a successful replacement for in-vivo studies. Over all presentation was good and useful.



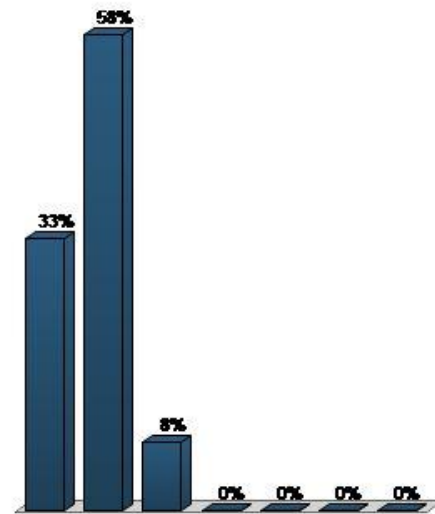


A Survey was conducted after the seminar and the results are attached below.

Feed back report:

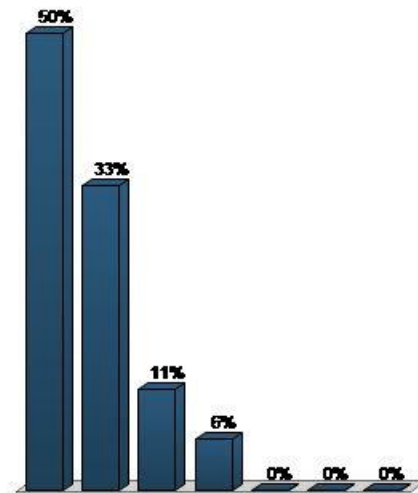
1. The speaker made the subject matter easy to understand? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	33.33%	4
Agree	58.33%	7
Somewhat Agree	8.33%	1
Neutral	0%	0
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>12</b>



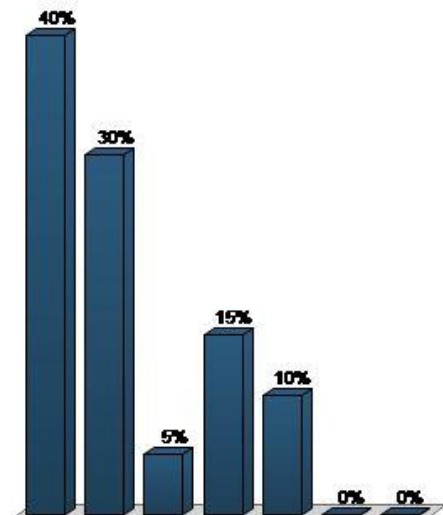
2. The speaker was very focused on the subject matter? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	50%	9
Agree	33.33%	6
Somewhat Agree	11.11%	2
Neutral	5.56%	1
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>18</b>



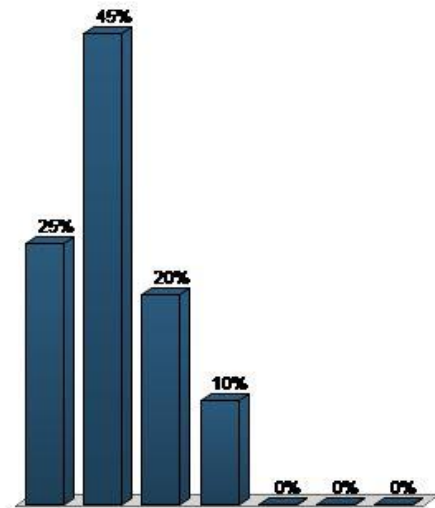
10. Do you think there is potential for future collaboration? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	40%	8
Agree	30%	6
Somewhat Agree	5%	1
Neutral	15%	3
Somewhat Disagree	10%	2
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>20</b>



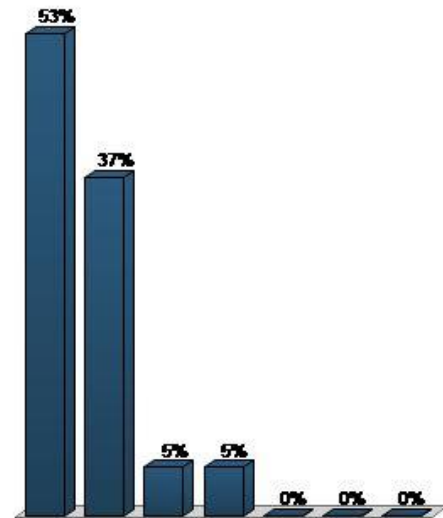
9. The speaker kept the audience engaged during the seminar (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	25%	5
Agree	45%	9
Somewhat Agree	20%	4
Neutral	10%	2
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>20</b>



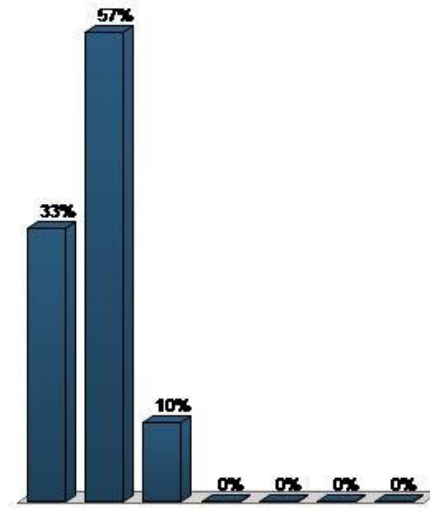
8. The topic is of great therapeutic potential? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	52.63%	10
Agree	36.84%	7
Somewhat Agree	5.26%	1
Neutral	5.26%	1
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>19</b>



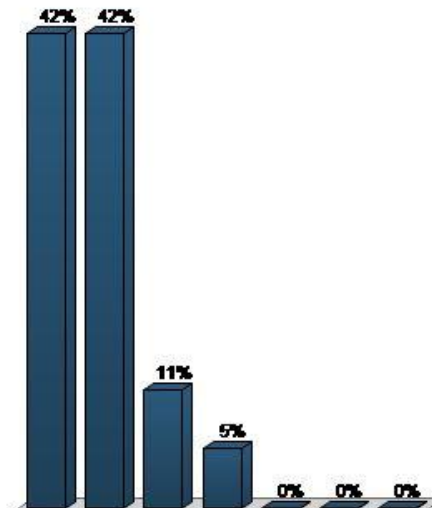
7. The speaker was very focused on the subject matter? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	33.33%	7
Agree	57.14%	12
Somewhat Agree	9.52%	2
Neutral	0%	0
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>21</b>



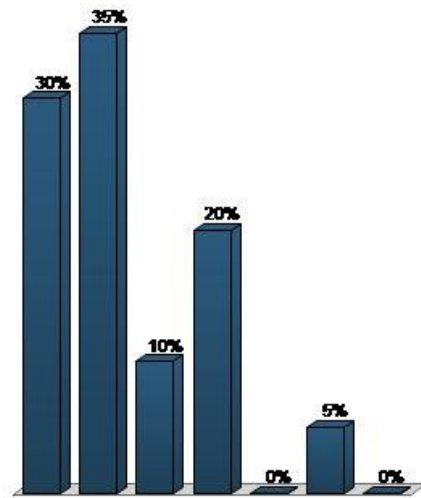
6. The speaker made the subject matter easy to understand? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	42.11%	8
Agree	42.11%	8
Somewhat Agree	10.53%	2
Neutral	5.26%	1
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>19</b>



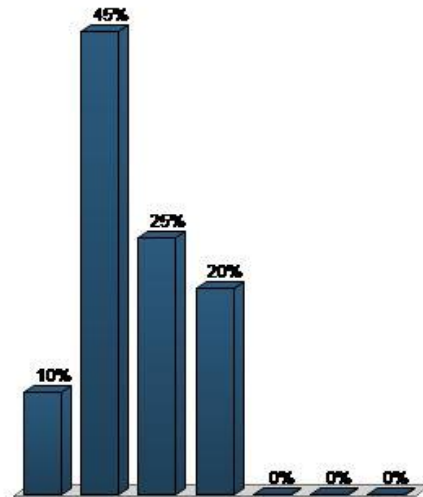
5. Do you think there is potential for future collaboration? (Multiple Choice)

Responses		
	Percent	Count
Strongly Agree	30%	6
Agree	35%	7
Somewhat Agree	10%	2
Neutral	20%	4
Somewhat Disagree	0%	0
Disagree	5%	1
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>20</b>



4. The speaker kept the audience engaged during the seminar (Multiple Choice)

Responses		
	Percent	Count
Strongly Agree	10%	2
Agree	45%	9
Somewhat Agree	25%	5
Neutral	20%	4
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>20</b>





3. The topic is of great therapeutic potential? (Multiple Choice)

	Responses	
	Percent	Count
Strongly Agree	38.1%	8
Agree	42.86%	9
Somewhat Agree	14.29%	3
Neutral	4.76%	1
Somewhat Disagree	0%	0
Disagree	0%	0
Strongly Disagree	0%	0
<b>Totals</b>	<b>100%</b>	<b>21</b>

