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TEQIP Workshop on:

Tissue Engineering: Biomaterials and stem cells for manufacturing of biological tissues

Indian Institute of Technology, Hyderabad

Date: 18-23 July 2016 Venue: IIT Hyderabad

Before lunch: Room 111, Academic block A

After lunch: Temporary Lab 35

Kindly Notice: The schedule and planning of the workshop might change without further notice depending on a number of factors and Organizer's issues, though the overall plan will remain similar. If you have any queries, please feel free to email on teqip-te@iith.ac.in or contact any of the following coordinators. Further details of the workshop can also be obtained at: http://www.iith.ac.in/teqip/upcoming/TE/index.html.

Program Schedule

Day 1 (July 18, 2016; Monday)

Day 1		Venue	Co-ordinator
10:00-11:00	Registration and Inauguration	111	
11:00-12:00	Lecture 1: Introduction to tissue engineering	111	Dr. Subha N. Rath,
	and regenerative medicine		BME
12:00-13:00	Lecture C2: Cells used for tissue engineering	111	Dr. Subha N. Rath,
			BME
13:00-14:30	Lunch		
14:30-16:00	Hands-on-Session 1: Cell thawing, imaging,	Lab	Dr. Subha N. Rath,
	and counting.		BME
16:00-16:30	Tea Break		
16:30-17:30	Hands-on-Session 1: Cell thawing, imaging,	Lab	Dr. Subha N. Rath,
	and counting. QUIZ.		BME

Day 2 (July 19, 2016; Tuesday)

Day 2		Venue	Co-ordinator
10:00-11:00	Lecture B3: Evolution of biomaterials	111	Dr. Atul
			Deshpande, MSME
11:00-12:00	Lecture B4: Material testing of biomaterials	111	Dr. Mudrika
			Khandelwal,

			MSME
12:00-13:00	Lecture C5: Study of cell behavior by	111	Dr. Satyavrata
	biotechnology methods		Samavedi, CE
13:00-14:30	Lunch		
14:30-16:00	Hands-on-Session-2: Synthesis of a biomaterial	Lab	(Dr. Mahesh K.
	(from Natural sources) and characterization		Sah/ Dr. Bharat B.
			Panigrahi)
16:00-16:30	Tea Break		
16:30-17:30	Hands-on-Session-2: Synthesis of a biomaterial	Lab	(Dr. Atul
	(hydroxyapatite) and characterization. QUIZ		Deshpande)

Day 3 (July 20, 2016; Wednesday)

Day 3		Venue	Co-ordinator
10:00-11:30	Lecture BC6: Cell-biomaterial interaction: <i>In</i>		Dr. Satyavrata
	vitro testing		Samavedi, CE
11:30-13:00	Lecture B7: Manipulating natural materials		Dr. Mudrika
	for biomaterial application		Khandelwal, MSME
12:00-13:00			
13:00-14:30	Lunch		
14:30-16:00	Hands on Session-3: <i>In vitro</i> testing: cell		Dr. Subha N. Rath,
	seeding on biomaterials		BME
16:00-16:30	Tea Break		
16:30-17:30	Hands on Session-3: <i>In vitro</i> testing: cell		Dr. Subha N. Rath,
	seeding on biomaterials. QUIZ.		BME

Day 4 (July 21, 2016; Thursday)

Day 4		Venue	Co-ordinator
10:00-11:00	Lecture BG8: Extra-cellular matrix and	111	Dr. Falguni Pati,
	growth factors used in tissue engineering		BME
	approach		
11:00-12:00	Lecture A9: Angiogenesis and	111	Dr. Subha N. Rath,
	vascularization in tissue engineering		BME
12:00-13:00	Lecture G10: Bioreactors to stimulate tissue	111	Dr. Subha N. Rath,

	development		BME
13:00-14:30	Lunch		
14:30-16:00	Hands on Session-4: RNA isolation and PCR	Lab	Dr. Subha N. Rath,
	of the cell-seeded biomaterial constructs		BME
16:00-16:30	Tea Break		
16:30-17:30	Hands on Session-4: RNA isolation and PCR	Lab	Dr. Subha N. Rath,
	of the cell-seeded biomaterial constructs.		BME
	QUIZ.		

Day 5 (July 22, 2016; Friday)

Day 5		Venue	Co-ordinator
10:00-11:30	Lecture B11: Manufacturing methods to	111	Dr. Bharat
	make porous implants		Panigrahi, MSME
11:30-13:00	Lecture BC12: Additive manufacturing (3D	111	Dr. Falguni Pati,
	printing) in tissue engineering		BME
13:00-14:30	Lunch		
14:30-16:00	Hands on Session-5: Imaging of cell-	Lab	Dr. Subha N. Rath,
	biomaterial constructs		BME
16:00-16:30	Tea Break		
16:30-17:30	Hands on Session-5: Imaging of cell-	Lab	Dr. Subha N. Rath,
	biomaterial constructs QUIZ.		BME

Day 6 (July 23, 2016; Saturday)

Day 6		Venue	Co-ordinator
10:00-11:00	Lecture 13: In vivo testing and ethical issues	111	Dr. Subha N.
			Rath, BME
11:00-12:00	Quiz, Concluding remarks	111	Dr. Subha N.
			Rath, BME
12:00-13:00	Vote of thanks, Feedback.	111	
13:00-14:30	Lunch followed by break-out session		