

Fermentation Technology July 19 – 23, 2021

Monday	Tuesday	Wednesday	Thursday	Friday
1:00-1:30 Introduction (KLJP)	1:00-1:45 Topic #2 (KLJP)	1:00-1:45 Topic #4 (MZR)	1:00-1:45 Topic #6 (KLJP)	1:00-1:45 Topic #7 (MZR)
1:30-2:00 Topic #1 (CLC)	1:45-2:00 Break	1:45-2:00 Break	1:45-2:00 Break	1:45-2:00 Break
2:00-2:15 Break	2:00-2:45 Topic #2 (KLJP)	2:00-2:45 Topic #4 (MZR)	2:00-2:45 Topic #6 (KLJP)	1:00-1:45 Topic #7 (MZR)
2:15-3:00 Topic #1 (CLC)	2:45-3:15 Break	2:45-3:15 Break	2:45-3:15 Break	2:45-3:15 Break
3:00-3:30 Break	3:15-4:00 Topic #3 (MZR)	3:15-3:45 Topic #4 (MZR)	3:15-4:00 Topic #6 (KLJP)	3:15-4:00 Topic #8 (CLC)
3:30-4:15 Topic #1 (CLC)	4:00-4:15 Break	3:45-4:00 Topic #5 (KLJP)	4:00-4:15 Break	4:00-4:15 Break
4:15-4:30 Break	4:15-5:00 Topic #3 (MZR)	4:00-4:15 Break	4:15-5:00 Topic #6 (KLJP)	4:15-5:00 Topic #8 (CLC)
4:30-5:00 Topic #1 (CLC)		4:15-5:00 Topic #5 (KLJP)		
		6:00-7:00 Virtual Reception		

Initial Keys of Live Lecturers:

CLC: Charles L. Cooney

KLJP: Kristala L.J. Prather

MZR: Morris Z. Rosenberg

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Topic No.	Topic Title	Lecturer	Time Allotted (Hours)
1	Growth and Metabolism	C.L. Cooney	2.5
2	Recombinant Organisms for Bioprocesses	K.L.J. Prather	1.5
3	Bioreactor Operations: Microbial Fermentations	M.Z. Rosenberg	1.5
4	Bioreactor Operations: Mammalian Cell Culture	M.Z. Rosenberg	2.0
5	Molecular Biology in Bioprocess Development	K.L.J. Prather	1.0
6	Modeling and Bioprocess Monitoring	K.L.J. Prather	3.0
7	Scale-Up of Bioreactors: Mammalian and Microbial Systems	M.Z. Rosenberg	1.5
8	Bioprocess Design, Simulation and Economics	C.L. Cooney	1.5
Start	1:00 PM EDT		
End	5:00 PM EDT	Total Hours of Live Virtual	14.5

The following lecture material is provided in pre-recorded format:

Topic No.	Topic Title	Lecturer	Time Allotted (Hours)
9	Media and Air Sterilization	C.L. Cooney	1.5
10	Perfusion Technologies	J.C. Love	1.5
11	Power Requirement in Bioreactors	J.C. Leung	1.0
12	Oxygen Transfer and Shear in Bioreactors	J.C. Leung	2.0
Total Hours of Recorded Lectures			6