

Syllabus SIO 242B – Winter 2016
Marine Biotechnology

Instructors:

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Tuesday/Thursday 9:00 – 10:20 AM
Vaughan Hall 300
(4 Units)

Date	Lecture	Instructor	Topic	Lecturer	Student
Jan 5 (Tu)	1	Bartlett	Introduction to biotechnology	Bartlett (SIO)	
Jan 7 (Th)	2	Bartlett	Patent law issues in biotechnology	James Mullen	
Jan 12 (Tu)	3	Bartlett	Genetically engineered salmon	John Buchanan (The Center for Aquatic Technologies)	
Jan 14 (Th)	4	Bartlett	Fermentation on methane	Marina Kalyuzhnaya (SDSU)	
Jan 19 (Tu)	5	Bartlett	Intellectual property/tech transfer	Paul Jensen (SIO)	
Jan 21 (Tu)	6	Bartlett	Technology Transfer at UCSD	Skip Cynar – (UCSD)	
Jan 26 (Tu)	7	Bartlett	Detecting pathogens	Kelly Goodwin (NOAA)	
Jan 28 (Th)	8	Bartlett	UCSD Career Center Assistance –	Giulia Hoffman	
Feb 2 (Tu)	9	Bartlett	Microbial fuel cells	Meriah Arias-Thode (SPAWAR) and Orianna Bretschger (JCVI)	
Feb 4 (Th)	10	Bartlett	Connect (http://connect.org/about-connect/) success stories		Greg McKee
Feb 9 (Tu)	11	Fenical	Engineering microbes	John Trawick (Genomatica)	
Feb 11 (Th)	12	Fenical	Marine natural products	Bill Fenical (SIO)	
Feb 16 (Tu)	13	Fenical	Antibiotic discovery	Joe Pogliano (UCSD)	
Feb 18 (Th)	14	Fenical	Metabolomics and Fluxomics to Understand Algal Metabolism - Andrew (Drew) Schultz (Synthetic Genomics)		
Feb 23 (Tu)	15	Fenical	Industrial Enzymes	Mark Wall (Verenium) -	
Feb 25 (Th)	16	Fenical	My Wanderings thru Chemistry	Michael Garst (former Allergan VP Chem)	
Mar 1 (Tu)	17	Fenical	Algal biotechnology	Steve Mayfield (UCSD)	
Mar 3 (Th)	18	Fenical	Patent law issues in biotechnology	Barbara Potts (Allergan Pharmaceuticals)	
Mar 8 (Tu)	19	Fenical	Trials and Tribulations of Creating a Biotech	Kobi Sethna, (Past CEO Nereus Pharmaceuticals)	
Mar 10 (Th)	20	Fenical	From SIO to CEO: a random biased walk in biotech - Jeff Stein, (Cidara Therapeutics)		
Finals weeks Mar 12-19			Mini-patent applications due		

Course requirements: attend, read all assigned papers and come prepared to discuss their strengths and weaknesses in class, present one research paper, write a mini-patent application (10 pages) on an original idea in the area of marine biotechnology.