

**Spring 2018**  
**BIOLOGY Capstone Presentation Schedule**  
**(Tuesday, May 22 2018)**

Each presentation is 15 minutes (12 min. Talk + 3 min. Q&A)

Time	<b>Cellular and Molecular Biology/Organism Structure and Function</b> <b>MCLT #131</b>
	<b>Infecting the pathogens: Bacteriophage therapy in a post-antibiotic world</b> <b><u>Shannon Seidel</u></b>
10:00	<b>Emma Adams</b> - The use of recombinant repressor knockout phage for the treatment of <i>Clostridium difficile</i> infection
10:15	<b>Tiana Bennett</b> - Being proactive about resistance: The potential of phage cocktails to treat <i>Propionibacterium acnes</i>
10:30	<b>Maya Bamba</b> - Testing bacteriophage survival in banana plants to counter Moko Disease
10:45	<b>Natalia Cortez</b> - Antibiotic in canines: Isolating and characterizing lytic bacteriophage from canines and veterinary clinics to treat methicillin resistant <i>Staphylococcus pseudointermedius</i>
11:00	<b>BREAK</b> Talks resume at 11:15
	<b>The neuroendocrine control of the onset of puberty: A role for kisspeptin</b> <b><u>Matt Smith</u></b>
11:15	<b>Molly Dols</b> - Body fat and kisses: Kisspeptin neurons interpret stimulus from the adipose hormone leptin to initiate puberty onset
11:30	<b>Tori Vigil</b> - Kisspeptin as a modulator of sexual behavior in mice
11:45	<b>Shawn Brookins</b> - Ghrelin's downregulation of kisspeptin and pubertal onset
12:00	<b>LUNCH BREAK</b> Talks resume at 12:15
	<b>Impact of the endocannabinoid system on the metabolic syndrome</b> <b><u>Patty Dolan</u></b>
12:15	<b>Tyler Johnson</b> - More than the munchies: How the endocannabinoid system makes you fat
12:30	<b>Ashley Farre</b> - The saga of Rimonabant: How to keep the ECS from making you fat
12:45	<b>Destinie Miner</b> - The endocannabinoid system and exercise: Where was this in our biology book?
13:00	<b>Trisha Glover</b> - Why marijuana's good for you: Diabetes, cardiomyopathy, and cannabidiol

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Time	<p style="text-align: center;"><b>Ecology and Evolution</b> <b>MCLT #132</b></p>
	<p style="text-align: center;"><b>Conservation genetics</b> <b><u>Jacob Egge</u></b></p>
10:00	<b>Marcos Giossi</b> - Conservation of potato wild relatives
10:15	<b>Alex Lund</b> - The road to ecosystem conservation is paved with soil: How microbial community genetics can improve restoration strategies
10:30	<b>Kendall Pargot</b> - Using wildlife forensics to prevent African elephant ivory trafficking
10:45	<b>Cecilia Chan</b> - Using environmental DNA (eDNA) to monitor salmon populations
11:00	<p><b>BREAK</b> Talks resume at 11:15</p>
	<p style="text-align: center;"><b>Sexual dimorphism in the skeletal morphology of non-human vertebrates</b> <b><u>Heidi Schutz</u></b></p>
11:15	<b>Lily Phan</b> - The effects of infrasounds from peacock trains on mate choice
11:30	<b>Bennett Bugbee</b> - Teeth and sex: How oceanic climate change could suppress differences in the dental morphology of Atlantic stingrays
	<p style="text-align: center;"><b>Marine conservation</b> <b><u>Mike Behrens</u></b></p>
11:45	<b>Matt Leitzinger</b> - A need for ecological intervention: salmon net pens under current precedent and practice amplify parasites and threaten salmon
12:00	<p><b>LUNCH BREAK</b> Talks resume at 12:15</p>
	<p style="text-align: center;"><b>Genetic engineering for insect resistant crops</b> <b><u>Neva Laurie-Berry</u></b></p>
12:15	<b>Leah Nicholson</b> - Bt: a natural source for safer insecticides
12:30	<b>Haley Bridgewater</b> - The impact of Bt crops on soil ecosystems
12:45	<b>Emma Davis</b> - Best practices for pyramided Bt crops
13:00	<b>Sasha Vasilyeva</b> - Potential of spider venom as a bioinsecticide in transgenic crops