Summer Bridge Program/Research Experience for Undergraduates

STEM FYE program & Laboratory of Marine Genomics (RSMAS)

Fifth Homework assignment

**1. (a) Briefly describe how Sanger sequencing works. (b) Sanger sequencing is considered to be an “old school” method of sequencing. Nowadays, high throughput next generation sequencing can obtain million of sequences for a lower cost than Sanger sequencing. If this is the case, why do you think we used Sanger sequencing technology for this particular project?**

**2. Read the assigned literature for next week (July 22),** Conservation genetics of the extinct dusky seaside sparrow *Ammodramus maritimus nigrescens* (R. Zink & H. Kale 1994), and answer the following questions:

* Why is it important to use genomic techniques when dealing with conservation

**3. Why is it important to protect biodiversity and genetic diversity?**