Natalie Wood

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Bio 120-01

Materials and Methods: Revisions

This experiment started off with the idea of sampling three statues; Joney on the stoney, Joney on the poney, and the Confederate soldier, that live around Longwood University and then they were to be compared in growth of bacteria and fungi on each statue. The first step was to gather the materials needed for the sampling and experiment. The materials that were used are; 20 swabs, 3 sampling plates and 1 MSA plate, and the statues itself. In each of the three plates contained a substance called LB Agar that feeds the bacteria and the MSA plate contained Mannitol salt agar which is a different type of media that determines if the bacteria can ferment mannitol and salt which means it can lead to a bacteria called staphylococcal.

 After collecting the materials, it was time to sample each statue. Each plate contained four quadrants. There needed to be a different swab used every time the statue was swabbed which is 3 times. Each swab sampling was in the same place on the statue and put in the three quadrants separately. The fourth quadrant of the plates was the control which meant that a clean swab was swabbed in that quadrant. The MSA plate was used on Joney on the poney and was swabbed like the other statues.

 The first statue swabbed was Joney on the poney. The swabbing area was the base that the statue was on, on the left side. It was swabbed back and forth 3 times with three different swabs and put on the plate. The second was Joney on the stoney. She clasps her hands so the swabbing area were in-between her knuckles and fingers. Repeat the swabbing 3 times and put on the plate. The last statue to be swabbed was the confederate man. Since the statue is incredibly large, the swabbing area was the top of the base holding up the statue on the left side. The plates were then taken back to the lab and sealed with tape to keep concealed properly. Then the plates were put in an incubator at 37C and then refrigerated.

**CITATION**

 Li Q, Zhang B, He Z, Yang X (2016) Distribution and Diversity of Bacteria and Fungi Colonization in Stone Monuments Analyzed by High-Throughput Sequencing. PLoS ONE 11(9): e0163287. doi:10.1371/journal.pone.0163287