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My academic goal is to obtain a PhD in Immunology or Oncology, the focus of which I'm unsure still but most likely having a focus on cell signalling. With this future goal, I'd use it to become a professor and teach the next generations in STEM. As for my research project this coming academic year, it is involving the utilisation of the CRISPR/Cas9 system. The goal of the project is to perform gene knockout/silencing of *rpsT* in *Bacillus cereus* to determine its contribution to the bacterium's antibiotic resistance to gentamicin, streptomycin, and tetracycline. *rpsT* encodes for the 30S ribosomal subunit S20, and when knocked out, previous research has shown a decrease in protein synthesis efficiency. Thus, by knocking out *rpsT*, *B. cereus* will become more susceptible to antibiotics, particularly protein synthesis targeting antibiotics such as gentamicin. A couple methodology changes have occurred since applying, the changes being using a different Cas9 plasmid, pJOE9282.1, from Altenbuchner's lab in the University of Stuttgart, and performing brief plasmid construction. The goal and the focus of the project are still the same.