



# Development of Scientific Communication Abigail Munteanu, Biochemistry, 2022

Professional  
Development

## SUMMARY

*I presented at the Texas Branch American Microbiology Conference in November at the downtown UTSA campus. I presented my research over "Hyperswarming" Motility Variants of Vibrio Cholerae Exhibit Reduced Virulence Factor. My goal was to develop the skills and abilities for my future career. I have struggled heavily with public speaking, and I really wanted to work on effectively communicating with those around me and particularly those in my field. My responsibility was to create a poster that properly exhibited my research for the last year. I wanted to understand my data more, and I felt the best way to do this was through a conference. While I was there I had to spend time answering any questions, I actually ended up presenting my work seven times.*

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ATGATTGGGAAAAAATCTTTCAAACATAATGTATAGATAAGTAAATTTGATACCTACATATTCAATA 70
ACTTATATATAAAGCAGTACAAAATGTTCTGGATAGATAGTGAATTCGAAAGCTTATAGATAAAAAATTG 140
CTTGGTGTAGTATGAGATAAATCAAGTTCAAATATCTTCAAGAAAACCTTATTCAAGGATTTCT 210
TTGACCTCATTATCAGATGAAAATATAAATGTTTCTGTAATACATAAAGTGAATTCATTATACGTTTAC 280
TAAAATCTACATTTCTGGTATCTCATGATAAGGAATTTATATAGTGAATAAAGATCTATTACTTTG 350
GAATTTGGAACATAATGATATAGCTCTCCTTTCTGAAGTGGTAAAT GTT189 TTCAGAGAAATTAATATTCA 420
GATGAGTCTCTAAAAGTTTTTTTCAGGG TTA491 TTCTCGAAAGTGAAGAAAAATATAAGCTATATTTA 490
TTACTGATGATCTTGTATGCTATGGAGAAAATTCATGTTTGTAGTAAAAAGTGAATACGGCTAATTGGCG 560
TTGGGAGATATTTGTGTGAAATTAAGAAGCAATCGGATGATTTTGAAGAAAGCACTAGAGTCTCGAGGA 630
GTAAGTTAGAGAATTAATTAATAGCATTGGAATATCATATTTCAATTCATAATGAAAACGGTGAAT 700
TCAAAATAAACAAGATTCATATCAGTCTGGTTTGTAGCGTTTTCATATTTTCT ACA698 GTATTTAAGTC 770
AACCATGAATGTAGCACCAGTGAATATTTATTTATGTTGACAGGAGTTGCAGAAAAATAA 831
```

TCP pilus virulence regulatory protein  
HS7: GGT→GTT 2808: TTC→TTA 2811: ACA→ATA

HS-7→ G133V Glycine→ valine  
2808→ T253I Threonine→ Isoleucine  
2811→ F151L Phenylalanine→ Leucine

## SPICES

*Presenting a poster presentation embodied professional development because it taught me how to effectively communicate within my field and the ability to explain my research to any type of person: scientist or not.*

## HERBS

*Resilience: Finding the right layout, particularly for a giant poster, is not an easy task to do. Benevolence: I help answer questions and learned to tell a story.*

## LEARNING OUTCOMES

Adaptability and Resilience: At one point I found out that my data was labeled incorrectly. I had to work through a page of data, 3 hours of just ATCG. Communication: I had to practice hours before to gain the confidence and ability to translate from scientific to common knowledge. Self-reflection: I learned how to effectively understand that it not about what you present, but how you present your work that makes all the difference.

## IMPACT

Conveying your thoughts to paper, particularly a giant poster, is not an easy task to do. Even when I wanted to give up, I learned to push forward and find solutions. I have learned how to professionally organize my work like a story, so people can not only enjoy my presentation but follow along. Through this experience I have gained so much confidence in myself. I now can speak publicly without becoming shaky or freaking out, and I have learned key tools and skills that I will continue to use in my future career.

## ADVICE

Practice makes perfect. Make sure to spend time double checking your work and talking to your peers. Peer evaluations of your work is a great source of feedback and improvement on your work.

