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# Emma McAuley

## Sales Representative

Self-starter experienced in genetic and molecular biology with a background in sales. Highly motivated and eager to transition into life science sales, bringing experience in genetic and molecular biology as well as sales, communication and leadership.

### Contact

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### Work Experience

**Dec 2015 - Nov 2016**

**Lab Technician / Herr Lab, University of Washington / Seattle, WA, United States**

Pathology lab that tracks and studies mutations and ultimately anti mutator cells via sequencing. The ultimate goal is to manipulate these 'anti mutator' cells in a way that helps treat certain types of cancer in humans.

Studied mutations in yeast genomes in order to determine when and where mutations occur, and when they become fixed in the DNA. Became proficient in many lab techniques.

**Jun 2015 - Dec 2017**

**Bartender/Server / Daniel's Broiler / Seattle, WA, United States**

Strengthened skills working with people in a high end competitive sales atmosphere. Continuously a top sales employee who demonstrated skills in multitasking and personal intercommunication.

**Jan 2016 - Mar 2016**

**Work-Study / Hillesland Lab, University of Washington / Bothell, WA, United States**

Worked with Dr. Kristina Hillesland to examine coevolution between a species of archaea and bacteria. Utilized optical densities with Thermo Scientific Genesys 20 OD reader, cell counting on a Nikon Eclipse 80i microscope, and specificity index equations to see if coevolution was actually taking place.

## Education

Mar 2013 - Jun 2017

**Bachelors of Science in Biology / University of Washington / Seattle, WA, United States**

I excelled in my academics, particularly in areas regarding science. I made Dean's list on multiple occasions, and finished top of my class in subjects pertaining to micro, cellular and molecular biology.

I was a professor's assistant for microbiology 370 and cellular biology 380, during which I graded most assignments and exams and assisted with lab prep and teaching techniques.

## Skills

### Laboratory Techniques

Single cell and genome sequencing (via Illumina), PCR and QPCR, Qubit Fluorometric Quantification, flow cytometry, sonication, microscopic dissection, cell counting, fluorescence-activated cell sorting (FACS), single cell isolation, agarose gel electrophoresis, serial dilution, DNA extraction, DNA minipreps, mutation rate assays, western blots, and genotyping.

Performed analysis and statistics using rSalvador and Excel.

### Sales Skills

I am a highly motivated professional who enjoys a competitive work atmosphere and appreciates a challenge. I find success both working as a team or setting individual goals, and frequently find myself taking on leadership roles and motivating others. I excel in areas of communication and active listening, and I appreciate efficiency and am skillful in time management. I am passionate about molecular and genetic biology, and take pride in my work.

### Coevolution Through Local Adaptation of Mutualistic Partners

I examined how and if two species of bacterium can coevolve in a mutualistic relationship. Due to their rapid growth we were able to observe the species grow from original ancestral pairings to an evolved 1000th generation coculture. Hundreds of mutations amassed, and certain pairings appeared to replicate faster and more successfully. I was able to present data from numerous pairings using ANOVA that investigated whether certain pairings experienced a greater impact of coevolution and local adaptation and explored whether or not certain mutations were advantageous to either species.

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