

# Matthew S. Polson

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## Education

### **M.S. Biomedical Science**

August 2005

Colorado State University, Fort Collins, CO  
GPA: 3.78

### **B.S. Biological Science, Minor in Biomedical Science**

May 2004

Colorado State University, Fort Collins, CO  
GPA: 3.28

## Skills and Experience

- Operation of fermentation systems
- Biosafety Level 3 experience
- Aseptic technique
- Subculturing
- Light and dark field microscopy
- Pipetting technique
- Spectrophotometry
- Intravenous injections in mice
- Intraperitoneal injections in mice
- Subcutaneous injections in mice
- Animal handling
- Media and solution preparation
- Bacterial identification
- Microsoft Office Suite
- ISO Class 5 cleanroom experience
- GMP, GDP, GTP

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## • **Career Accomplishments**

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- I proposed and implemented a procedure change in media preparation that corrected an issue of contamination in a biological product that had been consistently failing purity tests.
- I proposed changes to several laboratory procedures that resulted in a safer and cleaner work environment.
- I routinely participated in the troubleshooting of fermentation equipment to get it back in operating condition and to reduce production downtime.

- I utilized creative troubleshooting to recover lost data from fermentation cycles in the computer after a power outage, and reorganized it into usable graphs, which prevented the destruction of the production batch and saved money for the company.

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- **Employment**

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- **Allosource**
- **Centennial, Colorado** September 2014  
to December 2015

- *Intermediate Operations Technician*

- Adhered to standardized aseptic technique, standard operating procedures, work instructions, good documentation practices, good tissue practices, and good manufacturing practices
- Processed and packaged donated human tissue for transplant, including cortical and cancellous bone, tendons, live mesenchymal stem cells, and adipose derived stem cells
- Performed peroxide, acid, antibiotic, and cryoprotectant treatments on human tissue
- Skilled at aseptically gowning into a sterile environment

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- **Colorado Serum Company** September  
2005 to July 2012

- **Denver, Colorado**
- *Staff Microbiologist*

- Inoculated sterilized growth media in screw cap culture tubes, stationary flasks, shake flasks, Roux culture bottles, Povitsky bottles, fermentation bottles, fermentation carboys, and large volume fermentation systems with various bacterial cultures for production
- Prepared and sterilized growth media
- Prepared laboratory stock solutions
- Operated fermentation systems in sterilization and fermentation cycles
- Prepared and sterilized laboratory equipment for production use
- Tested harvested bacterial cultures for growth in sterile media to confirm their state of inactivation
- Performed Gram staining of production bacterial cultures
- Performed optical density and total count testing of bacterial cultures
- Prepared the paperwork documenting the production record of bacterial cultures for use in final products
- Cleaned and maintained the production laboratory as was needed

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- **Neuroscience Laboratory of Dr. John Rash**

- June 2004 to August 2004

- **Colorado State University, Fort Collins, CO**

- *Student Research Technician*

- Organized, archived, and interpreted data from transmission electron microscope images of tissue samples that were prepared using the Freeze Fracture Replica Immunogold Labeling technique
- Acquired proficiency in the use of Adobe Photoshop

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