

MELAINIE DUCKWORTH, MLS (ASCP)^{cm}

Website: MelainieDuckworth.com | Email: Melainie@Duckworth.EMAIL

EXPERIENCE

Northwest Arctic Borough | Kotzebue, AK

Bush Alaska Life | April 2012- April 2016

- Foraged native plants and preserved them
- Set-net for salmon and preserved them
- ATV and snowmobiling across tundra and ice
- Hunted caribou and moose, processed the meat
- Learned some Inupiaq
- Camped during winter and summer
- Ice fishing for sheefish

Alaska Department of Fish & Game | Fairbanks, AK

Local Research Assistant | May-June 2015

Subsistence Mapping Project - Northwest Arctic Borough

Principal Investigator - Damian Satterthwaite-Phillips, PhD

- Introduction to scientific research discussion session
- Data plotting for subsistence research
- Documenting subsistence harvest surveys

Maniilaq Association | Kotzebue, AK

Medical Technologist | April 2012 - present

Pathologist and Laboratory Director - James Tiesinga, MD

Laboratory Manager - Andrew Martinez, MLS (ASCP), MT (AMT)

- Lead Technologist duties in Microbiology and Blood Banking
- Microbiology training and experience
- Vitek 2 and BacT-Alert analyzer experience
- Epidemiology reporting
- Research data analysis and reporting
- Extensive troubleshooting techniques
- Process improvement and quality assurance programs
- Procedure manual revision and improvements

Decatur General Hospital | Decatur, AL

Medical Laboratory Technician | July 2008 - September 2010

Pathologist and Laboratory Director - James Dailey, MD

Laboratory Manager - Joe Britnell, MT

- Generalist with Blood Banking experience
- Refined laboratory techniques
- Quality control and quality assurance techniques
- Analyzer maintenance and troubleshooting
- Involved in clinical rotation training for MLT students

Marshall Medical Center South | Boaz, AL

Clinical Laboratory Rotation Student | Spring 2008

- Microbiology rotational training with some parasitology experience
- Viral and Bacterial Immunology
- Generalist laboratory rotations with Blood Banking
- Basic laboratory techniques and procedures
- Phlebotomy rotation

EDUCATION

Fort Hays State University | Hays, KS

Grant Writing Certification Course | Fall 2015

Excelsior College | Albany, NY

Bachelor of Science in Natural Science - Biology | May 2015

- Cum Laude
- Two Senior Research Projects:
 - “Microbiomes in Human Health: The Future of Biomedical Science” | Fall 2014
 - “Interdisciplinary Research in Microbial Agroecology Provides Solutions for Sustainable Agriculture” | Spring 2015

Wallace State College | Hanceville, AL

Associate of Applied Science in Clinical Laboratory Technology | May 2008

- Phi Theta Kappa
- President’s List
- Summa Cum Laude

University of Alabama at Huntsville | Huntsville, AL

Biological Sciences major with Chemistry minor | August 2004 - May 2006

- Transferred to Wallace State College

SKILLS & TECHNIQUES

- Flow cytometry using hydrodynamic focusing methodology
- Fluorometry
- PCR with agarose gel electrophoresis
- Extensive immunoassay experience including chemiluminescence, enzyme-linked immunosorbent assays, and photometric analysis
- Agglutination and precipitation reactions to determine specific immune (antigen/antibody) complexes
- Antibiotic susceptibility testing with minimum inhibitory concentration determinations
- Biochemical methods of identifying bacterial isolates

RESEARCH INTERESTS

- Bacterial evolution of antibiotic resistance
- Bioremediation of environmental contaminants
- Microbiome studies in relation to health and disease

CERTIFICATIONS & MEMBERSHIPS

Medical Laboratory Technician | American Society for Clinical Pathology

- July 2008 to Present

Medical Laboratory Scientist | American Society for Clinical Pathology

- October 2015 to Present

American Society for Clinical Pathology membership

- July 2008 to 2009