

Curriculum Vitae

Megan Palmer

Arkansas Genomics, LLC
Little Rock, Arkansas 72202

Office: 501-850-0204

E-Mail: mpalmer@arkansasgenomics.com

ACADEMIC QUALIFICATIONS

B.S. Biotechnology, 2006
North Dakota State University
Fargo, ND

M.S. Biochemistry, 2011
North Dakota State University
Fargo, ND

**Curriculum satisfies all FBI guidelines for Technical Leader/DNA analyst*

PROFESSIONAL EXPERIENCE

March 2007- Jan 2010 **Forensic DNA Analyst**
Forensic DNA Facility
Department of Chemistry and Biochemistry
North Dakota State University
Fargo, North Dakota

August 2004-July 2006 **Lab Technician**
Department of Chemistry and Biochemistry
North Dakota State University
Fargo, ND

- Conducted research on total RNA to quantify gene expression
- Proficient in isolation of total RNA, isolation of mRNA, Real Time PCR, gel electrophoresis, Northern Analysis techniques

July 2005- May 2007 **Phlebotomist III**
PRACs-Cetero Research Institute
Fargo, ND

- Draw blood samples in a timely manner following protocols
- Collect vitals from subjects: EKGs, blood pressure, temperature, respirations, pulse
- Centrifuge, pipette, store and send plasma in an appropriate fashion
- Train entry level phlebotomists to perform new tasks
- Clean and stock study units
- Read and follow SOPs

SPECIALITY HID EXPERIENCE:

Skills & Training

- Participate in setting up an operation ISO 17025 accredited forensic laboratory
- Conducted laboratory validations
- Help develop and follow Standard Operating Procedures (SOPs)
- Performed forensic analysis on physical evidence involving serology and DNA analysis, analytical interpretation and report writing
Organic, Chelex, Qiagen, Promega IQ System extraction techniques
Applied Biosystems Quantifiler™ Human, Quantifiler™ Y, Quantifiler™ Duo, AmpFℓSTR® Identifiler™, Yfiler™, and MiniFiler™ human identification systems Promega Plexor® HY and PowerPlex®16 human identification systems

Instruments

- SPEX MSC 400 Mini Crime Scope
- SPEX 6770 Freezer Mill
- Qiagen EZ1 Extraction Robot
- P.A.L.M. Microbeam Laser Catapult Microscope
- Zeiss Discovery Stereoscope
- Corbett Liquid Handler CAS-1200 Robot
- AB 9700 Thermocyclers
- AB 7500 Real Time PCR Instrument
- AB 3130 and 3130xl Genetic Analyzers
- Biomek 3000

Computer Software

- Microsoft Office
- Axiovision Software version 4.7.2
- P.A.L.M. Robomover Software
- Corbett Liquid Handler Software
- 7500 SDS Collection Software v1.2
- 7500 SDS HID Real-Time Analysis v1.1
- 3130 Data Collection Software

- GenemapperID v3.2.1
- DNA View
- StarFruit IdentiTrack Database

SPECIALIZED TRAINING

2009 AxioVision training at US Zeiss Headquarters

Terrytown, NY

2008 Promega 19th International Symposium on Human Identification

Hollywood, CA

2008 College of Microscopy COM700 Body Fluid

Chicago, IL

2008 DNA View, Pater, Casework Analysis, Parentage Testing, Kinship, Population Genetics by Charles Brenner

2008 Bode Technology “Fifth Annual Advanced DNA Technical Workshop”

San Diego, CA

2007 Applied Biosystems 3130 HID Training

Rockville, MD

2007 Association of Forensic DNA Analysts and Administrators (AFDAA)

Austin, TX

2006 American Chemical Society meeting

Anaheim, CA

2005 American Chemical Society meeting

MEMBERSHIPS AND ASSOCIATIONS

PUBLICATIONS

Vomhof-DeKrey EE, Hermann RJ, Palmer MF, Benton KD, Sandy AR, Dorsam ST, Dorsam GP. **TCR signaling and environment affect vasoactive intestinal peptide receptor-1 (VPAC-1) expression in primary mouse CD4 T cells.** *Brain Behavior Immunology*. 2008 Oct;22(7):1032-40. Epub 2008 Jun 4

In preparation for Journal of Forensic Science: April 2011

Palmer MF, Haring SJ and Henry BE. **The Optimization of Whole Genome Amplification and Molecular Crowding for use in Forensic Low Copy Number Samples.**

