



Idaho State Police Forensic Services



RYLENE L. NOWLIN

Laboratory Manager

Idaho State Police Forensic Services

700 S. Stratford Drive, Ste. 125, Meridian, ID 83642-6202

Phone – (208) 884-7170

EDUCATION:

1996 The College of Idaho
Bachelor of Science - Biology and History

EXPERIENCE:

Sept. 2014- Idaho State Police Forensic Services Laboratory
Present Laboratory Manager

Jun. 2003- Idaho State Police Forensic Services Laboratory
Sept. 2014 Forensic Scientist II
Biology/DNA

Nov. 2002- Idaho State Police Forensic Services Laboratory
Jun. 2003 Forensic Scientist I
Biology/DNA

CERTIFICATIONS:

Aug. 2007- American Board of Criminalistics; Molecular Biology Fellow
Present

PROFESSIONAL ORGANIZATIONS:

May 2015- American Society of Crime Laboratory Directors
Present

Feb. 2011- American Academy of Forensic Sciences
Present

Jan. 2005- Northwest Association of Forensic Scientists
Present

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EQUAL OPPORTUNITY EMPLOYER

Revised 12/31/2024

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TESTIMONY:

State Courts

Ada County	Jerome County
Bannock County	Latah County
Bingham County	Kootenai County
Blaine County	Madison County
Bonner County	Nez Perce County
Boundary County	Payette County
Canyon County	Shoshone County
Fremont County	Twin Falls County
Jefferson County	

CONTINUING EDUCATION; ASSOCIATION MEETINGS; CONFERENCES:

2024	Professional Meeting: AAFS Professional Meeting: MWCLD
2023	Professional Meeting: STRmix Professional Meeting: ASCLD Professional Meeting: IHIA Genealogy DNA Summit
2022	Professional Meeting: ISHI Professional Meeting: STRmix Professional Meeting: ASCLD ISO 17025 Auditor Training (Seaglass) Relationship Statistics Training (Marshall) Forensic Investigative Genetic Genealogy Training (Colleen Fitzpatrick)
2021	Professional Meeting: AAFS 3500 Instrument Training (ABI) Professional Meeting: STRmix
2020	Professional Meeting: AAFS Professional Meeting: FIU (virtual conference)
2019	Professional Meeting: AAFS DNA Workshop: CAC
2018	Professional Meeting: ASCLD Professional Meeting: DNA (BODE) ANAB Auditing Principles and Delta to AR 3028 Training Y-STR Training (Promega)
2017	Professional Meeting: ASCLD Professional Meeting: AAFS
2016	Professional Meeting: ASCLD Professional Meeting: AAFS Verbal Excellence: Winning with Words (Code4 Public Safety Education Association)
2015	ASCLD Leadership Academy

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Professional Meeting: ASCLD
Professional Meeting: AAFS
Forensic Management Academy (WVU)

- 2014
Webinar: Validation Concepts and Resources (NIST)
Professional Meeting: DNA (Promega)
ASCLD/LAB Assessor Training
- 2013
Professional Meeting: DNA (BODE-West)
Webcast: DNA Mixture Interpretation (NIST)
- 2012
Professional Meeting: DNA (Green Mountain DNA Conference)
- 2011
Professional Meeting: DNA, Mixture Interpretation (Promega)
- 2010
Ethics in Forensic Science (WVU)
Professional Meeting: DNA (FBI/CODIS)
- 2009
Professional Meeting: DNA (AAFS)
DNA-View, Casework Analysis and Forensic Mathematics Training
(Dr. Charles Brenner)
Workshop: DNA Analysis (NWAFS)
Digital Photography Crime Scene Training (FBI)
- 2008
Combined DNA Index System (CODIS) Training (SAIC)
Basic Driftcon use and Application Training (BPCTi)
Professional Meeting: DNA, Troubleshooting Common Laboratory
Problems (Promega)
Automation Training Course (MU-FSC)
- 2007
Professional Meeting: DNA (AAFS)
Advanced DNA Training Course (MU-FSC)
NIJ Expert Systems Testbed Project Expert Systems Demonstrations
(MU-FSC)
FSS-i3 Expert Systems Software Training (Promega)
Professional Meeting: National CODIS Conference
DNA Auditor Training (FBI)
- 2006
Hair Examination for DNA analysts (WVU)
Professional Meeting: DNA (Promega)
- 2005
Working Group Meeting: DNA (Promega)
In-Service Training: DNA Analysis of Casework and
Convicted Offender Samples (ISP)
- 2004
In-Service Training: ABI Prism 7000 (ABI)
PopStats (UNT)
Seminar: Future Trends in Forensic DNA Technology (ABI)
Professional Meeting: DNA, Molecular Biology (Promega)
Genetic Typing Methods in Forensic Science (CCI)

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2003 In-Service Training: Biology Screening (ISP)
Bloodstain Pattern Analysis (FBI)
Forensic Digital Imaging (David "Ski" Witzke)
Courtroom Presentation of Evidence (Raymond Davis)
Crime Scene Survey, Documentation and Diagramming (FBI)
Professional Meeting: DNA, Y-STRs, Statistics (Promega)

VALIDATIONS COMPLETED:

Participation in validations included conducting experiments as assigned by the DNA technical lead, analyzing and organizing data and completing the validation summary.

2015 QIAGEN QIAcube®

2014 FSS-i³™ Expert Systems Software

2012 ABI Prism® 3130xI Genetic Analyzer
PowerPlex® System Control DNA 2800M for DNA Database
Promega PowerPlex® 16 HS System for DNA Casework
Promega Plexor® HY System for DNA Casework

2011 Promega Plexor® HY System for DNA Database
Promega Identity Automation™ Methods of the Biomek® 3000
Biomek® 3000 Laboratory Automation Workstation
PowerPlex® System Control DNA 2800M for DNA Casework
Driftcon® FFC Temperature Verification System and Fixture Upgrade

2010 ABI Prism® 3130xI Genetic Analyzer Upgrade

2009 BSD600-Duet Semi-Automated Dried Sample Punch Instrument
Biomek® 3000 Laboratory Automation Workstation
Promega DNA IQ™
Promega PowerPlex® 16 HS System for DNA Database
Applied Biosystems® 7500
ABI Geneamp® 9700 Thermal Cycler
ABI Prism® 3130 Genetic Analyzer
Driftcon® FFC Temperature Verification System

2008 Qiagen BioRobot® EZ1
Qiagen® EZ1 Investigator Extraction Kit and Card
ABI Prism® 3130 Genetic Analyzer
ABI Geneamp® 9700 Thermal Cycler
GeneMapper ID® Version 3.2.1
Applied Biosystems® 7500

2006 Qiagen BioRobot® EZ1
Qiagen® Tissue Extraction Kit

2005 ABI Prism® 7000

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TEACHING; PRESENTATIONS:

- 2024 Cold Cases & Lawfully Owed DNA: A Statewide Approach (MWCLD Conference)
- Rapid Overdose Death Screening: A Statewide Approach (MWCLD Conference)
- 2023 Idaho's Cold Case and Advanced DNA Methods Team (ILETS Conference)
- 2022 Facilitating Molecular Genealogy (ASCLD Annual Symposium)
- Crime Lab Processing of Sexual Assault Kits (SAKITTA virtual seminar)
- 2003- Present Presentations to law enforcement, legal and medical personnel on: forensic science, collection of biology/DNA evidence, biology screening testing methods, DNA testing methods and CODIS
- 2003-2006 Crime Scene Processing/Biological Evidence Collection and Packaging, 2 hour classroom and 3 hour crime scene practical (Idaho State Police Basic POST Academy)

PUBLICATIONS:

NTVIC FIGG Policies and Procedures, Ray A. Wickenheiser, Jennifer Naugle, Brian Hoey, **Rylene Nowlin**, Swathi A. Kumar, Alana Minton, Lance Allen, Claire Glynn, National technology validation and implementation collaborative (NTVIC) policies and procedures for forensic investigative genetic genealogy (FIGG), Forensic Science International Synergy 6 (2023), 100316, <https://doi.org/10.1016/j.fsisyn.2023.100316>

NTVIC FIGG Policies and Procedures, Ray A. Wickenheiser, Jennifer Naugle, Brian Hoey, **Rylene Nowlin**, Swathi A. Kumar, Alana Minton, Lance Allen, Claire Glynn, National Technology Validation and Implementation Collaborative (NTVIC): Guidelines for establishing Forensic Investigative Genetic Genealogy (FIGG) programs, Forensic Science International Synergy 7 (2023), 100446, e: <https://doi.org/10.1016/j.fsisyn.2023.100316>