



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

Dec. 2014- American Society of Crime Laboratory Directors/Laboratory
Present Accreditation Board Assessor

Feb. 2011- American Academy of Forensic Sciences
Present

Jan. 2005- Northwest Association of Forensic Scientists
Present

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EQUAL OPPORTUNITY EMPLOYER

Revised 12/06/2023

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TESTIMONY:

State Courts

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

CONTINUING EDUCATION; ASSOCIATION MEETINGS; CONFERENCES:

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

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- 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)
- 2003 In-Service Training: Biology Screening (ISP)
Bloodstain Pattern Analysis (FBI)
Forensic Digital Imaging (David "Ski" Witzke)

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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-i ³ ™ Expert Systems Software
2012	ABI Prism® 3130x1 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® 3130x1 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:

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| 2003-
Present | Presentations to law enforcement 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) |
| 2022 | Facilitating Molecular Genealogy (ASCLD Annual Symposium)
Crime Lab Processing of Sexual Assault Kits (SAKI TTA virtual seminar) |
| 2023 | Idaho's Cold Case and Advanced DNA Methods Team (ILETS Conference) |

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>