

LIFE TECHNOLOGIES HID PROFESSIONAL SERVICES
MOLDOVA MOI VALIDATION EXPERIENCE

HID Professional Services

July 13, 2022

Summary

The Human Identification Professional Services (HPS) group of Life Technologies, a part of Thermo Fisher Scientific, is pleased to provide the following qualifications related to work carried out for Validation and Performance Checks of Thermo Fisher supplied HID workflow solutions.

This project is proposed to include the following components:

Casework Sample Workflow

- Validation of PrepFiler™ Express Forensic DNA Extraction Kit (AutoMate Express System)
- Validation of Quantifiler™ Trio DNA Quantification Kit on Applied Biosystems QuantStudio 5 Real-Time PCR System with HID Real-Time PCR Analysis Software v1.3.1
- Validation of GlobalFiler™ IQC PCR Amplification Kit on Applied Biosystems SeqStudio Genetic Analyzer with GeneMapper ID-X Software v1.6
- Validation of Yfiler Plus PCR Amplification Kit on Applied Biosystems SeqStudio Genetic Analyzer with GeneMapper ID-X Software v1.6

Reference Sample Workflow

- Validation of GlobalFiler™ IQC PCR Amplification Kit (Direct Mode) on Applied Biosystems 3500 Genetic Analyzer with GeneMapper ID-X Software v1.6 for Buccal cells on Swab Samples

Life Technologies is uniquely positioned to offer the scope as outlined in this bid and downstream support of the entire workflow: instrumentation, chemistry, and software. Your success starts with the validation, and continues with ongoing support from HID Professional Services, Field Application Specialists, Field Service Engineers, Global Training, HID global on-market support, and research and development and developmental validation support. We have a vested interest in partnering with you to ensure your success.

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QUALIFICATIONS

References

DNA Laboratory at Forensic Services in Maldives Police Service, Maldives

Dr. Iththisham Ali
Head of DNA Laboratory
iththisham@police.gov.mv

- 2018 – Validation of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500 and GeneMapper™ ID-X v1.5
- 2018 – Validation of Yfiler™ Plus on 3500 and GeneMapper™ ID-X v1.5

Hamilton County Coroner's Laboratory, OH

Joan Burke
DNA Technical Leader
Joan.burke@hamilton-co.org

- 2021 – Validation of GlobalFiler™ on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of Yfiler™ Plus on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of GlobalFiler™ on SeqStudio
- 2021 – Move Performance Checks of Quantifiler™ Trio on QuantStudio™ 5 and GlobalFiler™ on 3500
- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of Yfiler™ Plus on 3500
- 2014 – Validation of GlobalFiler™ on 3500

Tennessee Bureau of Investigation

Brad Everett
DNA Technical Leader
brad.everett@tn.gov

- 2022 – Validation of GlobalFiler™ on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2022 – Validation of Yfiler™ Plus on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2018 – Validation of Veriti™ Thermal Cycler with GlobalFiler™
- 2015 – Identifiler™ Plus Performance Check on 3500
- 2015 – Quantifiler™ Trio Validations (2) and Performance Checks (4) on 7500
- 2015 – GlobalFiler™ Validation & Performance Checks (7) on 3500
- 2015 – Yfiler Plus™ Validation & Performance Checks (7) on 3500
- 2012 – Identifiler™ Plus Validation & Performance Checks (2) on 3500
- 2008 – Profiler Plus™/COfiler™ Performance Check on 3130x/
- 2008 – Profiler Plus™/COfiler™ Performance Check on 310
- 2008 – Quantifiler™ Performance Check on 7500
- 2007 – Profiler Plus™/COfiler™ Performance Checks (3) on 3130x/
- 2007 – Quantifiler™ Human Validation & Performance Check on 7500

Jefferson County Regional Crime Laboratory, CO

Dr. Kristine Kadash
kkadash@co.jefferson.co.us

- 2018 – Probabilistic Genotyping Implementation Support
- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500
- 2014 – Validation & Performance Checks (2) of PrepFiler™ Express on AutoMate Express™
- 2014 – Validation & Performance Check of GlobalFiler™ on 3500
- 2014 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2014 – Validation of Hamilton™ ID STARlet™ with GlobalFiler™ & Quantifiler™ Trio

Colorado Bureau of Investigation, CO

Sarah Lewis
DNA Technical Leader
sarah.lewis@state.co.us

- 2021 – Validation and Performance Checks of GlobalFiler™ on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation and Performance Checks of Yfiler™ Plus on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation and Performance Check of GlobalFiler™ Express on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of Yfiler™ Plus in direct mode on 3500xL with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2016 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Trio & GlobalFiler™
- 2016 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Trio & Yfiler™ Plus
- 2015 – Validation & Performance Checks (6) of Hamilton™ STARlet™ with Quantifiler™ Trio & GlobalFiler™
- 2015 – Validation & Performance Checks (5) of Hamilton™ STARlet™ with Quantifiler™ Trio & Yfiler™ Plus
- 2015 – Validation of Yfiler™ Plus (direct) on 3500xL
- 2014 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Duo & Identifiler™ Plus
- 2013 – Validation of GlobalFiler™ Express on 3500xL with BSD600

Indian River Regional Crime Laboratory, FL

Julie Casals
DNA Technical Leader
casalsj@ircrimelab.org

- 2021 – Validation and Performance Check of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2021 – Validation and Performance Check of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges
- 2020 – Validation and Performance Check of ProFlex™ PCR System Thermal Cyclers with GlobalFiler™
- 2019 – Validation of GlobalFiler™ with 3500 Data Collection v4 and GeneMapper™ ID-X v1.6
- 2016 – Validation of Hamilton™ STARlet™ Express with Quantifiler™ Trio & GlobalFiler™ on 3500
- 2015 – Verification of Hamilton™ STARlet™ Express with Quantifiler™ Duo & Identifiler™ Plus

York County Sherriff's Office Forensic Laboratory, SC

Emily Campbell-Smith
DNA Technical Leader
Emily.smith@yorkcountygov.com

- 2020 – Validation of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2020 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Trio on QuantStudio™ 5
- 2020 – Probabilistic Genotyping Implementation Support
- 2019 – Validation of Hamilton™ ID STARlet™ with Yfiler™ Plus
- 2017 – Validation of Hamilton™ ID STARlet™ with GlobalFiler™
- 2017 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Trio
- 2017 – Validation of Hamilton™ ID STARlet™ with GlobalFiler™
- 2012 – Validation of Identifiler™ Plus on 3500
- 2012 – Validation of Quantifiler™ Duo on 7500
- 2012 – Validation of PrepFiler™ Extraction
- 2012 – Validation of Hamilton™ ID STARlet™ with PrepFiler™, Quantifiler™ Duo, & Identifiler™ Plus

South African Police Service, Pretoria, South Africa

Brigadier Petra Hennop
hennopp@saps.gov.za

- 2015 – Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2015 – Performance Check of Quantifiler™ Duo on 7500
- 2014 – Validation of Hamilton™ easyPunch™/STARlet™ with Identifiler™ Direct
- 2013 – Validation & Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2011 – Validation of PrepFiler
- 2011 – Validation & Performance Checks (3) of Quantifiler™ Duo on 7500
- 2011 – Validation & Performance Checks (5) of Identifiler™ Plus on 3130xl
- 2011 – Validation & Performance Check of Hamilton™ ID STARlet™ with PrepFiler™, Quantifiler™ Duo, & Identifiler™ Plus
- 2011 – Validation of CE setup with Tecan™ 150
- 2011 – Performance Checks (8) of Identifiler™ Plus on 9700

Previous & Current Awards

The Life Technologies HID Professional Services team has delivered validation and integration projects since 2007. Below is a list of projects that we have delivered, demonstrating that many of our customers have returned for additional projects.

North America

Adams County Sheriff's Office, CO

- 2021 – Validation & Performance Checks (3) of PrepFiler™ *Express* & PrepFiler™ *Express* BTA on Automate *Express*™
- 2021 – Validation & Performance Check of Quantifiler™ Trio on QuantStudio™ 5
- 2021 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2021 – Validation & Performance Check of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Probabilistic Genotyping Implementation Support

Alabama Department of Forensic Sciences, AL

- 2013 – Verification of Hamilton™ EasyPunch™ with Identifiler™ Direct & GlobalFiler™ *Express*

Alameda County Sheriff's Office Criminalistics Laboratory, CA

- 2008 – Validation of Identifiler™ on 3130x/

Alaska Department of Public Safety Scientific Crime Detection Laboratory, AK

- 2020 – Validation of GlobalFiler™ on 3500xL with Data Collection v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Validation of GlobalFiler™ *Express* on 3500xL with Data Collection v4 and GeneMapper™ *ID-X* v1.6
- 2014 – Validation & Performance Checks (4) of GlobalFiler™ on 3500xL
- 2014 – Validation & Performance Checks (3) of Quantifiler™ Trio on 7500
- 2013 – Validation & Performance Checks (4) of GlobalFiler™ *Express* on 3500xL
- 2013 – Performance Checks (12) of GlobalFiler™ *Express* on 9700
- 2012 – Validation & Performance Checks (3) of Quantifiler™ Duo on 7500
- 2012 – Validation & Performance Checks (3) of Yfiler™ on 3500xL

Albuquerque Police Department Crime Laboratory, NM

- 2020 – Validation of GlobalFiler™ on 3500xL & Performance Check on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Validation of Yfiler™ Plus on 3500xL & Performance Check on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Software Upgrade (2) to HID Real-Time Software v1.3.1 on 7500
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2014 – Validation of GlobalFiler™ on 3500

Arizona Department of Public Safety Crime Laboratory, AZ

- 2009 – Performance Checks (7) of Profiler Plus™/COfiler™ on 3130x/

Armed Forces DNA Identification Laboratory, DE

- 2012 – Performance Checks (2) of Identifiler™ Plus on 3500xL
- 2012 – Performance Checks (2) of MiniFiler™ on 3500xL
- 2012 – Performance Checks (3) of MiniFiler™ on 3130x/
- 2012 – Performance Checks (2) of Yfiler™ on 3500xL
- 2012 – Performance Checks (4) of Yfiler™ on 3130x/
- 2012 – Performance Checks (2) of Identifiler™ on 3130x/
- 2012 – Performance Checks (2) of Quantifiler™ Duo on 7500
- 2011 – Performance Check of Identifiler™ Plus on 3500xL
- 2011 – Validation of MiniFiler™ on 3500xL
- 2011 – Validation of Yfiler™ on 3500xL
- 2011 – Performance Check of Quantifiler™ Duo on 7500

Baltimore County Police Department Forensic Services Section, MD

- 2018 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2015 – Validation of GlobalFiler™ on 3500
- 2011 – Validation of Quantifiler™ Duo on 7500
- 2011 – Validation & Performance Check of Identifiler™ Plus on 3130

Boston Police Department Crime Laboratory, MA

- 2020 – Validation of GlobalFiler™ on 3500xL with Data Collection v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Probabilistic Genotyping Implementation Support
- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5

Boulder Police Department/Colorado Bureau of Investigation, CO

- 2013 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Duo & Identifiler™ Plus

Broward Sheriff's Office Crime Laboratory, FL

- 2020 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2020 – Software Upgrade (2) to HID Real-Time Software v1.3.1 on 7500
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500
- 2013 – Identifiler™ Plus Performance Check on 3500
- 2011 – Validation of Identifiler™ Plus on 3500
- 2009 – Validation of Identifiler™ on 3130xl
- 2009 – Validation of Yfiler™ on 3130xl
- 2009 – Validation of MiniFiler™ on 3130xl

Centre of Forensic Sciences, Ontario, Canada

- 2012 – Validation & Performance Check of Identifiler™ Plus on 3500xL

Charlotte-Mecklenburg Police Department Crime Laboratory, NC

- 2018 – Validation of Yfiler™ Plus on 3500
- 2016 – Validation of GlobalFiler™ on 3130

Colorado Bureau of Investigation, CO

- 2021 – Validation & Performance Checks of GlobalFiler™ on 3500xL with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2021 – Validation & Performance Checks of Yfiler™ Plus on 3500xL with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2021 – Validation & Performance Check of GlobalFiler™ Express on 3500xL with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2021 – Validation of Yfiler™ Plus in direct mode on 3500xL with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2016 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Trio & GlobalFiler™
- 2016 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Trio & Yfiler™ Plus
- 2015 – Validation & Performance Checks (6) of Hamilton™ STARlet™ with Quantifiler™ Trio & GlobalFiler™
- 2015 – Validation & Performance Checks (5) of Hamilton™ STARlet™ with Quantifiler™ Trio & Yfiler™ Plus
- 2015 – Validation of Yfiler™ Plus (direct) on 3500xL
- 2014 – Performance Check of Hamilton™ ID STARlet™ with Quantifiler™ Duo & Identifiler™ Plus
- 2013 – Validation of GlobalFiler™ Express on 3500xL with BSD600

Colorado Springs Police Department Metro Crime Laboratory, CO

- 2021 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2021 – Validation of Yfiler™ Plus on SeqStudio™
- 2020 – Validation of GlobalFiler™ on SeqStudio™
- 2020 – Probabilistic Genotyping Implementation Support
- 2014 – Validation & Performance Check of GlobalFiler™ on 3130

Columbus Police Department Crime Laboratory, OH

- 2011 – Validation of Identifiler™ on 3130
- 2011 – Validation of Yfiler™ on 3130

Connecticut Division of Forensic Services, CT

- 2018 – Validation & Performance Checks (5) of GlobalFiler™ on 3500xL
- 2018 – Validation & Performance Checks (5) of Yfiler™ on 3500xL
- 2018 – Probabilistic Genotyping Implementation Support

Contra Costa County Office of the Sheriff Forensic Services Division, CA

- 2021 – Validation of RapidHIT™ ID System with ACE GlobalFiler™ Express Sample Cartridges
- 2010 – Validation of Identifiler™ on 3130
- 2010 – Validation of Yfiler™ on 3130

Delaware Office of the Chief Medical Examiner Forensic Sciences Laboratory, DE

- 2008 – Validation of Identifiler™ on 3130xl
- 2008 – Validation of Yfiler™ on 3130xl
- 2008 – Validation of MiniFiler™ on 3130xl

DNA Labs International, Inc., FL

- 2011 – Validation of Identifiler™ Plus on 3130xl
- 2011 – Validation of Quantifiler™ Duo on 7500
- 2011 – Validation of Tecan™ EVO™ 150 with PrepFiler™ & Identifiler™ Plus
- 2011 – Validation of Tecan™ EVO™ 150 with Quantifiler™ Duo
- 2011 – Performance Check of GeneMapper™ ID v3.2.1 with Identifiler™ Plus

DuPage County Forensic Science Center, IL

- 2015 – Validation of Yfiler™ Plus on 3500

Florida Department of Law Enforcement Crime Laboratory, FL

- 2011 – Validation of Yfiler™ on 3130xl
- 2011 – Validation of MiniFiler™ on 3130xl

Fort Worth Police Department Crime Laboratory, TX

- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500
- 2011 – Validation of PrepFiler™ Express & PrepFiler™ Express BTA on AutoMate Express™
- 2011 – Validation of Quantifiler™ Duo on 7500
- 2011 – Validation of Identifiler™ Plus on 3500
- 2011 – Validation of Yfiler™ on 3500

Georgia Bureau of Investigation, GA

- 2019 – Validation & Performance check of PrepFiler™ Automated on Hamilton™ STARlet™
- 2019 – Validation & Performance check of Quantifiler™ Trio on Hamilton™ STARlet™
- 2019 – Validation & Performance check of GlobalFiler™ on Hamilton™ STARlet™ and 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2019 – Validation & Performance checks (6) of GlobalFiler™ on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2019 – Validation & Performance checks (6) of Yfiler™ Plus on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2019 – Validations (2) of GlobalFiler™ (Direct Mode) on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2011 – Validation of Identifiler™ on 3500
- 2011 – Validation & Performance Check of Identifiler™ Plus on 3500xL
- 2011 – Validation & Performance Checks of Yfiler™ on 310

Hamilton County Coroner's Laboratory, OH

- 2021 – Validation of GlobalFiler™ on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of Yfiler™ Plus on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of GlobalFiler™ on SeqStudio
- 2021 – Move Performance Checks of Quantifiler™ Trio on QuantStudio™ 5 and GlobalFiler™ on 3500
- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of Yfiler™ Plus on 3500
- 2014 – Validation of GlobalFiler™ on 3500

Hennepin County Sheriff's Office Crime Laboratory, OH

- 2019 – Validation of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6

Houston Police Department Crime Laboratory, TX

- 2011 – Validation of Quantifiler™ Duo on 7500
- 2011 – Validation & Performance Check of Identifiler™ Plus on 3130x/
- 2011 – Validation of Yfiler™ on 3130xl
- 2011 – Validation of Tecan™ HID EVO™ 150 with Quantifiler™ Human, Quantifiler™ Duo, Identifiler™, MiniFiler™, & Yfiler™

Illinois State Police, IL

- 2014 – Move Performance Checks (3) of Quantifiler™ Duo on 7500
- 2014 – Move Performance Checks (2) of Identifiler™ Plus on 3130

Indianapolis-Marion County Forensic Services Agency, IN

- 2011 – Validation of Biomek NxP with Quantifiler™ Duo & Identifiler™ Plus
- 2010 – Validation of Identifiler™ Plus on 3130
- 2010 – Validation of MiniFiler™ on 3130

Indian River Regional Crime Laboratory, FL

- 2021 – Validation & Performance Check of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2021 – Validation & Performance Check of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges
- 2020 – Validation of GlobalFiler™ with ProFlex™ PCR System Thermal Cyclers
- 2016 – Validation of Hamilton™ STARlet™ Express with Quantifiler™ Trio & GlobalFiler™ on 3500
- 2015 – Verification of Hamilton™ STARlet™ Express with Quantifiler™ Duo & Identifiler™ Plus

Joint Expeditionary Forensics Facilities, MD

- 2010 – Performance Check of Quantifiler™ Human on 7500
- 2010 – Validation of Identifiler™ Plus on 3130xl
- 2010 – Validation of MiniFiler™ on 3130xl
- 2010 – Performance Check Yfiler™ on 3130x/

Jefferson County Regional Crime Laboratory, CO

- 2018 – Probabilistic Genotyping Implementation Support
- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500
- 2014 – Validation & Performance Checks (2) of PrepFiler™ Express on AutoMate Express™
- 2014 – Validation & Performance Check of GlobalFiler™ on 3500
- 2014 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2014 – Validation of Hamilton™ ID STARlet™ with GlobalFiler™ & Quantifiler™ Trio

Jefferson Parish Sheriff's Office Regional DNA Laboratory, LA

- 2020 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation & Performance Check of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation & Performance Check of GlobalFiler™ in Direct Mode on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2009 – Validation of Quantifiler™ Duo on 7500

Johnson County Sherriff's Office Criminalistics Laboratory, KS

- 2012 – Verification of Hamilton™ ID STARlet™ with Quantifiler™ Duo & Identifiler™ Plus
- 2010 – Validation of Identifiler™ Plus on 3500

Kansas Bureau of Investigation, KS

- 2012 – Validation of Tecan™ HID 150 with Identifiler™ Plus & Yfiler™
- 2012 – Validation of Tecan™ HID 150 with of Quantifiler™ Duo
- 2009 – Validation of Identifiler™ on 3130xl
- 2009 – Validation of Yfiler™ on 3130xl
- 2009 – Validation of MiniFiler™ on 3130xl
- 2009 – Validation of Quantifiler™ Duo on 7500

Kansas City Police Crime Laboratory, MO

- 2014 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Trio & GlobalFiler™
- 2008 – Validation of Yfiler™ on 3130xl

Kentucky State Police, KY

- 2017 – Validation of Y-screen Assay using Quantifiler™ Trio
- 2017 – Validation of Quantifiler™ Trio on 7500
- 2017 – Validation of GlobalFiler™ on 3130xl
- 2017 – Validation of Yfiler™ Plus on 3130xl
- 2013 – Validation of GlobalFiler™ Express on 3500xL

Kern Regional Crime Laboratory, CA

- 2020 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2016 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Trio, GlobalFiler™, & Yfiler™ Plus
- 2013 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Duo, Identifiler™ Plus, & Yfiler™

Las Vegas Metropolitan Police Department, NV

- 2009 – Validation of GeneMapper™ ID-X

Los Angeles Police Department Criminalistics Laboratory, CA

- 2011 – Validation & Performance Check Yfiler™ on 3130
- 2011 – Performance Check GeneMapper™ ID-X v1.2.1

Louisiana State Police Crime Laboratory, LA

- 2011 – Validation & Performance Check of QIAGEN™ QIAGility™ with Quantifiler™ Duo, Quantifiler™ Human, Profiler Plus™, COfiler™, MiniFiler™, & Yfiler™
- 2010 – Validation of PrepFiler™ on Tecan™ HID 150
- 2010 – Validation & Performance Check of Identifiler™ Direct on 3130xl
- 2010 – Validation of Tecan™ HID 150 with Identifiler™ Direct on 3130xl BSD600
- 2009 – Validation & Performance Check of Yfiler™ on 3130xl
- 2009 – Validation of MiniFiler™ on 3130xl
- 2009 – Validation & Performance Check of Quantifiler™ Duo on 7500

Maine State Police, ME

- 2015 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2015 – Validation & Performance Check of GlobalFiler™ on 3500

Marion County Forensic Services Agency, IN

- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation & Performance Check of GlobalFiler™ on 3500
- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500

Massachusetts State Police Forensic Services Group, MA

- 2009 – Validation of Identifiler™ Direct on 3130xl with BSD600
- 2009 – PerkinElmer JANUS™ Robot

MedTox™ Laboratories, MN

- 2009 – Validation of Identifiler™ on 3130x/

Miami-Dade Police Department, FL

- 2014 – Validation of GlobalFiler™ on 3500 & 3130xl
- 2014 – Validation of Quantifiler™ Trio on 7500

Miami Valley Regional Crime Laboratory, OH

- 2016 – Script Verification of Tecan™ EVO™ 150 with Quantifiler™ Trio & GlobalFiler™
- 2012 – Validation of PrepFiler™ Automated on Tecan™ EVO™ 200
- 2011 – Validation of Tecan™ EVO™ 200 with Quantifiler™ Human & Quantifiler™ Y on 7500
- 2011 – Validation of Tecan™ EVO™ 150 with Identifiler™, Yfiler™, & MiniFiler™

Mississippi Department of Public Safety Forensics Laboratory, MS

- 2021 – Validation and Performance Check of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges
- 2016 – Validation of GlobalFiler™ Express on 3500xL & BSD600
- 2015 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2015 – Validation & Performance Check of GlobalFiler™ on 3500
- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500
- 2012 – Validation of Quantifiler™ Duo on 7500
- 2012 – Validation of Yfiler™ on 3130
- 2011 – Performance Check of Quantifiler™ Human on 7500
- 2011 – Performance Check of Identifiler™ on 3130
- 2011 – Performance Check of Profiler Plus™/COfiler™ on 3130
- 2007 – Validation of Profiler Plus™/COfiler™ on 3130
- 2007 – Performance Check of Profiler Plus™/COfiler™ on 3130x/

Missouri State Highway Patrol, MO

- 2020 – Y-Screen Assay Validation on Hamilton STARlet™ using Quantifiler™ Trio

Monroe County Crime Laboratory, NY

- 2021 – Validation of GlobalFiler™ on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of GlobalFiler™ on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2018 – Performance Checks (2) of PrepFiler™ Express on AutoMate Express™
- 2018 – Validation of Y-screen Assay using Quantifiler Trio
- 2018 – Validation & Performance Check of Quantifiler™ Trio™ on QuantStudio™ 5
- 2018 – Performance Check of GlobalFiler™ on 3500
- 2018 – Validation of Yfiler™ Plus on 3500
- 2013 – Validation & Performance Check of PrepFiler™ Express on AutoMate Express™
- 2013 – Validation of GlobalFiler™ on 3500
- 2012 – Validation of QIAGEN™ QIAgility™ with Quantifiler™ Duo on 7500
- 2011 – Performance Checks (2) of Identifiler™ on 3130
- 2011 – Performance Check of Yfiler™ on 3130
- 2011 – Performance Checks (2) Quantifiler™ Duo on 7500
- 2009 – Validation of MiniFiler™ on 3130
- 2009 – Validation of Yfiler™ on 3130
- 2009 – Validation of Quantifiler™ Duo on 7500

Montgomery County Crime Laboratory, MD

- 2015 – Validation of Perkin Elmer Multiprobe with Quantifiler™ Trio & GlobalFiler™
- 2014 – Validation of GlobalFiler™ on 3500
- 2014 – Validation of Quantifiler™ Trio on 7500

Nassau County Medical Examiner's Office: Division of Forensic Services, NY

- 2015 – Validation & Performance Check of QIAGEN™ QIAgility™ with Quantifiler™ Trio on 7500
- 2015 – Validation & Performance Check of QIAGEN™ QIAgility™ with GlobalFiler™ on 3500

Naval Surface Warfare Center, MD

- 2010 – Validation & Performance Check of Identifiler™ Plus on 3130xl
- 2010 – Validation of MiniFiler™ on 3130xl
- 2010 – Validation of Quantifiler™ Duo on 7500
- 2009 – Validation of Identifiler™ on 3130xl
- 2009 – Validation of Yfiler™ on 3130xl
- 2009 – Validation of Quantifiler™ Duo on 7500
- 2008 – Validation & Performance Checks (2) of Identifiler™ on 3130xl
- 2008 – Validation & Performance Check of Yfiler™ on 3130xl
- 2008 – Validation & Performance Check of Quantifiler™ Duo on 7500

Nebraska State Patrol Crime Laboratory, NE

- 2018 – Validation of Yfiler™ Plus on 3500
- 2017 – Validation of Y-screen Assay using Quantifiler Trio
- 2017 – Probabilistic Genotyping Implementation Support
- 2008 – Validation of Identifiler™ on 3130xl

New Mexico Department of Public Safety, NM

- 2016 – Validation & Performance Check of Yfiler™ Plus on 3500
- 2016 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2016 – Validation & Performance Check of GlobalFiler™ on 3500
- 2011 – Validation & Performance Check of Identifiler™ Plus on 3500xL
- 2010 – Validation of Identifiler™ Direct with BSD600 on 3500xL

North Carolina State Bureau of Investigation Raleigh Crime Laboratory, NC

- 2013 – Validation of GeneMapper™ ID-X
- 2011 – Validation of Identifiler™ Plus on 3130xl
- 2011 – Validation of MiniFiler™ on 3130xl
- 2011 – Validation of Quantifiler™ Duo on 7500

North Carolina State Crime Laboratory, NC

- 2014 – Validation & Performance Check of GlobalFiler™ Express on 3500xL

North Dakota Attorney General Crime Laboratory, ND

- 2021 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection v4 and GeneMapper ID-X v1.6
- 2021 – Validation & Performance Check of Yfiler™ Plus on 3500 with Data Collection v4 and GeneMapper ID-X v1.6
- 2021 – Validation of the Y-Screen Assay with Quantifiler™ Trio
- 2021 – Validation & Performance Check of GlobalFiler™ (Direct Mode) on 3500 with Data Collection v4 and GeneMapper ID-X v1.6
- 2014 – Validation of GlobalFiler™ on 3500
- 2014 – Validation of GlobalFiler™ Express on 3500

Northeast Illinois Regional Crime Lab

- 2018 – Probabilistic Genotyping Implementation Support
- 2016 – Validation of Yfiler™ Plus on 3500
- 2015 – Validation of GlobalFiler™ on 3500

NMS Labs, PA

- 2018 – Validation & Performance Check of Quantifiler™ Trio on QuantStudio™ 5
- 2018 – Validation & Performance Checks (2) of GlobalFiler™ on 3500
- 2018 – Probabilistic Genotyping Implementation Support

Oakland County Sheriff's Office, MI

- 2014 – Validation & Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2014 – Validation of GlobalFiler™ Express on 3500
- 2014 – Validation of Tecan™ HID 100 with GlobalFiler™ & Quantifiler™ Trio

Ohio Bureau of Criminal Investigation, OH

- 2016 – Verification of Tecan™ Freedom EVO™ 150 with GlobalFiler™ Express

Oklahoma State Bureau of Investigation, OK

- 2021 – Validation & Performance Checks (5) of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation & Performance Checks (5) of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation & Performance Checks (5) of GlobalFiler™ Express on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation & Performance Checks (5) of Yfiler™ Plus (direct mode) on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of GlobalFiler™ Express on 3500xL
- 2020 – Y-Screen Assay Validation using Quantifiler™ Trio
- 2020 – Validation & Performance Checks (4) of Quantifiler™ Trio on QuantStudio™ 5
- 2016 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2016 – Validation & Performance Check of GlobalFiler™ on 3500
- 2016 – Validation of Yfiler™ Plus on 3500
- 2016 – Validation of GlobalFiler™ Express on 3500
- 2016 – Validation of Yfiler™ Plus (direct) on 3500
- 2015 – Performance Checks (2) of PrepFiler™ Express on AutoMate Express™
- 2014 – Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2013 – Validation & Performance Check of PrepFiler™ Express on AutoMate Express™
- 2009 – Validations (3) of Profiler Plus™/COfiler™ on 3130xI

Orange County Crime Laboratory, CA

- 2010 – Validation of Tecan™ HID 150 with PrepFiler™ Automated

Orangeburg Department of Public Safety Forensic Laboratory at Claflin University, SC

- 2018 – Validation of Quantifiler™ HP on 7500
- 2018 – Validation of GlobalFiler™ on 3500

Palm Beach County Sheriff's Office Crime Laboratory, FL

- 2008 – Validation of MiniFiler™ on 3130xI

Philadelphia Police Department, Philadelphia, PA

- 2016 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2016 – Validation & Performance Checks (2) of GlobalFiler™ on 3500xL
- 2016 – Validation & Performance Checks (2) of Yfiler™ Plus on 3500xL
- 2016 – Validation & Performance Checks (2) of GlobalFiler™ Express on 3500xL

Phoenix Police Department, AZ

- 2017 – Y-Screen Assay Validation using Quantifiler™ Trio
- 2017 – Validation & Performance Check of QIAgility™ with GlobalFiler™ and Yfiler™ Plus

Pinellas County Forensic Laboratory, FL

- 2008 – Validation & Performance Check of Identifiler™ on 3130
- 2008 – Validation & Performance Check of Yfiler™ on 3130
- 2008 – Validation & Performance Check of MiniFiler™ on 3130
- 2008 – Validation & Performance Check of Quantifiler™ Duo on 7500

Prince George's County Police Department Forensic Services Division, MD

- 2021 – Probabilistic Genotyping Implementation Support
- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2014 – Validation of GlobalFiler™ on 3500

Prolacta Bioscience, Inc., CA

- 2016 – Validation of GlobalFiler™ on 3500xL
- 2016 – Validation of GlobalFiler™ (direct) on 3500xL

Royal Canadian Mounted Police, Ontario, CA

- 2018 – Validation of Precision ID mtDNA Control Region Panel on Ion Chef™ & Ion S5™ Systems

Rhode Island Department of Health, RI

- 2011 – Validation of Identifiler™ Plus on 3130

Sacramento County District Attorney Laboratory of Forensic Services, CA

- 2011 – Validation & Performance Check of Identifiler™ Plus on 3130xl
- 2011 – Performance Checks (2) of Identifiler™ Plus on 3130

San Bernardino County Sheriff's Department Scientific Investigations Division, CA

- 2015 – Validation of Yfiler™ Plus on 3500
- 2014 – Validation & Performance Check of GlobalFiler™ on 3500

San Diego Police Department Crime Laboratory, CA

- 2021 – Validation of Quantifiler™ Trio on QuantStudio™ 5

San Francisco Police Department Criminalistics Laboratory, CA

- 2015 – Validation of Tecan™ Freedom EVO™ 150 with Quantifiler™ Trio & GlobalFiler™ on 3130
- 2015 – Validation of Tecan™ Freedom EVO-2™ with Quantifiler™ Trio & GlobalFiler™
- 2012 – Validation & Performance Check of Identifiler™ Plus on 3130xl

San Mateo County Sheriff's Office Forensic Laboratory, CA

- 2021 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Probabilistic Genotyping Implementation Support
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation & Performance Check of GlobalFiler™ on 3130

Santa Clara Office of the District Attorney Crime Laboratory, CA

- 2011 – Validation of Tecan™ HID 150 with PrepFiler™ Automated & Identifiler™ Plus on 3130
- 2011 – Validation of Tecan™ HID 150 with Quantifiler™ Duo on 7500

Scottsdale Police Department Crime Laboratory, AZ

- 2020 – Validation of PrepFiler™ Express on Automate Express™
- 2020 – Performance Check of GlobalFiler™ on 3500
- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5

South Carolina Law Enforcement Division Forensic Services Laboratory, SC

- 2009 – Validation of Quantifiler™ Duo on 7500
- 2008 – Validation of MiniFiler™ on 3130xl
- 2008 – Validation of Yfiler™ on 3130xl

South Dakota Forensic Laboratory, SD

- 2013 – Validation of GlobalFiler™ on 3500

Southwest Louisiana Criminalistics Laboratory, LA

- 2009 – Validation of Quantifiler™ Duo on 7500
- 2009 – Validation of MiniFiler™ on 3130

St. Charles County Police Department Criminalistics Laboratory, MO

- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3130

St. Tammany Parish Coroner's Office Crime Laboratory, LA

- 2021 – 7500 HID Real-Time PCR Analysis Software v1.3.1 Software Upgrade Functional Testing with Quantifiler™ Trio
- 2021 – Validation & Performance Check of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2021 – Validation & Performance Check of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ *ID-X* v1.6
- 2018 – Validations (3) of ProFlex™ Thermal Cyclers with GlobalFiler
- 2018 – Validations (3) of ProFlex™ Thermal Cyclers with Yfiler™ Plus
- 2018 – Probabilistic Genotyping Implementation Support
- 2015 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2015 – Validation & Performance Check of GlobalFiler on 3500xL
- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500xL
- 2012 – Move of Identifiler™, MiniFiler™, Yfiler™ on 3130
- 2012 – Performance Check of Quantifiler™ Human & Quantifiler™ Y on 7500
- 2012 – Performance Checks of Identifiler™, MiniFiler™, & Yfiler™ on 9700
- 2009 – Performance Checks of Identifiler™, MiniFiler™, & Yfiler™ on 9700
- 2007 – Validation & Performance Check of Identifiler™ on 3130
- 2007 – Validation & Performance Check of Yfiler™ on 3130
- 2007 – Validation & Performance Check of MiniFiler™ on 3130
- 2007 – Validations (2) & Performance Check of Profiler Plus™/COfiler™ on 3130xl
- 2007 – Validation & Performance Check of Quantifiler™ Human on 7500

Suffolk County Crime Laboratory, NY

- 2018 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2012 – Validation of Identifiler™ Plus on 3500

Tarrant County Medical Examiner's Criminalistics Laboratory, TX

- 2012 – Validation of Identifiler™ Plus on 3500

Texas Department of Safety, TX

- 2017 – Validation & Performance Check of GlobalFiler™ Express on 3500xL
- 2017 – Validation & Performance Checks (2) of GlobalFiler™ Express on 3130xl
- 2017 – Validation & Performance Check of Yfiler™ Direct on 3500xL
- 2017 – Validation & Performance Checks (2) of Yfiler™ Direct on 3130xl

Tennessee Bureau of Investigation, TN

- 2022 – Validation of GlobalFiler™ on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2021 – Validation of Yfiler™ Plus on 3500 with Data Collection Software v4 and GeneMapper™ ID-X v1.6
- 2018 – Validation of Veriti™ Thermal Cyclers with GlobalFiler™
- 2015 – Performance Check of Identifier™ Plus on 3500
- 2015 – Validations (2) & Performance Checks (4) of Quantifiler™ Trio on 7500
- 2015 – Validation & Performance Checks (7) of GlobalFiler™ on 3500
- 2015 – Validation & Performance Checks (7) of Yfiler Plus™ on 3500
- 2012 – Validation & Performance Checks (2) of Identifier™ Plus on 3500
- 2008 – Performance Check of Profiler Plus™/COfiler™ on 3130xl
- 2008 – Performance Check of Profiler Plus™/COfiler™ on 310
- 2008 – Performance Check of Quantifiler™ on 7500
- 2007 – Performance Checks (3) of Profiler Plus™/COfiler™ on 3130xl
- 2007 – Validation & Performance Check of Quantifiler™ Human on 7500

Tucson Police Department Crime Laboratory, AZ

- 2020 – Validation of Quantifiler™ Trio on QuantStudio™ 5

Undisclosed Forensic Laboratory, MD

- 2015 – Validation & Performance Check of Yfiler™ Plus on 3500xL
- 2015 – Validations (2) of Yfiler™ Plus (direct) on 3500xL
- 2014 – Validation & Performance Check of GlobalFiler™ on 3500xL
- 2013 – Validation & Performance Check of Identifier™ Plus on 3500xL
- 2013 – Validation of PrepFiler™ Express on AutoMate Express™
- 2012 – Validation & Performance Check of Quantifiler™ Duo on 7500
- 2012 – Validation of GlobalFiler™ Express on 3500xL

Undisclosed Forensic Laboratory, VA

- 2021 – Validation of GeneMapper ID-X v1.6 as Expert System with GlobalFiler™ Express
- 2021 – Validation of GeneMapper ID-X v1.6 as Expert System with Yfiler™ Plus (direct mode)
- 2020 – Validation & Performance Check of GlobalFiler™ on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation & Performance Check of Yfiler™ Plus on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation & Performance Check of GlobalFiler™ Express on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation & Performance Check of Yfiler™ Plus (direct mode) on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6

Union County Prosecutor's Office Forensics Laboratory, NJ

- 2016 – Validation & Performance Check Quantifiler™ Trio on 7500
- 2016 – Validation & Performance Check GlobalFiler™ on 3500

U.S. Army Criminal Investigation Laboratory, GA

- 2014 – Validation & Performance Check of GlobalFiler™ on 3500xL
- 2014 – Validation & Performance Check of GlobalFiler™ on 3130x/
- 2014 – Validation of Quantifiler™ Trio on 7500
- 2013 – Validation & Performance Check of GlobalFiler™ Express on 3500xL
- 2013 – Validation & Performance Check of GlobalFiler™ Express on 3130xl
- 2012 – Performance Checks (10) of Identifier™ Plus on 3130x/
- 2012 – Performance Checks (8) of Yfiler™ on 3130x/
- 2009 – Validation of Quantifiler™ Duo on 7500
- 2007 – Performance Check of Identifier™ on 3130x/
- 2007 – Performance Check of Yfiler™ on 3130x/
- 2007 – Validation of MiniFiler™ on 3130x/

Unified Metropolitan Forensic Crime Laboratory, CO

- 2021 – Performance Check of Hamilton™ Microlab™ ID STARlet with Quantifiler™ Trio
- 2021 – Performance Check of Hamilton™ Microlab™ ID STARlet with GlobalFiler™
- 2021 – Performance Check of Hamilton™ Microlab™ ID STARlet with Yfiler™ Plus
- 2018 – Validation & Performance Checks (4) of PrepFiler™ Express on Automate Express™
- 2018 – Validation & Performance Check of Quantifiler™ Trio on QuantStudio™ 5
- 2018 – Validation of Hamilton™ Microlab™ ID STARlet with Quantifiler™ Trio
- 2018 – Validation & Performance Check GlobalFiler™ on 3500
- 2018 – Validation of Hamilton™ Microlab™ ID STARlet with GlobalFiler™
- 2018 – Validation & Performance Check Yfiler™ Plus on 3500
- 2018 – Validation of Hamilton™ Microlab™ ID STARlet with Yfiler™ Plus
- 2018 – Probabilistic Genotyping Implementation Support

University of North Texas Forensic Science Center, TX

- 2011 – Validation of Identifiler™ Direct on 3500xL

Ventura County Sheriff's Forensic Science Laboratory, CA

- 2015 – Validation & Performance Check of GlobalFiler™ on 3500
- 2015 – Validation & Performance Check of Quantifiler™ Trio on 7500

Washoe County Sheriff's Office Forensic Science Division, NV

- 2022 – Validation & Performance check of Quantifiler™ Trio on QuantStudio™ 5
- 2022 – Performance Check of Quantifiler™ Trio on Hamilton™ STARlet™ Presto
- 2022 – Performance Check of GlobalFiler™ on Hamilton™ STARlet™ Presto
- 2022 – Performance Check of Yfiler™ Plus on Hamilton™ STARlet™ Presto
- 2022 – Validation of GlobalFiler™ (direct mode) on Hamilton™ EasyPunch™ STARlet™
- 2022 – Validation of PrepFiler™ Automated on Hamilton™ AutoLys™ and STARlet™ Presto™
- 2020 – Validation & Performance Checks (2) of PrepFiler™ Express on Automate Express™
- 2020 – Validation & Performance Check of GlobalFiler™ on 3500xL with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Probabilistic Genotyping Implementation Support
- 2018 – Validation of Y-screen Assay using Quantifiler™ Trio
- 2018 – Validation & Performance Check of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500xL

West Virginia State Police Forensic Laboratory, South Charleston, WV

- 2020 – Validation of GlobalFiler™ on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation of GlobalFiler™ (direct mode) on 3500 with Data Collection v4 and GeneMapper™ ID-X v1.6
- 2018 – Validation of Y-screen Assay using Quantifiler™ Trio
- 2018 – Validation & Performance Check of GlobalFiler™ (direct mode) on 3500
- 2016 – Validation & Performance Check of GlobalFiler™ on 3500

Wyoming State Crime Laboratory, WY

- 2016 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio, GlobalFiler™ & Yfiler™ Plus

York County Sherriff's Office Forensic Laboratory, SC

- 2020 – Validation of GlobalFiler™ with 3500 Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation of Yfiler™ Plus with 3500 Data Collection v4 and GeneMapper™ ID-X v1.6
- 2020 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2018 – Validation of Yfiler™ Plus on 3500
- 2018 – Validation of Hamilton™ Microlab™ ID STARlet with Yfiler™ Plus
- 2017 – Validation of Hamilton™ ID STARlet™ with Quantifiler™ Trio
- 2017 – Validation of Hamilton™ ID STARlet™ with GlobalFiler™
- 2012 – Validation of Identifiler™ Plus on 3500
- 2012 – Validation of Quantifiler™ Duo on 7500
- 2012 – Validation of PrepFiler™ Extraction
- 2012 – Validation of Hamilton™ ID STARlet™ with PrepFiler™, Quantifiler™ Duo, & Identifiler™ Plus

Europe, Middle East, Africa

Undisclosed Forensic Laboratory, Belgium

- 2016 – Validation of GlobalFiler™ on 3500xL
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500

Hanover, Germany

- 2012 – Verification of Hamilton™ ID STARlet™ with NGM™, SEfiler™, Quantifiler™ Duo

Undisclosed Forensic Laboratory, Germany

- 2017 – Implementation Evaluation of NGM Detect™ on 3500
- 2017 – Implementation Evaluation of Yfiler™ Plus on 3500

Undisclosed Forensic Laboratory, Italy

- 2020 – Validation of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2019 – Validation & Performance Check of Yfiler™ Plus on 3500
- 2018 – Validation & Performance Check of GlobalFiler™ on 3500
- 2016 – Validation of Quantifiler™ Trio on Hamilton™ Microlab™ STARlet™
- 2016 – Validation of GlobalFiler™ on Hamilton™ Microlab™ STARlet™
- 2016 – Validation of Yfiler™ Plus on Hamilton™ Microlab™ STARlet™

Undisclosed Forensic Laboratory, Italy

- 2016 – Validation of CPA200™ with GlobalFiler™ Express
- 2016 – Validation of CPA200™ with Yfiler Plus (direct)
- 2016 – Validation & Performance Check of Hamilton™ easyPunch™ STARlet™ GlobalFiler™ Express on 3500xL
- 2016 – Validation & Performance Check of Hamilton™ easyPunch™ STARlet™ Yfiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Italy

- 2019 – Validation of Yfiler™ Plus on 3500
- 2018 – Validation of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Italy

- 2020 – Validation of Yfiler™ Plus on 3500
- 2020 – Validation of GlobalFiler™ on 3500
- 2020 – Validation of NGM Detect™ on 3500

Undisclosed Forensic Laboratory, Italy

- 2019 – Validation of Yfiler™ Plus on 3500
- 2018 – Validation of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Italy

- 2020 – Validation of Yfiler™ Plus on 3500
- 2018 – Validation of GlobalFiler™ on 3500

Ministry of Martyrs and Missing, Libya

- 2017 – Validation & Performance Check of PrepFiler™ Express on AutoMate Express™
- 2017 – Validation of Quantifiler™ Trio on 7500
- 2017 – Validation of GlobalFiler™ on 3500
- 2017 – Validation of GlobalFiler™ Express on 3500

Namibian Police (NFSI), Namibia

- 2015 – Validation & Performance Check of PrepFiler™ Express on AutoMate Express™
- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of GlobalFiler™ on 3500xL
- 2015 – Validation of Yfiler™ Plus on 3500xL
- 2014 – Validation of PrepFiler™ Express with Differential Extraction on AutoMate Express™
- 2014 – Validation of PrepFiler™ with Differential Extraction
- 2011 – Validation of PrepFiler™
- 2011 – Validation of Quantifiler™ Duo on 7500
- 2011 – Validation of Identifiler™ Plus on 3500
- 2011 – Validation of Hamilton™ ID STARlet™ with Identifiler™ Direct on 3500 with BSD1000
- 2011 – Validation of Hamilton™ ID STARlet™ with PrepFiler™ Automated, Quantifiler™ Duo, & Identifiler™ Plus

Warsaw Police, Poland

- 2011 – Verification of Tecan™ HID 150 of NGM, PrepFiler™ Automated, Quantifiler™ Duo

Portugal Policia Judiciara, Portugal

- 2020 – Validation of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2020 – Validation of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges

Undisclosed Forensic Laboratory, Kingdom of Saudi Arabia

- 2017 – Validations (2) of Hamilton™ EasyPunch™ STARlet™ and Hamilton™ Microlab™ ID STARlet Express with GlobalFiler™ (direct)

Scottish Police Authority, Scotland

- 2020 – Verifications (2) of Hamilton™ ID STARlet™ with Quantifiler™ Trio
- 2014 – Validations (2) of Hamilton™ ID STARlet™ with GlobalFiler™ Express
- 2013 – Validations (2) of Hamilton™ AutoLys STAR™ & Hamilton™ ID STARlet™
- 2013 – Performance Check of Hamilton™ ID STARlet™
- 2013 – Validation & Performance Checks (2) of GlobalFiler™ on 3500xL
- 2013 – Validation & Performance Check of Quantifiler™ Duo on 7500
- 2013 – Validations (2) & Performance Checks (5) of SGM Plus™ on 3500xL
- 2013 – Validation of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Switzerland

- 2020 – Verification of Hamilton™ STARlet™ with PrepFiler™ Automated BTA
- 2015 – Validation of Hamilton™ STAR™ AutoLys/STARlet™ with PrepFiler™

Undisclosed Forensic Laboratory, Pretoria, South Africa

- 2015 – Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2015 – Performance Check of Quantifiler™ Duo on 7500
- 2014 – Validation of Hamilton™ easyPunch™/STARlet™ with Identifiler™ Direct
- 2013 – Validation & Performance Checks (3) of PrepFiler™ Express on AutoMate Express™
- 2011 – Validation of PrepFiler
- 2011 – Validation & Performance Checks (3) of Quantifiler™ Duo on 7500
- 2011 – Validation & Performance Checks (5) of Identifiler™ Plus on 3130xl
- 2011 – Validation & Performance Check of Hamilton™ ID STARlet™ with PrepFiler™, Quantifiler™ Duo, & Identifiler™ Plus
- 2011 – Validation of CE setup with Tecan™ 150
- 2011 – Performance Checks (8) of Identifiler™ Plus on 9700

Undisclosed Forensic Laboratory, Cape Town, South Africa

- 2015 – Performance Check of PrepFiler™ Express on AutoMate Express™
- 2015 – Performance Checks (3) of 9700 Thermal Cyclers
- 2014 – Validations (3) of Hamilton™ easyPunch™/STARlet™ with Identifiler™ Direct
- 2014 – Performance Check of PrepFiler™ Express on AutoMate Express™
- 2014 – Performance Check of Identifiler™ Plus on 3500xL
- 2014 – Validation of GeneMapper™ ID-X v1.4
- 2012 – Validation of PrepFiler™
- 2012 – Validation & Performance Checks (2) of Quantifiler™ Duo on 7500
- 2012 – Validation of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Turkey

- 2015 – Verification of Tecan™ HID EVOLution™ with PrepFiler™

Abu Dhabi Police Laboratory, United Arab Emirates

- 2011 – Validation of Identifiler™ Direct on 3500xL with BSD600

Metropolitan Police, London, United Kingdom

- 2010 – Validation of Identifiler™ on 3130xl
- 2010 – Validation of Quantifiler™ Duo on 7500

Asia Pacific & Japan

Undisclosed Forensic Laboratory, Australia

- 2017 – Validation & Performance Check of Yfiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Australia

- 2016 – Validation of VeriFiler™ Express on 3500
- 2016 – Validation of Yfiler™ Plus Direct on 3500

Undisclosed Forensic Laboratory, Australia

- 2013 – Validation & Performance Check of GlobalFiler™ on 3500xL

Undisclosed Forensic Laboratory, Australia

- 2011 – Validation of NGM SElect™ Express on 3500

Undisclosed Forensic Laboratory, Australia

- 2013 – Validation of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Australia

- 2015 – Validation of Yfiler™ Plus on 3500xL
- 2013 – Validation & Performance Check of GlobalFiler™ on 3500xL
- 2013 – Validation & Performance Check of GlobalFiler™ Express on 3500xL

Department of Scientific Services, Brunei Darussalam

- 2021 – Validation of GlobalFiler™ Express on 3500xL
- 2021 – Validation of CPA200™ using GlobalFiler™ Express with 3500xL
- 2018 – Validation of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500
- 2018 – Validation of PrepFiler™ Express on AutoMate Express™

Central Forensic Science Laboratory Bhopal, India

- 2020 – Verification of GlobalFiler™ on 3500

Central Forensic Science Laboratory Chandigarh, India

- 2019 – Verifications (5) of GlobalFiler™ on 3500

Central Forensic Science Laboratory Guwahati, India

- 2020 – Verification of GlobalFiler™ on 3500

Central Forensic Science Laboratory Hyderabad, India

- 2021 – Verification of VeriFiler™ Plus on 3500
- 2020 – Verification of GlobalFiler™ on 3500

Central Forensic Science Laboratory Jaipur, India

- 2019 – Verification of GlobalFiler™ on 3500xL

Central Forensic Science Laboratory Lucknow, India

- 2019 – Validation of RapidHIT™ 200 System with ACE GlobalFiler™ Express Sample Cartridges

Central Forensic Science Laboratory Pune, India

- 2020 – Verification of GlobalFiler™ on 3500

Delhi Forensic Science Laboratory, India

- 2017 – Verification of GlobalFiler™ on 3500xL

Forensic Science Laboratory Punjab, India

- 2021 – Verification of VeriFiler™ Plus on 3500

Gurgaon Life Sciences Laboratory, India

- 2017 – Validation of GlobalFiler™ on 3500xL

National Institute of Criminology and Forensic Science Delhi, India

- 2019 – Verification of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Indonesia

- 2019 – Verification of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Indonesia

- 2021 – Validation of GlobalFiler™ on 3500
- 2021 – Validation of Quantifiler™ Trio on 7500
- 2014 – Validation of Quantifiler™ Duo on 7500
- 2014 – Validation of Identifiler™ Plus on 3500

Undisclosed Forensic Laboratory, Indonesia

- 2015 – Validation of PrepFiler™ Express & PrepFiler™ Express BTA on AutoMate Express™
- 2015 – Validation of GlobalFiler on 3500
- 2014 – Validation of Quantifiler™ Duo on 7500
- 2014 – Validation of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Japan

- 2017 – Validation of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Japan

- 2021 – Validation of GlobalFiler™ on SeqStudio™
- 2021 – Move Verifications (2) of GlobalFiler™ on 3500xL
- 2021 – Validation of GlobalFiler™ on 3500xL
- 2021 – Internal Laboratory Verifications (2) of GlobalFiler™ on 3500xL
- 2021 – Performance Check of Quantifiler™ Trio on QuantStudio™ 5
- 2021 – Performance Checks (18) of Quantifiler™ Trio and Quantifiler™ HP on QuantStudio™ 5
- 2021 – Performance Checks (54) of ProFlex™ PCR System with GlobalFiler™ and 3500xL
- 2020 – Performance Checks (128) of Quantifiler™ Trio and Quantifiler™ HP on QuantStudio™ 5
- 2020 – Validations (2) of GlobalFiler™ on 3500xL
- 2020 – Validations (3) of GlobalFiler™ on SeqStudio™
- 2020 – Validation of GlobalFiler™ on 3500
- 2020 – Validation of Yfiler™ Plus on 3500
- 2020 – Performance Check of Quantifiler™ Trio on QuantStudio™ 5
- 2020 – Probabilistic Genotyping Implementation Support
- 2020 – Internal Laboratory Verifications (5) of GlobalFiler™ on 3500xL
- 2020 – Internal Laboratory Verifications (3) of GlobalFiler™ on 3500xL
- 2020 – Validations (2) of GlobalFiler™ on 3500xL
- 2020 – Validations (2) of Yfiler™ Plus on 3500xL
- 2019 – Performance Checks (3) of Quantifiler™ Trio & Quantifiler™ HP on QuantStudio™ 5
- 2019 – Internal Laboratory Verifications (40) of GlobalFiler™ on 3500xL
- 2018 – Validation of Quantifiler™ Trio & Quantifiler™ HP on QuantStudio™ 5
- 2018 – Internal Laboratory Verifications (57) of GlobalFiler™ on 3500xL
- 2017 – Internal Laboratory Verifications (11) of GlobalFiler™ on 3500xL
- 2016 – Internal Laboratory Verifications (11) of GlobalFiler™ on 3500xL
- 2015 – Internal Laboratory Verifications (11) of GlobalFiler™ on 3500xL
- 2014 – Validation of GlobalFiler™ on 3500xL
- 2013 – Validation of Identifiler™ on 3730

Undisclosed Forensic Laboratory, Malaysia

- 2019 – Validation of GlobalFiler™ on 3500
- 2019 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2017 – Validations (3) of GlobalFiler™ on 3500xL
- 2017 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2015 – Validation of PrepFiler™ Express on AutoMate Express™
- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of GlobalFiler™ on 3500
- 2014 – Validation of PrepFiler™ Express & PrepFiler™ Express BTA on AutoMate Express™
- 2014 – Validation of Quantifiler™ Duo on 7500
- 2014 – Validation of GlobalFiler™ on 3500xL
- 2012 – Validation of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Malaysia

- 2017 – Performance Checks (4) of GlobalFiler™ Express on 9700
- 2017 – Move Performance Checks (2) of GlobalFiler™ Express on 3500xL
- 2016 – Validations (2) of GlobalFiler™ Express on 3500xL

Maldives Police Service, Maldives

- 2018 – Validation of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500
- 2018 – Validation of Yfiler™ Plus on 3500

University of Medicine, Ministry of Health and Sports, Myanmar

- 2018 – Verification of Quantifiler™ Trio on QuantStudio™ 5
- 2018 – Verification of GlobalFiler™ on 3500

Undisclosed Forensic Laboratory, Philippines

- 2019 – Validation & Performance Check of VeriFiler™ Plus on 3500xL with Data Collection v4
- 2021 – Validation & Performance Checks (2) of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges
- 2019 – Validation & Performance Check of VeriFiler™ Plus (direct) on 3500xL with Data Collection Software v4 and Hamilton™ NIMBUS™
- 2017 – Validation of Yfiler™ Plus (direct) on 3500

Undisclosed Forensic Laboratory, Singapore

- 2020 – Validation & Performance Check of Yfiler™ Plus on 3500xL
- 2020 – Probabilistic Genotyping Implementation Support
- 2017 – Evaluation of Precision ID Workflow with Precision ID Ancestry Panel, Ion Chef Instrument, and Ion S5 Sequencer
- 2017 – Performance Check of GlobalFiler™ on 3500xL
- 2017 – Performance Check of ProFlex™ Thermal Cycler

Undisclosed Forensic Laboratory, Singapore

- 2012 – Validation & Performance Check of Quantifiler™ Duo on 7500
- 2012 – Validation & Performance Checks (2) of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Singapore

- 2012 – Validation & Performance Check of Identifiler™ Direct on 3500xL with BSD600
- 2012 – Validation & Performance Check of Yfiler™ (direct) on 3500xL with BSD600

Undisclosed Forensic Laboratory, South Korea

- 2021 – Validation of RapidHIT™ ID Systems with ACE GlobalFiler™ Express Sample Cartridges
- 2021 – Validation of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2019 – Verification of PrepFiler™ Automated Extraction on Hamilton™ ID NIMBUS™ Presto
- 2015 – Validation of Identifiler™ Plus on 3500

Undisclosed Forensic Laboratory, Taiwan

- 2017 – Validation of GlobalFiler™ on 3500xL
- 2017 – Validation of Yfiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Taiwan

- 2017 – Validation of Identifiler™ Plus on 3500

Undisclosed Forensic Laboratory, Taiwan

- 2021 – Validation of Identifiler™ Plus on 3500

Undisclosed Forensic Laboratory, Taiwan

- 2017 – Validation of Identifiler™ Plus on 3500xL

Undisclosed Forensic Laboratory, Taiwan

- 2021 – Validation of GlobalFiler™ on 3500xL
- 2015 – Validation of Yfiler™ Plus on 3500xL
- 2013 – Validation of GlobalFiler™ on 3500xL

Undisclosed Forensic Laboratory, Thailand

- 2021 – Validation of GlobalFiler™ IQC on 3500xL
- 2021 – Validation of GlobalFiler™ IQC (direct mode) on 3500xL
- 2021 – Validation of Yfiler™ Plus on 3500xL
- 2020 – Validation of VeriFiler™ Plus on 3500xL
- 2020 – Validation of VeriFiler™ Express on 3500xL
- 2018 – Verification of CPA200™ using GlobalFiler™ Express with 3500xL
- 2017 – Validation of Yfiler™ Plus on 3500xL
- 2015 – Validation of GlobalFiler™ on 3500xL
- 2013 – Validation of GlobalFiler™ Express on 3500xL with BSD600
- 2012 – Validation of Identifiler™ Direct on 3500xL with BSD600

Undisclosed Forensic Laboratory, Thailand

- 2021 – Validation of GlobalFiler™ IQC on 3500
- 2019 – Validation of VeriFiler™ Plus on 3500

Undisclosed Forensic Laboratory, Thailand

- 2019 – Validation of VeriFiler™ Plus (direct mode) on 3500xL

Undisclosed Forensic Laboratory, Thailand

- 2021 – Validation of GlobalFiler™ IQC (direct mode) on 3500xL
- 2021 – Validations (2) of GlobalFiler™ IQC on 3500xL
- 2021 – Validations (2) of GlobalFiler™ IQC on 3500
- 2020 – Validations (2) of GlobalFiler™ IQC on 3500xL
- 2020 – Validations (2) of GlobalFiler™ IQC on 3500
- 2020 – Validation of VeriFiler™ Plus on 3500xL
- 2019 – Validations (2) of VeriFiler™ Plus on 3500
- 2019 – Validation of VeriFiler™ Plus on 3500xL

Latin America

Centro de Genética Forense -Poder Judicial de Córdoba, Argentina

- 2019 – Validation of GlobalFiler™ (direct mode) on 3500

Junin Laboratorio de Genética Forense Inst.Inv.Criminaly Cs.Forenses Norte, Argentina

- 2019 – Validation of Quantifiler Trio™ on 7500
- 2019 – Validation of GlobalFiler™ on 3500

Laboratorio de Genética Forense Ministerio Público Fiscal, Mendoza, Argentina

- 2021 – Validation of RapidHIT™ ID Systems with RapidINTEL™ Sample Cartridges
- 2018 – Validation of Quantifiler Trio™ on 7500
- 2018 – Validation of GlobalFiler™ on 3500
- 2018 – Validation of GlobalFiler™ (direct mode) on 3500

Departamento de Polícia Técnico-Científica – Amazonas, Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Yfiler™ Plus
- 2019 – Validation of Quantifiler™ Trio on 7500
- 2019 – Validation of GlobalFiler™ on 3500
- 2019 – Validation of Yfiler™ Plus on 3500

Perícia Forense do Estado do Ceará – Núcleo de Perícia em DNA Forense (NUPDF), Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Instituto Nacional de Criminalística/Diretoria Técnico-Científica/Polícia Federal (Distrito Federal), Brazil

- 2020 – Verification of Hamilton™ AutoLys™ and Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Laboratório de Biologia e DNA Forense – Instituto de Criminalística Leonardo Rodrigues (Goiania), Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Polícia Civil do Estado do Maranhão, Brazil

- 2018 – Validation of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500

Perícia Oficial e Identificação Técnica do Estado de Mato Grosso - POLITEC, Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Instituto de Polícia Científica da Paraíba, Brazil

- 2021 – Validation of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2021 – Validation of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Laboratório de Genética Molecular Forense, Parana, Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™
- 2020 – Validation of GlobalFiler™ on 3500
- 2020 – Validation of Yfiler™ Plus on 3500
- 2020 – Validation of GlobalFiler™ (direct mode) on 3500
- 2020 – Validation of Yfiler™ Plus (direct mode) on 3500

Instituto de Genética Forense Eduardo Campos – IGFE/SDS/PE, Pernambuco, Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Laboratório de Perícia e Pesquisa em Genética Forense, Recife, Brazil

- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of GlobalFiler™ on 3500

Departamento de Polícia Técnico-SSP-Bahia, Brazil

- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Superintendência da Polícia Técnico-Científica

- 2020 – Verification of Hamilton™ AutoLys™ and Hamilton™ Microlab™ ID STARlet™ with PrepFiler™ Automated
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2020 – Verification of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™

Laboratório de Genética Forense do Departamento de Perícias Laboratoriais do Instituto-Geral de Perícias, Brazil

- 2020 – Verification of Hamilton™ AutoLys™ with PrepFiler™ Automated
- 2017 – Validation of Quantifiler™ Trio on 7500
- 2017 – Validation of GlobalFiler™ on 3500

Polícia de Investigaciones, Concepción, Chile

- 2015 – Validation of Quantifiler™ Duo on 7500
- 2015 – Validation of GlobalFiler™ Express on 3500

Polícia Investigaciones, Laboratorio de Criminalística regional Iquique, Sección Bioquímica y Biología, Chile

- 2020 – Validation of Quantifiler™ Trio on 7500
- 2020 – Validation of GlobalFiler™ on 3500

Policía de Investigaciones, Santiago, Chile

- 2014 – Validation of Quantifiler™ Duo Validation on 7500
- 2014 – Validation of GlobalFiler™ Validation on 3500

UGF Legal Medicine Santiago, Chile

- 2021 – Validation of Quantifiler™ Trio on 7500
- 2021 – Validation & Performance Check of VeriFiler™ Plus on 3500
- 2021 – Validation & Performance Check of VeriFiler™ Express on 3500

Laboratorio de Criminalística de Carabineros, Sección Bioquímica, Santiago, Chile

- 2018 – Validation of Quantifiler™ Trio on 7500
- 2018 – Validation of GlobalFiler™ on 3500

Laboratorio de Criminalística Central, Santiago, Chile

- 2016 – Validation of Hamilton™ Microlab™ ID STARlet™ with Quantifiler™ Trio
- 2016 – Validation of Hamilton™ Microlab™ ID STARlet™ with GlobalFiler™
- 2016 – Validation of Hamilton™ Microlab™ ID STARlet™ with Yfiler™ Plus
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of Yfiler™ Plus on 3500

Policía Investigaciones, Laboratorio de Criminalística regional Temuco, Sección Bioquímica y Biología, Chile

- 2021 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2021 – Validation of GlobalFiler™ on 3500

Servicio Médico Legal, Valparaíso, Chile

- 2018 – Validation of VeriFiler Express on 3500

Undisclosed Forensic Laboratory Colombia

- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500
- 2016 – Validation of Yfiler™ Plus on 3500

Undisclosed Forensic Laboratory Colombia

- 2019 – Validation of PrepFiler™ Express and PrepFiler™ Express BTA on Automate Express
- 2019 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2019 – Validation of VeriFiler™ Plus 3500
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500
- 2016 – Validation of Yfiler™ Plus on 3500

Undisclosed Forensic Laboratory, Colombia

- 2015 – Validation of Quantifiler™ Trio on 7500
- 2015 – Validation of GlobalFiler™ on 3500

Servicio Nacional Forense de Ecuador, Ecuador

- 2021 – Validation of PrepFiler™ Express on Automate Express
- 2021 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 221 – Validation of GlobalFiler™ on 3500

FGJ Ciudad Mexico

- 2021 – Validation of PrepFiler™ Express on Automate Express
- 2021 – Validation of Quantifiler™ Trio on QuantStudio™ 5
- 2021 – Validation of VeriFiler™ Plus on 3500xL

Procuraduría General de la Republica, Mexico

- 2017 – Validation of Quantifiler™ Trio on 7500
- 2017 – Validation of GlobalFiler™ on 3500

Laboratorio de Genética Forense de la Dirección de Servicios Periciales, Sonora, Mexico

- 2016 – Validation of PrepFiler™ *Express* & PrepFiler™ *Express* BTA on AutoMate *Express*™
- 2016 – Validation of Quantifiler™ HP on 7500
- 2016 – Validation of Quantifiler™ Trio on 7500
- 2016 – Validation of GlobalFiler™ on 3500
- 2016 – Validation of GlobalFiler™ *Express* on 3500

Policia Cientifica – Montevideo, Uruguay

- 2016 – Verification of PrepFiler™ Automated on Hamilton™ STARlet™ *Express*
- 2016 – Verification of Quantifiler™ Trio on Hamilton™ STARlet™ *Express*
- 2016 – Verification of GlobalFiler™ on Hamilton™ STARlet™ *Express*

Company Overview

Life Technologies

Life Technologies is a global biotechnology tools company providing premier systems, consumables, and services for scientific researchers around the world. Life Technologies customers conduct their research across the biological spectrum, working to advance personalized medicine, regenerative science, molecular diagnostics, agricultural and environmental research, and 21st-century forensics.

With more than 50,000 products used by more than 75,000 customers around the globe, Life Technologies is advancing scientific research in areas like academic research, drug discovery and development, toxicology and forensics, disease diagnostics, clinical cell therapy and regenerative medicine, and biologics manufacturing.

Life Technologies is a strong proponent of global corporate social responsibility. Through the Life Technologies Foundation, our company has donated millions of dollars to help demystify the world of science, empower today's children to become tomorrow's scientific leaders, and deepen society's appreciation of science.

The company is also proud of its global citizenship and efforts to reduce its environmental impact; we have reduced our CO₂ emissions by 36% since 2006 and energy consumption by 32% since 2004. Life Technologies is a member of FTSE4Good Index Series and the Dow Jones Sustainability Index, where it was Biotechnology Sector Leader in 2008.

Thermo Fisher Scientific

Thermo Fisher Scientific Inc., the parent company of Life Technologies, is the world leader in serving science, with revenues of \$17 billion and 50,000 employees in 50 countries. Our mission is to enable our customers to make the world healthier, cleaner and safer. We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics, and increase laboratory productivity. Through our four premier brands – Thermo Scientific, Life Technologies, Fisher Scientific, and Unity Lab Services – we offer an unmatched combination of innovative technologies, purchasing convenience, and comprehensive support.

Thermo Fisher Scientific financial information can be obtained through the following website:
<http://ir.thermofisher.com/investors/financial-information/financial-results/default.aspx>

Life Technologies products harness the power of science to transform lives. A member of the Thermo Fisher Scientific family of brands, our instruments, everyday tools, and services offer high-quality, innovative life science solutions for every lab and application. As a worldwide leader in forensics, we deliver some of the most comprehensively validated products, expertise, and application support available to the human identification community. From our trusted reagents, through high-performance genetic analyzers and software, to in-depth training and on-site technical assistance, our integrated systems work together to help maximize your productivity and enable your success.

HID Professional Services (HPS)

The HID Professional Services team was developed to meet the ever-expanding needs of the global forensic community. The rigorous validation services meet and often exceed published validation standards and guidelines. The program was developed with extensive input from external expert consultants from the forensic community, a number of whom are still involved in our projects, as well as input from the FBI, NIST, and auditing/accrediting bodies such as NFSTC. During the course of a validation project, the laboratory's Technical Leader is kept abreast of the entire process and project, and

has complete visibility to all procedures, data, results, and conclusions. Projects have been designed to be executed with minimal disruption to the overall operations of the laboratory, while partnering closely with laboratory personnel while on-site.

Throughout each project, the laboratory maintains ownership of the validation through meetings to discuss the experimental design, daily updates while on-site, shadowing of the HID Professional Services validation application specialists, and updates when the report writing process has begun. HID Professional Services is available for consultation during any audits that involve these validations, so you can have confidence that you will be supported after a project is complete.

We have been conducting validation services globally since 2007. Our team has completed over 400 projects, including validations, performance checks, robotic integrations, laboratory-wide systems integrations, and turnkey projects, for forensic sites in the United States, Europe, Africa, Asia, and Australia.

Life Technologies has an extensive support network available before, during, and after any project. In addition to the validation specialists, Field Applications Specialists, Field Service Engineers, and Technical Support specialists are available to support your instruments, software, and reagents. As the manufacturer of the products included with a project, we have scientists on staff who participated in the development and developmental validations of reagents, consumables, instrumentation, and software. Furthermore, as the manufacturer Life Technologies is uniquely qualified to performance check, validate, troubleshoot, maintain, and optimize the use of these instruments, chemistry and software for your laboratory.

Please see the attached pages for representative CVs from members of the Life Technologies HID Professional Services team who may be involved with your project.

HPS EMEA Representatives



This is to certify that **Sonja Strümpher** is certified Validation Application Specialist for Human Identification Workflow Solutions.
Thermo Fisher Scientific certifies that the above-named Validation Application Specialist has the required level of technical knowledge needed to train and support users for the intended use of the Human Identification products that covers the HID Workflow solutions.



Adam SHARIFF
EMEA Human Identification Professional Services and
Project Management Senior Manager

ThermoFisher
SCIENTIFIC

SONJA STRÜMPHER VALIDATION SPECIALIST

Education

University of Pretoria, Pretoria, South Africa
Bachelor of Science (Hons) specializing in Molecular Genetics 1999
Bachelor of Science: Genetics, Biochemistry, and Microbiology 1998

Experience

Thermo Fisher Scientific (Life Technologies) - HID Professional Services, Pretoria, South Africa
Senior Product Applications Specialist October 2016 – Present

- Expanded role from previous Product Application Specialist position
- EMEA-wide technical leadership responsibility and overseeing technical processes including experimental designs, scope documentation, consultation, teach-back and review of technical documents.
- Managing validation and support needs for Forensic Science Laboratory South Africa as well as global support for Forensic Science Laboratory validation projects.

Product Applications Specialist May 2012 – October 2016

- Responsibility as a Validation Application Specialist for HID Validation and Professional Services covering EMEA regions.
- Job duties include Validation and Performance Check of HID systems and workflows. Validation process duties involve experimental design, experiment execution, data analysis, and report writing. Further duties extend to training and implementation of the specific workflows, as well as development of standard operating procedures.
- Qualified and trained by Life Technologies on all relevant instruments, chemistries and software.
- Experience obtained:
 - SAPS Forensic Science Laboratory: Semi-Automated Crime Index System Workflow Validation and Implementation (Manual and Robotic Process).
 - SAPS Forensic Science Laboratory: Semi-Automated Reference Index System Workflow Validation and Implementation (Robotic Process).
 - National Forensic Science Institute, Namibia: Validation of Semi-automated Crime Index and Reference Index Systems.
 - National Forensic Science Institute, Namibia: Validation of Next Generation Chemistries for DNA workflow (Quantifier Trio, GlobalFiler and Yfiler Plus).

Field Application Support Specialist April 2009 – May 2012

- Responsible as Field Support Specialist of the Applied Biosystems Human Identification and Quality Safety Testing customers covering South Africa and English-speaking Africa.
- Job duties included training, implementation, and after-sales support of all Applied Biosystems instruments and chemistries. Troubleshooting on-site or remotely for chemistry and instrument related issues. Additional responsibilities were to assist sales representatives with pre-sales demonstrations, user meetings, and workshops.
- Qualified and trained by Life Technologies to support and train on Life Technologies instruments together with their relevant chemistries and software. These include:



This is to certify that **David Gonzalez** is certified Validation Application Specialist for Human Identification Workflow Solutions.

Thermo Fisher Scientific certifies that the above-named Validation Application Specialist has the required level of technical knowledge needed to train and support users for the intended use of the Human Identification products that covers the HID Workflow solutions.

Adam SHARIF

EMEA Human Identification Professional Services and Project Management Senior Manager

ThermoFisher
SCIENTIFIC

DAVID GONZALEZ VALIDATION SPECIALIST

Education

University of Wales Swansea	
Master of Science (Hons): Environmental Biology	2004
University of Wales Swansea	
Bachelor of Science (Joint Hons): Genetics and Marine Biology	2002

Experience

Thermo Fisher Scientific (Life Technologies) - HID Professional Services, EMEA

Product Applications Specialist	2014 -Present
<ul style="list-style-type: none">• HID life science chemistry validations and data analysis.• Laboratory workflow, verification, validation, implementation, performance check.• Technical project management.• Liquid handling robotic systems validations and LIMS design.• Paper substrate punching robotic systems validations.• Customer and consultant training.• Customer troubleshooting, auditing and diagnostic review.• Customer reports and data analysis.• Product development.• Task force lead.	

Orchid Cellmark Ltd. (UK)

Process Specialist	2010-2014
<ul style="list-style-type: none">• Dynamic role working on Cellmark projects as Project Manager, Project Scientist and IT liaison.• Ensured legislation compliance as Project Manager for a Home Office project.• Project managing introduction of AB NGM to maintain position as supplier to the U.K. National DNA Database.• Project managed immigration DNA sample processing for a Middle Eastern country.• Project managed process improvement project ensuring contract was renewed for Child Support Agency.• Co-Project Managed and created sample handing database for a SNP analysis contract.• Helped define, test and train users on multiple internal LIMS.• Technical reports gained UKAS approval on numerous projects.• Repaired and improved liquid handling robots as specialist ensuring turnaround times.• Created and provided advanced liquid handling robotics training to staff.	

Team Leader

	2007-2010
<ul style="list-style-type: none">• Team leader responsible for high volume, fast turnaround, forensic PACE sample processing.• Managed out-of-hours laboratory team, completed high volume of work.• Amended laboratory management procedures improving turnaround times and pass rates.• Contributed to winning tenders by forward planning and ensuring laboratory capacity.	



This is to certify that **Gareth Stead** is certified Validation Application Specialist for Human Identification Workflow Solutions.

Thermo Fisher Scientific certifies that the above-named Validation Application Specialist has the required level of technical knowledge, needed to train and support users for the intended use of the Human Identification products that covers the HID Workflow solutions.

Adam SHARIFF

EMEA Human Identification Professional Services and Project Management Senior Manager

ThermoFisher
SCIENTIFIC

GARETH R. STEAD VALIDATION SPECIALIST

Education

University of Kent, United Kingdom

Bachelor of Science (Hons): Forensic Science (1st)

July 2005

Experience

Thermo Fisher Scientific (Life Technologies) - HID Professional Services, Paisley, United Kingdom
Product Applications Specialist October 2015 – Present

Senior Associate Product Applications Specialist February 2013 – October 2015

- Undertook a major twelve-month validation project for the Scottish Police Authority that culminated in the successful implementation of new DNA processing workflows across five laboratories for both casework and reference samples.
- Worked on the development and validation of new automation systems, including the Hamilton ID NIMBUS Presto for high-throughput DNA extraction using PrepFiler and PrepFiler BTA chemistries and the Hamilton AutoLys SAE for automated sexual assault sample processing.
- Developed and optimized new protocols for existing products, including new PrepFiler and PrepFiler BTA lysis protocols for use with the Hamilton AutoLys and a new GlobalFiler Express direct amplification protocol for use with Whatman OmniSwabs.
- Trained and experienced in robotic programming and associated software and protocol installations for Hamilton and Tecan automation instruments. This has allowed me to install and verify methods for customers across EMEA, North American and Latin America.

Associated British Agriculture, Cardiff, United Kingdom

Laboratory Analyst

November 2012 – February 2013

- Quality control and enzyme activity analysis of agricultural feed products using ELISA, Quickstix and Quantiplate techniques.

Forensic Science Service, Birmingham, United Kingdom

Research Biochemist

February 2006 – December 2011

- Validated and implemented eleven Hamilton STARplus automated liquid handling workstations into four DNA processing facilities, resulting in increased success rates across all sample types and decreased sample processing time.
- Validated and implemented Hamilton SAM automated freezers into four DNA casework laboratories, achieving full end-to-end automation and becoming the first UK users of the technology.
- Developed and validated the PowerPlex ESI 16 PCR multiplex in partnership with Promega US, allowing the laboratory to meet the requirements of the EU Prüm Convention on cross-border forensics (with validation data being published in FSI Genetics).
- Designed and developed a DNA recovery device that is currently patent-pending. Implementation of the device, both in-house and within police scenes of crime units led to drastic improvements in success rates from the poorest quality sample types.