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Title: Developmental Validation of a Fully Integrated Sample-to-Profile Rapid Human Identification System for Processing Single-Source Reference Buccal Samples

Author: Stevan Jovanovich Greg Bogdan Richard Belcinski Jacklyn Buscaino Dean Burgi Erica L.R. Butts Kaiwan Chear Brian Ciopyk David Eberhart Omar El-Sissi Helen Franklin Stefanie Gangano Jennifer Gass Dennis Harris Lori Hennessy Alex Kindwall David King Jim Klevenberg Yuan Li Neelima Mehendale Roger McIntosh Bill Nielsen Charles Park Francesca Pearson Robert Schueren Nancy Stainton Charles Troup Peter M. Vallone Mattias Vangbo Timothy Woudenberg David Wyrick Stephen Williams



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Developmental Validation of a Fully Integrated Sample-to-Profile Rapid Human Identification System for Processing Single-Source Reference Buccal Samples

Stevan Jovanovich^{1*}, Greg Bogdan¹, Richard Belcinski¹, Jacklyn Buscaino¹, Dean Burgi¹, Erica L.R. Butts², Kaiwan Chear¹, Brian Ciopyk¹, David Eberhart¹, Omar El-Sissi¹, Helen Franklin¹, Stefanie Gangano¹, Jennifer Gass¹, Dennis Harris¹, Lori Hennessy¹, Alex Kindwall¹, David King¹, Jim Klevenberg¹, Yuan Li¹, Neelima Mehendale¹, Roger McIntosh¹, Bill Nielsen¹, Charles Park¹, Francesca Pearson¹, Robert Schueren¹, Nancy Stainton¹, Charles Troup¹, Peter M. Vallone², Mattias Vangbo¹, Timothy Woudenberg¹, David Wyrick¹, and Stephen Williams¹.

¹IntegenX Inc., 5720 Stoneridge Drive, Suite 300, Pleasanton, CA, USA 94588-2739

²National Institute of Standards and Technology, Gaithersburg, MD, USA 20899-8314

*Corresponding Author, Stevan Jovanovich, Ph.D.

IntegenX Inc.
5720 Stoneridge Drive, Suite 300
Pleasanton, CA 94588-2739
USA

1-925-701-3480 Direct
stevanj@integenx.com

Graphical abstract

Highlights

- Development of an easy to use, sample-to-profile DNA identification system, the RapidHIT® System
- Developmental validation of PowerPlex 16 HS RapidHIT chemistry for reference samples on the RapidHIT System
- 89% first-pass, concordant full CODIS profiles for buccal swabs with 89% median peak height ratios
- Full profiles obtained from 176 ng of saliva DNA applied to swabs

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