

Sheree Hughes-Stamm, PhD
Assistant Professor of Forensic Science
Director of Graduate Programs
Department of Forensic Science
College of Criminal Justice
Sam Houston State University

Degrees Earned

Ph.D., 2012, Forensic Genetics, Health Science & Medicine, Bond University, Gold Coast, AUSTRALIA.
Forensic DNA typing of highly degraded samples

BSc., 1997, (Hons Eq.) Human Anatomy & Physiology, University of Queensland, Brisbane, AUSTRALIA

Professional Licensure and Certifications

N/A

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Amanda Wheeler, Natalia Czado, David Gangitano, Meredith Turnbough, Sheree Hughes-Stamm. (2016)
Comparison of DNA Yield and STR Success Rate from Different Tissues in Embalmed Bodies.
International Journal of Legal Medicine (in press, June 2016)

Amy Sorensen, Elizabeth Rahman, Cassandra Canela, David Gangitano, Sheree Hughes-Stamm.
(2016) Preservation and Rapid Purification of DNA from Decomposing Human Tissue Samples.
Forensic Science International; Genetics (in press, Feb 2016)

Sheree Hughes-Stamm, Frauke Warnke, Angela van Daal. (2015) An alternate method for extracting
DNA from environmentally challenged teeth for improved DNA analysis. Legal Medicine, 18, 31 - 36

Rachel Houston, Matthew Birck, Sheree Hughes-Stamm, David Gangitano. (2015) Evaluation of a 13-
loci STR multiplex system for Cannabis sativa genetic identification. International Journal of Legal
Medicine, 130(3):635-47

Cassandra Schield, Cassandra Campelli, Jennifer Sycalik, Christopher Randle, Sheree Hughes-Stamm,
David Gangitano (2016) Identification and persistence of Pinus pollen DNA on cotton fabrics: A
forensic application. Science & Justice, 56(1):29-34

Amy Sorensen, Clare Berry, David Bruce, Michelle Gahan, Sheree Hughes-Stamm, Dennis McNevin.
(2015) Direct-to-PCR tissue preservation for DNA profiling. International Journal of Legal Medicine, 130
(3):607 – 13

James White, Sheree Hughes-Stamm, David Gangitano. (2015) Development and validation of a rapid
PCR method for the PowerPlex® 16 HS system for forensic DNA identification. International Journal
of Legal Medicine, 129(4):715-23

Sarah Bahlmann, Sheree Hughes-Stamm, David Gangitano. (2014) Development and Evaluation of a Rapid PCR Method for the PowerPlex®S5 System for Forensic DNA Profiling. *Leg Medicine*, 16(4):227-33

P Nosedá, M Hernández, B González, S Hughes---Stamm, D Gangitano. (2013) Genetic Study of Three Closely Linked X chromosome STR Markers in an Argentinian Population. *J Forensic Investigation*. 1(2): 4

Sheree Hughes-Stamm, Mark Barash, Kelly Grisedale, Angela van Daal (2013) Initial evaluation of a 96-plex GoldenGate® Genotyping SNP assay with suboptimal and whole genome amplified samples. *Journal of Forensic Investigations*. 1 (1); 8-16

S.R. Hughes-Stamm, K.A. Ashton, A. van Daal. (2011) Assessment of DNA Degradation and the Genotyping Success of Highly Degraded Samples. *International Journal of Legal Medicine*. 125(3):341-8

M.K. Jones, S.R. Hughes-Stamm, T.H. Cribb. (2000) Ultrastructure of the digestive tract of *Gyliocheilus nahaensis* (Platyhelminthes, Digenea), an inhabitant of the hind---gut of herbivorous fishes. *Journal of Morphology* 246(3):198-211

S.R. Hughes-Stamm, T.H. Cribb & M.K. Jones. (1999) Structure of the tegument of *Gyliocheilus nahaensis* (Digenea: Gyliocheilidae), with observations on tegument-associated microorganisms. *Journal of Parasitology* 85:1047-1052

Wen Yang, Malcolm Jones, Jinjiang Fan, Sheree Hughes-Stamm, Donald McManus. (1999) Characterisation of a family of *Schistosoma japonicum* proteins related to dynein light chains. *Biochimica et Biophysica Acta* 1432: 13-26

Books

N/A

Chapters

N/A

Proceedings

Amy Sorensen, MS, David Gangitano, PhD, Sheree Hughes---Stamm, PhD. 2014. DNA Preservation and Rapid Purification of Decomposing Human Tissue Samples; A DVI Application. Association of Forensic DNA Analysts and Administrators (AFDAA). 2014 Summer Meeting. Houston, TX

Bodies, Bones and Bombs; Human Identification. 2016. *Esiri Tasker, Charity Beherec, Rachel Houston, Sheree Hughes-Stamm* 2nd Human Identification Solutions (HIDS) Conference. Barcelona, Spain.

Artistic Performances

N/A

Artistic Exhibitions

N/A

Research Monographs and Technical Reports

Final Technical Report - US National Institute of Justice (NIJ) Award #2013---DN---BX---K034

Funded External Grants

US National Institute of Justice (NIJ) Award #2015-DN-BX-K066
(for Jan 2016-Dec 2017) Principal Investigator. Funded for \$725,000
Enhanced Sample Preparation and Data Interpretation Strategies for Massively Parallel Sequencing for Human Identification in Missing Persons and DVI Casework
PI: Sheree Hughes-Stamm , Co.PI: Bruce Budowle, Co-Inv: David Gangitano

US National Institute of Justice (NIJ) Award #2013-DN-BX-K034
(for Jan 2014-Dec 2014) Principal Investigator. Funded for \$170,000
Preservation of high throughput methods for Human Tissue Samples in Tropical Climates. PI: Sheree Hughes---Stamm , Co.PI: David Gangitano

SHSU Enhancement Research Grant (ERG) \$15,000 (2015) Forensic Next Generation DNA tools for decomposed tissues. Co-PIs: Sheree Hughes-Stamm and David Gangitano

SHSU Enhancement Research Grant (ERG) \$10,000 (2014)
Biological and environmental factors related to stalking.
PI: Danielle Boisvert
Co.Inv: Todd Armstrong, Matt Nobles, Brian Boutwell, David Gangitano, Sheree Hughes-Stamm

Bond University Faculty of Health Science & Medicine Research Grants (two grants in 2008)
\$15,000 each

Bond University Research and Consultancy Services (BURCS/BUGSR) Student Support Scheme Grants (2009 and 2011) \$3000 each.

Peer-Review Presentations/Posters

Amanda Wheeler, Natalia Czado, David Gangitano, and Sheree Hughes-Stamm. Comparison of DNA Yield & STR Success Rates from Various Tissues in Embalmed Bodies. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Amy Sorensen, Clare Berry, David Bruce, Michelle Gahan, Sheree Hughes-Stamm, and Dennis McNevin. Tissue Preservation with Direct-to-PCR for DNA Profiling: An Alternative DVI Approach. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Carrie Mayes and Sheree Hughes-Stamm. Development and Initial Evaluation of a miRNA System for Forensically Relevant Body Fluids Using Capillary Electrophoresis. Proceedings of the Gordon Research Conference; Forensic Analysis of Human DNA (June 2016).

Esirioghene Tasker, Bobby LaRue, David Gangitano, and Sheree Hughes-Stamm. Analysis of DNA from Post-blast Fragments for Identification and Determination of Ancestry. Proceedings of the Gordon Research Conference; Forensic Analysis of Human DNA (June 2016).

Daniela Anane-Bediakoh, Martin Lopez, Holly Whillock, Sheree Hughes-Stamm, and Amy Castillo. Can DNA Data Be Used to Establish a Cut-Off Time for Juvenile Sexual Assault Exams. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Kyleen Elwick, Sheree Hughes-Stamm, Kimberly Andreaggi, and Michelle Peck. Optimization and Validation of the ForensicGEM Rapid Extraction Method for High-throughput Processing of Cotton Buccal Swabs. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Natalia Czado, Bobby LaRue, Jr., Amanda Wheeler, Rachel Houston, Amy Sorensen, David Gangitano, and Sheree Hughes-Stamm. The Effectiveness of Various Strategies to Improve DNA Analysis of Formaldehyde-Damaged Tissues From Embalmed Cadavers for Human Identification (HID) Purposes. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Rachel Houston, Sheree Hughes-Stamm, and David Gangitano. Evaluation of a 13-Loci Short Tandem Repeat (STR) Multiplex System for *Cannabis sativa* Genetic Identification. Proceedings of the American Academy of Forensic Sciences (Feb 2016).

Rachel Houston, Sheree Hughes-Stamm, David Gangitano. 2015. Evaluation of a 13-loci STR multiplex system for *Cannabis sativa* genetic identification. The 26th International Symposium on Human Identification. Grapevine, TX.

Elizabeth Rahman, David Gangitano, Gabriel Boselli, Sheree Hughes-Stamm . 2015. Evaluation of a One-Step DNA Extraction Method for “touch” Samples. The 26th International Symposium on Human Identification. Grapevine, TX.

A. Sorensen, C. Berry, D. Bruce, M. Gahan, S. Hughes-Stamm and D. McNevin. 2015. Direct-to-PCR Tissue Preservation for DNA Profiling. The 26th International Symposium on Human Identification. Grapevine, TX.

Amy Sorensen, MS, Elizabeth Rahman, BSc, Cassandra Schield, MS, James White, MS, David Gangitano, PhD, Sheree Hughes---Stamm, PhD. 2015. Room Temperature DNA Preservation and Rapid Purification of Decomposing Human Tissue Samples; An Alternative DVI Approach. AAFS 67th Annual Scientific Meeting, Orlando, FL

Amy Sorensen, MS, David Gangitano, PhD, Sheree Hughes---Stamm, PhD. 2014. Room Temperature DNA Preservation and High---Throughput Purification of Decomposing Human Tissue Samples; An Improved DVI Approach. The 22nd International Symposium on the Forensic Sciences. The Australian and New Zealand Forensic Science Society. Adelaide, Australia

Amy Sorensen, MS, David Gangitano, PhD, Sheree Hughes---Stamm, PhD. 2014. Room Temperature DNA Preservation and Rapid Purification of Decomposing Human Tissue Samples; A DVI Application. The 25th International Symposium on Human Identification. Phoenix, AZ.

James White, B.S.*; Sarah Bahlmann, M.S.; Sheree Hughes---Stamm, Ph.D.; David Gangitano, Ph.D. 2014. Development and Evaluation of a Rapid PCR Method for a Commercially Available MiniSTR Kit for Human Identification. AAFS 66th Annual Scientific Meeting, Seattle, WA

Elizabeth Rahman, B.S.*; Sheree Hughes---Stamm, Ph.D. 2014. Preservation of Human Tissue Samples in Tropical Climates. AAFS 66th Annual Scientific Meeting, Seattle, WA

Kourtnei Woods, B.S.*, Frank Warnke, DDS, Sheree Hughes---Stamm, Ph.D. 2014. An Improved Method of DNA Extraction From Environmentally Challenged Teeth AAFS 66th Annual Scientific Meeting, Seattle, WA

Sarah Bahlmann, Sheree Hughes---Stamm, David Gangitano. 2013. Development and Evaluation of a Rapid PCR Method for the Powerplex®S5 System for Forensic DNA Profiling. The 23rd International Symposium on Human Identification, Atlanta, USA

S.R. Hughes---Stamm. 2012. The 200 year---old HMS Pandora shipwreck: Combined Forensic Anthropology and Genetic Analysis of the Skeletal Remains Recovered. Australian and New Zealand Forensic Science Society (ANZFSS) Symposium. Hobart, AUSTRALIA

Sheree Hughes---Stamm, Kevin Ashton, Angela van Daal. 2011. STR Genotyping of Environmentally Challenged Skeletal Samples. The 22nd International Symposium on Human Identification, Washington DC, USA

Mark Barash, Wenji Liu, Sheree Hughes---Stamm, Angela van Daal. 2011 Identification of Single Nucleotide Polymorphisms (SNPs) Involved in the Determination of Physical Appearance. The 22nd International Symposium on Human Identification, Washington DC, USA

Sheree Hughes---Stamm, Kevin Ashton, Angela van Daal. 2010. Assessment of DNA Degradation and the Predictive Genotyping Success of Highly Degraded Samples. The 21st International Symposium on Human Identification, San Antonio, TX, USA

S.R. Hughes---Stamm, K.A. Ashton, A. van Daal. 2009. Assessment of DNA Degradation and the Genotyping Success of Highly Degraded Samples. 6th International Society of Applied Biological Sciences (ISABS) Conference Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine. Split, Croatia.

S.R. Hughes---Stamm, K.A. Ashton, A. van Daal. 2008. Measures of DNA Degradation and the Presumptive Genotyping Success of Highly Degraded Samples. Australian and New Zealand Forensic Science Society (ANZFSS) Symposium. Melbourne, AUSTRALIA

M.K. Jones, S.R. Hughes---Stamm, T.H. Cribb. (2000) Morphology of the digestive system of the digenean trematode *Gyliarchen nahaensis* --- An endocommensal flatworm with a herbivorous diet. New Zealand Society for Parasitology/ Australian Society for Parasitology. Wellington, NZ

Pantaleon M., Hughes---Stamm S.R., Kaye P.L. 1999. Glucose is essential for GLUT3 expression and blastocyst formation in the mouse. Australian Society for Biochemistry and Molecular Biology Incorporated (ASBMB) Australian and New Zealand Society for Cell & Developmental Biology Incorporated Combined Conference Abstracts. Sym---35---05 (Abstract)

M. Pantaleon, S.R. Hughes---Stamm, P.L.Kaye. 1998. A role for glucose in cleavage stage mouse development. Australian Society for Reproductive Biology. Pg.43

Work or Professional Experiences

Assistant Professor, Forensic Science (2012-current)
Director of Graduate Programs, Department of Forensic Science
Forensic Science Department, Sam Houston State University, Huntsville, TX.

Senior Teaching Fellow (2006-2012)

Faculty of Health Sciences and Medicine, Bond University, Gold Coast, Australia

Teaching Fellow (2002-2006)

School of Physiotherapy and Exercise Science, Griffith University, Gold Coast, Australia Postgraduate Tutor (2000---2001)

Department of Anatomical Sciences, University of QLD, Brisbane, Australia

Research Assistant (1999)

Department of Anatomical Sciences, University of QLD, Brisbane, Australia

Laboratory Technician (1998)

Science Department, University of the Sunshine Coast, Australia

Research Assistant (1997-1998)

Department of Physiology and Pharmacology, University of QLD, Brisbane, Australia Center for Microscopy and Microanalysis, University of QLD, Brisbane, Australia

Anatomy Tutor (1996)

Department of Anatomical Sciences, University of QLD, Brisbane, Australia

Honors and Awards

Australian and New Zealand Forensic Science Society (ANZFSS) National Award, 2012

Bond University Alumni Student Opportunity Award, 2011

Bond University Open Day Graduate Poster Prize, 2009

Australian and New Zealand Forensic Science Society (ANZFSS) Allan Hodda Memorial Award, 2009

Australian Postgraduate Award (APA), 2008

Australian Federation of University Women Fellowship Award, 2001 Australian Society of Reproductive Biology Serono Junior Scientist Award, 1997

Science Faculty Commendation for High Achievement, UQ (GPA>6.0), 1996 & 1997

Golden Key National Honour Society Member For outstanding scholastic achievement (UQ)

Other Competencies

Texas Forensic Science Commissioner, 2014-current

Walker County Voluntary Organizations Active in Disaster (VOAD) (2013- current) American Academy of Forensic Sciences, Trainee Affiliate (2012- current) American Academy of Forensic Sciences, Student Affiliate (2011- 2012)

Australian & New Zealand Forensic Science Society (QLD Branch, Steering Committee) 2008---2012 Bond University Women's Network (Steering Committee) (2009-2012)

Australian Federation of University Women (1997-2000) Advanced Pathology Training Course (1997)