

Curriculum Vitae

Charlotte J. Word, Ph.D.

Education

Ph.D. Microbiology, University of Virginia, Charlottesville, Virginia, 1981

B.S. Biology, College of William and Mary, Williamsburg, Virginia, 1976

Professional Experience

Consultant, Human DNA Identification and Paternity Testing, 2005 - present

Consultant, Boston University School of Medicine, NIH Training Grant awarded to Dr. Robin Cotton, 2008 – 2015.

Consultant, Orchid Cellmark, Germantown, MD; Dallas, TX, 2005 - 2012

Consultant, Applied Biosystems, Inc. 2006 - 2012

Project Staff Associate, Northeast Regional Forensic Institute, Research Foundation of State University of New York, Albany, New York, 2006 - 2007

Senior Manager, Forensics and Laboratory Director, Orchid Cellmark, Germantown, Maryland, 2001 - 2005

Deputy Laboratory Director, Forensic Laboratory, Cellmark Diagnostics, Inc., Germantown, Maryland, 1997 - 2001

Senior Scientist, Cellmark Diagnostics, Inc., Germantown, Maryland, 1995 - 1997

Scientist, Cellmark Diagnostics, Inc., Germantown, Maryland, 1990 - 1995

Research Assistant Professor, Department of Cell Biology, University of New Mexico School of Medicine, Albuquerque, New Mexico, 1984 -1990

Research Fellow, Dr. Philip W. Tucker, Department of Microbiology
University of Texas Southwestern Medical School, Dallas, Texas, 1981 - 1984

Graduate Research Student (Ph.D.), Dr. W. Michael Kuehl, Department of Microbiology,

University of Virginia. Thesis Title: "Murine B Lymphomas: Models for Immunoglobulin Expression in B Cell Development.", 1976 - 1981

Sabbatical with Dr. Randolph Wall, University of California at Los Angeles Molecular Biology Institute, Los Angeles, California, 1980

Participant, Histopathobiology of Cancer Workshop, Keystone, Colorado, 1979

Professional Associations and Licensures

American Academy of Forensic Sciences

Mid-Atlantic Association of Forensic Scientists

International Society of Forensic Genetics

Maryland Department of Health and Mental Hygiene, Office of Health Care Quality, Forensic Letter of Permit Exception

Honors and Research Support

OSAC Distinguished Individual Service Award, 2019

Member, NIST DNA Mixture Resource Group (2018-19)

Member, Subcommittee on Biology/DNA Analysis 2 (Biology Data Interpretation and Reporting) of the Biology/DNA Scientific Area Committee of the Organization of Scientific Area Committees (OSAC) for Forensic Science, 2014–2020

Affiliate, Human Forensic Biology Subcommittee of the Organization of Scientific Area Committees (OSAC) for Forensic Science, 2020-2022

Member, Human Forensic Biology Subcommittee of the Organization of Scientific Area Committees (OSAC) for Forensic Science, 2022-present

Member, American Academy of Forensic Sciences, Academy Standards Board, DNA Consensus Body, 2016-present; Vice-Chair 2022-present

Member, Reporting and Testimony Subcommittee of the National Commission on Forensic Science, 2014–2017

District of Columbia Department of Forensic Sciences Science Advisory Board, 2014–2015

Grant Review for National Institutes of Justice, 2006–present

Auditor for the National Forensic Science Technology Center, 2005–2011

Inspector for the American Society of Laboratory Directors/Laboratory Accreditation Board 2004 – 2005, 2010.

Editorial Board, *The Journal of Forensic Sciences*, 2004 – present

Guest Reviewer, *The Journal of Forensic Sciences*, 2002 – 2004

Guest Reviewer, *Forensic Science International: Genetics*, 2012-present

Member, Post-Conviction Issues Working Group of the National Commission on the Future of DNA Evidence, 1998-1999. Co-author of “Postconviction DNA Testing: Recommendations for Handling Requests” 1999, U.S. Department of Justice Office of Justice Programs.

United States Department of Defense, 1996-1998, Enhanced DNA Recovery, \$318,000.

NIH 1 RO1 HD20409. Immunoregulatory Factors in Human Colostrum. \$88,218 (direct). 07/01/87 – 06/30/90. Co-PI: S. Crago.

American Heart Association Grant-In-Aid 1985-1989, Regulation of B Cell Immunoglobulin Isotype by T Cells, \$99,000.

American Cancer Society Junior Faculty Research Award 1985-1988, Regulation of B Cell Immunoglobulin Isotype by T Cells, \$90,500.

Recipient of AAI travel award for 6th International Congress of Immunology, 1986.

Fellow, Damon Runyon –Walter Winchell Cancer Fund Award, 1982-1984.

Semi-Finalist, 1981 Distinguished Dissertation Award from the Council of Graduate Schools/University Microfilms International.

Publications

Word, C.J. and Kuehl, W.M. 1981. Expression of surface and secreted IgG_{2a} by a murine B lymphoma before and after hybridization to myeloma cells. *Mol. Immunol.* 18:311-322.

Rogers, J., Choi, E., Souza, L., Carter, C., Word, C., Kuehl, M., Eisenberg, D. and Wall, R. 1981. Gene segments encoding transmembranal carboxyl termini of immunoglobulin γ chains. *Cell* 26:19-27.

Word, C.J., Mushinski, J.F. and Tucker, P.W. 1983. The murine immunoglobulin α gene expresses multiple transcripts from a unique membrane exon. *EMBO J.* 2:887-898.

Jones, S., Chen, Y.-W., Isakson, P., Layton, J., Pure, E., Word, C., Krammer, P.H., Tucker, P.W. and Vitetta, E.S. 1983. Effect of T cell-derived lymphokines containing B cell differentiation factor(s) for IgG (BCDF γ) on γ -specific mRNA in murine B cells. *J. Immunol.* 131:3049-3051.

Vitetta, E.S., Brooks, K., Chen, Y.-W., Isakson, P., Jones, S., Layton, J., Mishra, G.C., Pure, E., Weiss, E., Word, C., Yuan, D., Tucker, P., Uhr, J.W. and Krammer, P.H. 1984. T cell-derived lymphokines inducing IgM and IgG secretion in activated murine B cells. *Immunol. Rev.* 78:137-157.

Wels, J., Word, C.J., Rimm, D., Der-Balan, G., Martinez, H.M., Tucker, P.W. and Blattner, F.R. 1984. Structural analysis of the murine IgG₃ constant region gene. *EMBO J.* 3:2041-2046.

White, M., Shen, A., Word, C., Tucker, P. and Blattner, F. 1985. Human Immunoglobulin D: Genomic sequence of the δ heavy chain. *Science* 228:733-737.

Chen, Y.-W., Word, C.J., Jones, S., Uhr, J.W., Tucker, P.W. and Vitetta, E.S. 1986. Double isotype production by a neoplastic B cell line: I. Cellular and biochemical characterization of a variant of BCL₁ that expresses and secretes both IgM and IgG₁. *J. Exp. Med.* 174:548-561.

Chen, Y.-W., Word, C.J., Dev, W., Uhr, J.W., Vitetta, E.S. and Tucker, P.W. 1986. Double isotype production by a neoplastic B cell line: II. Allelically excluded production of μ and γ 1 heavy chains without C_H gene rearrangement. *J. Exp. Med.* 164:562-579.

Word, C.J., Crago, S.S. and Tomasi, T.B. 1986. Regulation of IgA expression by isotype-specific T cells and soluble binding factors. *Ann. Rev. Microbiol.* 40:503-524.

Crago, S.S., Word, C.J. and Tomasi, T.B. 1987. Interaction of antisera to the secretory component with Fc α R. *In: Recent Advances in Mucosal Immunology, Part A.* Eds. J. Mestecky, J.R. McGhee, J. Bienenstock, P. and L. Ogra. Plenum Publishing, NY, pp. 601-611.

Crago, S.S., Word, C.J. and Tomasi, T.B. 1989. Antisera to the secretory component recognizes the murine Fc receptor for IgA. *J. Immunol.* 142:3909-3912.

Word, C.J., White, M.B., Kuziel, W.A., Shen, A.L., Blattner, F.R. and Tucker, P.W. 1989. The immunoglobulin IgM-IgD heavy chain constant region locus in the human. I. Complete nucleotide sequence and structural analysis. *Int'l. Immunol.* 1:296-309.

Kuziel, W.A., Word, C.J., Mushinski, J.F., Blattner, F. and Tucker, P. 1989. The immunoglobulin IgM-IgD heavy chain constant region locus in the human. II. Regulation of expression during B cell differentiation. *Intl. Immunol.* 1:310-319.

White, M.B., Word, C.J., G-Humphries, C., Blattner, F.R. and Tucker, P. 1990. IgD switching can occur through homologous recombination in human B cells. *Mol. and Cell Biol.* 1990 10:3690-3699.

Cotton, R.W., Forman, L., Word, C.J. 1991. Research on DNA typing validated in the literature. (Letter) *Am. J. Hum. Genet.* 49:898-899.

Walsh, D.J., Corey, A.C., Cotton, R.W., Forman, L., Herrin, G.L., Jr., Word, C.J., and Garner, D.D. 1992. Isolation of DNA from saliva and forensic samples containing saliva. *J. For. Sci.*, 37:387-395.

Word, C.J., 1994. Validation studies on the AmpliType® PM PCR Amplification and Typing Kit for forensic testing: Summary of results from 15 laboratories. *Proceedings from the Fifth International Symposium on Human Identification.* Promega Corp., pp. 123.

Word, C.J. 1995. Forensic casework analysis using STRs, DQ α , and PM in combination. *Proceedings from the Sixth International Symposium on Human Identification.* Promega Corp., pp. 32-35.

Word, C.J., Sawosik, T.M. and Bing, D.H. 1997. Summary of validation studies from twenty-six forensic laboratories in the United States and Canada on the use of the AmpliType® PM PCR Amplification and Typing Kit. *J. For. Sci.*, 42: 39-48.

Bing, D.H., Sawosik, T.M. and Word, C.J. 1997. Assay performance results with the AmpliType® PM PCR Amplification and Typing Kit on DNA mock casework, adjudicated/non-probative casework and proficiency panels from twenty-one forensic laboratories in the United States and Canada. *Crime Lab. Digest*, 23:3-21.

Zachary, A.A, Bias W.B. and Word, C.J. 1997. Principles and Applications of Genetic Identification. In *Manual of Clinical Laboratory Immunology*, 5th Ed., ASM Press, Washington, D.C. pp.1141-1151.

Word, C.J. 1998. STR data goes to court - A laboratory perspective. *Proceedings from the Eighth International Symposium on Human Identification.* Promega Corp., pp. 1-5.

Word, C. J. 1998. STR data goes to court - A laboratory perspective. *Profiles in DNA*,

2:7-8.

Word, C. J., Co-author as a member of the Postconviction Issues Working Group of the National Commission on the Future of DNA Evidence. 1999. Postconviction DNA Testing: Recommendations for Handling Requests. U.S. Department of Justice, National Institutes of Justice, Washington, D.C.

Smialek, J.E., Word, C.J., and Westveer, A.E. 2000. The Microscopic Slide - A Potential DNA Reservoir. FBI Law Enforcement Bulletin, 18-22.

Kokoszka, J.E., Cline, R. E., Leisy, C., Grossweiler, L. L., and Word, C. J. 2006. The Successful DNA Typing of Samples Following a Thermal Cycler Power Loss. J. For. Sci. 51:1074-1079.

Word, C. (2010) What is LCN?—Definitions and Challenges. *Profiles in DNA* **13(1)**; [Internet] 2010. Available from: www.promega.com/profiles/1301/1301_01.html

Word, C.J. (2011) Mixture interpretation: Why is it sometimes so hard? *Profiles in DNA* **14(1)**; [Internet] 2011. Available from: www.promega.com/profiles/1401/1401_04.html

Presentations/Abstracts/Workshops

Word, C.J. and Kuehl, W.M. 1980. A murine B-lymphoma expresses surface and secreted IgG_{2a}. 62nd Annual Meeting Federation of American Societies for Experimental Biology.

Word, C.J., Mushinski, J.F., Slightom, J.L., Blattner, F.R. and Tucker, P.W. 1982. Membrane and secretory IgA. 66th Annual Meeting Federation of American Societies for Experimental Biology.

Word, C.J., Mushinski, J.F. and Tucker, P.W. 1983. The murine immunoglobulin α gene expresses multiple transcripts from a unique membrane exon. 12th Annual UCLA Symposium, Journal of Cellular Biochemistry.

Word, C.J., Mushinski, J.F., and Tucker, P.W. 1983. The murine immunoglobulin α gene expresses multiple transcripts from a unique membrane exon. 5th International Congress of Immunology.

Crago, S.S., Word, C.J., and Tomasi, T.B. 1986. Interaction of antisera to the secretory component with Fc α R. International Congress of Mucosal Immunology.

Chen, Y.-W., Word, C., Jones, S., Uhr, J.W., Tucker, P.W., and Vitetta, E.S. 1986. Biochemical and molecular characterization of an IgM/IgG₁-producing variant. 6th International Congress of Immunology.

Word, C.J., White, M.B., Shen, A.L., Kuziel, W.A., Blattner, F.R., and Tucker, P.W. 1986. DNA sequence and analysis of the human Ig C μ -C δ locus. 6th International Congress of Immunology.

Crago, S.S., Word, C.J., and Tomasi, T.B. 1986. Interaction of antisera to the secretory component with the IgA receptor (Fc α R) on murine lymphoid cells. 6th International Congress of Immunology.

Word, C.J., White, M.B., Shen, A.L., Kuziel, W.A., Blattner, F.R. and Tucker, P.W. 1986. DNA sequence and analysis of the human Ig C μ -C δ locus. Rocky Mountain Immunology Meeting.

Crago, S.S., Word, C.J., Tomasi, T.B. 1986. Interaction of antisera to the secretory component with the IgA receptor (Fc α R) on murine lymphoid cells. Rocky Mountain Immunology Meeting.

Crago, S., Word, C. and Tomasi, T.B. 1986. Anti-secretory component inhibits binding of IgA to Fc α R. 71st Annual Meeting Federation of American Societies for Experimental Biology.

Crago, S., Word, C.J. and Tomasi, T.B. 1987. Anti-secretory component inhibits binding of IgA to Fc α R. FASEB Summer Research Conferences on Fc Receptors and Immunoglobulin Binding Factors.

Word, C.J. - Presenter. 1990. Criminal Law and DNA, The Institute of Continuing Legal Education in Georgia. Atlanta, GA.

Word, C.J. - Presenter. 1990. California Association of Criminalist meeting, Long Beach, CA.

Kriss, J.E., Forman, L., Word, C.J., Garner, D.D. and Cotton, R.W. 1991. Factors affecting migration and resolution of DNA fragments. 43rd Annual Meeting of the American Academy of Forensic Sciences, Anaheim, CA.

Forman, L., Wadhams, M.J., Roby, R.K., Stacy, T.D., Word, C.J., Garner, D.D. and Cotton, R.W. 1991. Comparison of allele frequency distributions in four populations using probe YNH24. 43rd Annual Meeting of the American Academy of Forensic Sciences, Anaheim, CA.

Cotton, R.W., Kriss, J.E., Forman, L., Word, C.J. 1992. The effects of sample buffer composition on migration of DNA fragments. 44th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA.

Forman, L., Roby, R.K., Wadhams, M.J., Stacy, T.D., Word, C.J., Garner, D.D. and Cotton, R.W. 1992. Effects on the calculation of frequencies from statistically-differentiated databases for multiple VNTR loci. 44th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA.

Word, C.J., Cotton, R.W., Cooper, J.A., McCoy, M.J., Roby, R.K., Stacy, T.D., Walsh, D.J., Wadhams, M.J., Weber, M.A., Yates, P.J. and Forman, L. 1992. Use of single-locus and multilocus DNA probes in forensic paternity cases involving incestual relationships. 44th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA.

Cotton, R.W., Forman, L. and Word, C.J. 1992. Minisatellite variant repeats (MVR's): Another layer of polymorphism in repeated DNA sequences. Third International Symposium on Human Identification, Scottsdale, AZ.

Cotton, R.W., Forman, L., Word, C.J. and Sozer, A.C. 1993. Minisatellite variant repeats and forensic analysis. 45th Annual Meeting of the American Academy of Forensic Sciences, Boston, MA.

Weber, M.A., Cotton, R.W., Forman, L., Garner, D.D. and Word, C.J. 1993. RFLP analysis of apparent partially restricted DNA samples from forensic casework. 45th Annual Meeting of the American Academy of Forensic Sciences, Boston, MA. and Northeast Association of Forensic Sciences 19th Annual Meeting, Springfield, MA.

Kriss, J., Corey, A.C., Cooper, J.A., Yates, P.J., Weber, M.A., Cotton, R.W., Garner, D.D. and Word, C.J. 1993. Validation Studies Using the HLA DQ α Forensic Kit. 45th Annual Meeting of the American Academy of Forensic Sciences, Boston, MA and the Northeast Association of Forensic Sciences 19th Annual Meeting, Springfield, MA.

Word, C.J., 1993. Case application and court experiences with PCR. Florida DNA Training Session II: PCR Applications. Orlando, FL.

Cotton, R.W., Kriss, J., Wadhams, M.J. and Word, C.J. 1993. Quantitation of human DNA. Fourth International Symposium on Human Identification, Scottsdale, AZ.

Word, C.J., Presenter - AmpliType Users Forum. 1994. 46th Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX.

Forman, L., Ballmann, R., Campbell, W., Cooper, J.A., Danielsen, L.A., Quandt, K.R., Ranadive, A., Stolorow, M.D., Weber, M.A., Word, C.J., and Yates, P.J. 1994.

Proficiency testing and DNA profiling. 46th Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX.

Word, C.J., and Bing, D. 1994. Validation studies on the AmpliType[®] PM PCR Amplification and Typing Kit for forensic testing: Summary of results from 15 Laboratories. Fifth International Symposium on Human Identification, Scottsdale, AZ.

Cotton, R.W., Wadhams, M.J., Kriss, J., Sipes, D., Forman, L. and Word, C.J. 1994. Validation of two STR loci in preparation for casework implementation. Fifth International Symposium on Human Identification, Scottsdale, AZ.

Kriss, J., Forman, L., Cotton, R.W., and Word, C.J. 1995. Validation studies using the AmpliType[®] PM PCR Amplification and Typing Kit. 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Cotton, R.W., Kriss, J., Sipes, D.E., Wadhams, M., Forman, L., and Word, C.J. 1995. Experimental validation of three STR loci for forensic casework. 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Bing, D.H., and Word, C.J., et al. 1995. PCR based forensic testing with AmpliType[®] PM PCR Amplification and Typing Kit: The results of validation studies from forensic laboratories. 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Word, C.J., Presenter. 1995. AmpliType Users Forum. 47th Ann. Mtg. Seattle, WA.

Word, C.J. 1995. Implementation of STR/AgNO₃ protocols on casework. Florida DNA Training Session III: Advanced PCR Applications. Altamonte Springs, FL.

Word, C.J., Cotton, R.W., Ranadive, A.A., and Weber, M.A. 1995. Forensic casework analysis using STRs, DQ α and PM in combination. Sixth International Symposium on Human Identification, Scottsdale, AZ.

Word, C.J. 1995. DNA Mid-Atlantic Association of Forensic Scientists Presents "The Gilbert and Trias Murders." Gaithersburg, MD.

Cotton, R.W., Chakraborty, R., Crouse, C., Forman, L., Kriss, J., Ranadive, A. A., Sipes, D.E., Weber, M.A., Weir, B., Word, C.J. 1996. Analysis of casework samples using a combination of the DQ α , PM, and 3 STR loci. 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, TN.

Word, C.J. 1996. DNA Interpretation Issues Workshop. Northwest Association of Forensic Sciences Meeting, Salt Lake City, UT.

Word, C.J. 1996. Interpretation of mixed samples. Human Identification Users Meeting. Rockville, MD.

Word, C.J. 1997. STR data goes to court - A laboratory perspective. Eighth International Symposium on Human Identification, Scottsdale, AZ.

Word, C.J. and Gregory, S.A. 1997. Optimization of recovery and PCR amplification of DNA from stamps and envelopes. Eighth International Meeting on Human Identification, Scottsdale, AZ.

Reynolds, J.E., Weber, M.A., Colombo, K., Swienton, A.R., Word, C.J., Yates, P.J., Cotton, R.W. 1997. DNA typing of the transfused individual. *Am. J. Hum. Genet.* 61(4):A1311; Poster presentation at the 47th Annual Meeting of the American Society of Human Genetics, Baltimore, MD.

Reynolds, J.E., Weber, M.A., Colombo, K.A., Swienton, A.R., Word, C.J., Yates, P.J., and Cotton, R.W. 1998. The effects of blood transfusion on RFLP and PCR DNA typing: Forensic casework examples. 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, CA.

Word, C.J., Gregory, S.A., Reynolds, J.E., and Cotton, R.W., 1998. PCR amplification and overcoming inhibition of DNA recovered from adhesive surfaces. 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, CA.

Word, C. J. 1998. DNA quantitation and PCR inhibition issues. Florida DNA Training Session IV: STRs - The Next Generation, Orlando, FL.

Grossweiler, L.L., Gee, M.A., Crance, K.A., Sipes, D.E., Word, C.J., and Reynolds, J.E. 2000. Successful DNA extraction from serum samples. 11th International Symposium on Human Identification, Biloxi, MS.

Maddox, L.O., Suit, B., Koch, K., Higgins, J., Word, C.J., and Cotton, R.W. 2000. Forensic use of Abacus OneStep ABACard[®] test for the identification of the p30 antigen. 11th International Symposium on Human Identification, Biloxi, MS.

Word, C.J., Danielsen, L.A., Reynolds, J.E., Maddox, L.O., and Cotton, R.W. 2000. Multiple-laboratory validation of fluorescent STRs using proficiency test results. 11th International Symposium on Human Identification, Biloxi, MS.

Word, C.J., Reynolds, J.E., Cotton, R.W., Grossweiler, L.L., Maddox, L.O. 2001. Solving old crimes with new DNA testing - contracting "cold" cases. 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. (presented by Melissa B. Thompson)

Cotton, R.W., Word, C.J., Danielsen, L.A., Reynolds, J.E., and Maddox, L.O. 2001. Demonstration of general acceptance of STR data to the court. 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Cotton, R.W., Kriss, J.E., Colombo, K.A., Word, C.J., and Maddox, L.O. 2001. Defining alleles for four Y chromosomal markers without benefit of allelic ladders as part of Y chromosome validation studies. 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Maddox, L.O., Suit, B., Word, C.J., Cotton, R.W. 2001. Advantages of enhanced sensitivity of product gel staining using GelStarTM nucleic acid stain. 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Gee, M.A., Grossweiler, L.L., Crance, K.A., Sipes, D.E., Word, C.J., and Reynolds, J.E. 2001. Recovery of DNA from serum samples. 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.

Word, C.J. 2001. Panelist at Brooklyn Law School Symposium, DNA: Lessons from the Past, Problems for the Future, Brooklyn, NY.

Grgicak, C.M., Reynolds, J.E., Sipes, D.E., Rosier, L.R., Knickerbocker, C.J., Zimmerman, C.E., Shofkom, A.E., Befus, J.K., Cotton, R.W., Word, C.J. 2002. Relative sensitivity comparison between ABI fluorescent detection instruments using data from large scale no-suspect casework. 54th Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA.

Cline, R., Polhamus, C., Winebrenner, L., Leisy, C., Heller, A., Cicco, M., Grossweiler, L., Kokoszka, J. E., and Word, C. J. 2002. The night the lights went out in Germantown, An amplification study. 13th International Symposium on Human Identification, Phoenix, AZ.

Grgicak, C., Sipes, D.E., Grossweiler, L.L., Cotton, R.W., Word, C.J. 2003. Comparative Analysis of the DNA IQTM and QIAamp DNA[®] Extraction Kits for the Processing of Forensic Evidentiary Samples. 55th Annual Meeting of the American Academy of Forensic Sciences, Chicago, IL.

Grossweiler, L.L., Word, C.J., Maddox, L.O., 2003. Decision Branches for Testing of No Suspect Casework. 55th Annual Meeting of the American Academy of Forensic Sciences, Chicago, IL.

Word, C.J. Co-presenter 2005. Presenting DNA Evidence in Court. Sixteenth International Symposium on Human Identification, Dallas, TX

Word, C.J. 2006. Presented Workshop: Statistics in the Courtroom. 5th Annual Bode East Coast Advanced DNA Technology Workshop, Captiva Island, FL

Word, C.J. and Clarke, G. W. 2006. Presented Workshop: Courtroom Testimony: What You Need to Know. 17th Annual International Symposium on Human Identification, Nashville, TN

Word, C.J. and Dale, W. M. 2006. Quality Management System Concept and Tools “Mistakes Happen-What to do when it Happens to you & How to Prevent Them”. 17th Annual International Symposium on Human Identification, Nashville, TN

Word, C.J. and Clarke, G. W. 2007. Presented Workshop: Expert Witness Testimony. 18th Annual International Symposium on Human Identification, Hollywood, CA.

Word, C.J. 2009. Presented Workshop: Expert Witness Testimony for New and Advanced DNA Analysts. Albany, NY

Word, C.J. 2009. What is LCN? Definitions and Challenges. 20th International Symposium on Human Identification, Las Vegas, NV

Word, C.J., Cotton, R.W., Grgicak, C., Butler, J. and Coble, M. 2010. Mixture Interpretation: Principles, Protocols, Practice Workshop at 21st International Symposium on Human Identification, San Antonio, TX

Word, C.J. 2011. DNA Testing – Can Anyone be Excluded? Bode West meeting, San Diego, CA

Word, C.J. 2011. Achieving Neutrality as an Expert, Bode West meeting, San Diego, CA

Word, C.J., Cotton, R.W., Grgicak, C.M., Coble, M.D., and Butler, J.M. 2011. Mixture Interpretation: Principles, Protocols, Practice Workshops in Florida, Texas, Michigan and Arizona

Word, C.J. 2011. Mixture Interpretation. Green Mountain DNA Conference, Burlington, VT

Word, C.J., Cotton, R.W., Grgicak, C.M., Coble, M.D., and Butler, J.M. 2011. Mixture Interpretation: Using Scientific Analysis Workshop at 22nd International Symposium on Human Identification, National Harbor, MD

Cotton, R.W., Butler, J.M., Coble, M. D., Grgicak, C.M., Word, C.J., and Gunn, L.M. 2011. SWGDAM Mixture Interpretation Guidelines: Successes, Issues and Suggested Future Directions. Poster presented at 22nd International Symposium on Human Identification, National Harbor, MD

Cotton, R.W., Butler, J.M., Coble, M. D., and Word, C.J. 2012. DNA Mixture Interpretation Workshop. The NIJ Conference 2012, Arlington, VA

Word, C.J. 2012. “New and Improved” Technology – Where Have We Come and Where Do We Need to Go? Green Mountain DNA Conference, Burlington, VT

Word, C.J., Butler, J.M., Coble, M. D., Grgicak, C.M. and Cotton, R.W. 2012. 2012 Mixture Interpretation Workshop: Mixtures Using Sound Statistics, Interpretation and Conclusions. 23rd International Symposium on Human Identification, Nashville, TN

Word, C.J. Challenges and Impact of DNA Interpretation for Forensic Analysis. 2013. 29th International Symposium on MicroScale Bioseparations, University of Virginia, Charlottesville, VA

Word, C.J. Current Issues of DNA Testing. 2013. NACDL & CACJ’s 6th Annual Forensic Science & the Law Conference “Making Sense of Science VI”, Las Vegas, NV

Word, C.J. Different Assumptions & Different Conclusions. 2013. NIST DNA Mixture Interpretation Workshop & Webcast, with Butler, J.M., Coble, M.D., Cotton, R.W., Heidebrecht, B., Gaithersburg, MD

Word, C.J. Complex Mixtures. 2013. NIST DNA Mixture Interpretation Workshop & Webcast, with Butler, J.M., Coble, M.D., Cotton, R.W., Heidebrecht, B., Gaithersburg, MD

Word, C.J., Cotton, R., Butler, J., Coble, M. and Grgicak, C. 2013. A Clarion Call to Improve the Underlying Science, Laboratory Efficiency and Cost Associated with Testing of Complex DNA Mixtures and Interpretation. ASCLD 40th Anniversary Meeting, Durham, NC

Word, C.J. 2013. Complex Mixture Interpretation Issues. 2nd Annual Advanced DNA Technology Workshop – Bode Mid-Atlantic meeting, Charlottesville, VA

Word, C.J., Buzzell, L.H. III, Scoville, S.G., Spurgeon, T. 2013. Expert Witness Testimony Workshop. 24th International Symposium on Human Identification. Atlanta, GA

Word, C.J. 2013. Complex Mixture Fundamentals. DNA Technical Leader Summit. Norman, OK

Word, C.J. 2013. Recent Issues Seen in Court. DNA Technical Leader Summit. Norman, OK

Word, C.J. 2013. Court Admissibility Considerations. DNA Technical Leader Summit. Norman, OK

Butler, J.M., Word, C.J., Coble, M. 2014. DNA Mixture Interpretation: History, Challenges, Statistical Approaches, and Solutions. 66th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA

Word, C.J. 2014. Science of the Current Generation. MAAFS 2014 Winter Workshop: TARDIS of Molecular Biology, Manassas, VA

Word, C.J. 2014. New Aspects of Testimony. MAAFS 2014 Winter Workshop: TARDIS of Molecular Biology, Manassas, VA

Word, C.J. 2014. Scientific Neutrality in Expert Witness Testimony. Plenary Session co-presented with Lewis Buzzell III, J.D. and Scott Scoville, J.D. MAAFS 2014 Annual Meeting, State College, PA

Word, C.J. 2014. Why Do We Need to Consider Probabilistic Modeling? NIST DNA Analyst Webinar Series: Probabilistic Genotyping and Software Programs (Part 1)

Word, C.J. 2014. Why Do We Need Probabilistic Modeling? Green Mountain DNA Conference, Burlington, VT

Word, C.J. 2014. Why Do We Need Probabilistic Software? and Reporting Likelihood Ratios & Court, Almost Everything You Wanted to Know About Probabilistic Software Workshop, Co-Chair of Workshop, International Symposium on Human Identification, Phoenix, AZ

Word, C.J. 2014. Complex DNA Mixtures: Issues in Interpretation, The Center for Forensic Science Research & Education, Advanced Topics for Human Identification & Data Interpretation, Philadelphia, PA

Word, C.J. 2015. Scientific Neutrality in Expert Witness Testimony Workshop. “Role and Responsibilities of the Forensic Science Expert Witness” and “Preparing for Court Testimony.” Co-presented with Lewis Buzzell III, J.D., Christopher Plourd, J.D., Ronald Reinstein, J.D. and Tammy Spurgeon, J.D. American Academy of Forensic Sciences 2015 Annual Meeting, Orlando, FL

Word, C.J. 2015. Errors in DNA Testing: Lessons Learned – A Retrospective Look. American Academy of Forensic Sciences 2015 Annual Meeting, Orlando, FL

Word, C.J. 2015. An Application of the Kipling Method to DNA Validation in the 21st Century Workshop. “Introduction to Validation” and “From Validation to SOP.” Co-presented with Michael Coble, Ph.D. and Robin W. Cotton, Ph.D., American Society of Crime Laboratory Directors (ASCLD) 42nd Annual Meeting: Excellence in Forensic Leadership – Policy and Practice in the 21st Century, Washington, DC

Word, C.J. 2015. Errors in Interpretation of DNA Profile Data. International Symposium on Forensic Science Error Management – Detection, Measurement and Mitigation, Crystal City, VA

Word, C.J. 2015. Errors in a DNA Testing Laboratory. International Symposium on Forensic Science Error Management – Detection, Measurement and Mitigation, Crystal City, VA

Word, C.J. 2015. What Does This Statement Really Mean? (poster) 26th Congress of the International Society for Forensic Genetics. Krakow, Poland

Word, C.J. 2015. Scientific Perspective of Current Admissibility Challenges. In “Why are We Having DNA Admissibility Hearings?” panel discussion. 26th International Symposium on Human Identification, Dallas, TX

Word, C.J. 2016. Limitations of Current DNA Testing: Information That May Not Be in Reports. American Academy of Forensic Sciences 2016 Annual Meeting, Las Vegas, NV

Word, C.J. 2016. What Errors Are We Looking For and How Can We Look For More? American Academy of Forensic Sciences 2016 Annual Meeting, Las Vegas, NV

Word, C.J. 2016. Changes in Guidelines Governing Mixture Interpretation: New SWGDAM Guidelines, Population Database Problems & Implication for Post-Conviction Cases, NACDL In the Mix? Dealing With DNA, Cognitive Bias & Habeas in the Innocence Case, San Antonio, TX

Word, C.J. 2016. Final Reports: Do They Say What We *Really* Mean? Mid-Atlantic Association of Forensic Scientists Annual Meeting, Richmond, VA

Word, C.J. 2016. Probabilistic Genotyping: Issues and Research Needs. Gordon Research Conference: Forensic Analysis of Human DNA, Waterville Valley, NH

Word, C.J. and Coble, M.D. (co-chair) 2016. Validation and Mixture Interpretation SOPs Workshop. 27th International Symposium on Human Identification, Minneapolis, MN

Word, C.J. and Cotton, R.W. (co-chair) 2016. Errors in Forensic Testing: Detection, Management & Resolution Workshop. 27th International Symposium on Human Identification, Minneapolis, MN

Word, C.J., Buzzell III, L.H., Scoville, S. (co-chair) 2017. Errors with Evidence and the Legal System – Be Prepared! Workshop. International Forensic Science Error Management Symposium, Gaithersburg, MD

Word, C.J. 2017. To Err is Human: We Know We are Going to Err, So What Do We Do? Workshop. 28th International Symposium on Human Identification, Seattle, WA

Word, C.J., Cotton, R.W., Paavola, E.C. 2018. Post-Conviction Relief: The Many Errors Leading to a Miscarriage of Justice. American Academy of Forensic Sciences 2018 Annual Meeting, Seattle, WA

Word, C.J. 2018. Root Cause Analysis in Forensic Laboratories Workshop. 29th International Symposium on Human Identification, Phoenix, AZ

Word, C. J. 2018. Validation and Verification; in Systems Thinking and DNA Mixtures: Dynamic Models, Optimization, Validation and Inference Workshop, Catherine Grgicak (chair). 29th International Symposium on Human Identification, Phoenix, AZ

Word, C.J. and Frappier, R. 2019. Casework Context in DNA Mixture Interpretation Principles: Observations from a NIST Scientific Foundation Review Workshop, John Butler and Sheila Willis (chairs) 71st Annual Meeting of the American Academy of Forensic Sciences, Baltimore, MD

Word, C.J. and Degnan, H., Rosenblatt, T. and Valerio, R. 2019. Justice Cannot Happen in a Vacuum: *Towards A Better Representation of the Science, The Client, and The Case Through Open Communication*, Joint Criminalistics/Jurisprudence Interdisciplinary Session, 71st Annual Meeting of the American Academy of Forensic Sciences, Baltimore, MD

Word, C.J. 2019. Post-conviction DNA Testing, Promega Technology Tour, Richmond, VA

Word, C.J. and Friedman, J. 2019. DNA Post-conviction Testing: The Science and the Law, Eighth National Seminar on Forensic Evidence and the Criminal Law, Denver, CO

Word, C.J., Bille, T., Kaplan, M. and Plourd, C. 2019. Interpreting and Reporting Contaminated DNA Profiles Workshop, 30th International Symposium on Human Identification, Palm Springs, CA

Word, C.J. and Butler, J. 2019. Keys to Evaluating Published Data and Summarizing Your Validation Studies Workshop, 30th International Symposium on Human Identification, Palm Springs, CA

Word, C.J. 2020. Biology/DNA Standards and Best Practices Developed by OSAC & ASB Webinar Series – Part 2 – Mixture Interpretation Validation, and Protocol Development and Verification, Promega Corporation Webinar Series.

Word, C.J. 2020. New Standards for Forensic DNA Testing Laboratories, 31st International Symposium on Human Identification, virtual

Word, C.J., Butler, J., Cotton, R. and Prinz, M. 2021. A Review of Training Standards in MVPs (Most Valuable Papers) of Forensic DNA workshop, 73rd Annual Meeting of the American Academy of Forensic Sciences, virtual

Word, C.J., Buzzell, L., and Valeria, R. 2022. Testimony in US Courts Workshop, 29th Congress of the International Society for Forensic Genetics, Washington, DC

Word, C.J. 2022. New Standards and Best Practice Recommendations for Forensic DNA Testing Laboratories poster, 29th Congress of the International Society for Forensic Genetics, Washington, DC

Word, C.J. 2022. New Standards and Best Practice Recommendations for Forensic DNA Testing, Northeastern Association of Forensic Scientists Annual Meeting, Niagara Falls, NY

Word, C.J. 2022. New Standards and Best Practice Recommendations for Forensic DNA Testing, 33rd International Symposium on Human Identification, National Harbor, MD

Seminars/Workshops Attended

33rd International Symposium on Human Identification, National Harbor, MD, 2022

Northeastern Association of Forensic Scientists Annual Meeting, Niagara Falls, NY, 2022

29th Congress of the International Society for Forensic Genetics, Washington, DC, 2022

DNA Mixture Interpretation: Basic Workshop, 29th Congress of the International Society for Forensic Genetics, Washington, DC, 2022

Gordon Research Conference, Forensic Analysis of Human DNA, Mount Snow, VT, 2022

74th Annual Meeting of the American Academy of Forensic Sciences, virtual, 2022

32st International Symposium on Human Identification, virtual, 2021

Bode 2021 Virtual Forensic DNA Conference

73rd Annual Meeting of the American Academy of Forensic Sciences, virtual, 2021

31st International Symposium on Human Identification, virtual, 2020

72nd Annual Meeting of the American Academy of Forensic Sciences, Anaheim, CA, 2020

An Update on Strengthening Forensic Science in the United States: A Decade of Development, Washington, D.C., 2019

Evidence Management Conference at NIST, Gaithersburg, MD, 2019

30th International Symposium on Human Identification, Palm Springs, CA, 2019

Eighth National Seminar on Forensic Evidence and the Criminal Law, Denver, CO, 2019

Forensic Science Research Innovation to Implementation Symposium (RI2I) at NIST, Gaithersburg, MD 2019

Promega Technology Tour, Richmond, VA, 2019

DNA Mixture Interpretation Principles: Observations from a NIST Scientific Foundation Review workshop, 71st Annual Meeting of the American Academy of Forensic Sciences, Baltimore, MD, 2019

71st Annual Meeting of the American Academy of Forensic Sciences, Baltimore, MD, 2019

Forensics at NIST, Gaithersburg, MD, 2018

29th International Symposium on Human Identification, Phoenix, AZ, 2018

Forensic Software-Issues of Validation and Verification Workshop, 29th International Symposium on Human Identification, Phoenix, AZ, 2018

Gordon Research Conference: Enhancing Human ID Through Development of Novel Methods and Emerging Applications, Newry, ME, 2018

70th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA, 2018

28th International Symposium on Human Identification, Seattle, WA, 2017

Rapid DNA Technology Forum, Alexandria, VA, 2017

International Forensic Science Error Management Symposium, Gaithersburg, MD, 2017

Sources of Bias for Forensic Investigations: Spotting and Limiting Their Influence Workshop. International Forensic Science Error Management Symposium, Gaithersburg, MD, 2017

Quantifying the Weight of Forensic Evidence, Gaithersburg, MD, 2017

69th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA, 2017

Promega Technology Tour Seminar, Washington, DC, 2016

27th International Symposium on Human Identification, Minneapolis, MN, 2016

HITA Workshop – Determining Phenotypes from Genotypes. 27th International Symposium on Human Identification, Minneapolis, MN, 2016

Gordon Research Conference: Forensic Analysis of Human DNA, Waterville Valley, NH, 2016

Mid-Atlantic Association of Forensic Scientists Annual Meeting, Richmond, VA, 2016

Technical Colloquium Quantifying the Weight of Forensic Evidence, NIST, Gaithersburg, MD, 2016

In the Mix? Dealing With DNA, Cognitive Bias & Habeas in the Innocence Case, NACDL, San Antonio, TX, 2016

68th Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV, 2016

26th International Symposium on Human Identification, Dallas, TX, 2015

HITA Workshop – Addressing Social Issues with Human Identification: An Interactive Workshop. 26th International Symposium on Human Identification, Dallas, TX, 2015

Forensic Mixtures: Assessment, Analysis and Technology: Current Methods, New Approaches and Disruptive Technologies Workshop. 26th International Symposium on Human Identification, Dallas, TX, 2015

Countdown to 2017: Internal Validation of the New CODIS Loci Workshop. 26th International Symposium on Human Identification, Dallas, TX, 2015

26th Congress of the International Society for Forensic Genetics. Krakow, Poland, 2015

Beyond DNA-Profiling: RNA-Profiling, Transfer and Persistence – What is it and How did it Get There? Workshop. 26th Congress of the International Society for Forensic Genetics. Krakow, Poland, 2015

The New Y Chromosome Haplotype Reference Database and Optimized Approaches for the Forensic Y-STR Analysis, Workshop. 26th Congress of the International Society for Forensic Genetics. Krakow, Poland, 2015

Ethical, Legal and Social Issues in Forensic Genetics, Workshop. 26th Congress of the International Society for Forensic Genetics. Krakow, Poland, 2015

International Symposium on Forensic Science Error Management – Detection, Measurement and Mitigation, Crystal City, VA, 2015

American Society of Crime Laboratory Directors (ASCLD) 42nd Annual Meeting: Excellence in Forensic Leadership – Policy and Practice in the 21st Century, Washington, DC, 2015

67th Annual Meeting of the American Academy of Forensic Sciences, Orlando, FL, 2015

Advanced Topics for Human Identification & Data Interpretation, The Center for Forensic Science Res2015earch & Education, Philadelphia, PA, 2014

25th International Symposium on Human Identification, Phoenix, AZ, 2014

New Autosomal and Y-STR Loci and Kits, International Symposium on Human Identification, Phoenix, AZ, 2014

Interpretation of Complex DNA Mixtures: The Biological and Statistical Perspectives, International Symposium on Human Identification, Phoenix, AZ, 2014

Almost Everything You Wanted to Know About Probabilistic Software, International Symposium on Human Identification, Phoenix, AZ, 2014

Emerging Forensic Genomic Applications, Greenville, NC, 2014

Green Mountain DNA Conference, Burlington, VT, 2014

NIST DNA Analyst Webinar Series: Probabilistic Genotyping and Software Programs (Part 1), Gaithersburg, MD, 2014

Mid-Atlantic Association of Forensic Scientists Annual Meeting, State College, PA, 2014

NFI Symposium: Interpretation of complex DNA profiles, The Hague, Netherlands, 2014

MAAFS 2014 Winter Workshop: TARDIS of Molecular Biology, Manassas, VA, 2014

DNA Technical Leader Summit, Norman, OK, 2013

2nd Annual Advanced DNA Technology Workshop – Bode Mid-Atlantic meeting, Charlottesville, VA, 2013

24th International Symposium on Human Identification, Atlanta, GA, 2013

23rd Congress of the International Society for Forensic Genetics 2013, Melbourne, Australia, 2013

Advanced Principles in Forensic DNA Evidence Interpretation, International Society for Forensic Genetics 2013, Melbourne, Australia, 2013

Writing and Reviewing Scientific Papers Workshop, International Society for Forensic Genetics 2013, Melbourne, Australia, 2013

American Society of Crime Laboratory Directors (ASCLD) 40th Annual Meeting: The Business Behind the Science, Durham, NC, 2013

NIST DNA Mixture Interpretation Workshop & Webcast, Gaithersburg, MD, 2013

NACDL & CACJ's 6th Annual Forensic Science & the Law Conference "Making Sense of Science VI", Las Vegas, NV, 2013

29th International Symposium on MicroScale Bioseparations, University of Virginia, Charlottesville, VA, 2013

65th Annual Meeting of the American Academy of Forensic Sciences, Washington, D.C., 2013

23rd International Symposium on Human Identification, Nashville, TN, 2012

Green Mountain DNA Conference, Burlington, VT, 2012

The NIJ Conference 2012, Turning to Science: Enhancing Justice, Improving Science, Reducing Costs, Arlington, VA, 2012

22nd International Symposium on Human Identification, National Harbor, MD, 2011

Green Mountain DNA Conference, Burlington, VT, 2011

The NIJ Conference 2011, Translational Criminology: Shaping Policy and Practice with Research, Crystal City, VA, 2011

Bode West meeting, San Diego, CA, 2011

63rd Annual Meeting of the American Academy of Forensic Sciences, Chicago, IL, 2011

NIJ/OLES-funded Research Symposium, Office of Law Enforcement Standards, National Institutes of Standards and Technology, Gaithersburg, MD, 2010

American Society of Human Genetics, 60th Annual meeting, Washington, D.C., 2010

21st International Symposium on Human Identification, San Antonio, TX, 2010

American Society of Crime Laboratory Directors Meeting, Baltimore, MD, 2010

15th National CODIS Conference, Reston, VA, 2009

20th International Symposium on Human Identification, Las Vegas, NV, 2009

Ethics Workshop, 20th International Symposium on Human Identification, Las Vegas, NV, 2009

The NIJ Conference 2009, Crystal City, VA, 2009

14th National CODIS Conference, Crystal City, VA, 2008

19th International Symposium on Human Identification, Hollywood, CA, 2008
Ethics and Forensic Science Workshop, 19th International Symposium on Human Identification, Hollywood, CA, 2008

Troubleshooting Common Laboratory Problems Workshop, 19th International Symposium on Human Identification, Hollywood, CA, 2008

The NIJ Conference 2008; Criminal Justice Research, Development and Evaluation in the Social and Physical Sciences, Crystal City, VA, 2008

60th Annual Meeting of the American Academy of Forensic Sciences, Washington, D.C., 2008

Human DNA Quantification Using Real Time PCR Assays Workshop, 60th Annual Meeting of the American Academy of Forensic Sciences, Washington, D.C., 2008

DNA Mixture Interpretation: Principals and Practice in Component Deconvolution and Statistical Analysis Workshop, 60th Annual Meeting of the American Academy of Forensic Sciences, Washington, D.C., 2008

Eighteenth International Symposium on Human Identification, Hollywood, CA, 2007.

The NIJ Conference 2007; Forensic DNA: Tools, Technology, and Policy, Arlington, VA, 2007

Grant Progress Assessment Training, Washington, D.C., 2007

HID 3130 Systems Training Program, Applied Biosystems, Rockville, MD, 2007

Twelfth National CODIS Conference, Arlington, VA, 2006

Seventeenth Annual International Symposium on Human Identification, Nashville, TN, 2006

5th Annual Bode East Coast Advanced DNA Technology Workshop, Captiva Island, FL, 2006

58th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA, 2006

Eleventh National CODIS Conference, Crystal City, VA, 2005

Sixteenth International Symposium on Human Identification, Dallas, TX, 2005

DNA Auditors Training Class, Quantico, VA, 2004

Tenth National CODIS Conference, Crystal City, VA, 2004

56th Annual Meeting of the American Academy of Forensic Sciences, Dallas, TX, 2004

American Prosecutors Research Institute National Conference: Justice Speaks, Crystal City, VA, 2003

Ninth National CODIS Conference, Lansdowne, VA, 2003

ASCLD/LAB Inspector's Training Class, Harrisburg, PA, 2003

Population Genetics Workshop, Taught by Dr. George Carmody, Rockville, MD, 2003

54th Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA, 2002

Y Chromosome Analysis and its Application to Forensic Casework Workshop, 54th Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA, 2002

Forensic Mitochondrial DNA Analysis: A Community Forum Workshop, 54th Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA, 2002

Statistics II – Forensic Mixture Interpretation & Analysis, Thirteenth International Symposium on Human Identification, Phoenix, AZ, 2002

Thirteenth International Symposium on Human Identification, Phoenix, AZ, 2002

Brooklyn Law School Symposium, DNA: Lessons from the Past, Problems from the Future, Brooklyn, NY, 2001

Twelfth International Symposium on Human Identification, Promega, Biloxi, MS, 2001

DNA Audit Class, Quantico, VA, 2000

52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, NV, 2000

Fifth Annual Conference on the Future of DNA: Implications for the Criminal Justice System, New York, NY, 2000

Florida DNA Training Session V: DNA 2000, Miami Lakes, FL, 2000

Eleventh International Symposium on Human Identification, Promega, Biloxi, MS, 2000

Casework Guidelines and Complex Mixture Interpretation Workshop, Promega, Biloxi, MS, 2000

Statistics Workshop, Promega, Orlando, FL, 1999

Mitochondrial DNA Sequence Analysis in Forensic Casework Methods and Issues Workshop, Promega, Orlando, FL, 1999

Tenth International Symposium on Human Identification, Promega, Orlando, FL, 1999

50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, CA, 1998

Florida DNA Training Session IV: STRs - The Next Generation, Orlando, FL, 1998

Ninth International Symposium on Human Identification, Promega, Orlando, FL, 1998

49th Annual Meeting of the American Academy of Forensic Sciences, New York, NY, 1997

Eighth International Meeting on Human Identification, Promega, Scottsdale, AZ, 1997

A Workshop in Statistics for Forensic Scientists, St. Petersburg Junior College, St. Petersburg, FL, 1996

The Seventh International Symposium on Human Identification, Promega, Scottsdale, AZ, 1996

Northwest Association of Forensic Sciences, Salt Lake City, UT, 1996

Human Identification Users Meeting, Rockville, MD, 1996

47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA, 1995

Florida DNA Training Session III: Advanced PCR Applications, Altamonte Springs, FL, 1995

The Sixth International Symposium on Human Identification, Promega, Scottsdale, AZ, 1995

The Mid-Atlantic Association of Forensic Scientists Present “The Gilbert and Trias Murders,” Gaithersburg, MD, 1995

46th Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, 1994

The Fifth International Symposium on Human Identification, Promega, Scottsdale, AZ, 1994

BioEast '94 Workshop, Washington, D.C., 1994

45th Annual Meeting of the American Academy of Forensic Sciences, Boston, MA, 1993

The Second International Symposium on the Forensic Aspects of DNA Analysis, Quantico, VA, 1993

Florida DNA Training Session II: PCR Applications, Orlando, FL, 1993

The Fourth International Symposium on Human Identification, Promega, Scottsdale, AZ, 1993

44th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA, 1992

The Third International Symposium on Human Identification, Promega, Scottsdale, AZ, 1992

AmpliType HLA DQ α Forensic DNA Amplification and Typing Workshop, 1992.

43rd Annual Meeting of the American Academy of Forensic Sciences, Anaheim, CA, 1991

The Second International Symposium on Human Identification, Promega, Madison, WI, 1991

Eighth International Congress of Human Genetics, Washington, D.C., 1991

Association of Biotechnology Companies, Washington, D.C., 1991

International Symposium on Continuous Cell Lines - An International Workshop on Current Issues, Bethesda, MD, 1991

The Institute of Continuing Legal Education in Georgia, Criminal Law and DNA meeting, Atlanta, GA, 1990

California Association of Criminalist Meeting, Long Beach, CA. (taught course), 1990

Revised November 7, 2022