

Curriculum Vitae
Rick W. Staub, Ph.D.

Education

Ph.D. Genetics (Minor in Molecular Biology), University of Arizona, Tucson, AZ 1984

M.S. Genetics, University of Arizona, Tucson, AZ 1978

B.S. Mathematics with Honors, University of Wisconsin, Madison, WI 1974

Professional Experience

Senior Manager and Laboratory Director, Orchid Cellmark, Dallas, TX, 2004 to present.

NYPD	Scientific Director	No-suspect casework
State of Illinois	Scientific Director	Suspect and no-suspect casework
State of Louisiana	Scientific Director	No-suspect casework
State of New Jersey	Scientific Director	Suspect and no-suspect casework
State of Oklahoma	Scientific Director	Suspect and no-suspect casework
Fort Worth PD	Scientific Director	Suspect and no-suspect casework
State of Wisconsin	Scientific Director	No-suspect casework
Harris County SO	Scientific Director	Suspect, no-suspect, cold case casework
Houston PD	Scientific Director	Suspect, no-suspect casework and post conviction retesting

Clinical Assistant Professor, University of North Texas Health Science Center, Department of Pathology and Anatomy, Fort Worth, TX, 2002 to present.

Director of Operations, Orchid GeneScreen and Orchid Cellmark, Dallas, TX, 2000 to 2004.

Director, Identigene Inc., Houston, TX, 1994 to 2000.

Director, Laboratory for Genetic Services, Houston, TX, 1993 to 1998.

Director, Genetic Design, Greensboro, NC, 1992 to 1993.

Associate Director, Genetic Design, Greensboro, NC, 1990 to 1992.

Assistant Professor of Biology, Carleton College, Northfield, MN 1984 to 1990.

Biology Instructor, Carleton College, Northfield, MN, 1982 to 1984.

Research Cytogeneticist, University of Arizona, Plant Sciences Department, Tucson, AZ, 1978 to 1982.

Level of Training Completed

Doctoral Laboratory Director since 1992.

Certifications

Laboratory Director by the New York State Department of Health, 10/3/96 to present

Professional Associations

American Academy of Forensic Science

Association of Forensic DNA Analysts and Administrators

Genetics Society of America

American Genetics Association

American Association of Blood Banks

American Association for the Advancement of Science

Sigma Xi Scientific Research Society

National Child Support Enforcement Association Corporate Speakers' Bureau

Teaching Experience

Taught genetics portion of introductory bioenergetics and genetics course plus laboratory, upper level genetics course plus laboratory, advanced level molecular and physiological genetics course plus laboratory, independent studies, seminars and honors in biology at Carleton College. Other courses: one week molecular and microbiological genetic laboratory course as part of Carleton College I.T.T.S. program during summers of 1984, 1986, 1987, 1989, and 1990.

Parentage Testing

Cases evaluated: more than 100,000

Trials: Testified as an expert in the field of disputed paternity in more than 100 cases tried throughout the United States.

Forensic Testing

Cases evaluated: more than 400

Trials: Testified as an expert in the field in more than 20 cases held across the United States

Forensic Contracts Managed

DNA Casework:

Houston Police Department
Fort Worth Police Department
State of Wisconsin Department of Justice
Illinois State Police
New York City Police Department
New Jersey State Police
State of Louisiana Crime Lab
Oklahoma State Bureau of Investigation
State of Alaska Crime Lab
State of Arkansas Crime Lab
Fulton County District Attorney's Office Cold Case Squad

Convicted Felon Databasing:

State of Wisconsin Department of Justice
State of Alaska
State of Arkansas
State of South Dakota
State of North Dakota

State of Massachusetts

Honors

B.S. Mathematics with Honors, University of Wisconsin, Madison, WI 1974

Sigma Xi Scientific Research Society

Publications

Staub, R.W. 1984. The influence of B chromosomes on the susceptibility of maize to gamma irradiation induced DNA damage. Doctoral Dissertation, University of Arizona.

Staub, R.W. 1987. Leaf striping correlated with the presence of B chromosomes in maize. *J. Hered.* 78:71-74.

Staub, R.W. and L.E. Hill. Recovery of an iso-B chromosome in maize and its use in the study of preferential fertilization and nondisjunction of accessory chromosomes. In review (*Genetics*).

Rose, K.L. and R.W. Staub. Centric fission of chromosome 3 in maize resulting in a system for the study of telosome behavior. Submitted to *Science*.

Bever, R.A., R.W. Staub, and B.W. Meehan. 1991. Characterization of five VNTR loci by *Hae* III RFLP analysis: Application to paternity testing. Proceedings from The Second International Symposium on Human Identification. Promega Corporation. p. 103-128.

Staub, R.W. and R.A. Bever. 1992. A comparison of regional VNTR RFLP databases. Proceedings from the Third International Symposium on Human Identification. Promega Corporation. p.191-198.

White, L.D., Shumaker, J.M., Tollett, J.J., and Staub, R.W. 1998. Human Identification by Genotyping Single Nucleotide Polymorphisms (SNPs) Using an APEX Microarray. Proceedings from the Ninth International Symposium on Human Identification. Promega Corporation. <http://www.promega.com/geneticidproc/ussymp9proc/content/07.pdf>

Johnson C.L., Warren J.H., Giles R.C., Staub R.W. 2003. Validation and Uses of a Y-chromosome STR 10-plex for forensic and paternity laboratories. *J. Forensic Sci.* 48:1260-1268.

Analysis of Non-Suspect Samples Lacking Visually Identifiable Sperm Using a Y-STR 10-Plex. Johnson CL, Giles RC, Warren JH, Floyd JI, and Staub RW. (2004) *J Forensic Science*, submitted for publication consideration.

Staub, R.W. 1982. The effect of B chromosomes on the susceptibility of maize to gamma radiation. *New Mexico Journal of Science* 22:16. Paper presented to the 58th Annual Meeting of the SWARM Division of the AAAS, April, 1982.

Staub, R.W. 1982. Striated leaf in maize is related to the presence of B chromosomes. Paper presented to the 26th Annual Meeting of the Arizona-Nevada Academy of Science, April, 1982.

Staub, R.W. 1983. Leaf striping in Black Mexican sweet corn with high numbers of B chromosomes. Paper presented at annual Maize Genetics Conference, March, 1983.

Staub, R.W. 1984. The effect of B chromosomes on repair of gamma radiation induced DNA damage. Paper presented at annual Maize Genetics Conference, March, 1984.

Staub, R.W. and P.M. Laurenson. 1987. Dosage analysis of the D8 allele for dwarfism. *Maize Genet. Coop. News Lett.* 61:79-80.

Staub, R.W. and P.M. Laurenson. 1987. Consistent nondisjunction of B chromosomes in Black Mexican. *Maize Genet. Coop. News Lett.* 61:80.

Staub, R.W. and L.E. Hill. 1987. Recovery of an iso-B chromosome and its use in the study of preferential fertilization and nondisjunction of accessory chromosomes. Poster presented at annual Maize Genetics Conference, March, 1987.

Staub, R.W., D. Beckman, and E. Weck. 1988. *Mu* sequences in plants with B chromosomes. Poster presented at annual Maize Genetics Conference, March, 1988.

Rose, K.L. and R.W. Staub. 1989. Centromeric breakage and meiotic fragment disjunction in maize. Poster presented at Research in Life Sciences Mini-symposium, Iowa State University, March 10-11, 1989.

Staub, R.W. and K.L. Rose. 1989. Centromeric breakage and meiotic fragment disjunction in maize. Poster presented at annual Maize Genetics Conference, March 2-5, 1989.

Staub, R.W. and K.L. Rose. Centromeric breakage and meiotic fragment disjunction in *Zea mays* L. 1989. *Genetics* 122:s26.

Rose, K.L. and R.W. Staub. Isolation and cytological analysis of two telocentric fragments produced by a single centromeric breakage event in maize. Poster presented at Plant Biology Symposium, University of Minnesota Plant Biology Dept. October 25-27, 1989.

Rose, K.L. and R.W. Staub. Centromeric breakage and the recovery of both telocentric fragments. *Maize Genet. Coop. News Lett.* 64:94-95.

DeGuglielmo, M., R.W. Staub, and R.A. Bever. Population Analysis of two recently characterized polymorphic VNTR loci. Poster presented at the Annual Meeting of the Canadian Society of Forensic Sciences. October 2, 1990.

Staub, R.W. 1991. 122nd Annual Summer Conference. Sponsored by the New York Public Welfare Association. Catskill, NY. July 14 - 17, 1991.

Creacy, S.D., B.W. Meehan, R.W. Staub, and R.A. Bever. Allele frequency distribution and characterization of five single-locus probes within and among populations in North America. *American Journal of Human Genetics* 49 (4): 500 (#2854). Poster presented at the 8th International Congress of Human Genetics. October 6 - 11, 1991.

Staub, R.W. 1991. Mock Trial. Paternity Establishment: Issues for the 90's. Sponsored by the North Carolina Support Enforcement Agency. Washington, DC. November 13 - 16, 1991.

Staub, R.W. 1991. 10th Annual New Jersey Child Support Conference, The 2nd Decade: Continuing the Commitment. Sponsored by The New Jersey Child Support Council, Atlantic City, NJ. December 11 - 12, 1991.

Staub, R.W. 1991. Discussion on Various Blood Testing Techniques, How Samples are Analyzed and Interpretation of Results. Sponsored by the Office of Child Support Enforcement, Syracuse, NY. December 17, 1992

Staub, R.W. 1992. Mississippi Child Support Conference. January 15 - 16, 1992.

Staub, R.W. 1992. DNA technology as related to the genetic identification of humans. Seminar presented at High Point University, High Point, NC. February 4, 1992.

Staub, R.W. 1992. Polymerase chain reaction in DNA technology. Seminar presented at High Point University, High Point, NC. February 4, 1992.

Staub, R.W. 1992. Agricultural Biotechnology: Plant Transformation Techniques. Seminar presented to the Biology Department at the University of North Carolina at Greensboro. March 5, 1992.

Staub, R.W. 1992. North Dakota Family Support Council. Third Annual Conference. Bismarck, ND. March 30 - April 1, 1992.

Staub, R.W. 1992. How to Read/Interpret HLA/DNA Results. Seminar presented to the District Attorney Appalachian Judicial Circuit. Child Support Recovery Unit. May 14, 1992.

Staub, R.W. 1992. Interpretation of Results. Seminar presented at the National Child Support Enforcement Association Workshop, Paternity Establishment: Issues for the 90's. Honolulu, HI. July 7, 1992.

Staub, R.W. 1992. 41st Annual Training Conference and Exposition, Establishment of Parentage, To Be or Not To Be: Is That the Question? National Child Support Enforcement Association. Annual Conference. Orlando, FL. August 25, 1992.

Staub, R.W. 1992. Understanding HLA Blood Test Results. Conference sponsored by the Arizona Family Support Council. Tucson, Arizona. November 20, 1992.

Staub, R.W. 1992. Interpretation of Results. Seminar presented at the National Child Support Enforcement Association Workshop, Paternity Establishment: Issues for the 90's. Atlantic City, NJ. December 11, 1992.

Staub, R.W. 1993. Interpretation of Results and Understanding Calculations. Sponsored by the State of Louisiana Department of Social Services, Paternity Blood Testing Issues. Baton Rouge, LA. January 14, 1993.

Staub, R.W. 1993. Genetic Identification of Humans. Seminar presented to the High Point University American Chemical Society Affiliates Club at High Point University, High Point, NC. February 2, 1993.

Staub, R.W. 1993. General Overview of HLA and DNA Paternity Blood Testing. Paternity Forum presented at the LCSEA Conference, Lafayette, LA. March 3, 1993.

Staub, R.W., M. DeGuglielmo, and R. Bever. 1993. Comparisons Among Regional VNTR RFLP Racial Databases. Poster presented at The Second International Symposium on Forensic DNA Analysis. Federal Bureau of Investigation Academy. Quantico, VA. March 29 - April 2, 1993.

Staub, R.W. 1993. DNA Typing in Human Identification. Seminar presented to the St. Olaf College Biology Department, Northfield, MN. May 3, 1993.

Staub, R.W. and M. Carrico. 1994. Performing a Paternity Analysis with a Battery of STR Systems Utilizing DNA Obtained from Archived Cytogenetic Slides of Fixed Human Bone Marrow Cells. Poster presented at the Fifth International Symposium on Human Identification. Scottsdale, AZ. October 8-11, 1994.

Matson, R.S., P.J. Coassin, J.B. Rampal, and R.W. Staub. 1995. Probe-target interactions on disposable plastic film based array panels. Poster presented at The Genetic Screening & Diagnosis of Human Disease Conference, Cambridge Healthtech Institute. San Francisco, CA. March 8-10, 1995.

Staub, R.W. and M. Carrico. 1995. Molecular analysis of a mutational event at the HUMHPRTB locus detected by a single child / father non-match at the (AGAT)_n STR region. Poster presented at the Sixth International Symposium on Human Identification. Scottsdale, AZ. October 12-14, 1995.

Endean, D.J., and Staub, R.W. 1995. Update on Mutations at VNTR Loci. Parentage Testing Forum. American Association of Blood Banks Annual Meeting. New Orleans, LA. November 14, 1995.

Staub, R.W. 1996. Who's the Father? Current Trends in Paternity Testing. Seminar presented to the Tennessee Bar Association Conference on 1996 Family Law Issues. Memphis, TN. March 8, 1996. Nashville, TN. March 22, 1996.

Staub, R.W. 1996. Powerful new STR multiplexes for use in human identification. Invited speaker at Cambridge Symposium on DNA Forensics: Science, Practice and Future. April 21-27, 1996. Santa Fe, NM.

Staub, R.W. 1996. Paternity Testing. Presentation at the Third Annual Hot Tips Family Law Seminar. Sponsored by the Family Law Section of the Mississippi Bar. Reservoir Lodge, Ridgeland, MS. May 17, 1996.

Staub, R.W. 1996. Paternity Testing: Key Issues for Family Law Practitioners. Paper presented at the 14th Annual Family Law Institute. Sponsored by the Family Law Section, State Bar of Georgia, Institute of Continuing Legal Education in Georgia. May 23-25, 1996.

Staub, R.W., M.G. Carrico, J.J. Tollett, S. Nye, M. Pirrung, and J.M. Shumaker. 1996. Arrayed primer extension analysis of single nucleotide polymorphisms (SNPs) for human identification. Paper presented at the Seventh International Symposium on Human Identification. Scottsdale, AZ. September 19-21, 1996.

Shumaker, J.M., J.J. Tollett, K.J. Filbin, B.B. Roa, C.S. Richards, S.H. Nue, R. Staub, and M. Pirrung. 1996. Rapid detection of BRCA1, p53, and CFTR mutations by arrayed primer extension. *Am. J. Hum. Genet.* 59:s1647.

Smith, J.L., S.W. Cheung, R.W. Staub, and A. Faucett. 1996. Identification of mosaicism for a small Y marker chromosome cell line by F.I.S.H. *Am. J. Hum. Genet.* 59:s1921.

Carrico, M.G. and R.W. Staub. 1997. Death, DNA and Dollars: The story of one man's posthumous struggle with his infidelity. Poster presented at the Eighth International Symposium on Human Identification. Scottsdale, AZ. September 17-21, 1997.

Staub, R.W. 1997. The utilization of complex and simple tandem repeats in human identity typing: Experiences from a commercial laboratory. Invited speaker at Cambridge Symposium on DNA Forensics: Science, Practice and Future Prospects. November 17-18, 1997. McLean, VA.

White, L.D., J.M. Shumaker, J.J. Tollett, and R.W. Staub. 1998. Human identification by genotyping single nucleotide polymorphisms (SNPs) using an APEX microarray. Paper presented at the Ninth International Symposium on Human Identification. Orlando, FL. October 8-10, 1998.

Warren, J.H., M.G. Carrico, and R.W. Staub. 1998. Real time paternity testing utilizing a novel 11 system STR multiplex analyzed on an ABI Prism 377 DNA Sequencer. Poster presented at the Ninth International Symposium on Human Identification. Orlando, FL. October 8-10, 1998.

White, L.D., J.M. Shumaker, J.J. Tollett, and R.W. Staub. 1998. A microarray chip-based method for scoring single nucleotide polymorphisms (SNPs). *Am. J. Hum. Genet.* 63:A244.

Staub, R.W., 1999. Single nucleotide polymorphism (SNP) analysis for human identification using APEX microarrays. Invited speaker at Cambridge Healthtech Institute's Third Annual Symposium on DNA Forensics. June 13-15, 1999. McLean, VA.

Staub, R.W., 1999. STRs v. SNPs for paternity testing. Paper presented at the Tenth International Symposium on Human Identification. Orlando, FL. September 29 - October 2, 1999.

White, L.D., Tollett, J.J., Liles, L.A., Teske, J.P., Warren, J.H., Staub, R.W. The APEX SNP identity chip and the IDENTIPLEX™ STR identity testing system. Presented at the 1999 Annual Meeting of the American Society of Human Genetics.
<http://genetics.faseb.org/genetics/ashg99/f2334.htm>

Staub, R.W., 2000. Luminex technology for paternity testing. Paper presented at the Parentage Testing Forum of the AABB National Conference. Washington, D.C., November 4, 2000.

Staub, R.W., 2001. Implementation of a 96 capillary electrophoresis instrument with PowerPlex 16 in a high-volume genotyping laboratory. Paper presented at the Twelfth International Symposium on Human Identification. Biloxi, MS. October 11, 2001.

Johnson, C.L., A. Eisenberg, J. Planz, J.E. Warren, J.H. Warren, and R.W. Staub. 2002. Validation of a Y-chromosome STR 10-plex. Poster presented at the 13th International Symposium on Human Identification. Phoenix, AZ. October 7-10, 2002.

Staub, R.W. 2003. Optimization of a Y-STR multiplex for use on forensic specimens. Invited speaker at Tennessee Bureau of Investigation's "Forensic Applications of Y-chromosome DNA Typing Symposium." May 12, 2003 in Nashville, TN.

Johnson, C.L., J.H. Warren, R.C. Giles, and R.W. Staub. 2003. Using Y-chromosome multiplexes in forensic and paternity laboratories. Poster presented at the 14th International Symposium on Human Identification. Phoenix, AZ. September 30 – October 2, 2003.

Brenner, C.H. and R.W. Staub. 2003. Can DNA solve this? Poster presented at the 14th International Symposium on Human Identification. Phoenix, AZ. September 30 – October 2, 2003.

Anguiano, E., C. Johnson, R. Giles, R. Staub, and J. Baisch. 2003. The use of single nucleotide polymorphism (SNP) markers from the NRY region of the human Y chromosome for genealogical and forensic applications. Poster presented at the 14th International Symposium on Human Identification. Phoenix, AZ. September 30 – October 2, 2003.

Johnson C.L., Giles R.C., Staub R.W. 2004. Examination of non-suspect samples lacking sperm using a Y-STR 10-plex. Proceedings of the American Academy of Forensic Sciences.

Johnson C.L., Warren J.H., Giles R.C., Staub R.W. 2003. Using Y-chromosome multiplexes in forensic and paternity laboratories. Proceedings of the 14th International Symposium on Human Identification.

Johnson C.L., Warren J.H., Floyd J.I., Staub R.W. 2004. Casework experience using Y-STRs. Proceedings of the 15th International Symposium on Human Identification.

Seminars/Workshops/Continuing Education

Human Genome Project and Polymerase Chain Reaction (PCR) Problems. North Carolina Biotechnology Center. North Carolina Agricultural and Technical State University, Greensboro, NC, November 29, 1990.

American Society of Human Genetics, Annual Meeting, Cincinnati, OH, October 18 - 19, 1990.

Second International Symposium on Human Identification, Madison, WI,
April 10 - 11, 1991.

Parentage Testing Forum, American Association of Blood Banks, Baltimore, MD, November
12, 1991.

Third International Symposium on Human Identification, Scottsdale, AZ,
April 30 - May 2, 1992.

Forensic Statistics. Arizona State University College of Law, Tempe, AZ,
March 18 - 21, 1993.

Introduction to PCR, Biotechnology Training Programs, Inc., Duke University, Durham, NC,
May 19, 1993.

Fourth International Symposium on Human Identification, Scottsdale, AZ,
September 25-30, 1993.

Fifth International Symposium on Human Identification, Scottsdale, AZ,
October 8-11, 1994.

Parentage Testing Forum, American Association of Blood Banks, San Diego, CA, November
15, 1994.

Sixth International Symposium on Human Identification, Scottsdale, AZ,
October 12-14, 1995.

Parentage Testing Forum, American Association of Blood Banks, New Orleans, LA,
November 14, 1995.

Seventh International Symposium on Human Identification, Scottsdale, AZ,
September 19-21, 1996.

Parentage Testing Forum, American Association of Blood Banks, Orlando, FL. October 15,
1996.

Eighth International Symposium on Human Identification, Scottsdale, AZ,
September 17-21, 1997.

Parentage Testing Special Interest Group Session, American Association of Blood Banks,
Denver, CO, October 18, 1997.

Expert Witness Workshop, Ninth International Symposium on Human Identification, Orlando, FL, October 6, 1998.

Ninth International Symposium on Human Identification, Orlando, FL, October 8-10, 1998.

Tenth International Symposium on Human Identification, Orlando, FL, September 29 - October 2, 1999.

52nd Annual Meeting of the American Academy of Forensic Sciences. Reno, NV. February 21-26, 2000.

Eleventh International Symposium on Human Identification, Biloxi, MS, October 10 - 13, 2000.

53rd Annual Meeting of the American Academy of Forensic Sciences. Seattle, WA. February 19-24, 2001.

Twelfth International Symposium on Human Identification, Biloxi, MS, October 10 - 13, 2001.

54th Annual Meeting of the American Academy of Forensic Sciences. Atlanta, GA. February 11-16, 2002.

Thirteenth International Symposium on Human Identification, Phoenix, AZ, October 7-10, 2002.

55th Annual Meeting of the American Academy of Forensic Sciences. Chicago, IL. February 17-22, 2003.

George Carmody, Ph.D. – Statistical Analysis of Forensic DNA Evidence workshop. Orchid Cellmark. April 28-30, 2003.

Forensic Applications of Y-Chromosome DNA Typing Symposium. Hosted by the Tennessee Bureau of Investigation Forensic Sciences Division. Nashville, TN. May 12, 2003.

Fourteenth International Symposium on Human Identification. Phoenix, AZ. September 30 – October 2, 2003.

56th Annual Meeting of the American Academy of Forensic Sciences. Dallas, TX. February 16-21, 2004.

Forensic Human Mitochondrial DNA Analysis Workshop. AAFS. Dallas, TX. February 16, 2004.

Fifteenth International Symposium on Human Identification. Phoenix, AZ. October 5 – 7, 2004.

Y-STRs: Practical Considerations and Interpretation Issues Workshop. Phoenix, AZ. October 7, 2004.