

Curriculum Vitae

LAURA GAHN, PH.D., D-ABC

Education

- 1993-1996 Yale University School of Medicine, New Haven, CT
Post-doctoral fellowship, Molecular Biology and Neurochemistry
- 1987-1993 Louisiana State University Medical Center, New Orleans, LA
Ph.D. in Biochemistry and Molecular Biology, 1994
- 1981-1985 Louisiana Tech University, Ruston, LA
B.S. in Chemistry

Professional Experience

- 2012-present **Laboratory Director**
- 2011-present **Director of Operations**
- 2011-2012 **IQAS Program Quality Manager**
Cellmark Forensics (LabCorp Specialty Testing Group), Dallas, TX
- Administrative, and technical responsibility for all aspects of the Cellmark Forensics Dallas facility, which performs all US forensic casework and databasing testing for LabCorp and manufactures and administers the IQAS proficiency testing program during and after its manufacturing and management was transitioned from GenProbe to the Dallas facility.
- 2006-present **Adjunct Faculty, School of Health Sciences**
University of Texas, M.D. Anderson Cancer Center, Houston, TX
- Supervision of interns
 - Guest Lecturer
 - Molecular Genetic Technology Program Advisory Committee member
- 2008-2011 **Police Administrator**
Forensic Biology/Trace Section Head, DNA Technical Leader
Houston Police Department Crime Laboratory, Houston, TX
- Technical leadership and supervision of all aspects of the Forensic Biology/Trace Section of the crime laboratory, including biological screening, DNA analysis, and trace evidence examination.

- Staff recruiting, training, and supervision, and review of casework.
- Supervision of case processing, methods development and implementation.

2008-2011 **Consultant**
AABB and New York State Department of Health DNA Relationship Testing Services
 Family Tree DNA, Houston, TX

2007-2008 **Laboratory Director, Forensic Technical Leader**

2005-2007 **Vice President of Production**

2003-2007 **Forensic Technical Leader**

2001-2007 **DNA Laboratory Director**

Identigene, LLC, a Sorenson Genomics Company (formerly Identigene, Inc.), Houston, TX

- Technical leadership, administration, and supervision of all aspects of the forensics and paternity laboratory operations, including responsibility for personnel hiring, training, and supervision, budget, case processing, methods development and implementation, and technical review of casework.
- Responsible for initial forensic accreditation/certification and maintenance of accreditation/certification by ASCLD/LAB International and Texas Department of Public Safety. Responsible for maintenance of paternity accreditation/certification by American Association of Blood Banks (AABB) and New York State Department of Health.
- Expert witness testimony, consultation and case review for testing performed by other laboratories, and seminars/continuing education on paternity and forensic DNA analysis for clients.
- Company management responsibilities, including technical aspects of business development and training of non-laboratory staff in technical aspects of company activities.

1997-2001 **Assistant, Associate Director**

1996-1997 **Senior Scientist**

ReliaGene Technologies, Inc. (Formerly GenTest Laboratories), New Orleans, LA

- Administration and supervision of the paternity laboratory operations, including responsibility for personnel hiring, training and supervision, case processing, methods development and implementation, laboratory analysis and review of casework, and continued accreditation of the laboratory.
- Supervision of paternity testing office/support personnel.
- Laboratory analysis and review of civil paternity, forensic paternity and family relationship cases.

- Expert witness, consultation and seminars/continuing education on DNA testing for clients.
- 1993-1996 **Post-doctoral Fellow**, Department of Psychiatry, Division of Molecular Neurochemistry
Yale University School of Medicine, New Haven, CT
- Research in the effects of substances of abuse and withdrawal on preprothyrotropin-releasing hormone expression in rat brain.
- 1988-1992 **Teaching Assistant, Department of Biochemistry and Molecular Biology**
Louisiana State University Medical Center, New Orleans, LA
- Taught Biochemistry and Molecular Biology in dentistry program
 - Research in tyrosine hydroxylase enzymatic activity and conformation
- 1985-1987 **Research Associate, Biochemistry Group**
Imreg, Inc., New Orleans, LA
- Purification and characterization of endogenous human blood peptide immunomodulators.
- 1982-1985 **Laboratory Assistant**
Instructor, Summer Computer Institute
Chemistry Department, Louisiana Tech University, Ruston, LA

Affiliations

2006 – present	American Academy of Forensic Sciences
2004 - 2009	Association of Forensic DNA Analysts and Administrators
1997 - 2008	American Association of Blood Banks
1998 - 2004	American Society for Biochemistry and Molecular Biology
1995 - 1998	Society for Neuroscience

Certifications and Professional Activities

LabCorp Representative and Board Member, Global Alliance for Rapid DNA Testing (2012-present)

Member, Chemistry Program Advisory Council, Louisiana Tech University (2012-present)

Molecular Biology Diplomate, American Board of Criminalistics Certification, (2009-present)

Reviewer, *Journal of Forensic Sciences* (2009-present)

Panel of Expert Witnesses, Blood/DNA, Los Angeles Superior Court (2007-present)

Member, Molecular Genetic Technology Program Advisory Committee, University of Texas M.D. Anderson Cancer Center School of Health Sciences (2007-present)

Consultant, Hurricane Katrina DNA Identification Project, Louisiana State Police Crime Laboratory (2006)

Certified Laboratory Director, New York State Department of Health: Certificate of Qualification in Forensic/Identity and Paternity/Identity DNA Testing (2002-present)

Laboratory Assessor, American Association of Blood Banks Parentage Testing Laboratories (2001-2006)

Member, American Association of Blood Banks Parentage Testing Laboratories Standards Committee (2003-2005)

Expert Testimony and Depositions

- **Jefferson County**, Family Court, AL
- **Mobile County**, Family Court, AL
- **Leon County**, 2nd Judicial Court, FL
- **Seminole County**, 18th Judicial Circuit, Seminole County, FL
- **Kauai County**, 5th Judicial Court, HI
- **Sumner County**, 13th Judicial District Court, KS
- **St. Tammany Parish**, Juvenile Court, LA
- **Berrien County**, Trial Court, MI
- **Lauderdale County**, Chancery Court, MS
- **Santa Fe County**, 1st Judicial District Court, NM
- **Grady County**, District Court, OK
- **Florence County**, 12th Judicial District Court, SC
- **Cameron County**, 103rd and 107th Criminal District Courts, TX
- **Dallas County**, Probate Court, TX
- **Harris County**, 133rd and 157th Civil Courts, TX
- **Harris County**, 174th, 177th, 178th, 180th, 182th, 183th, 184th, 185th, 208th, 209th, 228th, 248th, 262th, 263th, 338th, and 351st Criminal District Courts, TX
- **Galveston County**, 10th Judicial District Court, TX
- **McLennon County**, 54th Judicial District Court, TX
- **Montgomery County**, 410th Judicial District Court, TX
- **Tarrant County**, 396th Judicial District Court, TX
- **Waller County**, 155th Judicial District Court, TX
- **US District Court**, Southern District of TX, Galveston Division, TX
- **US District Court**, Southern District of TX, Houston Division, TX
- **Arlington County**, Circuit Court, VA

Invited Lectures, Presentations and Teaching

- 2007-present ***Forensic DNA Evidence in Court.*** University of Texas/M.D. Anderson Molecular Genetic Technology Program Yearly Lecture, Houston, TX
- Feb 2008 ***DNA Evidence.*** Criminal Law Institute Workshop (Continuing Legal Education), Houston, TX
- Oct 2007 ***The Value of a DNA Case Review.*** (Criminal attorney roundtable, discussion panelist), Houston, TX
- March 2007 ***Forensic DNA Identification – Identifying the Victims of Hurricane Katrina.*** 2007 Texas Association for Clinical Laboratory Science Meeting, Westlake, TX
- March 2004 ***Forensic DNA Analysis in Sexual Assault Investigation.*** Sexual Assault Nurse Examiner/Sexual Assault Response Team, Adult, Adolescent, Courtroom, Medical/Forensic Training Program, The Woodlands, TX
- July 2003 ***DNA Identification Basics & It's Practical Applications in Family Law.*** (Continuing Legal Education) Alamo Area Professional Legal Assistants Association, San Antonio, TX.
- Feb 2003 ***Forensic DNA and Paternity Data Interpretation Workshop.*** Houston Police Department Crime Laboratory Analyst Training.
- Oct 2002 ***Exclusion Rate Comparisons in Home Collection and Laboratory Collection Private Paternity Tests.***
13th International Symposium on Human Identification, Paternity Mini-Symposium, Phoenix, AZ.
- Oct 2001 ***Paternity Testing.*** 7th Annual Tribal Enrollment Conference, Nashville, TN
- May 2001 ***Mock UIFSA Trial.*** (panelist) Eastern Regional Interstate Child Support Enforcement Association Conference, Nashville, TN
- March 2001 ***Understanding Paternity Test Reports.*** Louisiana State Child Support Conference, Alexandria, LA
- Nov 2000 ***Mock UIFSA Hearing.*** (panelist) National Child Support Enforcement Association UIFSA Conference, Savannah, GA
- Oct 2000 ***Paternity Workshop.*** Alabama Child Support Enforcement Conference, Gulf Shores, AL

- Oct 2000 *PCR Contamination Prevention*. ReliaGene Technologies, Inc. New Orleans, LA
- July 2000 *Paternity/DNA Revisited*. Louisiana District Attorneys Association's 26th Annual Conference. Destin, FL
- June 2000 *Advance Workshop on STR Analysis and Interpretation for Forensic Casework*. (Instructor) ReliaGene Technologies, Inc., New Orleans, LA
- May 2000 *Identification of Individuals by DNA Testing*. New Orleans Society of Medical Technologists. New Orleans, LA
- April 2000 *DNA Analysis: Kinship, Mitochondrial and Y-Chromosome Analysis*. Mississippi Child Support Association Conference 2000. Biloxi, MS
- April 2000 *Applications of PCR-Based Tests in Clinical Laboratories and Paternity and Forensic Testing by DNA Methods*. Virginia Society for Clinical Laboratory Science Annual Meeting. Virginia Beach, VA
- Nov 1999 *Paternity Establishment Through DNA Testing*. Twelfth Annual Child Support Conference, State of Tennessee. Nashville, TN
- June 1999 *Identity Testing by DNA Methods*. (Instructor) Charity Hospital Blood Bank Medical Technologist Training Program. New Orleans, LA

Publications

Gahn, L.G. and Guidry, R.D. (2012) "Parentage" in *Modern Clinical Molecular Techniques* P.C. Hu, M.R. Hegde, and P.A. Lennon (ed). Springer, New York.

Guidry, R.D., and Gahn, L.G. (2012) "Microsatellite Testing – Short Tandem Repeat Profile Generation" in *Modern Clinical Molecular Techniques* P.C. Hu, M.R. Hegde, and P.A. Lennon (ed). Springer, New York.

Gahn, L. (2005) "Evidence Collection Processes" *Law and Order* **53**, 72-75.

Gahn, L, and McCue, J (2003) "DNA's Practical Applications" *California Lawyer* **23**, 40 (MCLE self-study).

Gahn, L, and McCue, J (2002) "DNA Identification Has Many Uses" *Lawyers Weekly* 9/13/02.

Gahn, L. (2002) "Genetic Marker Testing" in *Paternity and the Law of Parentage in Massachusetts* P. Quirion (ed). Massachusetts Continuing Legal Education, Boston.

Gahn, L.G. and Sevarino, K.A. (1996) "Preprothyrotropin-releasing hormone mRNA in the rat central gray is strongly and persistently induced during morphine withdrawal." *Neuropeptides* 30, 207-212.

Ciabarra, A.M., Sullivan, J. M., Gahn, L.G., Pecht, G., Heinemann, S., and Sevarino, K.A. (1995) "Cloning of chi-1, a developmentally-regulated member of a novel class of the ionotropic glutamate receptor family." *J. Neurosci.* **15**, 6498-6508.

Gahn, L.G. and Roskoski, R., Jr. (1995) "Thermal stability and CD analysis of rat tyrosine hydroxylase". *Biochemistry* **34**, 252-256.

Roskoski, R., Jr., Ritchie, P., and Gahn, L.G. (1994) "Farnesyl-protein transferase and geranylgeranyl-protein transferase assays using phosphocellulose paper absorption". *Anal. Biochem.* **222** 275-280.

Gahn, L.G. and Roskoski, R., Jr. (1993) "Tyrosine hydroxylase activity and extrinsic fluorescence changes produced by polyanions". *Biochem. J.* **295**, 189-194.

Roskoski, R., Jr., Gahn, L.G., and Roskoski, L.M. (1993) "Inactivation of phosphorylated tyrosine hydroxylase by ascorbate in vitro". *Eur. J. Biochem.* **218**, 363-370.

Gahn, L.G. and Roskoski, R., Jr. (1991) "Tyrosine hydroxylase purification from rat PC12 cells." *Protein Expression Purific.* **2**, 10-14.

Abstracts

Gahn, L., Allen, R., and Scarpetta, M. (2002) "Exclusion rate comparisons in home collection and laboratory collection private paternity tests." *13th International Symposium on Human Identification.*

Sinha, S.K., Gahn, L., Pineda, G., Lal, A., and Paunovic, A. (2001) "Unusual parentage and human identification cases." *12th International Symposium on Human Identification.*

Sinha, S.K. and Gahn, L.G. (1998) "Kinship analysis in deficiency cases where the mother, father, or both are unavailable for testing." Seventh Meeting of DNA Polymorphism. Nagano, Japan.

Gahn, L.G. and Sevarino, K.A. (1996) "Regulation of thyrotropin-releasing hormone in morphine withdrawal." *Soc. Neurosci. Abstr.* **22**, 1161.

Gahn, L.G. and Sevarino, K.A. (1995) "Regulation of preprothyrotropin-releasing hormone mRNA in the central gray by tonic pain and by morphine withdrawal." *Soc. Neurosci. Abstr.* **21**, 386.

Ciabarra, A.M., Sullivan, J. M., Gahn, L.G., Pecht, G., Heinemann, S., and Sevarino, Curriculum Vitae
Laura Gahn, Ph.D.
Page 7 of 11
Revised 2013

K.A. (1995) "Characterization of a member of a novel class of the ionotropic glutamate receptor superfamily." *Soc. Neurosci. Abstr.* **21**, 1110.

Ciabarra, A.M., Sullivan, J. M., Gahn, L.G., Heinemann, S., and Sevarino, K.A. (1994) "Cloning and characterization of a novel member of the glutamate receptor superfamily." *Soc. Neurosci. Abstr.* **20**, 737.

Gahn, L.G. and Roskoski, R., Jr. (1991) "Extrinsic fluorescence of tyrosine hydroxylase." *Soc. Neurosci. Abstr.* **17**, 824.

Sinha, S. K., Gahn, L., Hochadel, J. F., Montgomery, A. H., Verret, J., Owen, T., and Mandare, K.S. (1991) "HLA DQ Alpha Allele and Genotype Frequencies in the Cajun Population of Louisiana, Determined Utilizing PCR." *International Symposium on Human Identification.*

Gahn, L.G. and Roskoski, R., Jr. (1991) "Extrinsic fluorescence of tyrosine hydroxylase." *FASEB J.* **5**, A457.

Gahn, L.G. and Roskoski, R., Jr. (1990) "Tyrosine hydroxylase activation by RNA and attenuation of activation by salts". *FASEB J.* **4**, A318.

Gahn, L.G. and Roskoski, R., Jr. (1989) "Nucleic acid activation of tyrosine hydroxylase." *FASEB J.* **3**, A885.

Gahn, L.G. and Roskoski, R., Jr. (1988) "Tyrosine hydroxylase activation by RNA". *J. Cell Biol.* **107**, 302A.

Sinha, S.K., Sizemore, R.C., Merdian, D., Gahn, L., Montag, M., and Gottlieb, A.A. (1987) "Purification and characterization of low molecular weight immunomodulators from human leukocyte dialysate". *Fed. Proc* **46**, 782.

Continuing Education

Oct 2012 ***23rd International Symposium on Human Identification and Inaugural Meeting of the Global Alliance for Rapid DNA Testing***, Nashville, TN

July 2012 **National District Attorneys Association Summer Conference**, Mystic, CT

March 2012 ***A study of the Effects of Database Size and Loci Number on the Potential for Successful Familial Searches in Databases of STR Profiles***, seminar given by Rick Staub, Ph.D., Dallas, TX

Oct 2011 ***2011 SWAFS Conference***, Houston, TX

- Feb 2011 *AAFS Annual Meeting*, Chicago, IL
- July 2010 *AFDAA Summer Meeting*, Austin, TX
- July 2010 *HID Future Trends in DNA Technology*, Applied Biosystems, Austin, TX
- Nov 2009 *FBI DNA Auditor Training*, Houston, TX
- Oct 2009 *20th International Symposium on Human Identification and HITA Mass Disaster DNA Identification Workshop*, Las Vegas, NV
- July 2009 *Software Tools for Mixture Deconvolution*, Marshall University and NIJ, Austin, TX
- April 2009 *DNA and Motor Vehicle Theft Workshop*, NIJ, Washington DC
- Feb 2009 *DNA Trends and Issues*, Texas Regional Center for Policing Innovation Meeting, Houston, TX
- 2008-present **Annual Review of DNA Data Accepted at NDIS**
- Oct 2008 *19th International Symposium on Human Identification and Technical Leaders Workshop*, Hollywood, CA
- Aug 2008 *AFDAA Summer Meeting*, Austin, TX
- July 2008 *Role of the DA's Office* (ADA Suzanne Hanneman), *Role of the Judge and Court Personnel* (Judge Jim Wallace), and *Role of the Defense* (Atty Jerome Godinich) training to the HPD Crime Laboratory, Houston, TX
- Oct 2007 *13th CODIS Conference*, Burlingame, CA
- July 2007 *NIJ Conference 2007*, Arlington, VA
- Feb 2006 *AAFS Annual Meeting*, Seattle, WA
- 2006 *AABB Parentage Testing Laboratory Assessment*
- Sept 2005 *16th International Symposium on Human Identification*, Fort Worth, TX
- 2005 *AABB Parentage Testing Laboratory Assessment*

- Sept 2004 ***Joint Meeting of SAFS, MAFS, MAAFS, and CSFS***, Orlando, FL
(workshops: Bloodstain Pattern Analysis for the Forensic Scientist,
Paternity Index DNA Statistics, and ABI Future Trends in Forensic DNA
Technology Seminar)
- Mar 2004 ***FBI DNA Auditor Training***, Phoenix, AZ
- Mar 2004 ***AABB Parentage Laboratory Assessment***
- Feb 2004 ***American Academy of Forensic Sciences 56th Annual Meeting***, Dallas,
TX
- Nov 2003 ***Understanding DNA for Houston's Criminal Justice Community***,
Houston, TX
- Nov 2003 ***National CODIS Conference***, Landsdowne, VA
- Oct 2003 ***Use of Genomic Technologies in the Context of DNA Forensics***, Dr.
Ranjit Chakraborty, presented at Identigene, Houston, TX
- Oct 2003 ***American Association of Blood Banks 2003 Annual Meeting and TXPO***,
San Diego, CA (including assessor yearly training)
- 2003 ***AABB Parentage Laboratory Assessment***
- Feb 2003 ***AAFS 55th Annual Meeting***, Chicago, IL
- 2003 Coursework: ***"Genetics and Reproduction"*** and ***"Principles of Statistics"***,
Brigham Young University
- Nov 2002 ***FBI Laboratory's 8th CODIS User's Conference***, Arlington, VA
- Oct 2002 ***AABB 2002 Annual Meeting and TXPO***, Orlando, FL (including assessor
yearly training)
- Oct 2002 ***13th International Symposium on Human Identification, and SWGDAM
meeting***, Phoenix, AZ
- 2002 ***AABB Parentage Laboratory Assessments***
- Aug 2002 ***An Automated Approach to DNA Purification, Quantification, and STR
Analysis*** by Lisa Lane (Promega) at Identigene, Houston, TX
- July 2002 ***DNA Identification of Victims of Mass Disasters*** by Dr. Benoit Leclair
(Myriad Genetics) at Identigene, Houston, TX
- 2001 ***AABB Parentage Laboratory Assessments***

- Oct 2001 ***AABB 54th Annual Meeting***, San Antonio, TX
- Aug 2001 ***Introduction to PCR Testing*** by Dr. Sudhir Sinha at ReliaGene Technologies, New Orleans, LA
- Nov 2000 ***AABB 53rd Annual Meeting***, Washington D.C. (including new assessor training)
- Oct 2000 ***11th International Symposium on Human Identification***, Biloxi, MS
- April 2000 ***Advances in DNA Technology: Single Nucleotide Polymorphisms (SNP's)*** PE Biosystems, New Orleans, LA
- March 2000 ***Louisiana Child Support Enforcement Association Conference*** Lafayette, LA
- Feb 2000 ***Hazardous Material Safety Seminar-Awareness Level*** by Eugene Cottingham at ReliaGene Technologies, New Orleans, LA
- August 1999 ***Good Laboratory Practices*** seminar at ReliaGene Technologies, New Orleans, LA
- May 1999 ***Forensic Statistics***, at the 1999 Summer Institute in Statistical Genetics at North Carolina State University Raleigh, NC
- April 1999 ***8th Annual MS Child Support Association (MCSA) Conference and Workshops***, Jackson, MS
- March 1999 ***Probability, Likelihood Ratio and Paternity Index*** seminar presented by Dr. Charles Brenner, New Orleans, LA
- Oct 1998 ***Fundamentals of RFLP Analysis*** seminar presented at ReliaGene by Dr. Sudhir Sinha, New Orleans, LA
- Oct 1998 ***9th International Symposium on Human Identification*** Orlando, FL
- January 1998 ***Forensic Statistics Seminar*** presented by at ReliaGene by Dr. Charles Brenner. New Orleans, LA