

Curriculum Vitae

HUMA NASIR, M.S.

Education

M.S. University of Florida 2006
Pharmaceutical Sciences with concentration in Forensic Serology and DNA

B.S. University of New Orleans 2000
Biological Sciences - Biochemistry, Population Genetics, Cell & Molecular Biology, and Statistics

Professional Experience

7/9/12 – Present	<i>Technical Leader, mtDNA and Y-STRs Supervisor, Forensics</i>	Orchid Cellmark, Inc. Dallas, TX
12/1/11 – 7/9/12	<i>Supervisor, Forensics Forensic DNA Analyst IV</i>	Orchid Cellmark, Inc. Dallas, TX
4/1/11 – 11/31/11	<i>Forensic DNA Analyst IV Team Leader</i>	Orchid Cellmark, Inc. Dallas, TX
1/1/2008 – 3/31/11	<i>Forensic DNA Analyst III Team Leader</i>	Orchid Cellmark, Inc. Dallas, TX
2006 – 12/2007	<i>Forensic DNA Analyst III Team Leader</i>	ReliaGene Technologies, Inc. New Orleans, LA

Conduct scientific analysis on multiple forms of biological evidence on forensic casework utilizing PCR based DNA analysis following standard operating procedures for forensic DNA testing. Systems used on a routine basis include Profiler Plus™, COfiler™, Identifiler™, Identifiler Plus™, PowerPlex 16 HS™, Y-STR, MiniSTR, and Mitochondrial DNA analysis using the ABI 310, 3100 and 3130 Genetic Analyzers and the ABI 377 DNA Sequencer platforms. Responsible for processing casework in an accurate and timely manner. Prepare, write, and sign case reports, and available as an expert in Molecular Biology and Forensic DNA analysis for court testimony. Routinely communicate directly with clients regarding various aspects of their case, from evidence collection to trial preparation. Available to less senior laboratory personnel as a resource for training, technical advice, problem solving, and questions.

- DNA Extractions (PCR-STR) Mixed Stains 2003
- Forensic Biology Screening 2003
- Forensic Case Reporting 2003
- Y-STR Experience 2002
- Mini STR Experience 2007
- Mitochondrial DNA Experience 2007

Level of Training Completed

Forensic Casework Analyst Qualified – 2003
Forensic Cases Processed / Analyzed – More than 2500

Memberships

Association of Forensic DNA Analysts and Administrators (**AFDAA**)
American Academy of Forensic Sciences (**AAFS**)

Expert Witness Testimony

Qualified and/or testified as an Expert in *Molecular Biology and DNA Analysis* in the following jurisdictions: (Unless otherwise noted, testimony entailed autosomal DNA testing)

1. Alfalfa County District Court, **OK**_(Defense)
2. Attala County Circuit Court, **MS**
3. Carroll County Circuit Court, **MS**
4. **US** District Court, Northern District of **MS**
5. Wayne County Circuit Court, **MS** _(Y-STR)
6. Clark County Superior Court, **WA** _(Y-STR)
7. Hinds County Circuit Court, **MS** _(Autosomal & Y-STR)
8. Neshoba County Circuit Court, **MS**
9. Grenada County Circuit Court, **MS**
10. Pearl River County Circuit Court, **MS**
11. Washington Parish District Court, **LA**_(Y-STR, Defense, Evidentiary Hearing)
12. Ascension Parish District Court, **LA**
13. Broward County Circuit Court, **FL**_(Y-STR)
14. Orleans Parish District Court, **LA**
15. Washington County Circuit Court, **MS**
16. Broward County Circuit Court, **FL**_(Y-STR)
17. Marion County Circuit Court, **FL**_(Y-STR)
18. Orleans Parish District Court, **LA**
19. Harrison County Circuit Court, **MS**
20. Jefferson County District Court, **CO**_(Y-STR)
21. Washington County Circuit Court, **MS**_(Y-STR)
22. Berrien County Trial Court, **MI**_(Defense)
23. Palm Beach County Circuit Court, **FL**_(Y-STR)
24. King County Superior Court, **WA**_(Y-STR)

25. St. Tammany 22nd Judicial District Court, **LA**_(Defense)
26. Elkhart County Circuit Court, **IN**_(Mini-STR)
27. Santa Rosa County Court, **FL**_(Y-STR)
28. Lowndes County Circuit Court, **MS**(8/08)
29. Cobb County Superior Court, **GA**(10/08)
30. Assumption Parish 23rd Judicial District, **LA**(11/08)
31. Las Cruces 3rd Judicial District Court, **NM** (1/09)
32. Broward County Circuit Court, **FL**_(Y-STR) (4/09)
33. Ellis County District Court, **TX** (5/09)
34. El Paso County District Court, **CO** (6/09)
35. Smith County District Court, **TX** _(Autosomal & Y-STR, Bench Trial) (6/09)
36. Hampden County Superior Court, **MA** _(Autosomal & Y-STR) (8/09)
37. Hunt County District Court, **TX** (10/09)
38. Deschutes County District Court, **OR** _(Y-STR, Admissibility Hearing and Testimony) (10/09)
39. Galveston County District Court, **TX** _(Defense) (10/09)
40. Fannin County District Court, **TX**
41. Yolo County Superior Court, **CA** (12/09)
42. 292nd District Court, Dallas County, **TX** _(Y-STR) (3/10)
43. Smith County District Court, **TX** _(Grand Jury Trial) (3/10)
44. Orleans Parish Criminal District Court, **LA** (3/10)
45. Clark County Superior Court, **WA**_(Defense, motion for new trial, via telephone) (3/10)
46. Jefferson Davis County Circuit Court, **MS** (4/10)
47. Clark County Superior Court, **WA**_(Y-STR, Defense) (4/10)
48. Smith County District Court, **TX** (4/10)
49. Smith County District Court, **TX** (5/10)
50. Broward County, 17th Judicial Circuit Court, **FL**_(Y-STR) (8/10)
51. Hillsborough County, 13th Judicial Circuit Court, **FL** _(Y-STR, Defense) (8/10)
52. Broward County, 17th Judicial Circuit Court, **FL**_(Y-STR) (9/10)
53. Superior Court, **District of Columbia** (9/10)
54. Riverside Superior Court, **CA** (11/10)
55. Floyd County, Superior Court, **IN**_(Y-STR) (11/10)
56. Kent County District Court, **MI** _(Y-STR, preliminary hearing) (12/10)
57. Palm Beach County Circuit Court, **FL** _(Y-STR) (12/10)
58. Pasco County Circuit Court, **FL** _(mini-STR) (12/10)
59. Smith County District Court, **TX** (1/11)
60. Henderson County District Court, **TX** (1/11)
61. Marion County Court, **IN** _(Y-STR, Defense) (2/11)
62. Ventura County Superior Court, **CA** _(Y-STR, Admissibility Hearing) (3/11)
63. Miami-Dade County Court, **FL** _(Y-STR) (3/11)
64. Ventura County Superior Court, **CA** _(Y-STR) (4/11)
65. Broward County, 17th Judicial Circuit Court, **FL**_(Y-STR) (4/11)
66. Harris County, Criminal Court, **TX** (6/11)
67. Superior Court, **District of Columbia** (6/11)
68. Iberville Parish, 18th Judicial District Court, **LA**_(mini-STR) (8/11)
69. Smith County, 241st District Court, **TX**_(STR, mini-STR) (8/11)

70. Shelby County Criminal Court, **TN** (9/11)
71. Lycoming County Criminal Court, **PA**_(Video Testimony) (10/11)
72. Harrison County Criminal Court, **TX** (10/11)
73. Superior Court of New Jersey, Monmouth County, **NJ** (10/11)
74. Sumter County, **FL**_(Y-STR, Defense) (12/11)
75. Superior Court of New Jersey, Monmouth County, **NJ** (01/12)
76. Supreme Court of Victoria, **Australia** _(Admissibility via Video) (2/12)
77. Smith County, 241st District Court, **TX**_(STR, mini-STR) (5/12)
78. Travis County, 331st District Court, **TX**_(mini-STR, Daubert Hearing and Trial) (5/12)
79. Wichita County, 330th District Court, **TX** (6/12)
80. Cobb County Superior Court, **GA**(09/12)
81. Superior Court, **District of Columbia** (12/12)
82. Superior Court of New Jersey, Monmouth County, **NJ** (12/12)

Publications

1. Shewale, J.G., **Nasir, H.**, Schneida, E., Gross, A.M., Budowle, B. and Sinha, S.K. 2004. Y-Chromosome STR system, Y-PLEXTM 12, for forensic casework: Development and validation. J. Forensic Sci. 49: 1278 - 1290.
2. Sinha, S.K., Budowle, B., Chakraborty, R., Paunovic, A., Guidry, R.D., Larsen C., Lal, A., Shaffer, M., Pineda, G., Sinha S.K., Schneida, E., **Nasir, H.** and Shewale, J.G. 2004. Utility of the Y-STR typing system Y-PLEXTM 6 and Y-PLEXTM 5 in forensic casework and 11 Y-STR haplotype database for three major population groups in the United States. J. Forensic Sci. 49: 691-700.
3. Sinha, S.K., **Nasir, H.**, Gross, A.M., Budowle, B. and Shewale, J.G. 2003. Development and validation of the Y-PLEXTM5, a Y-chromosome STR genotyping system, for forensic casework. J. Forensic Sci. 48: 985-1000.
4. Shewale, J.G., **Nasir, H.** and Sinha S.K. 2003. Variation in migration of the DNA fragments labeled with fluorescent dyes on the 310 Genetic Analyzer and its implication in the genotyping. The Journal of the Association of Genetic Technologists. 29: 60-64.

Presentations

Presented “Challenges in Casework using *the AmpFlSTR® Minifiler™* PCR Amplification Kit” at Southwestern Association of Forensic Scientists Annual Meeting in Austin, Texas. October 11, 2007.

Abstracts

1. Orchid CellMark's Osteo-Pure™ Bone Extraction Procedure Captures Degraded DNA to Improve STR Results. C.B. Smitherman, **H. Nasir**, W.L. Hoffman, R.W. Staub, and S.K. Sinha. Promega Meeting, 2010.
2. Shewale, J.G., **Nasir, H.**, Schneida, E., and Sinha, S.K., 2003. Development and Validation of a Y-Chromosome STR Genotyping System, Y-PLEX™ 12, for Forensic Casework. 29th Annual Meeting NEAFS 2003, Pittsfield, MA. European Academy of Forensic Science Triennial Meeting 2003, Istanbul, Turkey. 14th International Symposium on Human Identification 2003, Phoenix, AZ. American Academy of Forensic Sciences 56th Annual Scientific Meeting 2004, Dallas, TX.
3. Sudhir K. Sinha, PhD, Amrita Lal, MSFS, Chris Larson, BS, Alison Flemming, BA, **Huma Nasir, BS**, Elaine Schneida, BS, and Jaiprakash Shewale, PhD. Validation and Forensic Casework Applications of the Y-STR Genotyping Systems Y-PLEX™ 6 and Y-PLEX™ 5. Annual meeting of the American Academy of Forensic Sciences 2003, Chicago, IL.
4. Sinha, S.K., **Nasir, H.**, Schneida, E. and Shewale, J.G. Y-Chromosome Specific STR Analysis Using Y-PLEX™6 and Y-PLEX™5 Amplification Kits. FASEB Meeting 2002, New Orleans, LA.
5. Sinha, S., **Nasir, H.**, Schneida, E. and Shewale J. Y-Chromosome specific STR analysis using a combination of Y-PLEX™6 and Y-PLEX™5 amplification kits. Proc. 16th 9 Meeting of the International Association of Forensic Sciences 2002, Edited by E. Baccino, pp. 21-24, Monduzzi Editore.

Continuing Education

- February 2012 Attended the **American Academy of Forensic Sciences** 64th Annual Meeting in Atlanta, GA.
- December 2011 Completed the **FBI's Quality Assurance Standards Auditor Training**
- October 2011 Attended **NFSTC: DNA Mixture Interpretation Workshop** in Houston, TX
- July 2010 Attended the **AFDAA Summer Meeting** in Austin, TX
- April 2010 Attended the “**Excelling as a Highly Effective Team Leader**” Seminar presented by Dale Liu, MSc., in Dallas, TX
- December 2009 Attended “**Stochastic Threshold**” talk presented by Dr. Rick Staub at Orchid Cellmark. Dallas, TX.
- September 2009 Attended “**Considerations for the Analysis of Low-Level Forensic Samples**” talk presented by Dr. Rick Staub at Orchid Cellmark.

- July 2009 Attended Applied Biosystems HID University's seminar "***Future Trends in Forensic DNA Technology***" presented by Lisa M. Calandro in Austin, TX.
- February 2009 Attended "***Fundamentals of Capillary Electrophoresis & Maintenance and Troubleshooting of 3100-3130xl Platforms***" talk presented by Dr. Aaron LeFebvre at Orchid Cellmark. Dallas, TX.
- December 2008 Attended the seminar "***Statistical Analysis of Forensic DNA Evidence***" presented by Dr. George Carmody at Orchid Cellmark, Dallas, TX.
- October 2007 ***Southwestern Association of Forensic Scientists Meeting***. Austin, TX.
- August 2007 ***Applied Biosystems HID University: Troubleshooting Amplification and Electrophoresis***, Maurice Padilla, Field Application Specialist
- April 2007 ***Profiling of Degraded and Low Amounts of DNA***, Forensic Institute's Human Identification e-Symposium 2007
- April 2007 ***Human Identification DNA Stream***, Forensic Institute's Human Identification e-Symposium 2006
- September 2006 ***3rd Louisiana's Annual DNA Scientific meeting***. Baton Rouge, LA
- February 2006 ***Fundamentals of Statistical Analysis*** workshop presented by Dr. Charles Brenner. New Orleans, LA
- February 2005 ***57th Annual Meeting of the American Academy of Forensic Sciences (AAFS)***. New Orleans, LA.
- December 2004 ***GeneMapperTM ID Training*** by Dr. Laura Post from Applied Biosystems. New Orleans, LA
- December 2004 ***1st Louisiana's Annual DNA Scientific meeting***. Baton Rouge, LA
- December 2004 "***A New Approach to Differential Extraction***" lecture by Curtis Knox from Promega. New Orleans, LA
- Sept. 2004 ***Fundamentals Of Real Time PCR*** at ReliaGene Technologies, New Orleans, LA
- October 2003 ***Mathematical Foundation of the Evaluation of DNA Evidence*** lecture by Dr. Charles Brenner, New Orleans, LA

- September. 2003 ***Y-12 Analysis*** by Dr. Jai Shewale at ReliaGene Technologies Laboratory, New Orleans, LA
- June 2003 ***Understanding DNA Extraction and PCR Amplification*** by Dr. Sudhir Sinha at ReliaGene Technologies Laboratory, New Orleans, LA
- November 2002 ***SINE based PCR for the identification of species-specific DNA*** by Dr. Mark Batzer at ReliaGene Technologies Laboratory, New Orleans, LA
- November 2002 ***Y-STR Geneotyping development and validation of Y-Plex™5 and of Y-Plex™6 in forensic casework*** by Dr. Jai Shewale at ReliaGene Technologies Laboratory, New Orleans, LA
- November 2002 ***Statistical considerations in forensic and paternity casework*** lecture by Dr. Sudhir Sinha, New Orleans, LA
- September 2002 ***DNA Extraction, Polymerase Chain Reaction (PCR) and DNA Sequencing, techniques used in HIV Genotyping*** by Dr. Jai Shewale at ReliaGene Technologies Laboratory, New Orleans, LA
- August 2001 ***Introduction to PCR Testing*** seminar by Dr. Sudhir Sinha, New Orleans, LA