

EXHIBIT 5

Y-STR References

Bibliography (see full STR reference list) NOT UPDATED

1168. Aler, M., Gonzalez, A., Brion, M., and Gisbert, M. (2000) Y-chromosome STR haplotypes in a Spanish population sample. *Progress in Forensic Genetics* 8 (1999). 8: 305-308.
1078. Ambach, E., Parson, W., and Brezinka, C. (2000) Superfecundation and dual paternity in a twin pregnancy ending with placental abruption. *J.Forensic Sci.* 45(1): 181-183.
1270. Anslinger, K., Keil, W., Weichhold, G., and Eisenmenger, W. (2000) Y-chromosomal STR haplotypes in a population sample from Bavaria. *Int.J.Legal Med.* 113 (2): 189-192.
560. Appendix. (1997) Reference tables to: Evaluation of Y-chromosomal STRs: a multicenter study (Kayser, et al.) and Chromosome Y microsatellites: population genetic and evolutionary aspects (de Kniff, et al.). *Int.J.Legal Med.* 110: 141-149.
1075. Ayub, Q., Mohyuddin, A., Qamar, R., Mazhar, K., Zerjal, T., Mehdi, S. Q., and Tyler-Smith, C. (1-15-2000) Identification and characterisation of novel human Y-chromosomal microsatellites from sequence database information. *Nucleic Acids Res.* 28 (2): e8-
1082. Bamshad, M. J., Watkins, W. S., Dixon, M. E., Jorde, L. B., Rao, B. B., Naidu, J. M., Prasad, B. V., Rasanayagam, A., and Hammer, M. F. (10-15-1998) Female gene flow stratifies Hindu castes. *Nature*. 395(6703): 651-652.
693. Bender, K., Beller, G., and Lautsch, S. (1998) Tetranucleotide short tandem repeat polymorphisms and their possible mode of origin. *Cytogenet.Cell Genet.* 80(1-4): 34-36.
1091. Bergen, A. W., Wang, C. Y., Tsai, J., Jefferson, K., Dey, C., Smith, K. D., Park, S. C., Tsai, S. J., and Goldman, D. (1999) An Asian-Native American paternal lineage identified by RPS4Y resequencing and by microsatellite haplotyping. *Ann.Hum.Genet.* 63 (Pt 1): 63-80.
917. Bhattacharyya, N. P., Basu, P., Das, M., Pramanik, S., Banerjee, R., Roy, B., Roychoudhury, S., and Majumder, P. P. (1999) Negligible male gene flow across ethnic boundaries in India, revealed by analysis of Y-chromosomal DNA polymorphisms. *Genome Res.* 9(8): 711-719.

744. Bianchi, N. O., Catanesi, C. I., Baillet, G., Martinez-Marignac, V. L., Bravi, C. M., Vidal-Rioja, L. B., Herrera, R. J., and Lopez-Camelo, J. S. (1998) Characterization of ancestral and derived Y-chromosome haplotypes of New World native populations. *Am.J.Hum.Genet.* 63(6): 1862-1871.
930. Bosch, E., Calafell, F., Santos, F. R., Perez-Lezaun, A., Comas, D., Benchemsi, N., Tyler-Smith, C., and Bertranpetti, J. (1999) Variation in short tandem repeats is deeply structured by genetic background on the human Y chromosome. *Am.J.Hum.Genet.* 65(6): 1623-1638.
1114. Brenner, C. H. (2000) Summary of polymorphic STR allele frequencies and Y chromosome haplotype frequencies. *Progress in Forensic Genetics* 8 (1999). 8: 109-125.
785. Brinkmann, C., Forster, P., Schurenkamp, M., Horst, J., Rolf, B., and Brinkmann, B. (1999) Human Y-chromosomal STR haplotypes in a Kurdish population sample. *Int.J.Legal Med.* 112(3): 181-183.
1157. Brion, M., Lareu, M. V., Pereira, L., Gonzalez-Neira, A., Salas, A., Prata, M. J., Amorim, A., and Carracedo, A. (2000) Y chromosome lineages in Iberians: Construction of highly informative haplotypes using biallelic markers, STRs, and the minisatellite MSY1. *Progress in Forensic Genetics* 8 (1999). 8: 263-265.
620. Caglia, A., Dobosz, M., Boschi, I., d'Aloja, E., and Pascali, V. L. (1998) Increased forensic efficiency of a STR-based Y-specific haplotype by addition of the highly polymorphic DYS385 locus. *Int.J.Legal Med.* 111(3): 142-146.
1260. Carvalho-Silva, D. R. and Pena, S. D. (4-18-2000) Molecular characterization and population study of an X chromosome homolog of the Y-linked microsatellite DYS391. *Gene*. 247(1-2): 233-240.
1167. Carvalho, M., Anjos, M. J., Andrade, L., Coxinho, C., Corte-Real, F., Gamero, J. J., Vieira, D. N., and Vide, M. C. (2000) Y chromosome polymorphisms: a comparison between Azores and Continental Portuguese sample. *Progress in Forensic Genetics* 8 (1999). 8: 302-304.
579. Chen, H., Lowther, W., Avramopoulos, D., and Antonarakis, S. E. (1994) Homologous loci DXYS156X and DXYS156Y contain a polymorphic pentanucleotide repeat (TAAAAA)_n and map to human X and Y chromosomes. *Human Mutation*. 4(3): 208-211.
550. Ciminelli, B. M., Pompei, F., Malaspina, P., Hammer, M., Persichetti, P. F., Pignatti, P. F., Palena, A., Anagnou, N., Guanti, G., Jodice, C., Terrenato, L., and Novelletto, A. (1995) Recurrent simple tandem repeat mutations during human Y-chromosome radiation in caucasian subpopulations. *J.Mol.Evol.* 41(6): 966-973.

921. Cipollaro, M., Di Bernardo, G., Forte, A., Galano, G., De Masi, L., Galderisi, U., Guarino, F. M., Angelini, F., and Cascino, A. (1999) Histological analysis and ancient DNA amplification of human bone remains found in caius iulius polybius house in pompeii. *Croat.Med.J.* 40(3): 392-397.
1093. Cirigliano, V., Sherlock, J., Conway, G., Quilter, C., Rodeck, C., and Adinolfi, M. (1999) Rapid detection of chromosomes X and Y aneuploidies by quantitative fluorescent PCR. *Prenat.Diagn.* 19(12): 1099-1103.
1068. Cooper, G., Amos, W., Hoffman, D., and Rubinsztein, D. C. (1996) Network analysis of human Y microsatellite haplotypes. *Hum.Mol.Genet.* 5(11): 1759-1766.
532. Corach, D., Sala, A., Penacino, G., Iannucci, N., Bernardi, P., Doretti, M., Fondebrider, L., Ginarte, A., Inchaurregui, A., Somigliana, C., Turner, S., and Hagelberg, E. (1997) Additional approaches to DNA typing of skeletal remains: The search for "missing" persons killed during the last dictatorship in Argentina. *Electrophoresis.* 18: 1608-1612.
784. Csete, K., Szabo, A., and Varga, T. (1999) The Y-STRs DYS19 and DYS390 in a south-east Hungarian (Szeged area) population. *Int.J.Legal Med.* 112(3): 207-208.
553. de Knijff, P., Kayser, M., Caglia, A., Corach, D., Fretwell, N., Gehrig, C., Graziosi, G., Heidorn, F., Herrmann, S., Herzog, B., Hidding, M., Honda, K., Jobling, M., Krawczak, M., Leim, K., Meuser, S., Meyer, E., Oesterreich, W., Pandya, A., Parson, W., Penacino, G., Perez-Lezaun, A., Piccinini, A., Prinz, M., Schmitt, C., Schneider, P. M., Szibor, R., Teifel-Greding, J., Weichhold, G. M., and Roewer, L. (1997) Chromosome Y microsatellites: population genetic and evolutionary aspects. *Int.J.Legal Med.* 110(3): 134-140.
1142. Decorte, R., Muslumanoglu, M. H., Mahieu, F., Gilissen, A., Cilinger, O., Ataman, C., Artan, S., Xiao, F.-X., Basaran, N., and Cassiman, J.-J. (2000) STR (autosomal and Y-chromosome) analysis reveals geographic differences in the Turkish population. *Progress in Forensic Genetics* 8 (1999). 8: 215-217.
412. Deka, R., Jin, L., Shriver, M. D., Yu, L. M., Saha, N., Barrantes, R., Chakraborty, R., and Ferrell, R. E. (1996) Dispersion of human Y chromosome haplotypes based on five microsatellites in global populations. *Genome Res.* 6: 1177-1184.
1108. Dupuy, B. M., Gedde-Dahl, T., and Olaisen, B. (2000) DYS393 and its X chromosome counterpart. *Progress in Forensic Genetics* 8 (1999). 8: 67-70.
1156. Dupuy, B. M., Andreassen, R., Flones, A. G., Tomassen, K., Egeland, T., and Olaisen, B. (2000) Y chromosome variation in a Norwegian population sample. *Progress in Forensic Genetics* 8 (1999). 8: 260-262.

748. Forster, P., Kayser, M., Meyer, E., Roewer, L., Pfeiffer, H., Benkmann, H., and Brinkmann, B. (1998) Phylogenetic resolution of complex mutational features at Y-STR DYS390 in Aboriginal Australians and Papuans. *Mol.Biol.Evol.* 15(9): 1108-1114.
1287. Forster, P., Rohl, A., Lunnemann, P., Brinkmann, C., Zerjal, T., Tyler-Smith, C., and Brinkmann, B. (2000) A Short Tandem Repeat-Based Phylogeny for the Human Y Chromosome. *Am.J.Hum.Genet.* 67(1): 182-196.
906. Furedi, S., Woller, J., Padar, Z., and Angyal, M. (1999) Y-STR haplotyping in two Hungarian populations. *Int.J.Legal Med.* 113(1): 38-42.
1122. Furedi, S., Egyed, B., Vandenbergh, A., Angyal, M., Woller, J., and Padar, Z. (2000) Population genetic data on 5 autosomal and 8 Y-chromosomal STR loci in 2 Hungarian populations. *Progress in Forensic Genetics* 8 (1999). 8: 151-153.
1229. Gehrig, C., Hochmeister, M., and Budowle, B. (2000) Swiss allele frequencies and haplotypes of 7 Y-specific STRs. *J.Forensic Sci.* 45(2): 436-439.
862. Gene, M., Borrego, N., Xifro, A., Pique, E., Moreno, P., and Huguet, E. (1999) Haplotype frequencies of eight Y-chromosome STR loci in Barcelona (North-East Spain). *Int.J.Legal Med.* 112: 403-405.
1281. Gonzalez-Neira, A., Gusmao, L., Brion, M., Lareu, M. V., Amorim, A., and Carracedo, A. (5-15-2000) Distribution of Y-chromosome STR defined haplotypes in Iberia. *Forensic Sci.Int.* 110(2): 117-126.
1186. Gonzalez-Neira, A., Gusmao, L., Barral, S., Lareu, M. V., and Carracedo, A. (2000) Multiplexing Y chromosome STRs: Analysis of artifactual bands and PCR strategies. *Progress in Forensic Genetics* 8 (1999). 8: 436-438.
1179. Guarducci, S., Ricci, U., Biondi, C., Lapi, E., Cecconi, A., Ricotti, G., Vieri, F., Gori, F., Sereni, A., Ombroni, L., and Giovannucci Uzielli, M. L. (2000) Practical application of DNA study for forensic genetic analysis in complex situations involving presumed incest as cause of Mendelian disorders. *Progress in Forensic Genetics* 8 (1999). 8: 381-383.
1065. Gusmao, L., Gonzalez-Neira, A., Pestoni, C., Brion, M., Lareu, M. V., and Carracedo, A. (12-20-1999) Robustness of the Y STRs DYS19, DYS389 I and II, DYS390 and DYS393: optimization of a PCR pentaplex. *Forensic Sci.Int.* 106(3): 163-172.
1107. Gusmao, L., Sanchez-Diz, P., Gonzalez-Neira, A., Brion, M., and Lareu, M. V. (2000) Homologous STRs in the X and Y chromosomes: A contribution to understanding

- human sexual chromosomes evolution. *Progress in Forensic Genetics* 8 (1999). 8: 64-66.
1173. Gusmao, L., Amorim, A., Martins, N., Prata, M. J., Gonzalez-Neira, A., Lareu, M. V., and Carracedo, A. (2000) Y chromosome STR haplotypes in Macau (SE China). *Progress in Forensic Genetics* 8 (1999). 8: 324-326.
143. Hammer, M. F. and Horai, S. (1995) Y chromosomal DNA variation and the peopling of Japan. *Am.J.Hum.Genet.* 56: 951-962.
576. Hammer, M. F., Spurdle, A. B., Karafet, T., Bonner, M. R., Wood, E. T., Novelletto, A., Malaspina, P., Mitchell, R. J., Horai, S., Jenkins, T., and Zegura, S. L. (1997) The geographic distribution of human Y-Chromosome variation. *Genetics*. 145(3): 787-805.
102. Hanaoka, Y. and Minaguchi, K. (1996) Sex determination from blood and teeth by PCR amplification of the alphoid satellite family. *J.Forensic Sci.* 41(5): 855-858.
1165. Henke, L., Cleef, S., Duelmer, M., and Henke, J. (2000) Segregation of Y-chromosomal STR haplotypes. *Progress in Forensic Genetics* 8 (1999). 8: 296-298.
1090. Heyer, E., Puymirat, J., Dieltjes, P., Bakker, E., and de Knijff, P. (1997) Estimating Y chromosome specific microsatellite mutation frequencies using deep rooting pedigrees. *Hum.Mol.Genet.* 6(5): 799-803.
1192. Hidding, M., Schmitt, C., and Staak, M. (2000) Simultaneous amplification of eight STR-loci in two multiplex PCR-systems for typing a compound Y-chromosomal haplotype. *Progress in Forensic Genetics* 8 (1999). 8: 454-456.
837. Honda, K., Roewer, L., and de Knijff, P. (1999) Male DNA typing from 25-year-old vaginal swabs using Y-chromosomal STR polymorphisms in a retrial request case. *J.Forensic Sci.* 44(4): 868-872.
787. Horst, B., Eigel, A., Sanguansermsri, T., and Brinkmann, B. (1999) Human Y-chromosomal STR types in north Thailand. *Int.J.Legal Med.* 112(3): 211-212.
1171. Hou, Y., Wu, J., Li, Y., Zhang, J., and Prinz, M. (2000) Polymorphisms of chromosome Y specific short tandem repeats in a Chinese population. *Progress in Forensic Genetics* 8 (1999). 8: 315-317.
1084. Hutardo, de Mendoza and Braginski, R. (3-5-1999) Y chromosomes point to Native American Adam. *Science*. 283(5407): 1439-1440.
1288. Huttley, G. A., Jakobsen, I. B., Wilson, S. R., and Easteal, S. (2000) How important is DNA replication for mutagenesis? *Mol.Biol.Evol.* 17(6): 929-937.

1193. Ishii, A., Shaler, R., Baum, H., and Prinz, M. (2000) Multiplex system for Y-STR testing using fluorescent primers: Artefacts caused by female DNA. *Progress in Forensic Genetics* 8 (1999). 8: 457-459.
411. Jobling, M. A. and Tyler-Smith, C. (1995) Fathers and sons: the Y chromosome and human evolution. *Trends Genet.* 11(11): 449-456.
1087. Jobling, M. A., Pandya, A., and Tyler-Smith, C. (1997) The Y chromosome in forensic analysis and paternity testing. *Int.J.Legal Med.* 110(3): 118-124.
908. Jobling, M. A., Williams, G. A., Schiebel, G. A., Pandya, G. A., McElreavey, G. A., Salas, G. A., Rappold, G. A., Affara, N. A., and Tyler-Smith, C. (12-17-1998) A selective difference between human Y-chromosomal DNA haplotypes. *Curr.Biol.* 8(25): 1391-1394.
907. Jobling, M. A., Heyer, E., Dieltjes, P., and de Knijff, P. (1999) Y-chromosome-specific microsatellite mutation rates re-examined using a minisatellite, MSY1. *Hum.Mol.Genet.* 8(11): 2117-2120.
1074. Jorde, L. B., Watkins, W. S., Bamshad, M. J., Dixon, M. E., Ricker, C. E., Seielstad, M. T., and Batzer, M. A. (2000) The Distribution of Human Genetic Diversity: A Comparison of Mitochondrial, Autosomal, and Y-Chromosome Data. *Am.J.Hum.Genet.* 66(3): 979-988.
1049. Junge, A. and Madea, B. (1998) Population studies of the Y-chromosome specific polymorphisms DYS19, DYS389-I + II and DYS390 in a western German population (Rhine area). *Advances in Forensic Genetics* 7 (1997). 7: 518-520.
839. Junge, A. and Madea, B. (1999) Population studies of the Y-chromosome specific polymorphisms DYS19, DYS389I + II, DYS390, and DYS393 in a Western German population (Bonn area). *Forensic Sci.Int.* 101(3): 195-201.
1086. Karafet, T., de Knijff, P., Wood, E., Ragland, J., Clark, A., and Hammer, M. F. (1998) Different patterns of variation at the X- and Y-chromosome-linked microsatellite loci DXYS156 and DXYS156Y in human populations. *Hum.Biol.* 70(6): 979-992.
1073. Karafet, T. M., Zegura, S. L., Posukh, O., Osipova, L., Bergen, A., Long, J., Goldman, D., Klitz, W., Harihara, S., de Knijff, P., Wiebe, V., Griffiths, R. C., Templeton, A. R., and Hammer, M. F. (1999) Ancestral Asian source(s) of new world Y-chromosome founder haplotypes. *Am.J.Hum.Genet.* 64(3): 817-831.
1097. Kargel, H. J. and Sackewitz, H. (1999) Examples for use of the STR systems in stain assessment with special reference to Y chromosome systems. *Arch.Kriminol.* 204(5-

6): 175-185.

558. Kayser, M., Caglia, A., Corach, D., Fretwell, N., Gehrig, C., Graziosi, G., Heidorn, F., Herrmann, S., Herzog, B., Hidding, M., Honda, K., Jobling, M., Krawczak, M., Leim, K., Meuser, S., Meyer, E., Oesterreich, W., Pandya, A., Parson, W., Penacino, G., Perez-Lezaun, A., Piccinini, A., Prinz, M., Schmitt, C., Schneider, P. M., Szibor, R., Teifel-Greding, J., Weichhold, G. M., de Knijff, P., and Roewer, L. (1997) Evaluation of Y-chromosomal STRs: a multicenter study. *Int.J.Legal Med.* 110(3): 125-133.

534. Kayser, M., de Knijff, P., Dieltjes, P., Krawczak, M., Nagy, M., Zerjal, T., Pandya, A., Tyler-Smith, C., and Roewer, L. (1997) Applications of microsatellite-based Y chromosome haplotyping. *Electrophoresis.* 18: 1602-1607.

1046. Kayser, M., Kruger, C., Nagy, M., Geserick, G., de Knijff, P., and Roewer, L. (1998) Y-chromosomal DNA-analysis in paternity testing: experiences and recommendations. *Advances in Forensic Genetics* 7 (1997). 7: 494-496.

1095. Kayser, M., Roewer, L., Hedman, M., Henke, L., Henke, J., Brauer, S., Kruger, C., Krawczak, M., Nagy, M., Dobosz, T., Szibor, R., de Knijff, P., Stoneking, M., and Sajantila, A. (2000) Characteristics and Frequency of Germline Mutations at Microsatellite Loci from the Human Y Chromosome, as Revealed by Direct Observation in Father/Son Pairs. *Am.J.Hum.Genet.* 66(5): 1580-1588.

749. Kim, W., Shin, D. J., You, S. A., and Kim, Y. J. (1998) Y-specific DNA polymorphisms of the YAP element and the locus DYS319 in the Korean population. *J.Hum.Genet.* 43(3): 195-198.

1282. Kim, W., Shin, D. J., Harihara, S., and Kim, Y. J. (2000) Y chromosomal DNA variation in east Asian populations and its potential for inferring the peopling of Korea. *J.Hum.Genet.* 45(2): 76-83.

1045. Kloosterman, A. D., Pouwels, M., Daselaar, P., and Janssen, H. J. T. (1998) Population genetic study of Y-chromosome specific STR-loci in Dutch caucasians. *Advances in Forensic Genetics* 7 (1997). 7: 491-493.

1067. Komuro, T., Nakamura, M., Tsutsumi, H., and Mukoyama, R. (1998) Gender determination from dental pulp by using capillary gel electrophoresis of amelogenin locus. *J.Forensic Odontostomatol.* 16(2): 23-26.

1170. Kupiec, T., Branicki, W., van Mersbergen, C., van Hemert, G., and Kloosterman, A. (2000) Population genetic study of Y chromosome specific STR-loci in a population sample from southern Poland. *Progress in Forensic Genetics* 8 (1999). 8: 312-314.

802. Lahermo, P., Savaontaus, M.-L., Sistonen, P., Beres, J., de Knijff, P., Aula, P., and

- Sajantila, A. (1999) Y chromosomal polymorphisms reveal founding lineages in the Finns and the Saami. *Eur.J.Hum.Genet.* 7(4): 447-458.
422. Lee, S. D. and Lee, J. B. (1996) Allele frequency and its forensic application of STR Y27 in Korean males. *J.Korean Med.Sci.* 11(5): 386-389.
612. Lell, J. T., Brown, M. D., Schurr, T. G., Sukernik, R. I., Starikovskaya, Y. B., Torroni, A., Moore, L. G., Troup, G. M., and Wallace, D. C. (1997) Y chromosome polymorphisms in Native American and Siberian populations: Identification of Native American Y chromosome haplotypes. *Hum.Genet.* 100(5-6): 536-543.
656. Lessig, R. and Edelmann, J. (1998) Y chromosome polymorphisms and haplotypes in West Saxony (Germany). *Int.J.Legal Med.* 111(4): 215-218.
640. Lin, S-J., Ko, Y. H., Wang, W.-P., Lai, M.-D., and Lai, M.-L. (1995) Population genetic study of selected tetranucleotide repeat DNA polymorphisms on chromosomes Y and 12. *J.Formos.Med.Assoc.* 94(6): 318-321.
627. Lin, S. J., Ko, Y. H., Nakahori, Y., and Nakagome, Y. (1996) Long Y-associated (GATA)_n alleles were observed in a few ethnic groups in. *Japanese Journal of Human Genetics.* 41(2): 243-246.
100. Lin, Z., Kondo, T., Minamino, T., Ohtsuji, M., Nishigami, J., Takayasu, T., Sun, R., and Ohshima, T. (1995) Sex determination by polymerase chain reaction on mummies discovered at Taklamakan desert in 1912. *Forensic Sci.Int.* 75: 197-205.
808. Lucotte, G. and Loirat, F. (1999) Y-chromosome DNA haplotype 15 in Europe. *Hum.Biol.* 71(3): 431-437.
1242. Malaspina, P., Ciminelli, B. M., Viggiano, L., Jodice, C., Cruciani, F., Santolamazza, P., Sellitto, D., Scorzari, R., Terrenato, L., Rocchi, M., and Novelletto, A. (1997) Characterization of a small family (CAIII) of microsatellite-containing sequences with X-Y homology. *J.Mol.Evol.* 44(6): 652-659.
1208. Martin, P., Albaran, C., Garcia, O., Garcia, P., Sancho, M., and Alonso, A. (2000) Application of Y-STR analysis to rape cases that cannot be solved by autosomal STR analysis. *Progress in Forensic Genetics* 8 (1999). 8: 526-528.
1266. Matsuo, Y., Nishizaki, C., and Drexler, H. G. (1999) Efficient DNA fingerprinting method for the identification of cross- culture contamination of cell lines. *Hum.Cell.* 12 (3): 149-154.
892. Minaguchi, K. (1999) The DYS19 system in the Japanese population and its

- detection using teeth as a source of DNA. *Bull.Tokyo Dent.Coll.* 40(1): 21-26.
1088. Mitchell, R. J. and Hammer, M. F. (1996) Human evolution and the Y chromosome. *Curr.Opin.Genet.Dev.* 6(6): 737-742.
1172. Mukoyama, R., Tsutsumi, H., Komuro, T., and Mukoyama, H. (2000) Allele frequencies of four Y-chromosomal STR loci in Japanese population and their repeat structures. *Progress in Forensic Genetics* 8 (1999). 8: 318-320.
619. Muller, S., Gomolka, M., and Walter, H. (1994) The Y-specific SSLP of the locus DYS19 in four different European samples. *Hum.Hered.* 44(5): 298-300.
860. Nata, M., Brinkmann, B., and Rolf, B. (1999) Y-chromosomal STR haplotypes in a population from north west Germany. *Int.J.Legal Med.* 112: 406-408.
98. Neeser, D. and Liechti-Gallati, S. (1995) Sex determination of forensic samples by simultaneous PCR amplification of a-satellite DNA from both the X and Y chromosomes. *J.Forensic Sci.* 40(2): 239-241.
913. Parra, E., Shriver, M. D., Soemantri, A., McGarvey, S. T., Hundrieser, J., Saha, N., and Deka, R. (1999) Analysis of five Y-specific microsatellite loci in Asian and Pacific populations. *Am.J.Phys.Anthropol.* 110(1): 1-16.
924. Parra, E., Saha, N., Soemantri, A. G., McGarvey, S. T., Hundrieser, J., Shriver, M. D., and Deka, R. (1999) Genetic variation at 9 autosomal microsatellite loci in Asian and Pacific populations. *Hum.Biol.* 71(5): 757-779.
709. Pascali, V. L., Dobosz, M., and Brinkmann, B. (1998) Coordinating Y-chromosomal STR research for the courts. *Int.J.Legal Med.* 112(1): 1-1.
636. Passarino, G., Semino, O., Quintana-Murci, L., Excoffier, L., Hammer, M., and Santachiara-Benerecetti, A. S. (1998) Different genetic components in the Ethiopian population, identified by mtDNA and Y-chromosome polymorphisms. *Am.J.Hum.Genet.* 62(2): 420-434.
816. Pawlowski, R., Branicki, W., and Kupiec, T. (1999) Y-chromosomal polymorphic loci DYS19, DYS390, DYS393 in a population sample from northern Poland. *Electrophoresis.* 20(8): 1702-1706.
551. Perez-Lezaun, A., Calafell, F., Seielstad, M., Mateu, E., Comas, D., Bosch, E., and Bertranpetti, J. (1997) Population genetics of Y-chromosome short tandem repeats in humans. *J.Mol.Evol.* 45(3): 265-270.
803. Perez-Lezaun, A., Calafell, F., Comas, D., Mateu, E., Bosch, E., Martinez-Arias, R.,

- Clarimon, J., Fiori, G., Luiselli, D., Facchini, F., Pettener, D., and Bertranpetti, J. (1999) Sex-specific migration patterns in Central Asian populations, revealed by analysis of y-chromosome short tandem repeats and mtDNA. *Am.J.Hum.Genet.* 65(1): 208-219.
1027. Pestoni, C., Cal, M. L., Bellas, S., Barral, S., Lareu, M. V., Rodriguez-Calvo, M. S., and Carracedo, A. (1998) Y-chromosome STR haplotypes: construction of allelic ladders, sequencing data, and population data from Galicia (NW Spain). *Advances in Forensic Genetics* 7 (1997). 7: 421-423.
708. Pestoni, C., Cal, M. L., Lareu, M. V., Rodriguez-Calvo, M. S., and Carracedo, A. (1998) Y chromosome STR haplotypes: genetic and sequencing data of the Galician population (NW Spain). *Int.J.Legal Med.* 112(1): 15-21.
1163. Phillips, C. P., Thacker, C., Sandher, S., and Syndercombe Court, D. (2000) UK caucasian databases for six Y chromosome STRs. *Progress in Forensic Genetics* 8 (1999). 8: 290-292.
1155. Previdere, C., Tyler-Smith, C., Grignani, P., and Peloso, G. (2000) Y-chromosomal haploypes and haplogroups in male identification. *Progress in Forensic Genetics* 8 (1999). 8: 257-259.
468. Prinz, M., Boll, K., Baum, H., and Shaler, B. (1997) Multiplexing of Y chromosome specific STRs and performance for mixed samples. *Forensic Sci.Int.* 85: 209-218.
486. Prinz, M., Hyde, M., Baum, H., and Shaler, R. (1997) New York City area population data for Y-chromosome specific STRs. *Proceedings from the Seventh International Symposium on Human Identification*. 170-170.
1221. Prinz, M., Ishii, A., Sansone, M., Baum, H., and Shaler, R. (2000) Y chromosome specific STR testing and the US legal system. *Progress in Forensic Genetics* 8 (1999). 8: 591-594.
931. Pritchard, J. K., Seielstad, M. T., Perez-Lezaun, A., and Feldman, M. W. (1999) Population growth of human Y chromosomes: a study of Y chromosome microsatellites. *Mol.Biol.Evol.* 16(12): 1791-1798.
909. Qamar, R., Ayub, Q., Khaliq, S., Mansoor, A., Karafet, T., Mehdi, S. Q., and Hammer, M. F. (1999) African and Levantine origins of Pakistani YAP+ Y chromosomes. *Hum.Biol.* 71(5): 745-755.
845. Quintana-Murci, L., Semino, O., Minch, E., Passarino, G., Brega, A., and Santachiara-Benerecetti, A. S. (1999) Further characteristics of proto-European y chromosomes. *Eur.J.Hum.Genet.* 7(5): 603-608.

1265. Quintana-Murci, L., Semino, O., Poloni, E. S., Liu, A., Van Gijn, M., Passarino, G., Brega, A., Nasidze, I. S., Maccioni, L., Cossu, G., al Zahery, N., Kidd, J. R., Kidd, K. K., and Santachiara-Benerecetti, A. S. (1999) Y-chromosome specific YCAII, DYS19 and YAP polymorphisms in human populations: a comparative study. *Ann.Hum.Genet.* 63 (Pt 2): 153-166.
510. Redd, A. J., Clifford, S. L., and Stoneking, M. (1997) Multiplex DNA typing of short tandem repeat loci on the Y-chromosome. *Biol.Chem.* 378(8): 923-927.
103. Reynolds, R. and Varlaro, J. (1996) Gender determination of forensic samples using PCR amplification of ZFX/ZFY gene sequences. *J.Forensic Sci.* 41(2): 279-286.
1053. Ricci, U., Vieri, F., Scarselli, B., Knusel, P., and Giovannucci Uzielli, M. L. (1998) Analysis of the Y-chromosome: the Y27H39 polymorphism in a population sample of Tuscany region (Central Italy). *Advances in Forensic Genetics* 7 (1997). 7: 531-532.
1161. Ricci, U., Vieri, F., Guarducci, S., Biondi, C., Gori, F., Sereni, A., and Giovannucci Uzielli, M. L. (2000) A survey of nine Y-STRs as forensic identification markers in the population of Tuscany (Central Italy). *Progress in Forensic Genetics* 8 (1999). 8: 275-277.
578. Rodriguez-Delfin, L., Santos, S. E. B., and Zago, M. A. (1997) Diversity of the human Y-chromosome of South American Ameridians: a comparison of blacks, whites, and Japanese from Brazil. *Annals of Human Genetics*. 61: 439-448.
95. Roewer, L. and Epplen, J. T. (1992) Rapid and sensitive typing of forensic stains by PCR amplification of polymorphic simple repeat sequences in case work. *Forensic Sci.Int.* 53: 163-171.
145. Roewer, L., Arnemann, J., Spurr, N. K., Grzeschik, K.-H., and Epplen, J. T. (1992) Simple repeat sequences on the human Y chromosome are equally polymorphic as their autosomal counterparts. *Hum.Genet.* 89: 389-394.
225. Roewer, L., Kayser, M., Nagy, M., and de Knijff, P. (1996) Male identification using Y-chromosomal STR polymorphisms. *Advances in Forensic Haemogenetics*. 6: 124-126.
144. Roewer, L., Kayser, M., Dieltjes, P., Nagy, M., Bakker, E., Krawczak, M., and de Knijff, P. (1996) Analysis of molecular variance (AMOVA) of Y-chromosome-specific microsatellites in two closely related human populations. *Hum.Mol.Genet.* 5(7): 1029-1033.
1024. Roewer, L. (1998) The Y-chromosome: Forensic application and evolutionary aspects. *Advances in Forensic Genetics* 7 (1997). 7: 407-412.

1223. Roewer, L., Kayser, M., Anslinger, K., Augustin, C., Caglia, A., Corach, D., Furedi, S., Geserick, G., Henke, L., Hidding, M., Kargel, H. J., de Knijff, P., Lessig, R., Pascali, V. L., Parson, W., Prinz, M., Rolf, B., Schmitt, C., Schneider, P., Szibor, R., Teifel-Greding, J., and Krawczak, M. (2000) Caucasian Y-STR haplotype reference database for forensic application. *Progress in Forensic Genetics* 8 (1999). 8: 613-615.
780. Rolf, B., Meyer, E., Brinkmann, B., and de Knijff, P. (1998) Polymorphism at the tetranucleotide repeat locus DYS389 in 10 populations reveals strong geographic clustering. *Eur.J.Hum.Genet.* 6(6): 583-588.
700. Rossi, E., Rolf, B., Schurenkamp, M., and Brinkmann, B. (1999) Y-chromosome STR haplotypes in an Italian population sample. *Int.J.Legal Med.* 112(1): 78-81.
474. Roy, R. and Steffens, D. L. (1997) Infared fluorescence detection of PCR amplified gender identifying alleles. *J.Forensic Sci.* 42(3): 452-460.
1071. Ruiz-Linares, A., Ortiz-Barrientos, D., Figueroa, M., Mesa, N., Munera, J. G., Bedoya, G., Velez, I. D., Garcia, L. F., Perez-Lezaun, A., Bertranpetti, J., Feldman, M. W., and Goldstein, D. B. (5-25-1999) Microsatellites provide evidence for Y chromosome diversity among the founders of the New World. *Proc.Natl.Acad.Sci.U.S.A.* 96(11): 6312-6317.
1089. Ruiz, Linares A., Nayar, K., Goldstein, D. B., Hebert, J. M., Seielstad, M. T., Underhill, P. A., Lin, A. A., Feldman, M. W., and Cavalli Sforza, L. L. (1996) Geographic clustering of human Y-chromosome haplotypes. *Ann.Hum.Genet.* 60 (Pt 5): 401-408.
135. Sajantila, A., Salem, A.-H., Savolainen, P., Bauer, K., Gierig, C., and Paabo, S. (1996) Paternal and maternal DNA lineages reveal a bottleneck in the founding of the Finnish population. *Proc.Natl.Acad.Sci.USA.* 93: 12035-12039.
155. Santos, F. R., Epplen, J. T., and Pena, S. D. J. (1993) Testing deficiency paternity cases with a Y-linked tetranucleotide repeat polymorphism. 261-265.
94. Santos, F. R., Pena, S. D. J., and Epplen, J. T. (1993) Genetic and population study of a Y-linked tetranucleotide repeat DNA polymorphism with a simple non-isotopic technique. *Hum.Genet.* 90: 655-656.
614. Santos, F. R., Bianchi, N. O., and Pena, S. D. J. (1996) Worldwide distribution of human Y-chromosome haplotypes. *Genome Res.* 6(7): 601-611.
405. Santos, F. R., Gerelsaikhan, T., Munkhtuja, B., Oyunsuren, T., Epplen, J. T., and Pena, S. D. J. (1996) Geographic differences in the allele frequencies of the human Y-linked tetranucleotide polymorphism DYS19. *Hum.Genet.* 97: 309-313.

1241. Santos, F. R., Carvalho-Silva, D. R., and Pena, S. D. J. (1999) PCR-based DNA profiling of human y chromosomes. (9): 133-152.
762. Sasaki, M. and Shiono, H. (1999) The polymorphisms of DYS388 and DYS392 on the Y-chromosome in Japanese and German populations. *Int.J.Legal Med.* 112(2): 132-133.
1269. Sasaki, M. and Dahiya, R. (2000) The polymorphisms of various short tandem repeats on the Y chromosome in Japanese and German populations. *Int.J.Legal Med.* 113 (2): 181-188.
725. Schneider, P. M., Meuser, S., Waiyawuth, W., Seo, Y., and Rittner, C. (1998) Tandem repeat structure of the duplicated Y-chromosomal STR locus DYS385 and frequency studies in the German and three Asian populations. *Forensic Sci.Int.* 97(1): 61-70.
893. Schneider, P. M., d'Aloja, E., Dupuy, B. M., Eriksen, B., Jangblad, A., Kloosterman, A. D., Kratzer, A., Lareu, M. V., Pfitzinger, H., Rand, S., Scheithauer, R., Schmitter, H., Skitsa, I., Syndercombe-Court, D., and Vide, M. C. (6-28-1999) Results of collaborative study regarding the standardization of the Y-linked STR system DYS385 by the European DNA Profiling (EDNAP) group. *Forensic Sci.Int.* 102(2-3): 159-165.
1262. Scozzari, R., Cruciani, F., Malaspina, P., Santolamazza, P., Ciminelli, B. M., Torroni, A., Modiano, D., Wallace, D. C., Kidd, K. K., Olckers, A., Moral, P., Terrenato, L., Akar, N., Qamar, R., Mansoor, A., Mehdi, S. Q., Meloni, G., Vona, G., Cole, D. E., Cai, W., and Novelletto, A. (1997) Differential structuring of human populations for homologous X and Y microsatellite loci. *Am.J.Hum.Genet.* 61(3): 719-733.
1285. Semino, O., Passarino, G., Quintana-Murci, L., Liu, A., Beres, J., Czeizel, A., and Santachiara-Benerecetti, A. S. (2000) MtDNA and Y chromosome polymorphisms in Hungary: inferences from the palaeolithic, neolithic and Uralic influences on the modern Hungarian gene pool. *Eur.J.Hum.Genet.* 8(5): 339-346.
846. Shinka, T., Tomita, K., Toda, T., Kotliarov, S. E., Lee, J., Kuroki, Y., Jin, D. K., Tokunaga, K., Nakamura, H., and Nakahori, Y. (1999) Genetic variations on the Y chromosome in the Japanese population and implications for modern human Y chromosome lineage. *J.Hum.Genet.* 44(4): 240-245.
402. Shiono, H. (1996) Personal identification using DNA polymorphism--the identification of forensic biological materials--. *Nippon Hoigaku Zasshi (The Japanese Journal of Legal Medicine)*. 50(5): 320-330.
1081. Skorecki, K., Selig, S., Blazer, S., Bradman, R., Bradman, N., Waburton, P. J., Ismajlowicz, M., and Hammer, M. F. (1-2-1997) Y chromosomes of Jewish priests.

Nature. 385(6611): 32-

104. Stacks, B. and Witte, M. M. (1996) Sex determination of dried blood stains using the polymerase chain reaction (PCR) with homologous X-Y primers of the zinc finger protein gene. *J.Forensic Sci.* 41(2): 287-290.
1094. Sykes, B. and Irven, C. (2000) Surnames and the Y Chromosome. *Am.J.Hum.Genet.* 66(4): 1417-1419.
1159. Tagliabracci, A., Buscemi, L., Pesaresi, M., Rodriguez, D., Caenazzo, L., Ponzano, E., Fenato, F. A., Cortivo, P., Previdere, C., Peloso, G., Grignani, P., Pierucci, G., Polizzi, E., Nardone, M., Della Mora, C., and Domenici, R. (2000) Population study and paternity testing of seven Y-chromosome STR-loci in an Italian population sample. *Progress in Forensic Genetics* 8 (1999). 8: 269-271.
823. Thangaraj, K., Ramana, G., and Singh, L. (1999) Y-chromosome and mitochondrial DNA polymorphisms in Indian populations. *Electrophoresis.* 20(8): 1743-1747.
1238. Thomas, M. G., Bradman, N., and Flinn, H. M. (1999) High throughput analysis of 10 microsatellite and 11 diallelic polymorphisms on the human Y-chromosome. *Hum.Genet.* 105(6): 577-581.
168. Trabetti, E., Casartelli, A., and Pignatti, P. F. (1994) Application of a Y-linked tetranucleotide repeat polymorphism to paternity cases. *Advances in Forensic Haemogenetics.* 5: 187-189.
830. Tun, Z., Honda, K., Nakatome, M., Nakamura, M., Shimada, S., Ogura, Y., Kuroki, H., Yamazaki, M., Terada, M., and Matoba, R. (1999) Simultaneous detection of multiple STR loci on sex chromosomes for forensic testing of sex and identity. *J.Forensic Sci.* 44 (4): 772-777.
1158. Umetsu, K., Watanabe, G., Yuasa, I., Ago, K., Nakayashiki, N., Miyoshi, A., and Kashimura, S. (2000) Haplotype distribution of four Y chromosomal STR loci in the east Asian populations. *Progress in Forensic Genetics* 8 (1999). 8: 266-268.
587. Underhill, P. A., Li, J., Zemans, R., Oefner, P. J., and Cavalli-Sforza, L. L. (1996) A pre-Columbian Y chromosome-specific transition and its implications for human evolutionary history. *Proc.Natl.Acad.Sci.USA.* 93(1): 196-200.
635. Underhill, P. A., Jin, L., Lin, A. A., Mehdi, Q., Jenkins, T., Vollrath, D., Davis, R. W., Cavalli-Sforza, L. L., and Oefner, P. J. (1997) Detection of numerous Y-chromosome biallelic polymorphisms by denaturing high-performance liquid chromatography. *Genome Res.* 7(10): 996-1005.

922. Vandenberg, N., van Oorschot, R. A., Tyler-Smith, C., and Mitchell, R. J. (1999) Y-chromosome-specific microsatellite variation in Australian aborigines. *Hum.Biol.* 71(6): 915-931.
1096. Weaver, D. A., Hei, T. K., Hukku, B., Demuth, J. P., Crawford, E. L., McRaven, J. A., Girgis, S., and Willey, J. C. (2000) Localization of tumor suppressor gene candidates by cytogenetic and short tandem repeat analyses in tumorigenic human bronchial epithelial cells. *Carcinogenesis.* 21(2): 205-211.
316. Weichhold, G. M., Keil, W., and Bayer, B. (1996) The Y-linked locus Y27H39 (DYS19), frequency distribution in South Bavarian and application to paternity testing. *Advances in Forensic Haemogenetics.* 6: 641-643.
1072. White, P. S., Tatum, O. L., Deaven, L. L., and Longmire, J. L. (5-1-1999) New, male-specific microsatellite markers from the human Y chromosome. *Genomics.* 57(3): 433-437.
1069. Zerjal, T., Dashnyam, B., Pandya, A., Kayser, M., Roewer, L., Santos, F. R., Schiefenhovel, W., Fretwell, N., Jobling, M. A., Harihara, S., Shimizu, K., Semjidmaa, D., Sajantila, A., Salo, P., Crawford, M. H., Ginter, E. K., Evgrafov, O. V., and Tyler-Smith, C. (1997) Genetic relationships of Asians and Northern Europeans, revealed by Y-chromosomal DNA analysis. *Am.J.Hum.Genet.* 60(5): 1174-1183.

153 references as of 12/16/04