

CURRICULUM VITAE

Name: MICHAEL LEONARD BAIRD

Address: DNA Diagnostics Center
One DDC Way
Fairfield, Ohio 45014

Education:

Ph.D. – Genetics	The University of Chicago Chicago, Illinois 60637	1978
M.A. - Biology	State University of New York New Paltz, New York 12566	1973
B.A. - Biology	Drew University Madison, New Jersey 07940	1971

Positions:

Laboratory Director	DNA Diagnostics Center	2002 - present
Senior Director Laboratory Operations	Orchid Diagnostics	2001 - 2002
Vice President Laboratory Operations	Lifecodes Corporation	1992 -2001
Director Business Development	Lifecodes Corporation	1990 - 1992
Director of Forensics and Paternity	Lifecodes Corporation	1986 - 1990
Senior Scientist	Lifecodes Corporation	1982 - 1986
Adjunct Assistant Professor	New York Medical College	1986 - 1992
Research Associate	Columbia University	1979 - 1982
Postdoctoral Fellow	University of Michigan	1978 - 1979

Societies:

The American Academy of Forensic Sciences
American Association for the Advancement
of Science
American Association of Blood Banks
American Society of Hematology
American Society of Human Genetics
Sigma Chi Society
International Society for Forensic Genetic
American Society of Crime Laboratory Directors
American Society of Histocompatibility and
Immunogenetics

Licenses:

1. New York State Department of Health
Certificate of Qualification Number B 3447
Histocompatibility (HLA typing with DNA
probes) Paternity/Identity Analysis
2. State of Connecticut Department of Health
Certificate of Qualification Number 381
Clinical Laboratory Director
3. Department of Health & Human Services
Laboratory Registration Certificate
CLIA ID # 07D0880801
4. American Society of Histocompatibility
and Immunogenetics, Laboratory Director
of Histocompatibility Laboratory

Professional Society Positions Held:

American Association of Blood Banks, Chair Parentage Testing Accreditation Program
Unit, Liaison to Parentage Testing Standards Committee, Member of Accreditation
Program Committee, Assessor of Parentage Testing Laboratories for AABB
Human Identity Trade Association, President
American Society of Histocompatibility and Immunogenetics, Inspector

BIBLIOGRAPHY

1. Garber, E. D., M. L. Baird, and D. J. Chapman. 1975. Genetics of Ustilago violacea. I. Carotenoid mutants and carotenogenesis. *Botanical Gazette*. 136:341-346.
2. Garber, E. D., M. L. Baird, and L. M. Weiss. 1978. Genetics of Ustilago violacea. II. Polymorphisms of color and nutritional requirements of sporidia from natural populations. *Botanical Gazette*. 139:261-265.
3. Catrall, M. E., M. L. Baird, and E. D. Garber. 1978. Genetics of Ustilago violacea. III. Crossing over and nondisjunction. *Botanical Gazette*. 139:266-270.
4. Baird, M. L. and E. D. Garber. 1979. Genetics of Ustilago violacea. IV. An electrophoretic survey for urease variants in wild strains. *Botanical Gazette*. 140:84-88.
5. Baird, M. L. and E. D. Garber. 1979. Genetics of Ustilago violacea. V. Outcrossing and selfing in teliospore inocula. *Botanical Gazette*. 140:89-93.
6. Bank, A., J. G. Mears, F. Ramirez, M. Baird, and J. Feldenzer. 1979. Organization of normal and abnormal human globin genes by restriction enzyme analysis. In Sigler, P. B. (Ed.): Proceedings of the Symposium on the Molecular Basis of Mutant Hemoglobin Dysfunction. Illinois. Elsevier/North Holland.
7. Bank, A., J. G. Mears, F. Ramirez, A. L. Burns, S. Spence, J. Feldenzer, and M. Baird. 1980. The organization of the gamma-delta-beta gene complex in normal and thalassemia cells. In Huisman, T. H. J. (Ed.): Proceedings of the Seminar of Abnormal Human Hemoglobins and Red Cell Enzymes. New York.
8. Bank, A., J. G. Mears, F. Ramirez, A. L. Burns, S. Spence, J. Feldenzer, and M. Baird. 1980. The organization of the gamma-delta-beta gene complex in normal and thalassemia cells. *Hemoglobin*. 4:497-507.
9. Bank, A., A. L. Burns, M. Baird, and R. Pergolizzi. 1981. Globin gene pathology: Clues to gene function and hemoglobin switching. In Stamatoyannopoulos, G. and A. W. Nienhuis (Eds.): Organization and Expression of Globin Genes. Liss/New York.

10. Baird, M. L., C. Driscoll, H. Schreiner, G. V. Sciarratta, G. Sansone, G. Niazi, F. Ramirez, and A. Bank. 1981. A nucleotide change at a splice junction in the human beta globin gene is associated with beta zero thalassemia. *Proceedings of the National Academy of Sciences*. 78:4218-4221.
11. Baird, M., H. Schreiner, C. Driscoll, and A. Bank. 1981. Localization of the site of recombination in formation of the Lepore Boston globin gene. *Journal of Clinical Investigation*. 68:560-564.
12. Driscoll, C., M. Baird, and A. Bank. 1981. A new polymorphism in the human beta globin gene useful in antenatal diagnosis. *Journal of Clinical Investigation*. 68:915-919.
13. Burns, A. L., S. Spence, K. A. Kosche, F. Ramirez, J. G. Mears, H. Schreiner, C. Miller, M. Baird, D. Leibowitz, P. Giardina, A. Markenson, and A. Bank. 1981. Isolation and characterization of cloned DNA: The delta and beta globin genes in homozygous beta plus thalassemia. *Blood*. 57:140-146.
14. Bank, A., M. Baird, M. C. Driscoll, R. G. Pergolizzi, and S. Spence. 1982. Gene defects in the thalassemias: Recent advances in detection and treatment. In Cao, A., Carassi, U., and Rowley P. (Eds). Organization of Globin Genes. Liss/New York.
15. Bank, A., S. E. Spence, P. G. Pergolizzi, M. C. Driscoll, and M. Baird. 1983. Gene defects in beta thalassemia. In Goldwasser, E. (Ed.): Regulation of Hemoglobin Biosynthesis. Elsevier/Holland.
16. Baird, M., M. C. Driscoll, B. Ramot, Y. Ohta, F. Nakamura, A. Bloom, and A. Bank. 1983. Gene analysis in delta-beta and delta zero thalassemia. *Journal of Biological Chemistry*. 259:512-515.
17. Beldjord, C., C. Lapourmourlie, M. Baird, R. Girot, L. Adjrad, G. Lenoir, M. Benabadji, and D. Labie. 1983. Four new haplotypes observed in Algerian beta thalassemia patients. *Human Genetics*. 65:204-206.
18. Baird, M., E. Kanter, R. Schaler, and I. Balazs. 1986. Application of DNA polymorphisms to the forensic examination of dried blood stains. In Brinkmann, B. and Henningsen, K. (Eds): Advances in Forensic Haemogenetics. pp 351-355.

19. Baird, M., A. Giusti, I. Balazs, and J. Glassberg. 1986. Application of DNA polymorphisms to the forensic examination of semen. In Brinkmann, B. and Henningsen, K. (Eds.): Advances in Forensic Haemogenetics. pp 354-360.
20. Balazs, I., K. Wexler, L. Nicholas, L. Miyazaki, A. Giusti, M. Baird, P. Rubinstein, F. Allen, and L. Sussman. 1986. Application of DNA polymorphisms to the determination of paternity. In Brinkmann, B. and Henningsen, K. (Eds): Advances in Forensic Haemogenetics. pp 196-200.
21. Kanter, E., M. Baird, R. Shaler, and I. Balazs. 1986. Analysis of restriction fragment length polymorphisms in deoxyribonucleic acid (DNA) recovered from dried bloodstains. Journal of Forensic Sciences. 31:403-408.
22. Giusti, A., M. Baird, S. Pasquale, I. Balazs, and J. Glassberg. 1986. Application of deoxyribonucleic (DNA) polymorphisms to the analysis of DNA recovered from sperm. Journal of Forensic Sciences. 31:409-417.
23. Baird, M., I. Balazs, A. Giusti, L. Miyazaki, L. Nicholas, K. Wexler, E. Kanter, J. Glassberg, F. Allen, P. Rubinstein, and L. Sussman. 1986. Allele frequency distribution of two highly polymorphic DNA sequences in three ethnic groups and its application to the determination of paternity. American Journal of Human Genetics. 39:489-501.
24. Benn, P., L. Soper, A. Eisenberg, T. Silver, M. Coleman, B. Caccapaglia, L. Bennett, M. Baird, M. Silverstein, C. Berger, and B. Bernhardt. 1987. Utility of molecular genetic analysis of BCR rearrangement in the diagnosis of chronic myeloid leukemia. Cancer Genetics and Cytogenetics. 29:1-7.
25. Soper, L., B. Bernhardt, A. Eisenberg, B. Caccapaglia, L. Bennett, M. Baird, and R. Silver. 1987. Clonal immunoglobulin gene rearrangements in chronic lymphocytic leukemia: A correlative study. American Journal of Hematology. 27:257-264.
26. Baird, M., M. Clyne, E. Meade, L. Ratzlaff, G. Smalls, K. Wexler, P. Benn, I. Balazs, and J. Glassberg. 1988. The application of DNA-Print for the estimation of paternity. Advances in Forensic Haemogenetics 2. pp 354-358.

27. Baird, M., A. Giusti, E. Meade, M. Clyne, R. Shaler, P. Benn, I. Balazs, and J. Glassberg. 1988. The application of DNA-Print for identification from forensic biological materials. Advances in Forensic Haemogenetics 2. pp 396-402.
28. Balazs, I., M. Baird, M. Clyne, and E. Meade. 1989. Human population genetic studies of five hypervariable DNA loci. *American Journal of Human Genetics*. 44:182-190.
29. McNally, L., R. Shaler, M. Baird, I. Balazs, P. DeForest, and L. Kobilinsky. 1989. Evaluation of deoxyribonucleic acid (DNA) isolated from human bloodstains exposed to ultraviolet light, heat, humidity, and soil contamination. *Journal of Forensic Sciences*. 34:1059-1069.
30. McNally, L., R. Shaler, M. Baird, I. Balazs, L. Kobilinsky, and P. DeForest. 1989. The effects of environment and substrata on deoxyribonucleic acid (DNA): The use of casework samples from New York City. *Journal of Forensic Sciences*. 34:1070-1077.
31. Baird, M. 1989. Quality Control and Quality Assurance. In DNA Technology and Forensic Science. Edited by Ballantyne, J., Sensabaugh, G., and Witkowski, J. Banbury Report 32. pp 175 - 190. Cold Spring Harbor Laboratory Press. New York.
32. McNally, L., M. Baird, K. McElfresh, A. Eisenberg, and I. Balazs. 1990. Increased migration rate observed in DNA from evidentiary material precludes the use of sample mixing to resolve forensic cases of identity. *Applied and Theoretical Electrophoresis*. 1:267-272.
33. Baird, M., K. McElfresh, L. McNally, L. Bennett, J. Coleman, D. Vining, J. Sgueglia, M. Keel, L. Galbreath, R. Cunningham, and I. Balazs. Analysis of Case work samples by single locus VNTR polymorphisms. In Advances in Forensic Haemogenetics 3. Edited by Polesky, H. and Mayr, W. pp 88 - 91. Springer-Verlag, Berlin.
34. Balazs, I., M. Baird, K. McElfresh, and J. Udey. 1990. Hardy-Weinberg equilibrium analysis of DNA polymorphic loci that exhibit a continuous distribution of fragment sizes. In Advances in Forensic Haemogenetics 3. Edited by Polesky, H. and Mayr, W. pp 71 - 74.

35. Balazs, I., M. Baird, K. McElfresh, and R. Shaler. 1990. Experimental techniques for the isolation and analysis of DNA from forensic materials. In DNA Forensic Science Theory, Techniques and Applications. Edited by Robertson, J., Ross, A., and Burgoyne, L. pp 60 -73. Ellis Horwood. New York.
36. Baird, M., I. Balazs, and K. McElfresh. 1990. Examination of Forensic Biological Evidence by DNA Print Analysis. In DNA and Other Polymorphisms in Forensic Science. Edited by H. Lee and R. Gaensslen. pp 61 - 75. Year Book Medical Publishers, Inc. Chicago.
37. Baird, M. 1990. Analysis of Forensic DNA Samples by Single Locus VNTR Probes. In Forensic DNA Technology. Edited by M. Farley and J. Harrington. pp 39 -49. Lewis Publishers, Inc. Michigan.
38. Baird, M. 1991. The Search for Truth in DNA. Invited Editorial. The New Biologist. 3:527-529.
39. Baird, M. 1993. Quality Control in DNA Profiling Tests. in Molecular Biology and Pathology. Edited by D. Farcus. pp 201 - 215. Academic Press, Inc. New York.
40. Baird, M. 1996. Use of DNA Identification for Forensic and Paternity Analysis. Journal of Clinical Laboratory Analysis. Wiley-Liss, New York, in press.
41. Baird, M. 1997. DNA Profiling: Laboratory Methods. In Modern Scientific Evidence. D. Faigman, D. Kaye, M. Saks, and J. Sanders, Eds. West Publishing Company, St. Paul, MN.
42. Baird, M. 1998. Use of the AmpliType PM + HLA DQA1 Amplification and Typing Kits for Identity Testing. In Forensic DNA Profiling Protocols. P. Lincoln and J. Thomson, Eds. Humana Press. Totowa, New Jersey.
43. Reid, T., D. Ingala, C. Kraemer, W. Dage, C. Dieckhoner, J. Forman, D. Hodge, K. Johnson, C. Oatman, H. Schlotman, C. Schuh, and M. Baird. 2003. Distribution of HUMACTBP22 (SE33) Alleles in Three north American Population. Journal of Forensic Sciences. 48:1422-1423.
44. Reid, T, C. Wolf, C. Kraemer, S. Lee, M. Baird, R. Lee. 2004. Specificity of Sibship determination using the ABI Identifiler Multiplex System. Journal of Forensic Sciences.

49:1262-1264.

45. Peterson, J. W, T. Reid, C. Kraemer, D. Ingala, M. Baird, S. Lee, and R. Lee. 2005. Distribution of Penta B, Penta C, and Penta E Alleles in Asian, Black, Caucasian, and Hispanic Populations. *Journal of Forensic Sciences*. 50:966-968.