

CURRICULUM VITAE

Name: Dennis William Bartholomew

Address:

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Education:

9/75 – 6/77 Northwestern University, Evanston, IL
BS awarded June 1979

9/77 – 12/80 Northwestern University Medical School, Chicago, IL
MD awarded Dec 1980

Present Employment:

7/98 – Present *Director*, Biochemical Genetics Laboratory, Department of Pathology, Nationwide Children's Hospital, Columbus, OH

Clinical Professor, Section of Molecular and Human Genetics, Department of Pediatrics, The Ohio State University

Director of Genetics Clinic Services

Program Director, Medical Genetics Residency (Children's)
Program Director, Cytogenetics and Molecular Genetics Fellowship Program

Consultant positions:

Consultant in Medical Genetics for the State of Mississippi, Southern region. August 1987 – June 1998.

Consultant in Medical Genetics (part-time faculty), Departments of Pediatrics and OB/GYN, Women's and Childrens Hospital,

West Virginia University - Charleston Division, Charleston,
WV. Sept 1996 – June 1998.

Research/Clinical Experience:

01/81 - 06/81 Intern in Pediatrics, Children's Memorial Hospital, Chicago, IL

07/81 - 12/81 Intern in Pediatrics, David Grant Medical, Travis AFB, CA

01/82 - 12/83 Resident in Pediatrics, David Grant Medical Center, Travis AFB, CA

01/84 - 06/85 Staff Pediatrician, Department of Pediatrics, USAF Hospital, Grand Forks AFB, ND

07/85 - 06/87 Fellow in Pediatric Genetics, The Johns Hopkins Hospital, Baltimore, MD

07/87 – 06/98 Staff Geneticist and Biochemical/DNA Diagnostic Lab Director, USAF Medical Center, Keesler AFB, MS. **Rank:** Lt. Colonel (0-5), retired.

09/87 - 05/97 Assistant Clinical Professor of Pediatrics, University of Health Sciences for Uniformed Services, Bethesda, MD

05/97 – 06/98 Assistant Clinical Professor of Pediatrics, WVU School of Medicine, Charleston, WV

05/97 - 06/98 Associate Clinical Professor of Pediatrics, University of Health Sciences for Uniformed Services, Bethesda, MD

Licensure:

State of Ohio, #74844 (active)
Formerly licensed in MS, IL, WV (lapsed)

Board Certification:

American Board of Pediatrics (9/86)
American Board of Medical Genetics:
Clinical Genetics (9/87)
Biochemical/Molecular Genetics (9/90)

Awards:

Elected Alpha Omega Alpha Honor Medical Society
Northwestern University Medical School (1980)

Committees:

1998 – 2006 Credentials Committee, Children's Hospital
1998 – 2006 Institutional Review Board and Human Subjects Committee,
Children's Hospital

2004 - Present	Graduate Medical Education Committee, Nationwide Children's Hospital
2000 - Present	State of Ohio Newborn Screening Laboratory Subcommittee
2002 - Present	State of Ohio Newborn Screening Advisory Committee
1990 - 1998	Radiation Safety Committee, Keesler Medical Center
1988 - 1994	Institutional Review Board, Keesler Medical Center
2004 - Present	Chromosome abnormalities and Lethal Disorders Task Force

Professional Societies:

Fellow, American Academy of Pediatrics
Fellow, American College of Medical Genetics
American Society of Human Genetics
Society for Inherited Metabolic Disease
Society for the Study of Inborn Errors of Metabolism
Urea Cycle Disorders Foundation
Alpha Omega Alpha Honor Medical Society

Publications: (*Peer reviewed)

- *1. Bartholomew DW, Jabs EW, Levin LS, Ribovich R. Single Maxillary Central Incisor and Coloboma in Hypomelanosis of Ito. *Clin Genet* 1987; 32:370-373.
2. Bartholomew DW, Batshaw M, Wilson MD, Semenza G. Excessive Protein Intake: A Common Cause of False-positive Neonatal Screening for Tyrosinemia. *Maryland Medical Journal* 1987; 36:429-432.
- *3. Bombard AT, Bartholomew DW, Rigdon DT. Diagnosis of Homocystinuria. *Military Medicine* 1988; 153(11):596-597.
4. Bartholomew DW, Batshaw ML, Allen RH, Roe CR, Rosenblatt D, Valle DL, Francomano CA. Therapeutic Approaches to cobalamin-C methylmalonic acidemia and homocystinuria. *J Pediatr* 1988; 112:32-39.
- *5. Bombard AT, Rigdon DT, Bartholomew DW, Flanagan JC. Analysis of Indications for Referral to a Multidisciplinary Medical Genetics Clinic; Implications for Training Programs in Obstetrics and Gynecology. *Am J Obstet Gynecol* 1990; 162(1):10-14.
- *6. Bombard AT, Rigdon DT, Bartholomew DW, Flanagan JC. Ultrasonographic Findings of Fetal Pleural Effusion and Intrauterine Growth Retardation Indicate Risk for Fetal Trisomy 18. *Applied Cytogenetics* 1991;17:7-9.

7. Bombard AT, Bartholomew DW. Molecular Analysis Following CVS: A Model for Rapid Prenatal Diagnosis of Single Gene Disorders in Military Medicine. *Military Medicine* 1991; 156(12):678-680.
- *8. Maestri NE, Hauser ER, Bartholomew DW, Brusilow SW. Prospective Treatment of Urea Cycle Disorders. *J Pediatr* 1991; 119:923-928.
- *9. Wardinsky TD, Montes RG, Freiderich RL, Broadhurst RB, Sinnhuber V, Bartholomew DW. Vitamin B12 Deficiency in an Infant Associated with Gastric Bypass Surgery. *Archives of Pediatrics and Adolescent Medicine* 1995; 149:1281-1284.
- *10. Bartholomew DW, Abshire T, Fries M, Smith A. Novel Missense Mutation in the Coagulation Factor IX Catalytic Domain Associated with Moderate Disease. *Human Mutation* 1997; 9:72-73.
- *11. Bartholomew DW, McClellan JM. A Novel Polymorphism in the Leptin Gene. *Human Mutation* 1998 (#15), Vol 12, Issue 3, page 220.
- *12. Bartholomew DW, McClellan JM. A Novel Missense Mutation in the Human Ornithine Transcarbamylase Gene. *Human Mutation* 1998 (#16), Vol 12, Issue 3, page 220.
- *13. Hojo S, Fujita J, Miyawaki H, Obayashi Y, Takahara J, Bartholomew DW. Severe Cystic Fibrosis Associated with a $\Delta F508 / R347H + D979A$ compound heterozygous genotype. *Clin Genet* 1998; 53:50-53.
- *14. Bartholomew DW, McClellan JM. A Novel Mutation in the Variably Spliced Region of the Human PLP Gene Associated with Classical Pelizaeus-Merzbacher Disease. *Human Mutation* 1998 (#17), Vol 12, Issue 3, page 220.
- *15. Bartholomew DW, McClellan JM. A Novel Mutation and Polymorphism in the Gene for Aspartylglucosaminuria in a Non-Finnish Family. *Human Mutation* 1998 (#18), Vol 12, Issue 3, page 220.
- *16. Bartholomew DW, McClellan JM. Missense Mutation in the IDUA Gene Associated with Severe Hurler's Phenotype. *Human Mutation* 1998 (#24), Vol 12, Issue 4, pg 291.
- *17. Tsao C.-Y., Mendell JR, Bartholomew DW. High Mitochondrial DNA T8993G Mutation (>90%) Without Typical Features of Leigh's and NARP Syndromes. *Journal of Child Neurology* 2001; 16:533-535.
- *18. Sommer AM and Bartholomew DW. Craniofacial-Deafness-Hand syndrome revisited. *American Journal of Medical Genetics* 2003; 123:1-4.

19. Frank RE and Bartholomew DW. Cystic Fibrosis – A Genetic Dilemma. *Am J Insurance Med* 2004; 36(2):158-161.
- *20. Tsao, C-Y, Bartholomew DW, Wenger GA. Nonketotic hyperglycinemia and seizures with Cri-du-chat syndrome. *Am J Med Genet* 2005; 134(2):198-201.
- *21. Kishnani PS, et al. Recombinant human acid alpha-glucosidase: Major clinical benefits in infantile-onset Pompe disease. *Neurology* 2007; 68(2):99-109.

Abstracts / Presentations:

1. Bartholomew DW, Brusilow SW. Outcome for Infants at Risk for Urea Cycle Disorders Treated Prospectively from Birth (abst). *Ped Res* 1987.
2. Bombard AT, Rigdon DT, Burkhardt W, Bartholomew DW. The Value of Karyotype in a Prepubescent Child With a Pelvic Mass. *Presented* 30 October 1993 @ Armed Forces District (American College of OB/GYN Annual Meeting).
3. Shimizu T, Yamashiro Y, Yabuta K, Bartholomew D, Hubbard DS. Epidemiologic and Genetic Study of Cystic Fibrosis in Japan. *Presented* 5 September 1994 @ 4th Pan Pacific Congress of Pediatric Gastroenterology and Nutrition, Tokyo, Japan.
4. Bartholomew DW, Reilly PA, Rigdon DT, Fries MH, McClellan MM. Optimizing the Laboratory Approach to Fragile(X) Testing - The Keesler Experience. *Proceedings of the Greenwood Genetics Center* 1996; 15:212. *Presented at* Southern Genetics Meeting (SERGG) July 1995.
5. Bartholomew DW, McClellan JM, Chatfield BA, Highsmith JM, Chamberlain L. Eight Novel CFTR Mutations in a Military Dependent Population. *Proceedings of the Greenwood Genetics Center* 1996; 15:212. *Presented at* Southern Genetics Meeting (SERGG) July 1995.
6. Yalcinkaya T, Feng JY, Bartholomew DW. Expression of GABA-A Receptor Subunit Genes In Human Uterus, Oviduct and Ovary. *Presented at* The Endocrine Society Meeting 10 February 1997.
7. Fries MH, Murphy KM, Flanagan J, Nunes M, McClellan MW, Bartholomew DW. Comprehensive Management for Familial Breast/Ovarian Cancer in a Military Health Care Setting. *Presented at* American Society of Human Genetics Meeting, Oct 1997.

8. Bartholomew DW, McClellan JM. Novel Mutation in the Variably Spliced Region of the Human PLP Gene Associated with Classical Pelizaeus-Merzbacher Disease. *Proceedings of the Greenwood Genetics Center* 1998;17:242 (in press). Presented at Southern Genetics Meeting (SERGG) July 1997.
9. Bartholomew DW, McClellan JM. Discovery of a Novel Mutation and Polymorphism in the Gene for Aspartylglucosaminuria in a Non-Finnish Family. *Proceedings of the Greenwood Genetics Center* 1998; 17:269 (in press). Presented at Southern Genetics Meeting (SERGG) July 1997.
10. Tang NLS, Hui J, Ou Y, Cheung KL, Law LK, Fok TF, Brusilow SW, Bartholomew DW, Hjelm NM. A Symptomatic Ornithine Transcarbamylase (OTC) Carrier in a Chinese Girl Due to An Inherited Heterozygotic *R141Q* Mutation. Presented at the Society for the Study of Inborn Errors of Metabolism in York, England September 1998.
11. Gastier-Foster, J.M., Hamelberg, B., Labanowska, J., Herman, G.E., Bartholomew, D., Wenger, G.D. Molecular cytogenetic characterization of three cases of functional monosomy 10q26.3. Presented at the American Society of Human Genetics Meeting, Philadelphia, PA, October 2000.
12. Sommer AM, Wenger GD, Bartholomew D. A subtelomeric unbalanced 1;17 translocation presenting with hypertelorism. Presented at the David W. Smith Workshop on Malformations and Morphogenesis, Furman University, SC, August 2002.
13. Bartholomew D, Sommer AS. Andersen-Tawil syndrome: Expansion of the phenotype and molecular pathophysiology. Presented at the David W. Smith Workshop on Malformations and Morphogenesis, Furman University, SC, August 2002.
14. Bartholomew D. Poland-Moebius anomaly: Expansion of the Phenotype. Presented at the David W. Smith Workshop on Malformations and Morphogenesis, University of British Columbia, Vancouver, B.C., Canada, August 2003.
15. Bartholomew D. Familial Y-linked Leri-Weill Dyschondrosteosis. Presented at the David W. Smith Workshop on Malformations and Morphogenesis; Snowbird, Salt Lake City, UT August 2004.

Chapters:

1. D. Bartholomew and S. Brusilow. *Abnormalities of Urea Cycle and Ammonium in Neurological Aspects of Pediatrics*. Edited by Bruce Berg, MD. Butterworths; Stoneham MA, 1990; pp. 33-46.

2. D. Bartholomew and M. Batshaw. *Hyperammonemia in Current Therapy in Neonatal-Perinatal Medicine 2*. Edited by NM Nelson. BC Decker, INC, Philadelphia, 1990; pp. 253-257.

Accomplishments:

Established Medical Genetics Outreach Clinic in underserved area of southern Mississippi 1990-1998.

Developed and expanded Biochemical Genetics and Molecular Genetics Laboratories for the Department of Defense at Keesler AFB, MS 1988-1998.

Expanded capabilities of Metabolic Laboratory, Columbus Children's Hospital, to include tandem mass spectrometry capabilities for analysis of inborn errors.

Initiated and coordinated 4th year medical student rotation in Clinical Genetics 2003 – present.

Initiated and developed curriculum for Medical Genetics Residency at Children's Hospital (begun July 2006).