

Curriculum Vitae

CAROLINE ASTBURY, Ph.D., F.A.C.M.G.

Employee Address

Nationwide Children's Hospital
700 children's Drive
Columbus, OH 43205

Employment

2008-Present **Assistant Director** (Cytogenetics), Department of Laboratory Medicine, Nationwide Children's Hospital, Columbus, OH
2004-2007 **Assistant Director** (Cytogenetics), Genetic Testing Laboratory, Southern California Permanente Medical Group, Los Angeles, CA
2001-2004 **Research Associate**, Department of Genetics and Center for Human Genetics, Case Western Reserve University, Cleveland OH, USA
2000-2001 **Postdoctoral Assistant**, Cytogenetics Laboratory, Department of Human Genetics, Medical College of Virginia at Virginia Commonwealth University, Richmond VA, USA
1990-1992 **Trainee Chartered Accountant**, Touche Ross & Co., London, Great Britain
1985-1986 **Research Assistant**, L'Hopital Brugmann, Brussels, Belgium
Supervisor: Dr. Yves Goffin.

Licensure

May 2007 State of California Clinical Cytogeneticist Director license (DRM 49)
January 2005 State of California Clinical Cytogeneticist Scientist license (MTO 393)

Education

2005 **Diplomate of the American Board of Medical Genetics in Clinical Cytogenetics**
Diplomate of the American Board of Medical Genetics in Clinical Molecular Genetics
2001-2004 **ABMG training program in Clinical Cytogenetics and Molecular Genetics**, Department of Human Genetics and Center for Human Genetics, Case Western Reserve University, Cleveland OH, USA.
Supervisor: Stuart Schwartz, Ph.D., F.A.C.M.G.
1994-2000 **Ph.D.**, in Human Genetics, Department of Human Genetics, Medical College of Virginia at Virginia Commonwealth University, Richmond VA, USA. **Dissertation title:** 'Assessment of the role of chromosome 19 in the prostate cancer cell line, M12, and in prostate cancers.'
Advisors: Colleen K. Jackson-Cook, Ph.D., F.A.C.M.G., Department of Human Genetics, and Joy L. Ware, Ph.D., Department of Pathology
1986-1989 **B.Sc. (Hons)** in Biological Sciences, University of Exeter, Great Britain

Membership/Societies

Fellow of American College of Medical Genetics
American Society of Human Genetics

Presentations

- March 2007 Annual Clinical Genetics Meeting (ACMG)
Participant with poster presentation (Case Report of a “45,X male”)
- November 2003 53rd American Society of Human Genetics Annual Conference
Platform Presenter (Delineation of deletions and complexity in ‘balanced’ chromosome rearrangements: Occam’s Razor bites the dust)
- October 2002 52nd American Society of Human Genetics Annual Conference
Participant with poster presentation (Unusual variants of the t(15;17) rearrangement and their implications in the diagnosis/prognosis of acute promyelocytic leukemia)
- May 2002 Ohio Valley Annual Conference
Opening **Presenter** (Utilization of BACs and FISH to study complex chromosome rearrangements)
- October 2001 51st American Society of Human Genetics Annual Conference
Platform Presenter (Elucidation of the mechanisms of chromosome rearrangement: implications for heightened complexity.)
- April 2000 91st American Association for Cancer Research Annual Meeting
Presenter at Poster Discussion Session (*In vitro* and *in vivo* growth suppression of a prostate cancer cell line by microcell-mediated transfer of chromosome 19).
- October 1998 48th American Society of Human Genetics Annual Conference
Participant with poster presentation (Suppression of tumorigenic phenotype in a human prostate cancer cell line via microcell-mediated introduction of chromosome 19).

Teaching Activities

- 2001-2004 Instructor, Medical Student Genetics course
- 1996-1998 Adjunct faculty member and recitation instructor for BIO 102 ‘Science of Heredity’, Virginia Commonwealth University
- 1994 -1998 Instructor for Genetics Program for high school students (Questers)
- 1997-1998 Co-ordinator for Questers Program
- 1995-1998 Assistant, Genetics Recitations for Medical and Dental Students, Virginia Commonwealth University

Honors and Awards

- 2004 Case Western Reserve Department of Genetics Achievement Award
- 2003 American Society of Human Genetics, Postdoctoral Presentation Award
Finalist, 53rd Annual Meeting, Los Angeles CA, November 2003
- 1998 Timothy Merz Travel Award, Virginia Commonwealth University

Publications

Jackson-Cook CK, Bae VL, **Astbury C**, Ware JL: A new tumorigenic human prostate cancer cell line (M2205) with c-myc amplification due to jumping translocations. *Cytogenetics Cell Genet Suppl* (1996)

Astbury C, Ware JL, Barrett C, Jackson-Cook CK: Suppression of tumorigenic phenotype in a human prostate cancer cell line via microcell-mediated introduction of chromosome 19. *Am J Hum Genet* 63(4) Suppl: 326 (1998)

Caroline Astbury, Colleen K. Jackson-Cook, Thomas E. Paisley, J. Carl Barrett, Joy L. Ware: *In vitro* and *in vivo* growth suppression of a prostate cancer cell line by microcell-mediated transfer of chromosome 19. *Am Assoc Cancer Research* (41): 4601 (2000).

Caroline Astbury, Colleen K. Jackson-Cook, J. Carl Barrett, Stephen H. Culp, Thomas E. Paisley, Joy L. Ware: Suppression of tumorigenicity in a human prostate cancer cell line, M12, via microcell-mediated restoration of chromosome 19. *Genes Chrom Cancer* (31): 143-155 (2001)

C. Astbury, L. Christ, A. Kumar, C. Crowe, S. Schwartz: Elucidation of the mechanisms of chromosome rearrangement: implications for heightened complexity. *Am J Hum Gen* 69(4) Suppl: 282 (2001)

C. Astbury, L. Christ, M. Lemos, M. Kochera, S. Schwartz: Unusual variants of the t(15;17) rearrangement and their implications in the diagnosis/prognosis of acute promyelocytic leukemia. *Am J Hum Gen* 71(4) Suppl: 288 (2002)

Jackson-Cook C, Zou Y, Turner K, **Astbury C**, Ware J: A novel tumorigenic human prostate epithelial cell line (M2205): molecular cytogenetic characterization demonstrates C-MYC amplification and jumping translocations. *Cancer Genet Cytogenet* 141(1): 56-64 (2003)

Caroline Astbury, Laurie A. Christ, David J. Aughton, Suzanne B. Cassidy, Arun Kumar, Evan Eichler, Stuart Schwartz: Detection of deletions in *de novo* 'balanced' chromosome rearrangements: further evidence for their role in phenotypic abnormalities.' *Genet Med* 6(2): 81-89 (2004)

Caroline Astbury, Laurie A. Christ, David J. Aughton, Suzanne B. Cassidy, Atsuko Fujimoto, Beth A. Pletcher, Irwin A. Schafer, Stuart Schwartz: Delineation of complex chromosomal rearrangements: evidence for increased complexity. *Hum Genetics* 114(5):448-57 (2004)

'Genetic Testing' **Caroline Astbury** 2006. Chapter in 'Theory and Practice of Histological Techniques' Sixth Edition. Eds. Bancroft and Gamble. Elsevier Ltd. (in print)