

Anjana L. Pettigrew, M.D.

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**CURRICULUM VITAE**  
**May 2010**

**PRESENT TITLE:** Associate Professor of Pathology, Pediatrics,  
 Obstetrics-Gynecology, and Neurology

**ADDRESS:** Office  
 University of Kentucky College of Medicine  
 Department of Pathology  
 800 Rose Street  
 Lexington, KY 40536-0093

**CITIZENSHIP:** United States

**UNDERGRADUATE  
 EDUCATION:**  
 Sep 1972 – Jun 1976 B.A. Degree in Zoology and Chemistry  
 June 1976, Miami University  
 Oxford, Ohio

**GRADUATE  
 EDUCATION:**  
 Sep 1976 –May 1979 Graduate studies  
 University of Texas Medical Branch, Galveston, Texas  
 Research on Glutathione Peroxidase and Catalase Deficiency in the  
 Red Cells and the Lens of Normal and Acatalasemic Mice.

Jul 1979 – Jun 1983 M.D. Degree  
 Baylor College of Medicine  
 Houston, Texas

**POSTGRADUATE  
 TRAINING:**  
 Jun 1983 –Jun 1986 Resident, Department of Pediatrics  
 Baylor College of Medicine  
 Houston, Texas  
 Jul 1986 – Jul 1989 Fellow, Medical Genetics  
 Institute for Molecular Genetics  
 Baylor College of Medicine  
 Houston, Texas  
 Research Projects: Molecular and Cytogenetic Studies in Fragile X  
 Syndrome Carriers. Molecular and Cytogenetic Studies in X-Linked  
 Mental Retardation

[Aug 1989 Relocated from Houston, Texas to Lexington, Kentucky]

**ACADEMIC  
 APPOINTMENTS:**  
 Jun 1996-Present Associate Professor, Departments of Pathology, Pediatrics,

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Sep 1989-Jun 1996  
 Obstetrics-Gynecology, and Neurology  
 University of Kentucky College of Medicine  
 Lexington, Kentucky  
 Assistant Professor of Pathology, Pediatrics and  
 Obstetrics□Gynecology, and Neurology  
 University of Kentucky College of Medicine  
 Lexington, Kentucky

**OTHER WORK HISTORY:**

Jun 1976 – Aug 1976                      Summer research assistant  
 Akron City Hospital, Akron, Ohio

**LICENSURE:**                              Texas, February 1989-present  
 Kentucky, June 1989-present

**CERTIFICATION:**                      American Board of Pediatrics, Certificate, June 16, 1988  
 American Board of Pediatrics, Re-certification, 1996-2002,  
 2002-2009, 2010 - MOC  
 American Board of Medical Genetics, Clinical Genetics, -  
 Certificate, September 15, 1990 (current)  
 American Board of Medical Genetics, Cytogenetics, - Certificate  
 September 15, 1990 (current)

**PROFESSIONAL  
 ORGANIZATIONS:**

American Academy of Pediatrics, Fellow  
 Member, Section on Genetics and Birth Defects  
 American College of Medical Genetics  
 American Society of Human Genetics  
 American Medical Association  
 Kentucky Pediatric Society

**HONORS AND AWARDS:**

Miami M.E.D. - Premedical Honorary  
  
 Phi Sigma - Biological Sciences Honorary  
  
 Outstanding Young Woman of America, 1978  
  
 National Foundation March of Dimes Award for Significant Research  
 in Birth Defects, 1979  
  
 University of Texas Medical Branch Training Grant, 1976-1979  
  
 Baylor Institutional Scholarship, 1979-1980  
  
 National Institutes of Health National Research Service Award,  
 1988-1989  
  
 Junior Investigator Award, Fourth International Workshop on  
 Fragile X Syndrome and X-linked Mental Retardation, 1989

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<b>ADMINISTRATION:</b>	<p>Director, Cytogenetics Lab, 1989-present</p> <p>Medical Director, Maternal Serum Screening Program, 1999-present</p>
<b>COMMITTEES:</b>	<p>Cell and Molecular Pathology Quality Assurance Committee, member 2003-present, Chairman 2004-present.</p> <p>Diagnostic Imaging and Testing Committee (DITC), member 8/31/09-present</p> <p>DITC subcommittee, New Send Out Tests and Laboratories, member 12/8/09-present</p> <p>Anatomic Pathology Quality Assurance Committee, member 1982-2002</p> <p>Genetics in Kentucky: Preparing for the Future Task Force, 2001-2002</p> <p>Deans Task Force on Faculty Promotions and Tenure, 1998</p>
<b>MEMBER:</b>	<p>College of American Pathologists/American College of Medical Genetics - Cytogenetic Laboratory Proficiency Survey Referee – 1998-2001, 2003-2004</p> <p>Children's Oncology Group, Cytogenetics Laboratory Directors Group, 1990 - present</p> <p>Southwest Oncology Group, Cytogenetics Laboratory Directors Group, 1990 - present</p> <p>College of American Pathologists Inspection Team (1992, 1994, 1995, 1997, 2005, 2006, 2009)</p>
<b>CONTRIBUTING MEMBER:</b>	<p>College of American Pathologists/American College of Medical Genetics Cytogenetics Survey Ad Hoc Contributor of Test Items, 1992, 1994.</p>
<b>ADHOC REVIEWER:</b>	<p>Pediatric Research 2004</p> <p>Clinical Genetics</p>
<b>CONSULTANT:</b>	<p>Cryo Eggs International, 2005-2006</p> <p>Genetics Consultant to Mission Hospital Asheville, North Carolina, 1992-1993</p>
<b>FUNDING:</b>	<p>Grant from Children's Miracle Network Telethon for Implementation of Fluorescence in Situ Hybridization (FISH) Technology into the Cytogenetics Laboratory, University of Kentucky Hospital. Award: \$25,000.</p>

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### NON-SPONSORED RESEARCH:

Chromosome analysis and FISH evaluation of pediatric ALL and AML patients enrolled in Children's Oncology Group (COG) research studies through the Division of Pediatric Hematology & Oncology, Department of Pediatrics, University of Kentucky, 1992-2004, 2005-present

Chromosome analysis of patients enrolled in Southwest Oncology Group (SWOG) research studies through the University of Kentucky and other institutions, 1992-present

### PUBLICATIONS:

#### Abstracts

OBannon A, **Pettigrew AL**, Pulliam, JF, Bayliff, SL (2007). Utilization of fluorescent *in situ* hybridization to distinguish a transient increase in blasts following treatment with granulocyte-colony stimulating factor (G-CSF) from relapsed acute leukemia: case report. **Arch Pathol Lab Med**, **131:1422**.

**Pettigrew AL**, Riel-Romero RMS, Smith CD (2004) Megalocephalic Leukodystrophy with Subcortical Cysts: A report of two siblings and a review of the literature. **Am J Hum Genet**, **75: A611, Supplement**

Pulliam JF, Jezek DA, White PP, Moscow JA, Jennings CD, **Pettigrew AL**. (2001) Detection of a Variant Translocation of P190 BCR-ABL by FISH and Multiplex RT-PCR with Multicolor Fragment Analysis, Including Detection of Minimal Residual Disease. **Am J Hum Genet** **69:A337, Supplement**

**Pettigrew AL**, Skinker D, O'Connor WN (1995) Clinical and Autopsy findings in Non-Mosaic Tetrasomy 9p. **Am J Hum Genet** **57:A122, Supplement**.

**Pettigrew, AL**. (1992) Trisomy 3p: Two new cases and a review of the literature. **Am J Hum Genet** **51: A86, Supplement**.

Ain KB, Taylor KD, Banks ER, **Pettigrew AL**. (1992) Characterization of an immortalized cell line (KAK-1) from a benign human thyroid follicular adenoma. **Thyroid** **2:S49**.

Ciucci GH, Henslee-Downy JP, **Pettigrew AL**, Miara C, Morrow J and the Bone Marrow Transplantation Program at the University of Kentucky (1992) Update on Outcome following Allogenic Bone Marrow Transplant (ABMT) for patients with Hurler syndrome (HS) using alternative marrow donors. **J Cellular Biochem** **16A:212, Supplement**. (Presented at UCLA Symposium: Bone Marrow Transplantation, 1992).

**Pettigrew AL**, Greenberg F, Ledbetter DH (1991) Greig syndrome associated with an interstitial deletion of 7p: Confirmation of the localization of Greig syndrome to 7p13. **Proceedings of the Greenwood Genetic Center**, Volume 10. Jacobs Press, Inc. Clinton, South Carolina.

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Bader PI, **Pettigrew AL** (1991) Amniotic bands in cocaine-exposed infants: Two cases. **Proceedings of the Greenwood Genetics Center**, Volume 10, Jacobs Press, Inc. Clinton, South Carolina.

**Pettigrew AL** (1991) A rare family with dominant inheritance of caudal dysgenesis. **Am J Hum Genet. 49:155, Supplement.**

Henslee-Downey, PJ, **Pettigrew AL**, Schmitt F, Ciocci G, Romond E, Harder E, Marciniak E, and Thompson, JS (1991) The Use of Alternative Donors for Marrow Transplantation in the Correction of Hurler's Syndrome. **Abstracts of the 17th Annual Meeting of EBMT 269:139.** (Presented at the 17th Annual Meeting of EBMT, 1991).

**Pettigrew AL**, Smith JL, and Moses R (1990) Phenotypically discordant monozygotic twins - Cytogenetic discordance masked by twin-twin transfusion? **Am J Hum Genet 47:A37, Supplement.**

Huang, TH-M, Hejtmancik JF, Edwards A, **Pettigrew AL**, Herrera CA, Caskey CT, and Ledbetter DH (1990) A gene for a new X-linked mental retardation disorder is linked to a hypervariable (CTAT)n repeat motif within the human HPRT locus (Xq26). **Am J Hum Genet 47:A184, Supplement.**

Henslee-Downey JP, **Pettigrew AL**, Schmitt F, Ciocci G, Romond E, Harder E, Marciniak E and Thompson JS. (1990) The use of alternative donors for marrow transplantation in the correction of Hurler syndrome. **Blood, 76:544a, Supplement 1.** (Presented at American Society of Hematology, 1990).

Henslee-Downey PJ, **Pettigrew AL**, Ciocci G, Ronald E, Messino MJ, MacDonald JS, Harder E and Thompson JS (1990) Bone marrow transplantation in Hurler syndrome. **Am J Hum Genet 47:A158, Supplement.**

**Pettigrew AL**, Greenberg F, Ledbetter DH, and Caskey CT (1989) Greig Syndrome Associated with an Interstitial Deletion of 7p: Confirmation of the localization of Greig Syndrome. **Am J Hum Genet 45:A87, Supplement.**

**Pettigrew AL**, McCabe ERB, Elder FFB and Ledbetter DH (1988) Isochromosome Xp in a patient with Turner Syndrome. **Am J Hum Genet 43:A118, Supplement.**

**Pettigrew AL**, Lewis RA, Farrow SJ, Hawkins EP, Hawkins HW, and McCabe ERB (1987) Late Onset Variant of Spielmeier-Vogt Disease Initially Diagnosed as Stargardt Disease/Fundus Flavimaculatus. **Am J Hum Genet 41:A78, Supplement.**

Awasthi YC, Dao DD, **Lal AK**, and Srivastava SK (1978) Purification and Properties of Glutathione Peroxidase from Human Placenta. **Am J Hum Genet 30:20a.**

Srivastava SK and **Lal AK** (1978) Defense System of the Lens Against Oxidative Damage: Catalase and Glutathione Peroxidase Deficiency. **Invest Ophthal Vis Sci-ARVO Supplement, p. 98.**

**Refereed Articles**

Davis, B, Karabakhtsian R, Musgrave, Y, Arnold S and **Pettigrew AL** NUT Midline Carcinomas: A Fatal and often Misdiagnosed Entity. Manuscript in preparation.

Riel-Romero RM, Smith CD, and **Pettigrew AL.** (2005) Megaloencephalic leukodystrophy with subcortical cysts (MLC) in two siblings due to two novel mutations: case reports and review of the

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literature. *J Child Neurol* 20: 230-4.

**Pettigrew AL**, Riel-Romero RM, and Shashidhar HR. Del(10)(q23) Associated with loss of PTEN and Juvenile polyposis of the colon (Manuscript in preparation for submission to *Am J Med Genet*).

Jordan CT, Upchurch D, Szilvassy SJ, Guzman ML, Howard DS, **Pettigrew AL**, Meyerrose T, Rossi R, Grimes B, Rizzeri DA, Luger SM, Phillips GL (2000) The Interleukin-3 Receptor Alpha-fetoprotein Chain is a Unique Marker for Human Acute Myelogenous Leukemia Stem cells. *Leukemia* 14:1777-84.

Guo W, Mason JS, Stone CG, Morgan SA, Madu SI, Baldini A, Lindsey EA, Biesacker LG, Copeland KC, Horlick MNB, **Pettigrew AL**, Canaria E, McCabe ERB (1995). Diagnosis of X-linked adrenal hypoplasia congenita by mutation analysis of the DAX-1 gene. **JAMA** 274: 324-330.

Huang, TH-M, Hejtmancik JF, Edwards A., **Pettigrew AL**, Herrera CA, Caskey CT, and Ledbetter DH (1991) A gene for a new X-linked mental retardation disorder is linked to a hypervariable (CTAT)<sub>n</sub> repeat motif within the human HPRT locus (Xq26) **Am J Hum Genet** 49:1312-1319.

Brown CJ, Lafrenier RG, Powers VE, Sebastio G, Ballabio A, **Pettigrew AL**, Ledbetter DH, Levy E, Craig IW, Willard HF. (1991) Molecular localization of the X inactivation center on the human X chromosome in Xq13. **Nature** 349:82-84

**Pettigrew AL**, Greenberg F, Ledbetter DH, Caskey CT. (1991) Greig syndrome associated with an interstitial deletion of 7p: Confirmation of the localization of Greig syndrome to 7p13. **Human Genetics** 87:452-456.

**Pettigrew AL**, McCabe ERB, Elder FFB, and Ledbetter DH. (1991) Isodicentric X chromosome in a patient with Turner Syndrome - Implications for localization of the X-inactivation center. **Human Genetics** 87:498-502.

Jacky PB, Ahuja YR, Anyare-Yeboak, Breg WR, Carpenter NJ, Froster-Iskenius VG, Fryns JP, Gustarson KH, Hoegerman SF, Holmgren G, Howard-Peebles PN, Tenlans EC, Neri G, **Pettigrew AL**, Schaap T, Schonberg SA, Shapiro LR, Spinner W, Steinbach P, Vianna-Margarite AM, Watson MS, Wilmont PL (1991) Guidelines to the preparation and analysis of the Fragile X chromosome in lymphocytes. **Am J Med Genet** 38:200-207.

**Pettigrew AL**, Jackson L, and Ledbetter DH. (1991) A new X-linked Mental Retardation Syndrome with Dandy-Walker Malformation and Basal Ganglia Disease. **Am J Med Genet** 38:400-403.

**Pettigrew AL**, Gollin SM, Greenberg F, Riccardi VM, and Ledbetter DH (1987) Duplication of Proximal 15q as a Cause of Prader-Willi Syndrome. **Am J Med Genet** 28:791-802.

Srivastava SK, Lal AK, Ansari NH (1980) Defense system of the lens against oxidative damage: effect of oxidative challenge on cataract formation in glutathione peroxidase deficient-acatalasemic mice. *Exp Eye Res* 31:425-33.

Awasthi YC, Dao DD, Lal AK, and Srivastava SK (1979) Purification and Properties of Glutathione Peroxidase from Human Placenta. **Biochem J** 177:471-476.

Lal AK, Ansari NH, Awasthi YC, Snyder LM, and Srivastava SK (1980) Defense of Mouse Red Blood Cells Against Oxidative Damage by Phenylhydrazine: Glutathione Peroxidase and Catalase Deficiency. **J**

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**Lab Clin Med 95:536-552.**

**Chapters**

Srivastava SK, **Lal AK**, and Ansari NH (1980) Defense System of Red Blood Cells Against Oxidative Damage in "Red Blood Cell and Lens Metabolism". edited by Srivastava SK. pp. 123-137, Elsevier North-Holland, Inc., New York.

Srivastava SK, Ansari NH, **Lal AK**, Saneto RP, and Awasthi YP (1980) Role of Sulfhydryls and Disulfides in the Lens in "Red Blood Cell and Lens Metabolism". edited by Srivastava SK. pp. 101-105, Elsevier North-Holland, Inc., New York.

**Contributing Author**

**Pettigrew AL** (1992) Pregnancy with elevated maternal serum alpha-fetoprotein in "Applied Laboratory Medicine." edited by Tietz NW, Conn RB, Pruden EL. pp 285-290, W.B. Saunders, Philadelphia.

**Special Activities**

Ohio Valley Regional Cytogenetic Meeting, Lexington, Kentucky, May 22, 1999. Organizer and host for this meeting of cytogeneticists, physicians, technologists, and genetic counselors from the states of Ohio, Indiana, Kentucky, and Michigan.

Ohio Valley Regional Cytogenetics Meeting, Lexington, Kentucky, April 25, 1992. Organizer and host. Attendees include physicians, laboratory directors and technicians from Ohio, Indiana, Kentucky and Michigan.

**Lectures and Seminars (1995-present)**

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/17/09

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/04/09

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/22/09

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/21/09

Cytogenetics IV, MI 816, University of Kentucky, 01/21/09

Cytogenetics III, MI 816, University of Kentucky, 01/20/09

Cytogenetics II, MI 816, University of Kentucky, 01/20/09

Cytogenetics I, MI 816, University of Kentucky, 01/19/10

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 5/1/09 and 5/3/09

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Common Chromosome Disorders, PAT823, University of Kentucky, 4/30/09

Cytogenetics of Myeloid Disorders – New WHO Classification, Pathology Residents Lecture, University of Kentucky, 3/5/09

Genetic Screening for Mitochondrial Disorders, University of Kentucky, ANA780, 2/11/09

Update on Fragile X Syndrome, Neurology Residents Lecture, University of Kentucky, 2/5/09

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/18/09

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/06/09

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/23/09

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/22/09

Cytogenetics IV, MI 816, University of Kentucky, 01/22/09

Cytogenetics III, MI 816, University of Kentucky, 01/21/09

Cytogenetics II, MI 816, University of Kentucky, 01/21/09

Cytogenetics I, MI 816, University of Kentucky, 01/20/09

Common Chromosome Disorders, Pathology Residents Lecture Series, University of Kentucky, 8/12/08

Chromosomal Microarray Testing in Clinical Practice, Neurology Grand Rounds, University of Kentucky, 5/13/08

Cytogenetics of the Myeloid Disorders Hematology-Oncology Fellows Lecture Series, University of Kentucky 4/28/08.

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 03/26/08 and 03/28/08

Common Chromosome Disorders, PAT823, University of Kentucky, 03/24/08

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/13/08

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/01/08

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/18/08

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/17/08

Cytogenetics IV, MI 816, University of Kentucky, 01/16/08

Cytogenetics III, MI 816, University of Kentucky, 01/15/08

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Cytogenetics II, MI 816, University of Kentucky, 01/10/08

Cytogenetics I, MI 816, University of Kentucky, 01/10/08

Clinical Correlation: Neural Tube Defects, MI816 11/29/07

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 03/28/07 and 03/30/07

Common Chromosome Disorders, PAT823, University of Kentucky, 03/26/07

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/14/07

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/02/07

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/19/07

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/18/07

Cytogenetics IV, MI 816, University of Kentucky, 01/18/07

Cytogenetics III, MI 816, University of Kentucky, 01/17/07

Cytogenetics II, MI 816, University of Kentucky, 01/16/07

Cytogenetics I, MI 816, University of Kentucky, 01/11/07

Clinical Correlation: Neural Tube Defects, MI816 11/30/06

Common Cytogenetic Abnormalities in the Hematologic Disorders, Pathology Residents Teaching Conference, University of Kentucky, 4/18/06

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 04/14/05 and 4/19/05

Common Chromosome Disorders, PAT823, University of Kentucky, 04/13/05

Problem Solving Session, MI 816, University of Kentucky, 2/16/06

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/15/06

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/03/06

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/20/06

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/19/06

Cytogenetics IV, MI 816, University of Kentucky, 01/18/06

Cytogenetics III, MI 816, University of Kentucky, 01/18/06

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Cytogenetics II, MI 816, University of Kentucky, 01/17/06

Cytogenetics I, MI 816, University of Kentucky, 01/12/06

Clinical Correlation: Neural Tube Defects, MI816 12/1/05

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 04/15/05 and 4/20/05

Common Chromosome Disorders, PAT823, University of Kentucky, 04/13/05

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/16/05

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/04/05

Genetic Aspects of Autism, Neurology Grand Rounds, University of Kentucky, 1/27/05

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/21/05

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/20/05

Cytogenetics IV, MI 816, University of Kentucky, 01/19/05

Cytogenetics III, MI 816, University of Kentucky, 01/19/05

Cytogenetics II, MI 816, University of Kentucky, 01/18/05

Cytogenetics I, MI 816, University of Kentucky, 01/13/05

Clinical Correlation: Neural Tube Defects, MI816 12/2/04

Aneuploid Chromosome Disorders, Pathology MI816 University of Kentucky, Resident Lecture Series, 11/30/04.

Common Pediatric Chromosome Disorders, Pediatric Resident Lecture Series 10/14/04.

Genetics in the Obstetrics Practice OB-GYN Resident Series, 8/31/04

Cytogenetic Disorders- What Pathologists Need to Know, Pathology Resident Teaching Conference, 4/21/04.

Genetics Workshop: DNA Diagnosis in Clinical Medicine, PAT823, University of Kentucky, 04/07/04 and 4/14/04.

Common Chromosome Disorders, PAT823, University of Kentucky, 04/07/04

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/18/04

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/06/04

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Cytogenetics Problem Set, MI 816, University of Kentucky, 1/23/04

Clinical Correlation: Fragile X Syndrome, MI816, University of Kentucky, 1/22/04

Cytogenetics IV, MI 816, University of Kentucky, 01/21/04

Cytogenetics III, MI 816, University of Kentucky, 01/21/04

Cytogenetics II, MI 816, University of Kentucky, 01/20/04

Cytogenetics I, MI 816, University of Kentucky, 01/16/04

Clinical Correlation: Neural Tube Defects, MI816, University of Kentucky, 12/04/03

Genetic Workshop: DNA Diagnosis in Clinical Medicine, PAT 823, University of Kentucky, 4/21/03 and 4/23/03.

Common Chromosome Disorders, PAT 823, University of Kentucky, 04/07/03.

Prenatal Diagnosis and Screening, MI 816, University of Kentucky, 2/17/03.

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/07/03.

Prenatal Testing, Ob-Gyn Medical Student Teaching Conference, 1/30/03.

Cytogenetics Problem Set, MI 816, University of Kentucky, 1/24/03

Clinical Correlation: Fragile X Syndrome, MI 816, University of Kentucky, 1/23/03.

Cytogenetics IV, MI 816, University of Kentucky, 01/22/03

Cytogenetics III, MI 816, University of Kentucky, 01/22/03

Cytogenetics II, MI 816, University of Kentucky, 01/21/03

Cytogenetics I, MI 816, University of Kentucky, 01/17/03

New Developments in the Evaluation of Developmental Delay and Mental Retardation, Department of Neurology Grand Rounds, University of Kentucky, 11/21/02.

Genetic Workshop: DNA Diagnosis in Clinical Medicine, PAT 823, University of Kentucky, 04/01/02

Common Chromosome Disorders, PAT 823, University of Kentucky, 3/27/02

Prenatal Diagnosis and Screening, MI 816, University of Kentucky, 02/11/02.

Cytogenetic Disorders, Neonatology Fellow Teaching Conference, 02/06/02.

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 01/30/02.

Cytogenetics Problem Set, MI 816, University of Kentucky, 01/18/02.

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Clinical Correlation: Fragile X Syndrome, MI 816, University of Kentucky, 01/16/02

Cytogenetics IV, MI 816, University of Kentucky, 01/17/02

Cytogenetics III, MI 816, University of Kentucky, 01/17/02

Cytogenetics II, MI 816, University of Kentucky, 01/15/02

Cytogenetics I, MI 816, University of Kentucky, 01/15/02

Clinical Correlation: Neural Tube Defects, MI 186, University of Kentucky, 11/29/01

Cytogenetics II, MI 816, University of Kentucky, 10/17/01

Cytogenetics I, MI 816, University of Kentucky, 10/17/01

Genetic Workshop: DNA Diagnosis in Clinical Medicine, PAT 823, University of Kentucky, 4/02/01.  
Common Chromosome Disorders, PAT 823, University of Kentucky, 03/30/01.

Prenatal Diagnosis and Screening, MI 816, University of Kentucky, 02/09/01.

Cancer Cytogenetics and Molecular Cytogenetic Techniques, MI 816, University of Kentucky, 02/09/02.

Cytogenetics Problem Set, MI 816, University of Kentucky, 01/26/01.

Clinical Correlation: Fragile X Syndrome, MI 816, University of Kentucky, 01/19/01.

Cytogenetics III, MI 816, University of Kentucky, 01/18/01

Cytogenetics II, MI 816, University of Kentucky, 01/17/01

Cytogenetics I, MI 816, University of Kentucky, 01/17/01

Clinical Correlation: Neural Tube Defects, MI 816, University of Kentucky, 11/30/00

Cytogenetics II, IBS 605, University of Kentucky, 10/13/00

Cytogenetics I, IBS 605, University of Kentucky, 10/11/00

Genetic Sampler of Neuropsychiatric Disorders, Department of Psychiatry Residents Teaching Conference, University of Kentucky, 9/07/00

Problem Set for Cytogenetics, Neonatology Fellows Teaching Conference, University of Kentucky, 9/27/00

Common Cytogenetic Disorders, Neonatology Fellows Teaching Conference, University of Kentucky, 9/20/00.

Principles of Cytogenetics, Neonatology Fellos Teaching Conference, University of Kentucky, 9/13/00

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Clinical Correlation: Neural Tube Defects, MI 816, University of Kentucky, 12/16/99.

Chromosomal Syndromes II, Neonatology Fellows Teaching Conference, University of Kentucky, 11/3/99

Cytogenetics II, MI604, University of Kentucky, 10/13/99

Cytogenetics I, MI604, University of Kentucky, 10/8/99

Genes Involved in Brain Development, Grand Rounds, Department of Neurology, University of Kentucky, 5/6/99

Genetics workshop: DNA Diagnosis in Clinical Medicine, PAT 823, University of Kentucky, 3/31/99 and 4/2/99.

Common Chromosome Disorders, PAT823, University of Kentucky, 3/31/99.

Chromosomal Syndromes I, Neonatology Fellows Teaching Conference, University of Kentucky, 10/6/99

Principles of Cytogenetics, Neonatology Fellows Teaching Conference, University of Kentucky, 9/29/99

Introduction to the Cytogenetics Lab, Pathology Residents Teaching Conference, University of Kentucky, 7/28/99

Fragile-X Syndrome, Psychiatry Residents Teaching Conference, University of Kentucky, 2/17/99

Prenatal Diagnosis and Screening, MI816, University of Kentucky, 2/15/99

Cancer Genetics and Cytogenetics, MI816, University of Kentucky, 2/10/99

Problem Set for Cytogenetics, MI816, University of Kentucky, 1/22/99

Clinical Correlation: Fragile X Syndrome, MI816, Uni, 1/27/99.

Cytogenetics III, MI816, University of Kentucky, 1/22/99

Cytogenetics II, MI816, University of Kentucky, 1/21/99

Cytogenetics I, MI816, University of Kentucky, 1/21/99

1998 and earlier available on request

**Resident/Medical Student Teaching**

Prenatal Genetics/Ultrasound Rotation - Teaching of medical students who rotate through the Prenatal Genetics Clinic as part of their Obstetrics-Gynecology Core Clerkship. Education of OB-GYN residents during their two month rotation through the clinic, 1991-1999, 2003-2007.

Pathology Resident Rotation - Teaching of pathology residents during a one month required rotation

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through the Cytogenetics Lab, 2002-present.

Pathology Student Fellow Cytogenetics and Genetics Elective -one month elective which provides experiences in chromosome analysis and FISH testing in the Cytogenetics Laboratory and diagnosis and management of patients in the Prenatal Genetics clinic and Neurogenetics Clinic as well as didactic teaching, 2006

Pathology Resident Elective – Teaching of pathology residents during a one month elective through the Cytogenetics Lab, 1990-2002.

Pediatrics Residents and Medicine/Pediatrics Residents rotation in Clinical Genetics-residents rotate through Cytogenetics Lab 2 half-days. One on one tutorial on cytogenetics and FISH testing in clinical practice, 2004.

### Scientific Papers

Bay CA, Bonilla TN, Rutherford AC and **Pettigrew AL**. Proximal Deletion 1p36 syndrome identified by CGH Array: A small (2 MB) deletion with a milder overall phenotype but significant microphthalmia and colobomata. Poster presented at the American society of Human Genetics Meeting, Honolulu, Hawaii, November 2009.

Bay, C, **Pettigrew, AL**, Morrill-Cornelius, S, Parrott, A, Hall B. Severe Williams Syndrome Phenotype with Large Interstitial Deletion which Encompasses the ELN gene: 46,XX,del(7)(q11.21q11.23) Poster presented at American College of Medical Genetics Meeting, Phoenix, Arizona, March 2008.

Bozio, C, Bay C, Patterson. P, Morrill-Cornelius S, Tegay D, Hatchwell E, **Pettigrew, AL**, et al Stickler's, type I and Neurofibromatosis, type I, Molecularly Confirmed in a Child. Poster presented at American College of Medical Genetics Meeting, Phoenix, Arizona, March 2008.

O'Bannon, A, **Pettigrew, AL**, Pulliam, J, Bayliff, S. Utilization of fluorescence in situ hybridization to distinguish a transient increase in blasts following treatment with granulocyte-colony stimulating factor (G-CSF) from relapsed acute leukemia: case report. Poster presentation at College of American Pathologists Meeting, September, 2007.

**Pettigrew, AL**, Bay, CA, Morrill-Cornelius, S, Cadle, RG, Hall, BD. Detection of dup(7)(q11.23q11.23) by FISH in a patient with expressive language delay. Poster presentation at the American College of Medical Genetics Meeting, Nashville, Tennessee, March 2007.

Bay CA, **Pettigrew AL**, Morrill-Cornelius, S, Cadle, R, Hall BD. Duplication 7q11.23: Recognizable Pattern of Malformation with phenotypic similarities in Floating Harbor syndrome and significant expressive language delays. Poster presentation at the American College of Medical Genetics Meeting, Nashville, Tennessee, March 2007.

Dishop MK, **Pettigrew AL**, Davis GJ. Spontaneous Pulmonary Rupture in a Case of Suspected Ehlers-Danlos Syndrome Type IV. National Association of Medical Examiners, Richmond, Virginia, October 2001.

Bradburn JM, **Pettigrew AL**, Hall, BD. Report of a patient with amastia, agenesis of the uterus and a balanced translocation involving chromosomes 8 and 13. March of Dimes/Clinical Genetics Conference/American College of Medical Genetics, Los Angeles, California, March 1995.

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Tritz D, Talkington S, **Pettigrew AL**, Smith L, Jennings CD. Association of CD-15 Expression and Translocation of 11q23 in Acute Leukemias. United States and Canadian Academy of Pathology, March, 1995.

**Pettigrew AL, Hall BD**, Terminal Deletion 2q: Report of a child and Review of Similar cases, Tri-State Dysmorphology Conference, Indianapolis, Indiana, June 3, 1994.

Yen CE, Gilliam FG, **Pettigrew AL**, Baumann, RJ. Photoparoxysmal response in a patient with metachromatic leukodystrophy. American Electroencephalographic Society Annual Meeting, 1993.

**Pettigrew, AL**. Trisomy 3p: Two new cases and a review of the literature. American Society of Human Genetics, San Francisco, California, November, 1992.

**Pettigrew, AL**. Trisomy 3p. Ohio Valley Regional Cytogenetics Conference, Lexington, Kentucky, April 1992.

**Pettigrew, AL**. A Rare Family with Autosomal Dominant Caudal Dysgenesis. American Society of Human Genetics, Washington, DC, 1991.

**Pettigrew, AL**. A Rare Family with Autosomal Dominant Caudal Dysgenesis. Twelfth Annual David W. Smith Workshop on Malformations and Morphogenesis, Lake Arrowhead, California, 1991.

**Pettigrew, AL**. Phenotypically Discordant Monozygotic Twins - Cytogenetic Discordance Masked by Twin-Twin-Transfusion? American Society of Human Genetics, Cincinnati, Ohio, 1990.

**Pettigrew AL**, Ledbetter, DH. A Gene for a new X-linked Mental Retardation Disorder is Linked to a Hypervariable (CTAT)<sub>n</sub> Repeat Motif Within the Human HPRT Locus (Xq26). American Society of Human Genetics, Cincinnati, Ohio, 1990.

**Pettigrew, AL**. Bone Marrow Transplantation in Hurler Syndrome. American Society of Human Genetics, Cincinnati, Ohio, 1990.

**Pettigrew, AL**. Ledbetter, DH. Greig Syndrome Associated with an Interstitial Deletion of 7p: Confirmation of the Localization of Greig Syndrome, Eleventh Annual David W. Smith Workshop on Malformations and Morphogenesis, Lexington, Kentucky, 1990.

**Pettigrew AL**, Bader P. Amniotic Bands in Cocaine-Exposed Infants: Two cases: Eleventh Annual David W. Smith Workshop on Malformations and Morphogenesis, Lexington, Kentucky, 1990.

**Pettigrew AL**, Ledbetter DH. Greig Syndrome Associated with an Interstitial Deletion of 7p: Confirmation of the Localization of Greig Syndrome, Tri-State Dysmorphology meeting, Akron, Ohio, 1990.

**Pettigrew, AL**, Ledbetter DH Greig Syndrome Associated with an Interstitial Deletion of 7p: Confirmation of the Localization of Greig Syndrome. American Society of Human Genetics, Baltimore, Maryland, 1989.

**Pettigrew AL**, Jackson, L, Ledbetter DH. A new X-linked Mental Retardation Disorder with Dandy-Walker Malformation, Basal Ganglia Disease and Seizures, Fourth International Workshop

## **Anjana L. Pettigrew, M.D.**

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on the Fragile X Syndrome and X-Linked Mental Retardation, New York, New York, 1989.

**Pettigrew AL** Ledbetter DH. Isochromosome Xp in a Patient with Turner Syndrome. American Society of Human Genetics, New Orleans, Louisiana, 1988.

**Pettigrew AL** Lewis R. Late Onset Variant of Spielmeyer-Vogt Disease Initially Diagnosed as Stargardt Disease/Fundus Flavimaculatus. American Society of Human Genetics. San Diego, California, 1987.

**Pettigrew AL**, Greenberg F. Ledbetter DH Duplication of Proximal 15 as a Cause of Prader-Willi Syndrome, Second Annual Prader-Willi Syndrome Scientific Conference, Houston, Texas, 1987.

### **Educational Materials**

Prepregnancy and Prenatal Genetic Counseling and Diagnosis. A physician/patient brochure for the Prenatal Genetics Clinic, Center for Reproductive Medicine, University of Kentucky.

### **Community Education**

Kentucky Chapter Huntington's Disease Society of America. Topic: Genetic testing In Huntington Disease, Lexington, Kentucky, 9/22/01.

University of Kentucky Telemedicine Conference. Topic: Ventral Wall Defects: Gastroschisis and Omphaloceles, 10/16/97.

University of Kentucky Telemedicine Conference. Topic: Prenatal Diagnosis of Neural Tube Defects, 7/29/97.

University of Kentucky Telemedicine Conference. Topic: Prenatal Diagnosis of Congenital Heart Defects by Fetal Echocardiography. Presentation of Case Studies, 5/27/97.

CBS Local News Program. Topic: PCR (Polymerase Chain Reaction) Technology and its Application to Clinical Genetics. October 3, 1994.

Health First Magazine Television Program hosted by Mr. Jerry Sanders, CBS Local Affiliate. Topic: Practical Applications of the Human Genome Project. February 16, 1994.

### **Community Service**

Mentor for high school student for a science fair project for the Math, Science and Technology Magnet Program, Fayette County Public Schools 2007-2008. Student placed first in the local, regional and state competitions and attended the national competition.

National Fragile X Syndrome Foundation, Physician resource. 4/03-present.