**CURRICULUM VITAE**

**MARK A. LOVELL, MD**

**Biographical Information**

Current Position: Professor of Pathology

Department of Pathology, B120

Children’s Hospital Colorado

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**Education**

Undergraduate Education:

B.A. - English, Colorado College, Colorado Springs, CO, 1978

Medical Education:

M.D. - University of Colorado School of Medicine, Denver, CO, 1983

Graduate Medical Education:

Resident in Anatomic and Clinical Pathology

University of Virginia Medical Center, Charlottesville, VA

1983 to 1988

**Academic Appointments**

**University of Virginia School of Medicine, Charlottesville, VA**

Instructor of Pathology 1988 to 1989

Assistant Professor of Pathology 1989 to 1994

Assistant Professor of Obstetrics and Gynecology 1991 to 1995

Associate Professor of Pathology 1994 to 1999

**University of Colorado School of Medicine, Anschutz Medical Campus, Aurora, CO**

Associate Professor of Pathology 1999 to 2012

Professor of Pathology 2012 to present

University of Colorado Denver Graduate School

Professor of Clinical Science 2012 to present

**Hospital Positions**

**University of Virginia Hospital, Charlottesville, VA**

Attending Pathologist 1988 to 1999

Associate Director of Hematology Laboratory 1988 to 1992

Director, Diagnostic Molecular Pathology Laboratory 1991 to 1999

Director, Department Quality Improvement Program 1994 to 1999

Director, Autopsy Service 1995 to 1999

**Children’s Hospital Colorado, Aurora, CO**

Attending Pathologist 1999 to present

Medical Director, Molecular Diagnostics Lab 1999 to 2017

Interim Chair of Pathology 2007 to 2008

Chair of Pathology 2008 to 3/31/2017

CLIA Laboratory Medical Director 2011 to February 3, 2022

Anschutz, South, Briargate, and Colorado Springs

Laboratories

**Other Professional Activities**

Medical Examiner, Charlottesville and Albemarle County, VA 1984 to 1999

**Honors and Awards**

Boettcher Scholar, 1974-1978

Figge Premedical Award, 1978

Phi Beta Kappa Honor Society, 1978

Graduated with Distinction in English, summa cum laude, Colorado College, 1978

Robert M. Felix Award in Psychiatry, Best Thesis, 1981

Graduated with Honors, University of Colorado School of Medicine, 1983

Best Presentation, Pathology Research Day, University of Virginia Medical Center, 1986

College of American Pathologists Scholar, 1988 ($25,000 salary support)

Honorable Mention--Gross Photography: American Society of Clinical Pathologists Medical Photography Competition, 1996

Certificate of Merit-Gross Photography: American Society of Clinical Pathologists Medical Photography Competition, 1998

Dean’s Award for Excellence in Teaching, University of Virginia School of Medicine, 1998

Certificate for Excellence as a Mentor & Instructor in Seminar Teaching-Pathology 6000,

University of Colorado School of Medicine 2000-01, 2001-02, 2002-03 & 2003-04

Top Doctors Awardee, Best Physicians as Chosen by Their Peers, Denver Metro area, Pediatric Pathology, *5280* *Magazine*, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 [category discontinued in 2023].

Pathologist of the Year, Department of Pathology, University of Colorado School of Medicine, 2011

Summit Award for Excellence in Pathology Resident Education, Department of Pathology, University of Colorado School of Medicine, 2013-2014, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2022-2023.

Certificate of Recognition for Medical Student Small Group Teaching, 2018-2019, 2019-2020, 2020-2021, 2021-2022

**Membership in Professional Organizations**

American Association for Physician Leadership

Member, 2016 to 2021

American Society of Clinical Pathologists

Fellow, 1983 to present

Association for Molecular Pathology

Founding Member, 1994 to present

Genetics Section Chair-Elect & Chair, 1998-1999

Program Chair-Elect & Chair, 2001-2002

President-Elect, Chair, Strategic Planning Committee & Nominations Committee, 2004

President, 2005

Past President, 2006

College of American Pathologists

Fellow, 1983 to present

Molecular Pathology Resource Committee 1989-2000.

Laboratory Inspection Team Leader, Children’s Mercy Hospital, Kansas City, MO, 2012 Laboratory Inspection Team Leader, Valley Children’s Hospital, Madera, CA, 2014

Laboratory Inspection Team Leader, Nationwide Children’s Hospital, Columbus, OH, 2016

Laboratory Inspection Team Leader, Children’s Hospital of Wisconsin, Wauwatosa, WI 2018

Laboratory Inspection Team Leader, Valley Children’s Hospital, Madera, CA, 2020

Laboratory Inspection Team Leader, Children’s Medical Center Dallas, Dallas, TX 2022

Laboratory Inspection Team Leader, Tesis BioSciences 303 Diagnostics, Aurora, CO, 2023

Society for Pediatric Pathology

Member 1998 to present

Membership Committee 2010-2012

Interim Meeting September 7-10, 2017

Clinical Pathology Symposium Moderator

Scientific Session Platform Co-moderator for GI and CNS

**Major Committee and Service Responsibilities**

**American Board of Pathology**

Examiner,Molecular Genetic Pathology

Test Development and Advisory Committee 2013 to 2019

Examiner,Clinical Pathology CertLink Program

Test Development and Advisory Committee 2016 to present

**University of Virginia Department of Pathology**

Director, Pathology Residency Training Program 1996 to 1999

**University of Colorado Department of Pathology**

**-Graduate Medical Education-Residency**

Residency Selection Committee 2000 to present

Residency Evaluation Committee 2006 to present

**-Graduate Medical Education-Fellowships Core Faculty and Clinical Competency Committee**

Pediatric Pathology Fellowship 1999 to present

Hematopathology Fellowship 2011 to present

Molecular Pathology Fellowship 2019 to present

**-Administrative**

Vice Chair for Pediatric Pathology 2008 to 2017

Finance Committee 2008 to 2017

Executive Committee 2008 to 2017

Ad hoc Incentive Review Committee 2010

Faculty Promotion and Development Committee 2018

**Children’s Hospital Colorado Committee Responsibilities**

Credentials Committee, Member 2000 to present

Laboratory Stewardship Committee, Co-chair 2013 to 2021

Laboratory Information System Steering Committee, Member 2018 to 2021

Electronic Health Record Steering Committee, Member 2019 to 2021

**Licensure and Board Certification**

Current

Medical License, Colorado, DR.0038242-Active (expires 04/30/2025)

Diplomate, Anatomic and Clinical Pathology-1988 (unlimited), 6259

American Board of Pathology, enrolled in CertLink.

Diplomate, Special Qualification in Pediatric Pathology-1997 (unlimited), SQ97-089

American Board of Pathology, enrolled in CertLink.

Diplomate, Special Qualification in Molecular Genetic Pathology-2001 (unlimited), S01-269

American Board of Pathology & American Board of Medical Genetics, enrolled in CertLink.

Diplomate, Clinical Molecular Genetics and Genomics, Certificate # 2011211

American Board of Medical Genetics and Genomics, enrolled in CertLink,

Renewal 1/1/2022

Certificate of Recognition in Laboratory Medical Management

Awarded by the College of American Pathologists, renewal expires May 31, 2024

Previous

Medical License, Virginia (voluntary lapse, in good standing, 2002)

Diplomate, Clinical Molecular Genetics-1993-2003

American Board of Medical Genetics

**Inventions, Intellectual Property and Patents**

None.

**Reviewer and Referee Work**

Editorial Boards

Diagnostic Molecular Pathology, (The American Journal of Surgical Pathology, Part B), 1991 to 2013.

Journal of Molecular Diagnostics, (The American Journal of Pathology, Part B), 1999 to 2005.

Ad hoc Reviewer

Archives of Pathology and Laboratory Medicine

Clinical Chemistry

Diagnostic Molecular Pathology

Journal of Molecular Diagnostics

Journal of the American Medical Association

Modern Pathology

Molecular Diagnosis

Grant Reviewer

Pharmacogenomics Analysis Laboratory, Department of Veterans Affairs, 2006

Consultant

Hematology and Pathology Panel, and Member, Clinical Chemistry and Toxicology Panel, Center for Devices and Radiologic Health, Food and Drug Administration, Public Health Service, Department of Health and Human Services, l988 to present

**Invited Extramural Lectures, Presentations & Visiting Professorships**

**National**

Lovell MA. Principles of diagnostic nucleic acid technology, Spring Meeting, Association of Clinical Scientists, Newport, RI, May 1985.

Lovell MA. Origins and principles of nucleic acid probes. 79th Meeting, Association of Clinical Scientists, Atlanta, GA, November 13, 1986.

Lovell MA, Piper M, DiRusso S. Molecular analysis of lymphocyte subsets. 79th Meeting of Association of Clinical Scientists, Atlanta, Georgia, November 15, 1986.

Lovell MA, Mifflin TE, Bowden J. Use of DNA probes in the clinical laboratory. 39th National Meeting, American Association for Clinical Chemistry, San Francisco, CA, July 19, 1987.

Lovell MA, Mifflin TE, Bowden J. Use of nucleic acid probes in the clinical laboratories. 14th Annual Meeting, Clinical Ligand Assay Society, Washington, DC, May 11, 1988.

Lovell MA, Mifflin TE, Thibodeau SN. Current applications of nucleic acid probes in the clinical laboratory. 40th Annual Meeting, American Association of Clinical Chemistry, New Orleans, LA, July 26, 1988.

Lovell MA. Molecular genetic analysis of leukemia and lymphoma. 12th Annual Arnold O. Beckman Conference, American Association for Clinical Chemistry, Ft. Lauderdale, FL, January 18, 1989.

Lovell MA, Mifflin TE, Bowden J. Current applications of nucleic acid probes in the clinical laboratory. 41st Annual Meeting, American Association of Clinical Chemistry, Atlanta, GA, July 23, 1989.

Lovell MA. Polymerase chain reaction. Pathology Update 1990, American Society of Clinical Pathology, Charlottesville, VA, June 6, 1990.

Lovell MA. Herman CJ, Panke E, Walker R, Grody WW. Applications of molecular methods in the hospital laboratory—update for the practicing pathologist. Fall National Meeting, College of American Pathologists, Dallas, TX, October 21, 1990.

Lovell MA. Total quality improvement in molecular pathology. Molecular Diagnostics, 1993, Universities Associated for Research and Education in Pathology. November 13, 1993 (Organizing Committee).

Lovell MA. Golden WL. Advances in diagnostic molecular pathology. Half-day seminar. American Society for Clinical Pathology/College of American Pathologists Joint Meeting, Seattle, WA, April 11, 1994.

Lovell MA. Preparation your DNA laboratory for CAP inspection. Sunrise seminar, American Society for Clinical Pathology/College of American Pathologists Joint Meeting, Seattle, WA, April 12, 1994.

Lovell MA. Proficiency testing in molecular pathology. Molecular Diagnostics, 1994. Universities Associated for Research and Education in Pathology. November 11, 1994 (Organizing Committee).

Lovell MA. DNA-based parentage testing: A primer of principles, probability and practice. Molecular Diagnostics 1995. Association for Molecular Pathology Annual Meeting, Minneapolis, MN, November 11, 1995.

Lovell MA. Quality Management in Molecular Genetics. Association of Cytogenetic Technologists. 21st Annual Meeting, Norfolk, VA, June 14, 1996.

Lovell MA. Lessons from the CAP's molecular oncology survey program. Molecular Diagnostics 1996. Association for Molecular Pathology meeting, Baltimore, MD, November 16, 1996.

Lovell MA, Miller BB, Golden WL. What’s in a name? Nomenclature in molecular pathology. 4th Annual Meeting, Association for Molecular Pathology, Arlington, VA, November 7, 1998.

Lovell MA, Kowall NW, Grody WW. What every pathologist should know about the new genetics. Spring Meeting, College of American Pathologists, Boston, MA, April 11, 2000.

Lovell MA. I. Molecular Pathology: Applications to non-neoplastic pediatric pathology. II. Molecular Pathology: Applications to neoplastic pediatric pathology. III. Slide Seminar Cases. 22nd Annual Conference on Pediatric Disease, Aspen, CO, August 8, 2000.

Lovell MA. Tuberous sclerosis associated renal cell carcinoma. Pediatric Pathology Evening Slide Seminar. United States and Canadian Academy of Pathology, Denver, CO, March 2, 2008.

Lovell MA, Liang X. Pediatric Thymus Pathology Workshop. 2010 Annual Meeting. Society for Pediatric Pathology, Washington, DC, March 21, 2010.

Lovell MA. Optimizing Your Molecular Test Menu. Molecular Diagnostics 2010. Washington G2 Reports. Cambridge, MA, April 15, 2010.

Lovell MA, Liang X. Pediatric Thymus Pathology Workshop. 2011 Annual Meeting. Society for Pediatric Pathology, San Antonio, TX, February 27, 2011.

Lovell MA, Liang X. Pediatric Thymus Pathology Workshop. 2012 Annual Meeting. Society for Pediatric Pathology, Vancouver, British Columbia, CANADA, March 18, 2012.

Lovell MA, Maloney KE. Hematologic Aspects of Down Syndrome. 2017 Interim Meeting, Society for Pediatric Pathology, Denver, CO, September 9, 2017.

Lovell MA, Barker J. Autoimmune Dysfunction in Down Syndrome. 2017 Interim Meeting, Society for Pediatric Pathology, Denver, CO, September 9, 2017.

Lovell MA. Hirschsprung Disease: Pathogenesis and Preoperative Diagnosis Lecture. Hirschsprung Disease Virtual Course. International Center for Colorectal and Urogenital Care at Children’s Hospital Colorado. Course Directors: Luis De La Torre, Alberto Pena, and Andrea Bischoff, August 12-13, 2021

[International audience with participants]

Lovell MA. Hirschsprung Disease: Pathogenesis and Preoperative Diagnosis Lecture. Hirschsprung Disease Virtual Course. International Center for Colorectal and Urogenital Care at Children’s Hospital Colorado. Course Directors: Luis De La Torre, Alberto Pena, and Andrea Bischoff, August 10-11, 2022

[International audience with 780 participants]

**Regional, State & Local Presentations**

Lovell MA. The structure of human olfactory receptors: A comparative study. First Annual Rocky Mountain Neuroscience Group Neurosymposium, Denver, CO, May 22, 1981.

Lovell MA, Mifflin TE. Use of DNA/RNA probes in the clinical laboratory. Michigan Section, American Association for Clinical Chemistry, Detroit, MI, December 4, 1987.

Lovell MA, Williams ME. Applications of molecular genetics in clinical medicine. 44th Annual Spring Meeting of the Virginia Society for Pathology, Richmond, VA, April 30, 1988.

Lovell MA, Mifflin TE. Use of nucleic acid probes in the clinical laboratory. 40th Annual Meeting, American Association for Clinical Chemistry - Midwest Section and the Missouri Society of Medical Technologists, St. Louis, MO, April 6, 1989.

Lovell MA, Mifflin TE, Hossaini A. Use of nucleic acid probes in the clinical laboratory. 8th Annual Spring Symposium, American Association for Clinical Chemistry, Capital Section, Fredericksburg, VA, May 18, 1989.

Lovell MA. Small blue cell tumors of childhood. Annual Spring Workshop, Virginia State Society for Histotechnology. Winchester, VA, April 20, 1990.

Lovell MA. Nucleic acid analysis in hematology and oncology. Fall Symposium, American Association for Clinical Chemistry, North Carolina Section. Durham, NC, October 12, 1990.

Lovell MA. Basic concepts and techniques in molecular genetics/Diagnostic molecular genetics in hematology and oncology. National Laboratory Week speaker, Veterans Administration Medical Center. Salem, VA, April 16, 1991.

Lovell MA. Diagnostic molecular pathology. Tidewater Pathology Society, Virginia Beach, VA, June 19, 1992.

Lovell MA. The polymerase chain reaction in oncology. Oncology Conference, Martha Jefferson Hospital, Charlottesville, VA, August 9, 1994.

Lovell MA. DNA testing expert for "Talkback with Pat Wilson" on WINA Radio, Program Title: "Anastasia: Was she for real?" Charlottesville, VA, October 7, 1994, 3:05 to 4:00 pm.

Lovell MA. DNA-Based Parentage Testing. Albemarle County Bar Association. Charlottesville, VA, September 11, 1996.

Lovell MA. Pediatric Pathology Cases. Metropolitan Surgical Pathology Conference. University of Colorado School of Medicine, Department of Pathology, Denver, CO, October 26, 1999.

Lovell MA. Present and future impact of genomics on pediatric diagnosis and treatment. 7th Annual Pediatric Symposium, Memorial Hospital, Colorado Springs, CO, January 20, 2001.

Lovell MA, Wei Q. Molecular diagnostics in the clinical laboratory. Colorado Association for Continuing Medical Laboratory Education, Denver, CO, May 4, 2005.

Lovell MA, Siparsky G. New techniques for prenatal and newborn genetic disorders. Colorado Association for Continuing Medical Laboratory Education, Denver, CO, May 12, 2006.

**Visiting Professor**

Lovell MA. Molecular Genetics of Cancer. Department of Pathology, Residency Training Program, Penrose Hospital, Colorado Springs, CO, January 3, 1990.

Lovell MA. Molecular pathology of pediatric tumors: practical applications. Baylor College of Medicine, Houston, TX, February 25, 2003.

**Grand Rounds**

Wolfe, SM, Lovell MA. The autopsy: Its relationship to the quality of medical care. University of Virginia Medical Center Hour, Charlottesville, VA, February 14, 1996.

Lovell MA. Developmental, Immune, and Genetic Disorders of the Thymus in Children. Department of Pathology, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, June 8, 2012.

Lovell MA. Death Without a Cause. Good Grief at Noon Lecture Series. Children’s Hospital Colorado, Aurora, CO, September 10, 2012.

**Teaching Record**

**Medical School Didactic Lectures & Small Group Teaching**

University of Colorado School of Medicine Anschutz Medical Campus, Denver, CO

PATH 6000 One 50-minute lecture 135 2nd year medical students 2003-2006

Small Blue Cell Tumors of Childhood

Small Group Teaching

Three-hour sessions with 10-12 students, case studies 2000-2006

Topics included cardiovascular, lung, gastrointestinal, hepatobiliary, endocrine, and hematology cases.

IDPT 5005 CVPR Block

Two 50-minute lectures 165 1st year medical students 2007 to 2015

Urinary Tract Developmental Abnormalities

Pediatric Neoplastic, Developmental and Cystic Kidney Disease

Small Group Teaching

Three-hour sessions with 10-15 students, case studies 2007 to present

Specific core curriculum blocks include Disease & Defense (IDPT 5004); Molecules to Medicine (IDPT 5005) Cardiovascular, Pulmonary & Renal, Gaucher disease; Digestive, Endocrine & Metabolic (IDPT 6002); and Life Cycle (IDPT 6003); Upper GI, Lower GI, Gallbladder/Pancreas [IDPT 6002]

IDPT 8039 Advanced Sciences Immunology and Immunotherapy 2021 to present

Clinical Pathology Conference: Systemic Lupus Erythematosus

Pathology of SLE, 30-inute lecture to 165 second year medical students

**Medical Student Elective**

PATH 8000 Senior Elective in Pathology 2000 to present

Each year 3-5 senior medical students spend one week of this four-week elective in pediatric pathology.

IDPT 7000 Foundations of Doctoring Curriculum, Phase III

Year-Long Mentor for a Third-Year Medical Student 2006-7, 2007-8, 2010-11, 2018-9

2019-2020

Robert A. Hoyt, MD Pathology Resident, University of Kansas Medical Center, Kansas City, MO

**Pathology Resident Education**

University of Virginia Medical Center Department of Pathology Residency Program

Residency Program Director, Pathology Residency Training Program April 1, 1996 to August 24, 1999

Responsible for administration and direction of combined anatomic and clinical pathology residency training program with 20 residents in a five-year program, including curriculum, scheduling, evaluation, career counseling, and successful ACGME reaccreditation.

Pediatric Anatomic Pathology Rotation 1999 to present

Direct attending supervision of a second or third-year pathology resident during a required 2-month pediatric anatomic pathology rotation including autopsy, gross examination, surgical pathology, and use of ancillary studies to establish histopathologic diagnoses of common pediatric tumors, developmental abnormalities, and gastrointestinal conditions. Primarily direct teaching at the microscope based on clinical case material.

Pediatric Clinical Pathology Rotation 2009 to present

Direct supervision of a second or third-year pathology resident during a required2-month pediatric clinical pathology rotation, specifically during 2 weeks spent learning diagnostic molecular pathology through one-on-one case sign out of current clinical assays including STR-based bone marrow transplant engraftment assays, B and T cell gene rearrangement assays, and RT-PCR based assays of common leukemic and sarcoma translocations, as well as quantitative molecular assays, with emphasis on quality practices in laboratory and clinical interpretation.

Pediatric Clinical Pathology Rotation Supervisor 2023 to present

Residency Program Didactic Lectures 1-hour lectures to all pathology residents

Genetic Mechanisms and Polymorphisms. January 8, 2003.

Molecular Pathology of Leukemia and Lymphoma. January 13, 2003.

Histopathology of Pediatric Tumors. October 27, 2003.

Familial Cancer Syndromes. March 25, 2004.

Techniques of Molecular Pathology. November 22, 2004.

Mechanisms of Genetic Disease. November 29, 2004.

Leukemia/Lymphoma Genetics. December 2, 2004.

Small Blue Cell Tumor Genetics. December 6, 2004.

The Human Genome. May 6, 2006.

Nucleic Acid Chemistry and Techniques. May 15, 2006.

Familial Cancer Syndromes. May 18, 2006.

Fetal, Perinatal, and Pediatric Autopsy Practice. August 28, 2006.

Chromosomal Abnormalities, Congenital Anomalies & Malformation Syndromes. Jan 29, 2018

Pathology Resident Journal Club. Faculty Discussant. September 26, 2011

Residency Program Surgical Pathology Unknown Conferences

Slide-based cases for discussion

Pediatric Renal Tumors. February 26, 2007.

Pediatric Liver Tumors. May 7, 2007.

A Dozen Developmental Delights. December 21, 2009.

Pediatric Pathology Unknowns. August 7, 2016.

Pediatric Pathology Genetics Unknown Conference. May 4, 2018.

Histopathology of Single Gene Disorders. May 3, 2019

Genetic Vascular Lesions. May 1, 2020.

**Pediatric Pathology Fellowship Program**

(Program Director: Joel E. Haas, MD) 2000-2007

(Program Director: Megan K. Dishop, MD) 2011 to 2015

(Program Director: Jennifer O. Black, MD) 2015 to present

Direct attending supervision of the fellow during 1-year ACGME-accredited training program in pediatric pathology including autopsy, gross examination, surgical pathology, and use of ancillary studies to establish histopathologic diagnoses including common pediatric tumors, developmental abnormalities, and gastrointestinal conditions. Primarily direct teaching at the microscope based on clinical case material. Also provide a 1-month rotation using a case-based approach in diagnostic molecular pathology practice and principles related to pediatric pathology, primarily neoplastic disease.

Didactic Lectures for Pediatric Pathology Fellowship Program

* Genetics Approaches to Pediatric Solid Tumors: Rhabdomyosarcoma. October 10, 2011.
* Chromosomal Abnormalities, Congenital Anomalies & Malformation Syndromes, July 12, 2018

Journal Club for Pediatric Pathology Fellowship Program

Faculty Discussant, July 25, 2011.

Laboratory Management Lectures for Fellows in Pediatric Pathology, Hematopathology and Molecular Pathology: 1-hour lectures 2020-present

* The Pathologist in Hospital Practice
* The Pathologist as CLIA Laboratory Director

**Major Hospital Patient Care-Teaching Conferences**

Pediatric Heme/Onc Rounds 3-4 cases per session, once a week, 2000 to 2015

Pediatric Tumor Board 2-3 cases each session, twice a month, 2000 to 2015

Pediatric Surgery Conference 5-8 cases each session, once a month, 2000 to 2010

Pediatric Urology Conference 3-5 cases each session, once a month, 2000 to 2015

Pediatric Musculoskeletal Tumor Conference 3-5 cases each session, every 2 months, 2007 to 2010

Pediatric Otolaryngology Conference 3-6 cases each session, every 3 months, 2009 to present

Colorectal/Neurogastroenterology Conference 2-4 cases each session, every month, 2017 to 2021

Pediatric Liver Transplant Conference 10-12 cases each session, every month, 2018 to present

Pediatric GI Teaching Conference 10-15 cases each session, every other month, 2018

Morbidity & Mortality Conferences as requested by Cardiology, Neonatology, Oncology

**Graduate School Teaching**

Genetic Counseling Master’s Degree Program

1-hour lecture to 25 students, Familial Cancer Syndromes February 14, 2003

Clinical Science Graduate Program Dissertation Committee Member

Eric P. Wartchow, PhD Awarded July 2020

The Clinical Utility of Incorporating Single-Axis 3D Tomography to the Electron Microscopic Examination of Ciliary Biopsies

Andrea Prinzi, MPH, PhD Awarded July 2022

Diagnostic and Antimicrobial Stewardship of Endotracheal Aspirates Cultures in Mechanically Ventilated Pediatric Patients

**Medical Technologist Teaching**

Bone Marrow Transplant and the Laboratory. Children’s Hospital Colorado, Lab Week Lecture. April 17, 2002.

Insights from the Human Genome Project. Cytogenetics Case Conference. Colorado Genetics Laboratory. November 17, 2005.

**Undergraduate College Student Teaching**

Pathology: An introduction to the specialty. Premedica (Premedical student organization). Colorado State University, Ft. Collins, CO, October 22, 2003.

**Precollege Student Teaching**

Pathology and the Laboratory at Children’s Hospital Colorado. 30-minute talk with cases and a wet lab to extract DNA from a banana. John Wesley Powell Middle School, Littleton Public Schools, Littleton, CO. February 17, 2023

Introduction to Pathology. Two 30-minute presentation to 60 high school students enrolled in the Medical Careers Collaborative program at Children’s Hospital Colorado, Aurora, CO, October 17, 2023

**Grant Support**

Current

Member, Pathology Subcommittee, Childhood Liver Disease Research and Education Network (ChiLDREN) P.I. Ronald J. Sokol, MD (2% effort).

Previous

Molecular Genetics of N- and H-ras Oncogenes in Rhabdomyosarcoma. Research & Development Committee, University of Virginia Health Sciences Center, October l, l988 to March 30, l989, $10,242

Molecular Genetics of Rhabdomyosarcoma. Subgrant, Institutional Research Grant (Grant # IN l49B), American Cancer Society, October l, l988 to June 30, l989, $9,000

Pulsed Field Gel Electrophoresis and Telomeric Probes: Analysis of Chromosome llp. Horsley Cancer Research Fund, January l, l989 to December 31, 1989, $l, 646

**Other Research Activities**

Children’s Oncology Group (COG)

Associate Member, Pathology, Responsible Investigator 2007 to present

Samantha Woodruff, MD. Mechanisms of esophageal fibrosis. Child & Maternal Health Pilot Grant Award, Colorado Clinical & Translational Sciences Institute at University of Colorado Denver, Co-investigator (no salary support). 2009.

**Bibliography**

**Peer-Reviewed Journals:**

1. Lovell MA, Jafek BW, Moran DT, Rowley JC 3rd. Biopsy of human olfactory mucosa. An instrument and a technique. Arch Otolaryngol. 1982 Apr;108(4):247-9. doi: 10.1001/archotol.1982.00790520047013. PMID: 7073597.
2. Moran DT, Rowley JC 3rd, Jafek BW, Lovell MA. The fine structure of the olfactory mucosa in man. J Neurocytol. 1982 Oct;11(5):721-46. doi: 10.1007/BF01153516. PMID: 7143026.
3. Savory J, Bertholf RL, Boyd JC, Bruns DE, Lovell MA, Shipe JR, Wills MR. Advances in clinical chemistry over the past 25 years. Anal Chim Acta 1986; 180: 99-135. https://doi.org/10.1016/0003-2670(86)80004-6
4. Bastani B, Mifflin TE, Lovell MA, Westervelt FB, Bruns DE. Serum amylases in chronic and end-stage renal failure: effects of mode of therapy, race, diabetes and peritonitis. Am J Nephrol. 1987;7(4):292-9. doi: 10.1159/000167488. PMID: 2446498.
5. Williams ME, Innes DJ Jr, Borowitz MJ, Lovell MA, Swerdlow SH, Hurtubise PE, Brynes RK, Chan WC, Byrne GE Jr, Whitcomb CC, et al. Immunoglobulin and T cell receptor gene rearrangements in human lymphoma and leukemia. Blood. 1987 Jan;69(1):79-86. PMID: 3098328.
6. Bastani B, Mifflin TE, Lovell MA, Westervelt FB, Bruns DE. Serum amylases in chronic and end-stage renal failure: effects of mode of therapy, race, diabetes and peritonitis. Am J Nephrol. 1987;7(4):292-9. doi: 10.1159/000167488. PMID: 2446498.
7. Mifflin TE, Bowden J, Lovell MA, Bruns DE, Hayden FG, Gröschel DH, Savory J. Comparison of radioactive (32P and 35S) and biotinylated probes for detection of cytomegalovirus DNA. Clin Biochem. 1987 Aug;20(4):231-5. doi: 10.1016/s0009-9120(87)80003-6. PMID: 2826048.
8. Lovell MA, Ross GW, Cooper PH. Gliomatosis peritonei associated with a ventriculoperitoneal shunt. Am J Clin Pathol. 1989 Apr;91(4):485-7. doi: 10.1093/ajcp/91.4.485. PMID: 2648802.
9. Lovell MA. Molecular genetics of leukemia and lymphoma. Clin Chem. 1989 Jul;35(7 Suppl):B43-7. PMID: 2663234.
10. Scrable H, Cavenee W, Ghavimi F, Lovell M, Morgan K, Sapienza C. A model for embryonal rhabdomyosarcoma tumorigenesis that involves genome imprinting. Proc Natl Acad Sci U S A. 1989 Oct;86(19):7480-4. doi: 10.1073/pnas.86.19.7480. PMID: 2798419; PMCID: PMC298088.
11. Brauch H, Tory K, Linehan WM, Weaver DJ, Lovell MA, Zbar B. Molecular analysis of the short arm of chromosome 3 in five renal oncocytomas. J Urol. 1990 Mar;143(3):622-4. doi: 10.1016/s0022-5347(17)40042-5. PMID: 2304183.
12. Williams ME, Lee JT, Innes DJ, Swerdlow SH, Lovell MA, Hurtubise PE, Thomas CY. Immunoglobulin gene rearrangement in abnormal lymph node hyperplasia. Am J Clin Pathol. 1991 Dec;96(6):746-54. doi: 10.1093/ajcp/96.6.746. PMID: 1746491.
13. Gemma NW, Lovell MA, Bringelsen KA, Williams ME. Lineage alteration in precursor B cell acute lymphoblastic leukemia following T cell lymphoblastic lymphoma. Leukemia. 1992 Dec;6(12):1305-9. PMID: 1333557.
14. Golden WL, Sudduth KW, Lovell MA. Clonal evolution of a Wilms' tumor. Cancer Genet Cytogenet. 1992 May;60(1):102-4. doi: 10.1016/0165-4608(92)90245-4. PMID: 1317252.
15. Walker MW, Lovell MA, Kelly TE, Golden W, Saulsbury FT. Multiple areas of intestinal atresia associated with immunodeficiency and posttransfusion graft-versus-host disease. J Pediatr. 1993 Jul;123(1):93-5. doi: 10.1016/s0022-3476(05)81547-1. PMID: 8320633.
16. Hanigan MH, Frierson HF, Brown JE, Lovell MA, Taylor PT. Human ovarian tumors express gamma-glutamyl transpeptidase. Cancer Res 1993; 54: 286-90. PMID: 7903206
17. Shashi V, Lovell MA, von Kap-herr C, Waldron P, Golden WL. Malignant rhabdoid tumor of the kidney: involvement of chromosome 22. Genes Chromosomes Cancer. 1994 May;10(1):49-54. doi: 10.1002/gcc.2870100108. PMID: 7519873.
18. Davis RJ, D'Cruz CM, Lovell MA, Biegel JA, Barr FG. Fusion of PAX7 to FKHR by the variant t(1;13)(p36;q14) translocation in alveolar rhabdomyosarcoma. Cancer Res. 1994 Jun 1;54(11):2869-72. PMID: 8187070.
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