

Jacqueline K. Macknis, M.D.

Associate Professor, Department of Pathology and Laboratory Medicine
Oakland University William Beaumont School of Medicine

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System Medical Director, Pediatric and Placental Pathology
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ADDRESS

Corewell Health William Beaumont University Hospital (East)
Research Institute, Anatomic Pathology Office, Lower Level
3601 West Thirteen Mile Road
Royal Oak, MI 48073

EDUCATION AND TRAINING

7/2003 – 6/2004	Fellow, Pediatric Pathology Children’s Hospital of Michigan, Wayne State University, Detroit, MI
7/2000 – 6/2001	Fellow, Surgical Pathology The Cleveland Clinic Foundation, Cleveland, OH
7/1998 – 6/2002	Residency, Anatomic and Clinical Pathology The Cleveland Clinic Foundation, Cleveland, OH
7/1997 – 6/1998	Residency, Anatomic and Clinical Pathology University Hospitals of Cleveland, Cleveland, OH
7/1996 – 6/1997	Transitional Year Internship Beaumont Health System, Royal Oak, MI
1992 – 1996	Doctor of Medicine, M.D., Alpha Omega Alpha Honor Society Wayne State University School of Medicine, Detroit, MI
1988 – 1992	Bachelor of Science, B.S., Medical Technology, Magna cum laude Michigan State University, East Lansing, MI

PROFESSIONAL MEMBERSHIPS

College of American Pathologists (CAP)
American Society of Clinical Pathologists (ASCP)
United States and Canadian Academy of Pathology (USCAP)
Society for Pediatric Pathology (SPP)
Michigan Society of Pathologists (MSP)

PROFESSIONAL, ACADEMIC, ADMINISTRATIVE, CLINICAL POSITIONS:

Academic Positions

- 1/2010 – present Associate Professor, Department of Pathology and Laboratory Medicine
Oakland University William Beaumont School of Medicine, Rochester, MI
- 1/2006 – 8/2012 Adjunct Professor, Clinical and Laboratory Sciences
Michigan Technological University, Michigan Technological Institute, Houghton, MI
- 7/2009 – present Director of Residency Training, Anatomic and Clinical Pathology
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 7/2002 – 6/2003 Associate Professor, Pathology
Baptist Medical Center, Wake Forest University School of Medicine,
Winston-Salem, NC

Committees

- 1/2018 – present Chair, Residency Oversight Committee
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 7/2017 – present Interviewer, Admissions Committee
Oakland University William Beaumont School of Medicine, Rochester, MI
- 7/2009 – present Member, Graduate Medical Education Committee
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 7/2009 – present Chair, Residency Selection Committee
Corewell Health William Beaumont University Hospital, Royal Oak, MI

Clinical Positions

- 7/2004 – present Attending Surgical and Pediatric Pathologist
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 1/2009 – present Institutional Responsible Investigator, Children's Oncology Group
- 7/2001 – 6/2002 Chief Resident, Clinical Pathology
Cleveland Clinic Foundation, Cleveland, OH
- 7/2000 – 6/2001 Chief Resident, Anatomic Pathology
Cleveland Clinic Foundation, Cleveland, OH
- 8/2005 – 8/2012 Medical Director
School of Histotechnology, Beaumont Health, Royal Oak, MI
- 7/2011 – present Director of Fetal and Perinatal Autopsy
Corewell Health William Beaumont University Hospital, Royal Oak, MI

PUBLICATIONS

Lai Z., Aqel Z., Li W., **Macknis J.** Synaptophysin-Positive Nested Stromal-Epithelial Tumor (NSET) of the Liver in a 13-year-old Male: Human Pathology: Case Reports, 16 (2019) 100292.

Wenqing Yin, Ping L. Zhang, **Jacqueline K. Macknis**, Fan Lin, and Joseph V. Bonventre. Kidney Injury Molecule-1 Identifies Antemortem Injury in Postmortem Adult and Fetal Kidney. *Am J Physiol Renal Physiol* 315: F1637-F1643, 2018.

Davis J, Novotny N, **Macknis J**, Alpay-Savasan Z, Goncalves LF. Diagnosis of Neonatal Neuroblastoma with Postmortem Magnetic Resonance Imaging. *J Radiol Case Rep*. Dec 2016; Volume 12, Issue 1: 191-95

Goncalves LF, Berger JA, **Macknis JK**, Bauer ST, Bloom DA. Grebe Dysplasia: Prenatal Diagnosis Based on Rendered 3-D Ultrasound Images of Fetal Limbs. *Pediatr Radiol*. Sep 27, 2016.

Micale MA, Embrey B 4th, **Macknis JK**, Harper ED, Aughton DJ. Constitutional 560.49 kb Chromosome 2p24.3 Duplication Including the MYCN Gene Identified by SNP Chromosome Microarray Analysis in a Child with Multiple Congenital Anomalies and Bilateral Wilms Tumor. *Eur J Med Genet*. 2016 Oct 26. Pii: S1769-7212(16)30119-7.

Ward N, Cosner D, Lamb C, Li W, **Macknis J**, Rooney M, Zhang P. Top Differential Diagnosis Should be Microscopic Polyangitis in ANCA-Positive Patients with Diffuse Pulmonary Hemorrhage and Hemosiderosis. *Case Reports in Pathology*. 2014; Volume 2014, Article ID 286030, 5 pages.

Simon R, McIntyre E, Khandahar P, **Macknis J**, Fischer A. Pleuropulmonary Blastoma (PPB) in an infant: Is the timing of an elective resection of neonatal lung lesions challenged? *J Ped Surg Case Reports*. 2014; 465-467.

Bieliauskas S, Reyes-Trocchia A, Krasan G, Main C, **Trupiano JK**. Hodgkin Lymphoma Presenting as Multiple Cavitory Pulmonary Nodules with Associated Mediastinal Adenopathy and Neck Mass. *J Pediatr Hematol Oncol*. 2009; 31:730-733.

Patel NP, Cullen AT, Levine EA, **Trupiano JK**, Geisinger KR. Cytomorphology of Primary Peritoneal Mesothelioma in Effusions, Washings, and Fine-needle Aspiration biopsies: Examination of 49 Cases at a Single Institution Including Post-IPHC Findings. *American Journal of Clinical Pathology*. 2007; Sep;128(3):414-22.

Norman E, Bergman S, **Trupiano JK**. Sinonasal Chondromesenchymal Hamartoma: Report of a Case and Review of the Literature. *Pediatric and Developmental Pathology*. 2004; 7:517-520.

Berger WS, **Trupiano JK**, Clark P, Smith R, Higgins KB, Perrier ND. Bilateral Pheochromocytomas and Gastrointestinal Stromal Tumors in a Patient with Neurofibromatosis Type I. *Surgical Rounds*. 2004;262-66.

Trupiano JK, Geisinger KR, Willingham M, Manders P, Zbieranski N, Case D, Levine E. Diffuse Malignant Mesothelioma of the Peritoneum and Pleura, Analysis of Markers. *Modern Pathology*. 2004; 17:476-481.

Bergman SP, Hoda SA, **Trupiano JK**. E-cadherin Negative Small Cell Carcinoma of the Breast: Report of a Case and Review of the Literature. *American Journal of Clinical Pathology*. 2004; 121:117-121.

Bardin RL, **Trupiano JK**, Geisinger KR. Oncocytic Biliary Cystadenocarcinoma: Report of a Case and Review of the Literature. *Archives of Pathology and Laboratory Medicine*. 2004; 128:e25-e28.

Trupiano JK, Ogrowczyk E, Bergman S. Pathologic quiz case: Mass in the Right Breast. Glycogen-rich clear cell carcinoma of the breast. *Archives of Pathology and Laboratory Medicine*. 2003 Dec;127(12):1629-30.

Trupiano JK, Goldblum JR, Stewart RE, Appelman HD, Misick C. Gastric Stromal Tumors: Correlation of Features with Aggressive Clinical Behavior. *American Journal of Surgical Pathology*. 2002; 26(6):705-714.

Trupiano JK, Bringelson KA, Hsi ED. Primary Cutaneous Lymphoblastic Lymphoma Presenting in an Infant: Case Report and Review of the Literature. *Journal of Cutaneous Pathology*. 2002; 29(2):107-112.

Trupiano JK, Rice TW, Herzog K, Barr FG, Shipley J, Fisher C, Goldblum JR. Mediastinal Synovial Sarcoma: A Report of Two Cases with Molecular Genetic Analysis. *Annals of Thoracic Surgery*. 2002; 73:628-30.

Trupiano JK, Prayson RA. *Mycobacterium avium intracellulare* Otitis Media: Case Report and Review of the Literature. *Annals of Diagnostic Pathology* 2001;5(6):350-353.

Trupiano JK, Sebek BA, Goldfarb J, Levy LR, Hall GS, Procop GW. *Mycobacterium abscessus* Mastitis After Body Piercing. *Clinical Infectious Diseases*. 2001; 33:131-4.

Trupiano JK, Hsi ED. Primary Cutaneous Lymphoblastic Lymphoma: Case Presentation and Review of the Literature. *Society of Hematopathology Case of the Quarter*, May 2000.

Trupiano JK, Prayson RA: *Mycobacterium avium intracellulare* Infection of the Central Nervous System. *American Society of Clinical Pathologists Check Sample No. SP 01-1 (SP-297) 29:1*, Number 1, May 2001.

Trupiano JK, Machen SK, Barr FG, Goldblum JR. Cytokeratin-Negative Desmoplastic Small Round Cell Tumor: A Report of Two Cases Emphasizing the Utility of Reverse Transcriptase-Polymerase Chain Reaction. *Modern Pathology*. 1999;12(9):849-853.

Abstracts

Hansma P, **Macknis JK**, Li W, Rooney MT, Zhang PL. Validating Autolysis Scores Using Hematoxylin and Eosin (HE) Staining and Stem/progenitor Cell Marker CD133 Expression in Fetal Kidneys. *Mod Path*: 2014;27(Suppl 2), 7A.

Almradi A, **Macknis JK**, Zhang PL. Massive Metastatic Embryonal Carcinoma of Testis in a Patient with Fragile-X Syndrome. *Arch Pathol Lab Med*: October 2013, Vol. 137, p. 1428-29.

Pietrangelo ME, **Macknis JK**, Hicks SH, Zhang PL. Kidney Injury Molecule-1 Staining Identifies Acute Tubular Injury in Pediatric Kidneys Regardless of Autolysis. *Modern Pathology*: February 2011, Vol. 24, Supp 1, p. 354A

LA Gonzalez-Krellwitz, TR Fennell, and **JK Macknis**. Hyalinizing Spindle Cell Tumor with Giant Rosettes Presenting as a Tongue Mass in a 10-year-old. *Pediatric and Developmental Pathology*: November/December 2010, Vol. 13, No. 6, p. 505-506.

L.A. Gonzalez-Krellwitz, Fennell T.R., **Macknis J.K.** Lipomatous Hemangiopericytoma of the Renal Hilum. *2010 Abstracts and Case Studies from the College of American Pathologists 2010 Annual Meeting (CAP '10)*. *Archives of Pathology & Laboratory Medicine*: September 2010, Vol. 134, No. 9, p. 1283-1396.

Hayek S and **Trupiano JK**. Diffuse Neonatal Hemangiomas with Gastrointestinal Involvement in a 4-month-old Infant. *Pediatric and Developmental Pathology* (in press).

Pietrangelo M and **Trupiano JK**. Adenocarcinoma Arising in a Mature Sacrococcygeal Teratoma in a 58-year-old Woman. *Archives of Pathology and Laboratory Medicine*. 2008; 132:1484.

Pavlich, SL and **Trupiano JK**. Hodgkin Lymphoma Presenting as Multiple Cavitory Pulmonary Nodules. *Archives of Pathology and Laboratory Medicine*. 2008;132(2):287-288.

WW Liu, M Skacel, DG Hicks, **JK Trupiano**, RR Tubbs, JR Goldblum. Initial Experience with a Novel Fluorescence In-Situ Hybridization (FISH) Assay for Detection of Ewing Sarcoma (EWS) Gene (22q12) Translocation in Paraffin-embedded tissue. *Modern Pathology*. 2004; 17:358A.

Trupiano JK, Procop GW, Yen-Lieberman B, Schindler S, Biscotti CV. Detection of Human Papilloma Virus in Thin Prep® Prepared Samples Interpreted as High-Grade Squamous Intraepithelial Lesions Using Hybrid Capture II. *Acta Cytologica*. 45:5,2001.

Trupiano JK, Prayson RA, Gyure KA, Kleinschmidt-DeMasters BK, Morrison AL. *Mycobacterium Avium Intracellulare Complex* Infection in the Central Nervous System. *Modern Pathology*. 14:1099A,2001.

Trupiano JK, Hsi ED. Surface Immunoglobulin Positive Transitional Pre-B-Cell Lymphoblastic Lymphoma Presenting as a Cutaneous Lesion in a 5-month-old Infant. *Journal of Cutaneous Pathology*. 27:10,2000.

Trupiano JK, Goldblum JR, Stewart RE, Appelman HD, Misick C. Gastric Stromal Tumors: Correlation of Features with Aggressive Clinical Behavior. *Modern Pathology*. 13:516A,2000.

Gindzin Y, Riemann CD, Kaiser PK, **Trupiano JK**, Ratliff NB. Frayed Collagen Fibrils Are Present in the Sclera of a Patient with Idiopathic Uveal Effusion Syndrome. *Investigative Ophthalmology and Visual Science*. 40:5019A,1999.

PRESENTATIONS

Placental Pathology, Presenter, September 2018 Grand Rounds Presentation
Metro Health Medical Center, Cleveland, OH, Department of Anatomic and Clinical Pathology

Placental Pathology, Presenter, May 2015 Grand Rounds Presentation
Department of Obstetrics and Gynecology, Beaumont Health, Royal Oak, MI

An Introduction to Pediatric and Perinatal Autopsy, Presenter, October 22, 2014
Histotechnology Association National Conference

An Introduction to Pediatric and Perinatal Autopsy, Presenter, April 19, 2013
Michigan Society of Histotechnologists Annual Meeting

Finding Hope Pancreatic Cancer Symposium, Presenter, September 23, 2011
Oakland University William Beaumont School of Medicine, Rochester, MI

Advances in Pediatric Hematology Oncology, Planning Committee, Townsend Hotel, Birmingham, MI,
November 4, 2011, Oakland University William Beaumont School of Medicine

Placental Pathology in New-Onset Post-Partum Pre-eclampsia (NOPP), Platform Presentation, Society
for Pediatric Pathology Fall Meeting, Pittsburgh, PA, October 2019

Surface Immunoglobulin Positive Transitional Pre-B-Cell Lymphoblastic Lymphoma Presenting as a
Cutaneous Lesion in a 5-month-old Infant; Platform presentation, American Society of
Dermatopathology Annual Meeting, Baltimore, MD, October 2000

POSTERS

Gupta, A, **Macknis JK**, Zhang, PL. Immunohistochemistry Panels to Help understand Differentiation and
Maturation of Mesonephros and Metanephros; Poster Presentation, United States and Canadian
Academy of Pathology Annual Meeting, Los Angeles CA, February 2020.

Creagh S, **Macknis JK**, Zhang PL. A Re-evaluation: Acute Kidney Injury (AKI) Patterns are Similar in
Human Autopsy Kidneys and Rat Kidneys Despite Differences in Renal Tubule Structure; Poster

Presentation, United States and Canadian Academy of Pathology Annual Meeting, Los Angeles CA, February 2020.

Sun K, Sangeetha V, **Macknis J**, Lalwani A, Mishra N, Guda C, Ogunyemi D, Radhakrishna U, Bahado-Singh R. New-onset postpartum preeclampsia: Mechanisms and Prediction; Poster Presentation, Society for Maternal Fetal Medicine 2019 Annual Meeting, Las Vegas NV, February 2019.

Clark E, Gjorgova-Gjeorgievski S, **Macknis JK**. A Case of Gardner Syndrome with Desmoid-like Fibromatosis Poster Presentation, Oakland University William Beaumont School of Medicine Summer Internship Annual Poster Presentations, Rochester MI, August 2018.

Toushan M, Zhang PL, Hysell CK, **Macknis JK**, Amin MB, Kannan HD, Micale MA. The Effective Use of Fluorescence in situ Hybridization on Touch Preparation Slides Permits a Timely Diagnosis of Synovial Sarcoma – Lessons Learned; Poster Presentation, American Society for Clinical Pathology, Annual Meeting, Las Vegas NV, September 2016.

Constitutional 560.49 kb Chromosome 2p24.3 Duplication Including the MYCN Gene Identified by SNP Chromosome Microarray Analysis in a Child with Multiple Congenital Anomalies and Bilateral Wilms Tumor; Poster Presentation, American Society for Clinical Pathology 2016 Annual Meeting, Las Vegas NV, September 2016.

The Cysts in Autosomal Recessive-Polycystic Kidney Disease (AR-PK) Come from Distal Nephron Tubules; Poster Presentation, College of American Pathologists National Meeting, Chicago IL, September 2014.

Tuberous Sclerosis Associated Renal Cystic Disease with New Biomarkers for Identification of its Tubular Primary; Poster Presentation, College of American Pathologists National Meeting, Chicago IL, September 2014

Validating Autolysis Scores Using Hematoxylin and Eosin (HE) staining and Stem/Progenitor Cell Marker CD133 Expression in Fetal Kidneys; Poster Presentation, Beaumont Health System Residents' and Fellows' Research Forum, Royal Oak MI, May 2014.

Validating Autolysis Scores Using Hematoxylin and Eosin (HE) staining and Stem/Progenitor Cell Marker CD133 Expression in Fetal Kidneys; Poster Presentation, United States and Canadian Academy of Pathology, San Diego CA, March 2014.

Constitutional 560.49 kb chromosome 2p24.3 duplication including the MYCN gene identified by oligonucleotide and SNP chromosome microarray analysis in a child with multiple congenital anomalies and bilateral Wilms tumor; Poster Presentation; American Society of Human Genetics Annual Meeting; Boston MA, October 2013.

Massive Metastatic Embryonal Carcinoma of Testis in a Patient with Fragile-X Syndrome; Poster Presentation, College of American Pathologists Annual Meeting, Orlando FLA, October 2013; Poster Presentation, Michigan Society of Pathologists Winter Conference, Plymouth MI, December 2013.

Kidney Injury Molecule-1 Staining Identifies Acute Tubular Injury in Pediatric Kidneys Regardless of Autolysis; Poster Presentation, 2011 United States and Canadian Academy of Pathology Annual Meeting; San Antonio TX, February 2011.

Hyalinizing Spindle Cell Tumor with Giant Rosettes Presenting as a Tongue Mass in a 10-year-old; Poster Presentation, 2010 Society for Pediatric Pathology Fall Meeting, Banff, Alberta Canada, September 2010.

Lipomatous Hemangiopericytoma of the Renal Hilum; Poster Presentation, College of American Pathologists Annual Meeting, Chicago IL, September 2010.

Diffuse Neonatal Hemangiomas with Gastrointestinal Involvement in a 4-month-old Infant; Poster Presentation, Society for Pediatric Pathology Fall Meeting, Philadelphia PA, October 2009.

Adenocarcinoma Arising in a Mature Sacrococcygeal Teratoma in a 58-year-old Woman; Poster Presentation, College of American Pathologists 2008 Annual Meeting, San Diego CA, September 2008.

Juvenile Xanthogranuloma (JXG) of the Central Nervous System (CNS): Report of 2 Cases and Review of the Literature; Poster Presentation, Current Concepts in Pediatric Pathology, Maui, Hawaii June 2008.

Hodgkin Lymphoma Presenting as Multiple Pulmonary Nodules; Poster Presentation, Pulmonary Pathology Society 2007 Biennial Meeting, Santa Fe NM, June 2007.

Salivary Gland Anlage Tumor (SGAT): A Case Report with Clinicopathologic Findings; Platform Presentation, Society of Pediatric Pathology Meeting, Scottsdale AZ, October 2007.

Initial Experience with a Novel Fluorescence In-Situ Hybridization (FISH) Assay for Detection of Ewing Sarcoma (EWS) Gene (22q12) Translocation in Paraffin-embedded Tissue; Poster Presentation, United States and Canadian Academy of Pathology annual meeting, Vancouver BC, March 2003.

Bilateral Pheochromocytosis and Gastrointestinal Stromal Tumors in a Patient with Type 1 Neurofibromatosis; Poster Presentation, American College of Surgeons Annual Meeting, Chicago IL, Oct 2003.

Detection of Human Papilloma Virus in Thin Prep® Prepared Samples Interpreted as High-Grade Squamous Intraepithelial Lesions Using Hybrid Capture II; Poster presentation, American Society of Cytopathology, 49th Annual Scientific Meeting, Kansas City MS, November 2001; Poster presentation, American Society for Microbiology, Salt Lake City UT, May 2002.

Mycobacterium Avium Intracellulare Complex Infection in the Central Nervous System; Stowell-Orbison Autopsy Award Resident Poster Competition, United States and Canadian Academy of Pathology annual meeting, Atlanta GA, March 2001.

Gastric Stromal Tumors: Correlation of Features with Aggressive Clinical Behavior; Poster presentation, United States and Canadian Academy of Pathology annual meeting, New Orleans LA 2000.

Frayed Collagen Fibrils Are Present in the Sclera of a Patient with Idiopathic Uveal Effusion Syndrome; Poster presentation, Investigative Ophthalmology and Visual Science annual meeting, Fort Lauderdale FL, May 1999.

WORKS IN PROGRESS

Sun K, Sangeetha V, **Macknis J**, Lalwani A, Mishra N, Guda C, Ogunyemi D, Radhakrishna U, Bahado-Singh R. New-onset postpartum preeclampsia: Mechanisms and Prediction.

Postmortem Magnetic Resonance Imaging as an Adjunctive Imaging Modality to Conventional Autopsy at Beaumont Health System.

DNA and mRNA Analysis of Formalin-fixed Paraffin Embedded (FFPE) Tissue Specimens in Uterine Sarcoma – a Pilot Study.