

Linda M. Ernst, M.D., M.H.S.

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Clinical Professor of Pathology
University of Chicago Pritzker School of Medicine

Vice Chair for Research
Director, Perinatal Pathology
Co-director, Autopsy Pathology
Department of Pathology and Laboratory Medicine
NorthShore University HealthSystem
Evanston Hospital – Room 1913B
2650 Ridge Avenue
Evanston, IL 60201
Office: (847)-570-2791
Fax: (847)-570-1938
Email: lernst@northshore.org

ACADEMIC AFFILIATIONS

1991-1995 Instructor, Department of Pathology, University of Connecticut School of Medicine, Farmington, CT
2000-2003 Adjunct Assistant Professor, Department of Health Sciences, Quinnipiac University, Hamden, CT
2005-2008 Assistant Professor, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA
2008-2013 Assistant Professor, Department of Pathology, Northwestern University Feinberg School of Medicine, Chicago, IL
2013-2017 Associate Professor, Department of Pathology, Northwestern University Feinberg School of Medicine, Chicago, IL
2018-2022 Clinical Associate Professor of Pathology, University of Chicago Pritzker School of Medicine, Chicago, IL
2019-present Vice Chair for Research, Department of Pathology and Laboratory Medicine, NorthShore University HealthSystem, Evanston IL
2022-present Clinical Professor of Pathology, University of Chicago Pritzker School of Medicine, Chicago, IL

ACADEMIC TRAINING

1983-1987 B.S., Biology, University of Illinois, Urbana-Champaign, IL
1989-1991 M.H.S., Pathology, Quinnipiac College, Hamden, CT
1995-1999 M.D., University of Connecticut School of Medicine, Farmington, CT
1999-2002 Resident, Anatomic and Clinical Pathology, Yale University School of Medicine, New Haven, CT
2002-2003 Chief Resident, Anatomic and Clinical Pathology, Yale University School of Medicine, New Haven, CT
2003-2005 Fellow, Pediatric Pathology, The Children's Hospital of Philadelphia, Philadelphia, PA

BOARD CERTIFICATION AND LICENSURE

2004 Anatomic and Clinical Pathology, American Board of Pathology

2005 Pediatric Pathology, American Board of Pathology
2005-2009 Licensure, Commonwealth of Pennsylvania
2008-present Licensure, State of Illinois

SCHOLARSHIP

(a) Peer-reviewed publications in the primary literature, exclusive of abstracts:

1. **Ernst LM**, Salafia CM, Carter A: Intrauterine Growth Retardation in Guinea Pigs Following Uterine Artery Ligation: Hepatic Histology. *Pediatr Pathol*. 1993 Nov-Dec;13(6):763-772. PMID: 8108296.
2. Salafia CM, **Ernst LM**, Pezzulo JC, Wolf EJ, Rosenkrantz TS, Vintzileos AM: The Very Low Birth Weight Infant: Maternal Complications Leading to Preterm Birth, Placental Lesions, and Intrauterine Growth. *Am J Perinatol*. 1995 Mar;12(2):106-10. PMID: 7779189.
3. Cusick W, Salafia CM, **Ernst L**, Rodis JF, Campbell WA, Vintzileos AM: Low-dose Aspirin Therapy and Placental Pathology in women with Poor Pregnancy Outcomes. *Am J of Reprod Immunol*. 1995 Sept;34(3):141-7. PMID: 8561870.
4. Sherer DM, Salafia CM, Minior VK, Sanders MM, **Ernst L**, Vintzileos AM: Placental Basal Plate Myometrial Fibers: Clinical Correlations of Abnormally Deep Trophoblast Invasion. *Obstet Gynecol*. 1996 Mar;87(3):444-9. PMID: 8598971.
5. **Ernst LM**, Sanders MM, Salafia CM, Carter AM: Cell Populations in the Bone Marrow of Guinea Pig Fetuses with Intrauterine Growth Retardation. *Pediatr Pathol and Lab Med*. 1997 Jul-Aug;17(4):561-8. PMID: 9211548.
6. **Ernst LM**, Hui P, Parkash V: Intraplacental Smooth Muscle Tumor: A Case Report. *Intl J Gynecol Pathol*. 2001 Jul;20(3):284-288. PMID: 11444205.
7. **Ernst LM**, Parkash V: Placental Pathology in fetal Bartter Syndrome. *Pediatr Dev Pathol*. 2002 Jan-Feb;5(1):76-9. PMID: 11815871.
8. **Ernst LM**, Rimm DL: Quantitative Examination of the Mechano-Physical Tumor Cell Enrichment of Fine Needle Aspiration Specimens. *Cancer*. 2002 Oct;96(5):275-279. PMID: 12378594.
9. Wang S, **Ernst LM**, Smith BR, Tallini G, Howe JG, Crouch J, Cooper DL: Systemic *Tropheryma whipplei* Infection Associated with Monoclonal B-Cell Proliferation: A *Helicobacter Pylori*-Type Pathogenesis? *Arch of Pathol Lab Med*. 2003 Dec;127(12):1619-22. PMID: 14632565.
10. **Ernst LM**, Crouch J, Rinder H, Howe JG: Bacterial Etiology For Chronic Villitis Is Not Supported By Polymerase Chain Reaction For 16S rRNA DNA. *Pediatr Dev Pathol*. 2005 Nov-Dec;8(6):647-653. PMID: 16010482.
11. Salafia CM, Pezzullo JC, Charles AK, **Ernst LM**, Mass EM, Gross B, Pijenborg R: Morphometry of The Basal Plate Superficial Uteroplacental Vasculature in Normal Mid-Trimester and at Term. *Pediatr Dev Pathol*. 2005 Nov-Dec;8(6):639-646. PMID: 16010484.

12. **Ernst LM**, Sondheimer N, Deardorff M, Bennett MJ Pawel B: The Value of the Metabolic Autopsy in the Pediatric Hospital Setting. *J Pediatr.* 2006 Jun;148(6):779-783. PMID: 16769386.
13. Brucker B, Meadows A, **Ernst LM**, Zedric S: A Second Leiomyosarcoma in the Urinary Bladder of a child with a History of Retinoblastoma 12 Years Following Partial Cystectomy. *Pediatr Blood Cancer.* 2006 Jun;46(7):811-4. PMID: 16470582.
14. Badillo AT, Kreiger PA, Schmitz KR, **Ernst LM**, Kaiser LR, Leichty KW: Wilms Tumor Arising within a Mediastinal Teratoma. *J of Pediatr Surg.* 2006 Aug;41(8e1-5.):e1-5. PMID: 16863828.
15. Heltzer ML, Choi JK, Ochs HD, Sullivan KE, Torgerson TR, **Ernst LM**: A Potential Screening Tool for IPEX Syndrome. *Pediatr Dev Pathol.* 2007 Mar-Apr;10(2):98-105. PMID: 17378693.
16. **Ernst LM**, Quinn PD, Alawi F: Novel Oral Findings in Schimmelpenning Syndrome. *Am J of Med Genet A.* 2007 Apr;143(8):881-3. PMID: 17366580.
17. Kreiger PA, **Ernst LM**, Elden L, Kazahya K, Alawi F, Russo P: Hamartomatous Tongue Lesions in Children. *Am J Surg Pathol.* 2007 Aug;31(8):1186-1190. PMID: 17667541.
18. **Ernst LM**, Spinner NB, Piccoli DA, Mauger J, Russo P: Interlobular Bile Duct Loss in Pediatric Cholestatic Disease is Associated with Aberrant Cytokeratin-7 Expression by Hepatocytes. *Pediatr Dev Pathol.* 2007 Sep-Oct;10(5):383-390. PMID: 17929991.
19. Simpson MA, Hsu R, Keir LS, Hao J, Sivapalan G, **Ernst L**, Zackai EH, Al Gazali LI, Hulskamp G, Kingston HM, Prescott TE, Ion A, Patton MA, Murday V, George A, Crosby AH: Mutation of FAM20C Leads to Lethal Osteosclerotic Bone Dysplasia (Raine syndrome), Highlighting a Crucial Molecule in Bone Development. *Am J Hum Genet.* 2007 Nov;81:906-912. PMCID: 2265657, PMID: 17924334.
20. Duesterhoeft SM, **Ernst LM**, Siebert JR, Kapur RP: Five Cases of Caudal Regression with an Aberrant Abdominal Umbilical Artery: Further Support for a Caudal Regression-Sirenomelia Spectrum. *Am J Med Genet A.* 143(24):3175-84, December 2007. PMID: 17963219.
21. Feinstein JA, **Ernst LM**, Ganesh J, Feudtner C: What new information do pediatric autopsies provide? A retrospective evaluation of 100 consecutive autopsies using family-centered criteria. *Arch Pediatr Adolesc Med.* 2007 Dec;161(12):1190-1196. PMID: 18056565.
22. Hardy OT, Hernandez-Pampaloni M, Saffer JR, Scheuermann J, **Ernst LM**, Freifelder R, Zhuang H, MacMullen C, Alavi A, Becker S, Adzick NS, Divgi C, Stanley CA: Accuracy of [18F]-fluorodopa PET for diagnosing and localizing focal congenital hyperinsulinism. *J Clin Endocrinol Metab.* 2007 Dec;92(12):4706-4711. PMID: 1785314.
23. Magge SN, Chen HI, Stiefel MF, **Ernst L**, Cahill AM, Hurst R, Storm PB: Multiple ruptured cerebral aneurysms in a child with Takayasu arteritis. *J Neurosurg Pediatr.* 2008 Jan;1(1):83-7. PMID: 18352809.

24. **Ernst LM**, Grossman AB, Ruchelli ED: Familial Perinatal Liver Disease and Fetal Thrombotic Vasculopathy. *Pediatr Dev Pathol*. 2008 Mar-Apr;11(2):160-163. PMID: 17990937.
25. Srinivas SK, **Ernst LM**, Edlow AG, Elovitz MA: Can placental pathology explain second trimester pregnancy loss and subsequent pregnancy outcomes? *Am J Obstet Gynecol*. 2008 Oct;199(4):402.e1-5. PMID: 18928989.
26. Danzer E, Adzick NS, Rintoul NE, Zarnow DM, Schwartz ES, Melchionni J, **Ernst LM**, Flake AW, Sutton LN, Johnson MP: Intradural inclusion cysts following in utero closure of myelomeningocele: clinical implications and follow-up findings. *J Neurosurg Pediatr* 2008 Dec;2(6):406-13. PMID: 190356686.
27. Haas EJ, **Ernst L**: Picture of the month--quiz case. *Arch Pediatr Adolesc Med*. 2009 Jan;163(1):85. PMID: 19124708.
28. **Ernst LM**, Chou D, Parry S: Fetal Thrombotic Vasculopathy in Twin Placentas with Complete Hydatidiform Mole. *Pediatr Dev Pathol*. 2009 Jan-Feb;12(1):63-7. PMID: 18702565
29. Danzer E, **Ernst LM**, Rintoul NE, Johnson MP, Adzick NS, Flake AW: In utero meconium passage in fetuses and newborns with myelomeningocele. *J Neurosurg Pediatr*. 2009 Feb;3(2):141-6. PMID: 19278315.
30. Corao D, Biegel JA, Coffin CM, Barr FG, Wainwright LM, **Ernst LM**, Choi JK, Zhang PJ, Pawel B: ALK Expression in Rhabdomyosarcomas: Correlation with Histologic Subtype and Fusion Status. *Pediatr Dev Pathol*. 2009 Jul-Aug;12(4):275-83. PMID: 18788887
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37. Su EJ, **Ernst L**, Abdallah N, Chatterton R, Xin H, Monsivais D, Coon J, Bulun SE: Estrogen Receptor-Beta and Fetoplacental Endothelial Prostanoid Biosynthesis: A Link to Clinically Demonstrated Fetal Growth Restriction. *J Clin Endocrinol Metab.* 2011 Oct;96(10):E1558-67, Epub August 10, 2011. PMID: 21832119.
38. Schrier SA, Sherer I, Deardorff MA, Clark D, Audette L, Gillis L, Kline AD, **Ernst L**, Loomes K, Krantz ID, Jackson LG. Causes of Death and Autopsy Findings in a Large Study Cohort of Individuals with Cornelia De Lange Syndrome and Review of the Literature. *Am J Med Genet A.* 2011 Dec;155A(12):3007-24. Epub 2011 Nov 8. PMID: 2222915, PMID: 22069164.
39. Huang M, Cham E, Eppes CS, Gerber S, Reed K, **Ernst LM**. Placental and Fetal Findings in Intrauterine *Candida Lusitaniae* Infection Following In Vitro Fertilization And Embryo Transfer. *Pediatr Dev Pathol.* 2012 Mar-Apr;15(2):127-31. PMID: 21864122.
40. Lo AA, Faye-Petersen OM, **Ernst LM**. Intrauterine Fetal Death of a Monochorionic Twin with Peripheral Pulmonary Infarcts: Potential Thromboembolic Events Following Death of Co-twin. *Pediatr Dev Pathol.* 2012 Mar-Apr;15(2):142-5. PMID: 22070756.
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44. **Ernst LM**, Gawron LM, Fritsch MK. Pathologic Examination of Fetal and Placental Tissue Obtained by Dilation and Evacuation. *Arch Pathol Lab Med.* 2013 Mar;137(3):326-37. PMID: 23451744.
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Dysgenesis: Case Report and Literature Review. *Pediatr Dev Pathol.* 2013 Sep-Oct;16(5):378-86. PMID: 23899317.

49. Faye-Petersen OM, **Ernst LM**. Maternal Floor Infarction and Massive Perivillous Fibrin Deposition. *Surg Pathol Clin.* 2013 (6) 101–114.
50. Weisman PS, Kashireddy PV, **Ernst LM**. Pathologic Diagnosis of Achondrogenesis Type 2 in a Fragmented Fetus: Case Report and Differential Diagnostic Approach. *Pediatr Dev Pathol.* 2014 Jan-Feb; 17(1): 10-20. PMID: 24144387.
51. Faye-Petersen OM, Schauer G, **Ernst LM**, Williamson AK, Legallo R, Pacheco, C. Small Patients, Complex Challenging Cases - A Reappraisal of Professional Efforts in Perinatal Autopsies. *Arch of Pathol Lab Med.* 2014 Feb 3: 1-4. PMID: 24491223.
52. Voller SB, Chock S, **Ernst LM**, Su EJ, Xin L, Farrow KN, Mestan KK. Cord Blood Biomarkers of Vascular Endothelial Growth (VEGF and sFlt-1) and Postnatal Growth: A Preterm Birth Cohort Study. *Early Hum Dev.* 2014 Apr;90(4):195-200 PMID: 24480606; PMCID: PMC4096942.
53. Mestan KK, Check J, Minturn L, Yallapragada S, Farrow KN, Liu X, Su E, Porta N, Gotteiner N, **Ernst LM**. Placental Pathologic Changes of Maternal Vascular Underperfusion in Bronchopulmonary Dysplasia And Pulmonary Hypertension. *Placenta.* 2014 Aug;35(8):570-4. PMID: 24906549; PMCID: PMC4119480.
54. Su EJ, Xin H, Yin P, Dyson M, Coon J, Farrow KN, Mestan KK, **Ernst LM**. Impaired fetoplacental angiogenesis in growth-restricted fetuses with abnormal umbilical artery Doppler velocimetry is mediated by aryl hydrocarbon receptor nuclear translocator (ARNT). *J Clin Endocrinol Metab.* 2015 Jan;100(1):E30-40. PubMed PMID: 25343232; PMCID: PMC4283004.
55. **Ernst LM**. A Perinatologist's Perspective on the Perinatal Autopsy. *Semin Perinatol.* 2015 Feb;39(1):55-63. PMID: 25511296.
56. Linn RL, Minturn L, Yee LM, Maniar KP, Zhang Y, Fritsch MK, Kashireddy PV, Kapur RP, **Ernst LM**. Placental Mesenchymal Dysplasia without Fetal Development in a Twin Gestation: An Extreme in the Spectrum of Androgenetic Biparental Mosaicism. *Pediatr Dev Pathol.* 2015 Mar-Apr;18(2):146-54. PMID: 25625757.
57. Kashireddy P, Larson A, Minturn L, Ernst L. Case Report of Autopsy and Placental Examination After Radiofrequency Ablation of an Acardiac Twin. *Lab Med.* 2015 Summer;46(3):248-53. PMID: 26199267.
58. **Ernst LM**, Rand CM, Bao R, Andrade J, Linn RL, Minturn L, Zhang C, Kang W, Weese-Mayer DE. Stillbirth: Genome-Wide Copy Number Variation Profiling in Archived Placental Umbilical Cord Samples with Pathologic and Clinical Correlation. *Placenta* 2015 Aug;36(8):783-9. PMID: 26094028.
59. **Ernst LM**. Placental Mesenchymal Dysplasia. *J. Fetal Med.* September 2015;2:127-133.
60. Battarbee AN, Palatnik A, **Ernst LM**, Grobman WA. Association of Isolated Single Umbilical Artery with Small for Gestational Age and Preterm Birth. *Obstet Gynecol.* 2015 Oct;126(4):760-4. PMID:26348181.

61. Linn RL, Miller ES, Lim G, **Ernst LM**. Adherent basal plate myometrial fibers in the delivered placenta as a risk factor for development of subsequent placenta accreta. *Placenta*. 2015 Dec; 36(12):1419-24. Epub 2015 Oct 19. PMID: 26494605.
62. Miller ES, Minturn L, Linn R, Weese-Mayer DE, **Ernst LM**. Stillbirth evaluation: a stepwise assessment of placental pathology and autopsy. *Am J Obstet Gynecol*. 2016 Jan; 214(1):115.e1-6. Epub 2015 Aug 28. PMID: 26319054.
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64. Bhatti TR, Ganapathy K, Huppmann AR, Conlin L, Boodhansingh KE, MacMullen C, Becker S, **Ernst LM**, Adzick NS, Ruchelli ED, Ganguly A, Stanley CA. Histologic and Molecular Profile of Pediatric Insulinomas: Evidence of a Paternal Parent-of-Origin Effect. *J Clin Endocrinol Metab*. 2016 Mar;101(3):914-22. PMID: 26756113; PMCID: PMC4803165.
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67. Lim G, Horowitz JM, Berggruen S, **Ernst LM**, Linn RL, Hewlett B, Kim J, Chalifoux LA, McCarthy RJ. Correlation of Probability Scores of Placenta Accreta On Magnetic Resonance Imaging with Hemorrhagic Morbidity. *J Clin Anesth*. 2016 Nov;34:261-9. PMID: 27687389.
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72. Straughen JK, Misra DP, **Ernst LM**, Charles AK, VanHorn S, Ghosh S, Buhimschi I, Buhimschi C, Divine G, Salafia CM. Methods to decrease variability in histological scoring in placentas from a cohort of preterm infants. *BMJ Open*. 2017 Mar 31;7(3):e013877. doi: 10.1136/bmjopen-2016-013877. PubMed PMID: 28363925.

73. Lewis NE, Marszalek L, **Ernst LM**. Placental Pathologic Features in Fetomaternal Hemorrhage Detected by Flow Cytometry. *Pediatr Dev Pathol*. 2017 Mar-Apr;20(2):142-151. doi: 10.1177/1093526616687652. Epub 2017 Feb 8. PubMed PMID: 28326960.
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75. Keenan-Devlin LS, **Ernst LM**, Ross KM, Qadir S, Grobman WA, Holl JL, Crockett A, Miller GE, Borders AE. Maternal Income during Pregnancy is Associated with Chronic Placental Inflammation at Birth. *Am J Perinatol*. 2017 Aug;34(10):1003-1010. PubMed PMID: 28384838.
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79. Ayala NK, **Ernst LM**, Miller ES. Is umbilical coiling genetically determined? *J Perinatol*. 2018 Feb 21. doi: 10.1038/s41372-018-0078-y. [Epub ahead of print] PubMed PMID: 29467518.
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88. Szymanski LJ, **Ernst LM**. Cartilaginous Metaplasia Involving the Atrioventricular Node and Bundle of His Contributing to Sudden Early Neonatal Death. *Pediatr Dev Pathol*. 2020 Aug;23(4):312-316. doi: 10.1177/1093526619892352. Epub 2019 Dec 10. PMID: 31821773.
89. Freedman AA, Goldstein JA, Miller GE, Borders A, Keenan-Devlin L, **Ernst LM**. Seasonal Variation of Chronic Villitis of Unknown Etiology. *Pediatr Dev Pathol*. 2020 Aug;23(4):253-259. doi: 10.1177/1093526619892353. Epub 2019 Dec 10. PMID: 31821774.
90. Bockoven C, Gastfield RD, Victor T, Venkatasubramanian PN, Wyrwicz AM, **Ernst LM**. Correlation of Placental Magnetic Resonance Imaging with Histopathologic Diagnosis: Detection of Aberrations in Structure and Water Diffusivity. *Pediatr Dev Pathol*. 2020 Aug;23(4):260-266. doi: 10.1177/1093526619895438. Epub 2019 Dec 23. PMID: 31870210.
91. Agarwal I, **Ernst LM**. Perinatal Pulmonary Hemorrhage: A Retrospective Autopsy Case Series. *Pediatr Dev Pathol*. 2020 Aug;23(4):267-273. doi: 10.1177/1093526619900728. Epub 2020 Feb 19. PMID: 32075513.
92. Franklin A, Yallapragada S, Birkett R, Grobman W, **Ernst LM**, Mestan K. The impact of placental pathology discordance in multiple gestation pregnancies on bronchopulmonary dysplasia-associated pulmonary hypertension. *Pulm Circ*. 2020 Mar 9;10(1):2045894020910674. doi: 10.1177/2045894020910674. eCollection 2020 Jan-Mar. PubMed PMID: 32215199; PubMed Central PMCID: PMC7065289.
93. Hecht JL, Baergen R, **Ernst LM**, Katzman PJ, Jacques SM, Jauniaux E, Khong TY, Metlay LA, Poder L, Qureshi F, Rabban JT 3rd, Roberts DJ, Shainker S, Heller DS. Classification and reporting guidelines for the pathology diagnosis of placenta accreta spectrum (PAS) disorders: recommendations from an expert panel. *Mod Pathol*. 2020 Dec;33(12):2382-2396. doi: 10.1038/s41379-020-0569-1. Epub 2020 May 15. PMID: 32415266.
94. **Ernst LM**, Bockoven C, Freedman A, Wang V, Pellerite M, Wylie TN, Wylie KM. Chronic villitis of unknown etiology: Investigations into viral pathogenesis. *Placenta*. 2021 Apr;107:24-30.

doi: 10.1016/j.placenta.2021.02.020. Epub 2021 Mar 1. PMID: 33730616; PMCID: PMC8101289.

95. Freedman AA, Keenan-Devlin LS, Borders A, Miller GE, **Ernst LM**. Formulating a Meaningful and Comprehensive Placental Phenotypic Classification. *Pediatr Dev Pathol*. 2021 Jul-Aug;24(4):337-350. doi: 10.1177/10935266211008444. Epub 2021 Apr 19. PMID: 33872108; PMCID: PMC8277726.

96. **Ernst LM**, Mithal LB, Mestan K, Wang V, Mangold KA, Freedman A, Das S. Umbilical cord miRNAs to predict neonatal early onset sepsis. *PLoS One*. 2021 May 7;16(5):e0249548. doi: 10.1371/journal.pone.0249548. PMID: 33961620; PMCID: PMC8104380.

97. Freedman AA, Miller GE, Keenan-Devlin LS, Smart BP, Romero J, Borders A, **Ernst LM**. Adverse Pregnancy Outcomes Following the Assassination of John F. Kennedy in 1963. *Matern Child Health J*. 2021 Sep;25(9):1455-1464. doi: 10.1007/s10995-021-03139-x. Epub 2021 May 21. PMID: 34021436; PMCID: PMC8355166.

98. Freedman AA, Smart BP, Keenan-Devlin LS, Romero J, Franklin A, Borders A, **Ernst LM**, Miller GE. Time-dependent changes in placental mRNA expression after delivery due to delayed specimen collection. *Am J Reprod Immunol*. 2021 Oct;86(4):e13452. doi: 10.1111/aji.13452. Epub 2021 Jun 3. PMID: 34014593; PMCID: PMC8464485.

99. Freedman AA, Miller GE, **Ernst LM**. Chronic villitis: Refining the risk ratio of recurrence using a large placental pathology sample. *Placenta*. 2021 Sep 1;112:135-140. doi: 10.1016/j.placenta.2021.07.298. Epub 2021 Jul 30. PMID: 34352489; PMCID: PMC8405570.

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101. Sharma AM, Birkett R, Lin ET, **Ernst LM**, Grobman WA, Swaminathan S, Abdala-Valencia H, Misharin AV, Bartom ET, Mestan KK. Placental dysfunction influences fetal monocyte subpopulation gene expression in preterm birth. *JCI Insight*. 2022 Apr 26:e155482. doi: 10.1172/jci.insight.155482. Epub ahead of print. PMID: 35471950.

102. Suresh SC, Freedman AA, Hirsch E, **Ernst LM**. A comprehensive analysis of the association between placental pathology and recurrent preterm birth. *Am J Obstet Gynecol*. 2022 Jun 25:S0002-9378(22)00484-7. doi: 10.1016/j.ajog.2022.06.030. Epub ahead of print. PMID: 35764136.

103. Redline RW, Roberts DJ, Parast MM, **Ernst LM**, Morgan TK, Greene MF, Gyamfi-Bannerman C, Louis JM, Maltepe E, Mestan KK, Romero R, Stone J. Placental pathology is necessary to understand common pregnancy complications and achieve an improved taxonomy of obstetric disease. *Am J Obstet Gynecol*. 2022 Aug 13:S0002-9378(22)00642-1. doi: 10.1016/j.ajog.2022.08.010. Epub ahead of print. PMID: 35973475.

104. Roberts DJ, Baergen RN, Boyd TK, Carreon CK, Duncan VE, **Ernst LM**, Faye-Petersen OM, Folkins AK, Hecht JL, Heerema-McKenney A, Heller DS, Linn RL, Polizzano C, Ravishankar S, Redline RW, Salafia CM, Torous VF, Castro EC. Criteria for placental

examination for obstetric and neonatal providers. Am J Obstet Gynecol. 2022 Dec 19:S0002-9378(22)02295-5. doi: 10.1016/j.ajog.2022.12.017. Epub ahead of print. PMID: 36549567.

105. Franklin AD, Freedman A, **Ernst LM**. Association of placental histology and neonatal hematologic outcomes. J Perinatol. 2023 Feb;43(2):155-161. doi: 10.1038/s41372-022-01595-z. Epub 2022 Dec 30. PMID: 36585507.

106. Fritsch MK, Gotteiner N, Rehman JA, Price E, **Ernst LM**. Fetal Supraventricular Tachycardia: Histologic Evidence of Accessory Pathways Due to Incomplete Annulus Fibrosus Formation. Pediatr Dev Pathol. 2023 Mar 30:10935266231162764. doi: 10.1177/10935266231162764. Epub ahead of print. PMID: 36999240.

(b) Peer-reviewed works in 'non-traditional' outlets:

None

(c) Peer-reviewed works accepted or in press

None

(d) Non-peer-reviewed original articles

None

(e) Books:

As author:

None

As editor:

1. **Ernst LM**, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011. 31 chapters, pp399.

2. **Ernst LM**, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, 2nd edition, Philadelphia: Springer-Verlag, 2019. 37 chapters, pp445.

(e) Book chapters:

1. **Ernst LM**, Chapter 1: Heart and blood vessels. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 3-18.

2. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 11: Vas deferens. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 153-156.

3. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 12: Seminal vesicle. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 157-161.

4. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 13: Prostate gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 163-171.

5. **Ernst LM**, Chapter 18: Adrenal gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 201-212.

6. **Ernst LM**, Chapter 19: Thyroid gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 213-224.
7. **Ernst LM**, Chapter 20: Parathyroid gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 225-229.
8. **Ernst LM**, Chapter 21: Pituitary gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 231-238.
9. **Ernst LM**, Chapter 22: Thymus gland. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 241-250.
10. **Ernst LM**, Chapter 23: Spleen. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 251-260.
11. **Ernst LM**, Chapter 25: Palatine Tonsil. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 267-271.
12. **Ernst LM**, Chapter 28: Bone. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 323-336.
13. **Ernst LM**, Chapter 29: Skeletal muscle. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 337-344.
14. **Ernst LM**, Chapter 31: Placenta. In: Ernst LM, Ruchelli ED, Huff DS. Color Atlas of Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2011, p 363-388.
15. **Ernst L.M.**, and Faye-Petersen O.M. Miscellaneous Placental Pathology (Includes Massive Perivillous Fibrin Deposition, Fetal Thrombotic Vasculopathy, and Placenta Accreta). In: Linda M. McManus, Richard N. Mitchell, editors. Pathobiology of Human Disease. San Diego: Elsevier; 2014. p 2403-2422.
16. **Ernst LM** & Linn RL, Umbilical Cord Knots. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p I1-10-13.
17. **Ernst LM**, Linn RL & Heerema-McKenney A, Umbilical Cord Edema and Thinning. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p I1-14-17.
18. **Ernst LM**, Gross Evaluation and Normal Histology of Chorionic Plate. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p I3-2-7.
19. **Ernst LM**, Massive Perivillous Fibrin Deposition and Maternal Floor Infarction. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p I15-2-5.
20. **Ernst LM**, Large Vessel Fetal Vascular Occlusion. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p I16-2-7.

21. **Ernst LM**, Distal Villous Lesions Associated With Fetal Vascular Occlusion. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p II6-8-11.
22. **Ernst LM**, Placental Causes of Poor Fetal Growth. In: Heerema-McKenney A, De Paepe, ME, Popek, EJ. Diagnostic Pathology: Placenta, Amyrsis 2015, p III4-2-3.
23. **Ernst LM**, Chapter 28, Morbidly adherent placenta, In Redline RW, Boyd T, Roberts DJ. Placental and Gestational Pathology. New York: Cambridge University Press 2018, p 283-295.
24. **Ernst LM** & Fritsch MK, Chapter 1: Heart. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 3-20.
25. **Ernst LM** & Fritsch MK, Chapter 2: Blood vessels and lymphatic vessels. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 21-32.
26. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 12: Vas deferens. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 157-160.
27. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 13: Seminal vesicle. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 161-166.
28. **Ernst LM**, Ruchelli ED, Huff DS, Chapter 14: Prostate gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 167-174.
29. **Ernst LM** & Marsden L, Chapter 20: Adrenal gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 213-222.
30. **Ernst LM**, Chapter 21: Thyroid gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 223-232.
31. **Ernst LM** & Marsden L, Chapter 22: Parathyroid gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 233-240.
32. **Ernst LM**, Chapter 23: Pituitary gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 241-247.
33. **Ernst LM** & Carreon CK, Chapter 24: Thymus gland. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 251-260.

34. **Ernst LM**, Chapter 25: Spleen. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 261-268.
35. **Ernst LM** & Carreon CK, Chapter 27: Palatine Tonsil. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 275-280.
36. **Ernst LM**, Chapter 32: Bone. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 357-366.
37. **Ernst LM** & Shannon P, Chapter 33: Skeletal muscle. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 367-374,
38. **Ernst LM** & Carreon CK, Chapter 36: Placenta. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 399-424.
39. **Ernst LM** & Fritsch MK, Chapter 37: Histologic changes associated with fetal maceration. In: Ernst LM, Ruchelli ED, Carreon CK, Huff DS. Color Atlas of Human Fetal and Neonatal Histology, Philadelphia: Springer-Verlag, 2019, p 427-434.
40. **Ernst LM**, (Umbilical Cord) Knots. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 14-17.
41. **Ernst LM** & Heerema-McKenney A, Umbilical Cord Edema and Thinning. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 18-20.
42. **Ernst LM**, Gross Evaluation and Normal Histology of Chorionic Plate. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 38-43.
43. **Ernst LM**, Massive Perivillous Fibrin Deposition and Maternal Floor Infarction. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 168-173.
44. **Ernst LM**, Large Vessel Fetal Vascular Malperfusion. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 174-181.
45. **Ernst LM**, Distal Villous Lesions of Fetal Vascular Malperfusion. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 182-185.
46. **Ernst LM**, Placental Causes of Poor Fetal Growth. In: Heerema-McKenney A, Popek, EJ, De Paepe, ME. Diagnostic Pathology: Placenta, Amyrsis 2019, p 304-307.
47. Katzman PJ, **Ernst LM**, Scheimberg IB, Chapter 8: Massive Perivillous Fibrinoid Deposition and Maternal Floor Infarct, In Khong TY, Mooney EE, Nikkels FGJ, Morgan TK, Gordijn SJ. Pathology of the Placenta, A practical guide. Springer Nature Switzerland AG 2019, p 77-82.

48. Jacques SM, Qureshi F, **Ernst LM**, Chapter 33: Chronic deciduitis, In Khong TY, Mooney EE, Nikkels FGJ, Morgan TK, Gordijn SJ. Pathology of the Placenta, A practical guide. Springer Nature Switzerland AG 2019, p 233-236.

49. **Ernst LM**, Jacques SM, Qureshi F, Chapter 34: Basal Plate Myometrial Fibres. In Khong TY, Mooney EE, Nikkels FGJ, Morgan TK, Gordijn SJ. Pathology of the Placenta, A practical guide. Springer Nature Switzerland AG 2019, p 237-242.

(f) Other works that are publicly available (websites, interviews, publications in the popular press, testimony, computer programs, protocols, reagents, inventions, patents not listed above, etc.)

None

(g) Clinical trials that are ongoing and unpublished

None

(j) Works in review, in preparation, etc. not yet publically available [list ONLY if available for BSD review]

None

FUNDING

(a) Past:

1. NIH 5RO1-DK56268-08 PI: Charles Stanley. My role: Pathology review. Title: Islet dysregulation in Infants with Congenital Hyperinsulinism. Annual direct costs \$401,426.00. Linda Ernst 5% effort through 8-2008. Project period 07/01/2006-06/30/2009.
2. NICHD R43HD062307-01 PI: Carolyn M Salafia. My role: Consultant. Title: Placental Pathology: Digital Assessment and Validation, Total award \$125,815. Project period: 09/29/200–08/31/2010.
3. Friends of Prentice 650-5246000-60029995 PI: Linda M. Ernst. Project Title: Stillbirth: Identification of Pathologic and Genetic Risk Factors. Total award \$98,830. Project period: 09/01/2011–08/30/2012.
4. JIT 1R01HL119846-01A1 PI: Emily Su PI, My role: Tissue collection and examination. Title: Mediators of impaired fetoplacental angiogenesis in fetal growth restriction. Total annual award: \$250,000. Linda Ernst 2.5% effort. Project period: 10/01/2014–02/01/2015.
5. NIH/NICHD, HHSN275201300013C PI: Grobman, William. My role: Tissue collection. Title: The Asthma Cohort Support Contract, Linda Ernst, 2% effort. Project period 9/26/2013–1/5/2017.
6. NorthShore Research Institute Pilot grant PI: Ernst, Linda. Title: Cord Blood and Placental miRNAs to predict neonatal early onset sepsis. Total award: \$40,000. Project period 10/1/17 – 9/30/18. NCE thru 4/2019.

7. NIH, 1R01MD011749-01 PI: Miller, Greg. My role: Placental biology expert. Title: The role of epigenetic and transcriptional regulation in the placenta, Linda Ernst, 10% effort. Project period 9/26/17-5/31/2022.
8. NIH / NICHD, 1R01HD092446-01A1 PI: Borders, Ann. My role: Placental biology expert. Title: Psychosocial Intervention, Maternal Inflammation, and Birth Outcomes: Centering vs. Routine Prenatal Care (PIINC), Linda Ernst, 10% effort. Project period 4/13/2018-4/12/2023.

(b) Current:

1. NIH, 1R01HD109291 PI: Pellerite/Weisleder. My role: Co-I. Title: Identifying the contributions of the gestational and care giving environment to socioeconomic disparities in child language and cognitive development, Linda Ernst, 5% effort. Project period 9/13/2022-5/31/2027.
2. NIH / NICHD, 1R01HD103762-01A1 PI: Ernst/Wylie. My role: Co-PI. Title: Viral Pathogenesis of chronic inflammatory lesions of the placenta, Linda Ernst, 20% effort. Project period 8/6/2021-7/31/2026.
3. NIH, 2R01HD072455-06A1 PI: Maltepe. My role: Placental biology/histology expert. Title: Integrating Environmental Cues at the Maternal-Fetal Vascular Interface. Linda Ernst, 10% effort. Project period 7/15/2019 - 4/30/2024.
4. NorthShore Research Institute Auxiliary Research Scholar PI: Ernst, Linda. Title: Molecular (Nucleic Acid-Based) Laboratory Testing to Diagnose Neonatal Early Onset Sepsis. Total award: \$150,000. Project period 10/1/19 – 9/30/22. NCE thru 9/30/2023.

HONORS, PRIZES, AND AWARDS

1984	Alpha Lambda Delta Honor Society
1987	Golden Key Honor Society
1990	Quinnipiac College Outstanding Academic Achievement Award
2000	Halina Goldstein Award, outstanding performance on the autopsy service
2003	Gordon Vawter Award, Society for Pediatric Pathology
2010	Perinatal Pathology Award, runner up, Society for Pediatric Pathology
2015	Outstanding Teacher, Northwestern University Feinberg School of Medicine
2016	Outstanding Teacher, Northwestern University Feinberg School of Medicine
2017	Teacher of the year, Anatomic Pathology, NorthShore University Health System
2019	Harry B. Neustein Award, Society for Pediatric Pathology
2020	Benirschke Perinatal Pathology Award, Society for Pediatric Pathology
2021	Distinguished Colleague Award, Society for Pediatric Pathology
2022	Pediatric and Developmental Pathology Best Paper Award 2022
2022	Benirschke Perinatal Pathology Award, Society for Pediatric Pathology

INVITED SPEAKING

April 2006	“Placental Pathology: What should a pathologist recognize?” Thomas Jefferson University, Anatomic Pathology, Philadelphia, PA
June 2006	“Placental Pathology: What should the pathologists’ assistant know?” Mid Atlantic Pathologists Assistants Regional Conference, Lancaster, PA

Sep 2006 "Placental pathology: Major Pathologic Processes Contributing to Stillbirth and Implications for Live births." University of Pennsylvania of Pennsylvania Department of Obstetrics and Gynecology Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA

Nov 2006 "Pediatric Autopsy: Major Pathology in Stillbirth and Neonatal Death", Hahnemann University Hospital/Drexel University College of Medicine, Department of Pathology, Philadelphia, PA

Nov 2006 "Placental pathology: Three major pathologic processes", Hahnemann University Hospital/Drexel University College of Medicine, Department of Pathology, Philadelphia, PA

Dec 2006 "The importance of autopsy and placental examination in the investigation of pregnancy loss", March of Dimes sponsored conference: Investigating ways to improve pregnancy outcomes, Princeton, NJ

Feb 2007 "Placental Pathology in Mouse Model of Thrombophilia due to Factor V Leiden and High Levels of Factor IX", Children's Medical Center, Dallas, TX.

June 2007 "Placental Pathology in a Mouse Model of Thrombophilia", Children's Memorial Hospital Pathology Grand Rounds, Chicago, IL

Feb 2008 "Investigating the Pathologic Processes Contributing to Pregnancy Loss", Hospital for Sick Children, Toronto, Canada

April 2008 "Localized Islet Cell Nuclear Enlargement in Congenital Hyperinsulinism: A Distinct Clinicopathologic Entity", Children's Hospital Boston, Boston, MA

April 2008 "Investigating the Placental Pathologic Processes Contributing to Pregnancy Loss", Brigham and Women's Hospital, Department of Pathology, Perinatal Division Research Rounds, Boston, MA

Sept 2009 "Pathologic Examination of the Placenta, Why bother?" Grand rounds, Department of Obstetrics and Gynecology, Prentice Women's Hospital, Chicago, IL

Feb 2010 "The Value of the Perinatal Autopsy in the Work-up of Genetic Disease", Educational symposium for The Genetic Task Force of Illinois and the Illinois Department of Public Health, Prentice Women's Hospital, Chicago, IL

Feb 2011 "Placental Pathologic Correlations with Neonatal Outcome", Children's Memorial Hospital, Pathology Grand Rounds, Chicago, IL

March 2011 "Placental Pathologic Correlations with Neonatal Outcome", Northwestern University Feinberg School of Medicine, Pathology Grand Rounds, Chicago, IL

April 2011 "Placental Pathologic Correlations with Neonatal Outcome", Children's Hospital of Los Angeles, Pathology Grand Rounds, Los Angeles, CA

March 2012 "Massive perivillous fibrin deposition", Pediatric Specialty Conference and expert panel discussion, USCAP annual meeting, Vancouver, BC, Canada

June 2012 "Pathologic Evaluation of Stillbirth", Grand Rounds, Department of Obstetrics & Gynecology, Prentice Women's Hospital, Chicago, IL

Sept 2014 "Diagnosis of Skeletal Dysplasia in Disrupted Fetuses", Perinatal symposium on Skeletal Dysplasia, International joint meeting of the Society for Pediatric Pathology and Pediatric Pathology Society, Birmingham, England

Nov 2014 "Evaluation of Stillbirth: A Perinatal Pathologist's Perspective", Penn State University, Pathology Grand Rounds, Hershey, PA

Feb 2015 "Placental Pathology Associated with Perinatal Brain Injury", Nationwide Children's Hospital, Pathology Grand Rounds, Columbus, OH

Sept 2015 "Evaluation of Stillbirth: A Perinatal Pathologist's Perspective", Chicagoland Perinatal Network Conference, Advocate Lutheran General Hospital, Park Ridge, IL

Nov 2015 "Evaluation of Stillbirth: Constructing Meaning from Pathology", Spotlight on Support: Constructing Support, Challenges of Perinatal Loss Conference, The Alliance of Perinatal Bereavement Support Facilitators – Chicago Region and the University of Chicago Perinatal Center, University of Chicago, Chicago, IL

March 2016 "Evaluation of Stillbirth: Constructing Meaning from Pathology", Delnor Hospital Continuing Education Seminar, Geneva, IL

Sept 2016 "Evaluation of Stillbirth: A Perinatal Pathologist's Perspective", Department of Pathology NorthShore University Health System, Evanston, IL

Sept 2016 "The Placenta as Witness in Stillbirth", International Academy of Pathology, Symposium, Cologne, Germany

Sept 2016 "Implications of hypoxia-induced vascular maldevelopment", International Federation of Placenta Associations, Portland, OR

April 2017 "Pathologic Examination of the Placenta, Why bother?" Perinatal Conference, Departments of Obstetrics and Gynecology and Neonatology, Evanston Hospital NorthShore University HealthSystem, Evanston, IL

June 2017 "Evaluation of Stillbirth: A Perinatal Pathologist's Perspective", Grand Rounds, Department of Obstetrics & Gynecology, Evanston Hospital NorthShore University HealthSystem, Evanston, IL

Aug 2017 "The Placenta as Witness in Stillbirth", International Federation of Placental Associations, Symposium on Stillbirth, Manchester, U.K.

Sept 2017 "Chronic villitis of unknown etiology", European Congress of Pathology, Long course on Placental pathology, Amsterdam, Netherlands

Nov 2017 "Pathologic examination of the placenta: Why bother?", Grand Rounds, Department of Obstetrics & Gynecology, OSF Saint Francis Medical Center, Peoria, IL

May 2018 "Placenta as witness in Stillbirth", Grand Rounds, Department of Pathology, New York University (NYU) School of Medicine, NYU Langone Medical Center, New York, NY

Oct 2018 "Investigations into Neonatal Sepsis", Grand Rounds, Department of Pathology and Laboratory Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL

Oct 2018 "Pathologic examination of the fragmented fetus", Perinatal symposium on Congenital Malformations, Society for Pediatric Pathology and Pediatric Pathology Society Fall meeting, Ann Arbor, MI

March 2019 Visiting professor in Pathology – 4 lectures on placental pathology, Madigan Army Base Pathology department, Tacoma, WA

Feb 2020 "Pathologic classification of placenta accreta spectrum disorders: where are we now and where do we need to go." Accreta Spectrum Scientific Forum. Society for Maternal Fetal Medicine 40th annual meeting Grapevine, TX Feb 5 2020.

March 2020 Case presentation on Accreta Spectrum disorders. Pediatric Specialty Conference and expert panel discussion, USCAP annual meeting, Los Angeles, CA

Jan 2021 "Chronic Placental Inflammation: Investigations into Pathogenesis", Virginia H. and Russel McFarland lecture - Pediatrics Grand Rounds, Texas Children's Hospital, Houston, TX.

Feb 2021 "Chronic Placental Inflammation: Investigations into Pathogenesis", Pathology Grand Rounds, NorthShore University HealthSystem, Evanston, IL

April 2021 Keynote Lecture and slide session: "Standardization of Pathology Reporting of Placenta Accreta Spectrum Disorders", International Academy of Pathology- Australasian division - Virtual meeting April 2021

	Pediatric Pathology Subgroup Session: “Chronic Placental Inflammation: Investigations into Pathogenesis”, International Academy of Pathology-Australasian division - Virtual meeting April 2021
June 2021	“Chronic Placental Inflammation: Investigations into Pathogenesis”, Department of Obstetrics and Gynecology Grand Rounds (virtual), University of Illinois College of Medicine Peoria, Peoria, IL.
June 2021	“The Value of the Pathologic Examination in Stillbirth”, Star Legacy Foundation Stillbirth Summit (virtual event).
April 2022	“Pathology of Stillbirth”, International Pediatric Pathology Association, Virtual Event.
Oct 2022	“Placental Pathology in 2022: Where Are We and Where Are We Going?”, Enid Gilbert-Barnes Lecture – Pathology Grand Rounds, University of Wisconsin, Madison, WI.
Jan 2023	“Placental Pathology in 2023: Where Are We and Where Are We Going?”, Pathology Grand Rounds (virtual), Oregon Health Sciences University, Portland, OR.
April 2023	“Utilizing Placental Pathology for Targeted Obstetric Care: Promise or Pipedream?” Obstetrics and Gynecology Departmental Grand Rounds (virtual), NorthShore University HealthSystem, Evanston, IL

INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE

2005-2008	Finance committee member, Society for Pediatric Pathology
2008-2010	Finance committee chair, Society for Pediatric Pathology
2008-2010	Council member, Society for Pediatric Pathology
2008-present	Editorial Board, Pediatric and Developmental Pathology
2010-2014	Development subcommittee chairperson, Society for Pediatric Pathology
2011-2019	Test Development and Advisory Committee, American Board of Pathology
2014-2016	Development subcommittee member, Society for Pediatric Pathology
2014-2016	Strategic Planning committee member, Society for Pediatric Pathology
2014-2017	Counselor at Large/Board member, Society for Pediatric Pathology
2016-2018	Associate editor, Pediatric and Developmental Pathology
2017-2018	Treasurer-Elect, Society for Pediatric Pathology
2018-2021	Treasurer, Society for Pediatric Pathology
2020-present	Editorial board, Placenta
2022-2023	President-Elect, Society for Pediatric Pathology
2023-2024	President, Society for Pediatric Pathology
Various	Manuscript reviewer for Pediatric and Developmental Pathology, Placenta, American Journal of Obstetrics and Gynecology, Human Pathology, Journal of Pediatric Hematology and Oncology, Experimental Lung Research, American Journal of Medical Genetics

PROFESSIONAL SOCIETIES

Elected or invited membership:

None

Other:

Society for Pediatric Pathology

EDUCATION

The College (B.A., B.S.):

None

Graduate programs (M.S., Ph.D.):

2006-2008 Director of Clinical Site Rotations for Pathologists' Assistant students, Master of Health Science program Drexell University. The Children's Hospital of Philadelphia.

Pritzker School of Medicine (M.D.): None

2007-2008 General Pathology Laboratory Section Preceptor (8 labs) and Perinatal Pathology Lecturer, Mechanisms of Disease and Therapeutic Intervention, University of Pennsylvania School of Medicine

2009-2011 Team-Based Learning Preceptor and Perinatal Pathology Lecturer Scientific Basis of Medicine course, Northwestern University Feinberg School of Medicine

2009-2017 Placental development and Placental pathology lectures (1-2 per year), Northwestern University Feinberg School of Medicine

Graduate medical education (residency and clinical fellowships):

(a) Didactic

2008-2017 3-8 resident lectures/unknown conferences per year, Northwestern Memorial Hospital

(b) Clinical

2005-2008 Teaching of residents and fellows in Surgical and Autopsy Pathology The Children's Hospital of Philadelphia, ~35 hours/month

2008-2017 Teaching of residents and fellows in Surgical and Autopsy Pathology, Northwestern Memorial Hospital, ~50 hours/month

2017 Teaching of residents and fellows in Surgical and Autopsy Pathology, NorthShore University HealthSystem, ~50 hours/month

Continuing medical education:

2015 2 invited lectures on Perinatal Pathology topics as part of "Perinatal Pathology course", Chicago, IL

1. Normal Developmental Histology of the Fetal Kidney, Lung, Liver, and Gonads
2. Placental Pathology: 'Miscellaneous' but Important Pathologic Lesions

2018 Bone dysplasia workshop, Society for Pediatric Pathology, Spring meeting, Vancouver, BC

2018 4 invited lectures on Perinatal Pathology topics as part of Aspen course on Pediatric Pathology, Aspen, CO

1. Placental Pathology: Amsterdam Update
2. Evaluation of Stillbirth: A Perinatal Pathologist's Perspective
3. Placental Pathology: Twin Gestations
4. Perinatal Pathology Cases

2019 Bone dysplasia workshop, Society for Pediatric Pathology, Spring meeting, Arlington, VA

2019 4 invited lectures on Perinatal Pathology topics as part of Advanced course in Pediatric Pathology, International Pediatric Pathology Association (IPPA), Lisbon, Portugal, September 21-27, 2019.

1. Placental Pathology– Amsterdam Update
2. Normal Developmental Histology of the Fetal Kidney, Lung, Liver and Gonads
3. Placental Pathology with High Recurrence Risk

4. Placental Pathology: Twin Gestations
- 2020 Bone dysplasia workshop, Society for Pediatric Pathology, Spring meeting, Los Angeles, California
- 2020 "The Value of Autopsy and Pathology", Perinatal Loss Course, Video Conference, Northwestern Perinatal Center, Chicago, IL, Sept 15, 2020.
- 2021 "The Value of Autopsy and Pathology in Investigating Perinatal Loss", Zoom Video Conference, Northwestern Perinatal Center, March 24, 2021
- 2021 5 lectures on Perinatal Pathology topics as part of "SPP Virtual Perinatal Pathology course". April 8-11, 2021
1. Placental Pathology: 'Miscellaneous' but Important Pathologic Lesions
 2. Normal Developmental Histology of Fetal Organs
 3. Approach to the Perinatal Autopsy
 4. The Skeletal Evaluation and Skeletal Dysplasia
 5. Cases and Conversation
- 2021 "The Value of Autopsy and Pathology in Investigating Perinatal Loss", Zoom Video Conference, Northwestern Perinatal Center, Sept 14, 2021
- 2022 "The Value of Autopsy and Pathology in Investigating Perinatal Loss", Zoom Video Conference, Northwestern Perinatal Center, March 8, 2022
- 2022 5 invited lectures on Perinatal Pathology topics as part of the International Paediatric Pathology Association (IPPA) - Update Course in Paediatric and Perinatal pathology, Rome, Italy, June 18-24, 2022.
1. Case presentations in perinatal death
 2. Pathology of gestational trophoblastic disease
 3. Chronic placental inflammation: classification and investigations into pathogenesis
 4. Standardization of pathology reporting for placenta accreta spectrum disorders
 5. The value of pathologic examination in stillbirth
- 2022 "The Value of Autopsy and Pathology in Investigating Perinatal Loss", Zoom Video Conference, Northwestern Perinatal Center, Sept 13, 2022

Other:

- 2010-2015 Infectious Disease Summer Academy, Perinatal infectious disease (yearly), Gross placental dissection laboratory, Young Women's Leadership Charter School of Chicago.

Research trainees:

- (a) High school students and teachers
None

(b) Undergraduate (B.A., B.S.)

- 2010-2012 Michael Huang, undergraduate student, work-study program, Northwestern University
- 2012-2013 Bryan Huang, undergraduate student, work-study program, Northwestern University
- 2015-2017 Elizabeth Torres, undergraduate student, work-study program, Northwestern University.
- 2022 Ena Basic, undergraduate student @ Harvard College, summer research experience/seasonal employee, NorthShore University HealthSystem Department of Pathology and Laboratory Medicine

(c) Medical (M.D.)

- 2006-2007 James A. Feinstein, 4th year Medical Student, University of Pennsylvania
2007-2008 Aqiba Bokhari, fellow Pediatric Pathology, The Children's Hospital of Philadelphia
2007- 2009 Adrienne Carruth, Pathology resident, Hospital of the University of Pennsylvania, Oct 2009: Winner of Gordon Vawter award for best presentation by Pathologist in training
2013-2016 Rebecca L. Linn, Pathology resident, Northwestern University
Oct 2013: Winner of Resident Recruitment Award for best review of an article relevant to Pediatric Pathology
April 2014: Award for Outstanding Research Addressing Women's Health at the Tenth Annual Lewis Landsberg Research Day
Sept 2014: Winner of the award for best presentation in Perinatal Pathology at the International joint meeting of the Society for Pediatric Pathology and Pediatric Pathology Society in Birmingham, England
Accepted for Pediatric Pathology Fellowship at Children's Hospital of Philadelphia, July 2016
2014-2015 Sushmita Yallapragada, Neonatology Fellow, Northwestern University
2014-2016 Natasha Lewis, Pathology resident, Northwestern University
April 2016: Award for Outstanding Research Addressing Women's Health at the Annual Lewis Landsberg Research Day
2015-2016 Lily Marsden, Pediatric Pathology fellow, Ann & Robert H. Lurie Children's Hospital of Chicago
2017-2020 Crystal Bockoven, M.D., Pathology resident, NorthShore University Health System
Oct 2019: Winner Gordon Vawter Award for best presentation by a trainee
Feb 2020: Winner Kurt Benirschke Perinatal Award for best presentation in Perinatal pathology
Accepted for Pediatric Pathology Fellowship Children's Hospital of Los Angeles beginning July 2020.
2017-2020 Caitlin MacGregor, M.D., Maternal Fetal Medicine fellow, NorthShore University HealthSystem.
2018-2021 Sunitha Suresh, M.D., Maternal Fetal Medicine fellow, NorthShore University HealthSystem

(d) Graduate (Ph.D.)

None

(e) Postdoctoral

- 2019-2022 Alexa Freedman, National Research Service Award, F32 HD100076, National Institute of Child Health and Human Development, 2019-2022.

CLINICAL

- 2005-2008 Pediatric Pathologist, The Children's Hospital of Philadelphia
2008-2017 Director, Perinatal Pathology, Northwestern Memorial Hospital
2016-2017 Director, Autopsy Pathology, Northwestern Memorial Hospital
2017-present Perinatal Pathologist, NorthShore University HealthSystem

SERVICE

Past Committee membership:

- 2009-2011 Clinical Specimen Release Committee, Northwestern Memorial Hospital

2010-2011 Information Technology Committee, Northwestern Memorial Hospital
2011-2013 Operations and Services Committee, Northwestern Memorial Hospital
2013-2015 NMHC Laboratory Utilization Committee, Northwestern Memorial Hospital
2014-2015 Residency Program Evaluation Committee, Northwestern Memorial Hospital
2014-2017 Clinical Competency Committee, Northwestern Memorial Hospital
2014-2017 Finance committee, AP revenue management subcommittee, Northwestern Memorial Hospital
2015-2017 Quality committee, Northwestern Memorial Hospital

Past leadership:

2008-2017 Director, Perinatal Pathology, Northwestern Memorial Hospital
2016-2017 Director, Autopsy Pathology, Northwestern Memorial Hospital

Past other:

2010-2017 Interviewer of residency candidates
2014-2017 Clinical Competency Committee, Northwestern Memorial Hospital
2014-2015 Residency Program Evaluation Committee, Northwestern Memorial Hospital

NorthShore University HealthSystem

Committee membership:

2017-present Residency Education Committee, Department of Pathology and Laboratory Medicine, Evanston Hospital
2017-present Perinatal Quality Committee, Evanston Hospital
2019-present Perinatal Quality Committee, Highland Park Hospital, (ad hoc)
2019-present Clinical competency committee

Leadership:

2017-present Co-Director, Autopsy service
2017-present Director, Perinatal Pathology service

Other:

None

Extramural (not indicated above)

Leadership roles:

Feb 2006 Organizer, TriState Pediatric Pathology Society meeting
Aug 2006 Organizer, TriState Pediatric Pathology Society meeting
2006-2008 Organizer, Clinical Pathologic Correlation Conferences for Pediatric Grand Rounds, The Children's Hospital of Philadelphia
April 2015 Assistant Course Director, Perinatal Pathology (3 day) Course, Chicago, IL. Sponsored by Society for Pediatric Pathology
April 2021 Course Director, Virtual Perinatal Pathology Course (4 day), Sponsored by Society for Pediatric Pathology

Other:

None