

Regina M. DelBaugh, DO, MS



Assistant Professor of Pathology
Co-Associate Director of Transfusion Medicine
Co-Associate Director of Apheresis
Department of Pathology
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Education

Postgraduate Medical Training

2023 - 2024 Fellowship
Transfusion Medicine
Dartmouth Health
Lebanon, NH

2019 - 2023 Residency
Anatomic and Clinical Pathology
Dartmouth Health
Lebanon, NH

Medical Education

2015 – 2019 D.O. Philadelphia College of Osteopathic Medicine
Philadelphia, PA

Graduate Education

2011 – 2013 M.S. Philadelphia College of Osteopathic Medicine
Philadelphia, PA

Undergraduate Education

2007 – 2011 B.S. Saint Joseph's University
Philadelphia, PA

Licenses & Certifications

Virginia Medical License

Anatomic and Clinical Pathology, American Board of Pathology, 2023

Selected Awards & Honors

Martha and Michael J. Avallone Endowed Memorial Scholarship

Philadelphia College of Osteopathic Medicine Alumni Scholarship

Philadelphia College of Osteopathic Medicine Foundation Scholarship

Philadelphia College of Osteopathic Medicine Board of Trustees Scholarship

Saint Joseph's University Presidential Scholarship

Editorial Advisory Boards

Ad hoc Reviewer:

2021 – present Vox Sanguinis

2021 – present Journal of Clinical Apheresis

2023 – present Plasmatology

Professional Service (outside)

2024 – present American Society for Apheresis (ASFA)

2024 – present Donor Health and Safety Committee, Association for the Advancement of Blood and Biotherapies (AABB)

2023 – present International Society of Blood Transfusion (ISBT)

2021 – present Association for the Advancement of Blood & Biotherapies (AABB)

2020 – present	American Society for Clinical Pathology (ASCP)
2020 – present	Association for Molecular Pathology (AMP)
2020 – present	Accredited Laboratory Inspector, College of American Pathologists (CAP)
2019 – present	Alumni volunteer with PCOM Pillars, Philadelphia College of Osteopathic Medicine (PCOM)
2019 – present	College of American Pathologists (CAP)

Selected Publications

Peer Reviewed Papers

DelBaugh RM, Kerr DA, Dominguez-Konicki L, et al. Metastatic Neuroendocrine Neoplasms to the Pancreas: Two Unusual Cases and a Review of the Literature. *International Journal of Surgical Pathology*. 2023;0(0).
doi:10.1177/10668969231185067

Toland, Maris MD; Bentz, Jessica MD; Bonasia, Kyra MD; Damiano, Ella MD; **DelBaugh, Regina DO**; Gerjevic, Kristen MD. Uterine and Ovarian Histopathology in Transmasculine and Nonbinary Patients on Testosterone Compared to Cisgender Control Patients [ID: 1381367]. *Obstetrics & Gynecology* 141(5S):p 5S, May 2023. DOI: 10.1097/01.AOG.0000929752.88321.bf

DelBaugh RM, Cook LJ, Siegel CA, Tsongalis GJ, Khan WA. Validation of a rapid HLA-DQA1*05 pharmacogenomics assay to identify at-risk resistance to anti-tumor necrosis factor therapy among patients with inflammatory bowel disease. *American Journal of Clinical Pathology*, 2023.
<https://doi.org/10.1093/ajcp/aqad036>

Toland MK, Bonasia K, Bentz J, **DelBaugh RM**, Vitale EJ, Scudder PN, Damiano EA. Uterine and Ovarian Histopathology after Testosterone for Gender Affirmation: A Systematic Review. *Transgender Health*. 2023.
<https://doi.org/10.1089/trgh.2022.0207>

Ondrasik RM, Khan J, Szczepiorkowski ZM, Levy JJ, Dunbar NM. Passive order auditing associated with reductions in red blood cell utilization: National blood shortage experience. *Transfusion*. 2022;62(8):1551–8. <https://doi.org/10.1111/trf.17008>

Anderson B, **Ondrasik R**, Kaur P. Alder-Reilly Anomaly: Morphologic Clue in a Patient with Hunter Syndrome. American Society of Hematology (ASH) Image Bank. Category: Myeloid Disorders > Lysosomal storage disorders. Published Date: 04/20/2022.

Ondrasik RM, Creed C, Anderson SR, Green DC, Houde BE, Godwin KN, Vaickus LJ, Lefferts JA, Khan WA, Tsongalis GJ. Validation of a Rapid PCR-based Assay for BRAF V600 Status for Prognostication and Therapeutic Selection in Colorectal Cancer Patients. *J Molec Diagn* 2021;23, 1620 (ST24).

Ondrasik RM, Cook LJ, Siegel CA, Tsongalis GJ, Khan WA. Validation of a Rapid HLA-DQA1*05 Pharmacogenomics Assay to Identify At-Risk Resistance to Anti-TNF Therapy in Inflammatory Bowel Disease (IBD) Patients. *J Molec Diagn* 2021;23, 1572 (G17).

Ondrasik RM, Jordan P, Sriharan A. A clinical mimicker of melanoma with distinctive histopathology: Topical silver nitrate exposure. *J Cutan Pathol*. 2020; 47(12): 1205– 1210. <https://doi.org/10.1111/cup.13851>

Ondrasik RM, Deharvengt S, Green DC, Winnick KN, Hughes EG, Huang G, Zanazzi G. Identification of Novel Genomic Alterations in Pineal Parenchymal Tumors. *J Molec Diagn* 2020; (22)11:S72 (ST46).

Barth BM, Wang W, Toran PT, Fox TE, Annageldiyev C, **Ondrasik RM**, Keasey NR, Brown TJ, Devine VG, Sullivan EC, Cote AL, Papakotsi V, Tan SF, Shanmugavelandy SS, Deering TG, Needle DB, Stern ST, Zhu J, Liao J, Viny AD, Feith DJ, Levine RL, Wang HG, Loughran TP Jr, Sharma A, Kester M, Claxton DF. Sphingolipid metabolism determines the therapeutic efficacy of nanoliposomal ceramide in acute myeloid leukemia. *Blood Adv*. 2019 Sep 10;3(17):2598-2603. doi: 10.1182/bloodadvances.2018021295.

Patel H, **Ondrasik R**, Galbreath T, Lopez A, Walker S, Chau W, Woodley J, Lepera M, Metellus D, Pham H, Chen Q, Barsotti R, Young LH. Mitochondrial-Targeted Antioxidants Given at Reperfusion Protect Cardiac and Hindlimb Muscles against Ischemia/Reperfusion Injury. *J Cardiobiol*. 2019;6(1): 8.

McGill C, Tomco P, **Ondrasik R**, Belknap K, Dwyer G, Quinlan D, Kircher T, Andam C, Brown T, Claxton D, Barth B. Therapeutic effect of Northern Labrador tea extracts for acute myeloid leukemia. *Phytotherapy Research*. 2018;32(8): 1636-1641.

Chen Q, Parker WC, Devine I, **Ondrasik R**, Habtamu T, Bartol KD, Casey B, Patel H, Chau W, Kuhn T, Barsotti R, Young LH. Apocynin Exerts Dose-Dependent Cardioprotective Effects by Attenuating Reactive Oxygen Species in Ischemia/Reperfusion. *Cardiovasc Pharm Open Access*. 2016; 5:2.

Chen Q, Devine I, Walker S, Pham H, **Ondrasik R**, Patel H, Chau W, Parker CW, Bartol KD, Riahi S, Mittal A, Barsotti R, Young L. Nox2ds-Tat, A Peptide Inhibitor of NADPH Oxidase, Exerts Cardioprotective Effects by Attenuating Reactive Oxygen Species During Ischemia/Reperfusion Injury. *American Journal of Biomedical Sciences*. 2016; 8(3): 208-227. doi: 10.5099/aj160300208.

Remarcke R, Patel S, Stutzman D, **Ondrasik R**, Devine I, Patel H, Chau W, Patel S, Peters C, Smith E, Pang C, Barsotti R, Young LD, Chen Q. The Cardioprotective Effects of a NOX1 Inhibitor, ML171, on Myocardial Ischemia/Reperfusion (I/R) injury. *The FASEB Journal*. 2015; 29(S1): 635.3.

McGill CM, Alba-Rodriguez EJ, Li S, Benson CJ, **Ondrasik RM**, Fisher LN, Claxton DF, Barth BM. Extracts of Devil's club (*Oplopanax horridus*) exert therapeutic efficacy in experimental models of acute myeloid leukemia. *Phytother Res*. 2014 Sep;28(9):1308-14. doi: 10.1002/ptr.5129.

Chau W, **Ondrasik R**, Devine I, Patel H, Lepera M, Chen Q, Barsotti R, Young L. Combinational effects of apocynin and mitoquinone in reducing myocardial ischemia/reperfusion injury. *The FASEB Journal*. 2014; 28(S): 1080.7.

Patel H, Walker S, Chau W, Devine I, **Ondrasik R**, Chen Q, Barsotti R, Young L. Combinational effects of gp91 ds-tat and SS-31 in reducing myocardial/ischemia reperfusion injury. *The FASEB Journal*. 2014; 28(S): 1080.8.

Young LD, Parker C, Barsotti R, Bartol K, Habtamu T, Tolson J, Koko D, Diaz B, Casey B, **Ondrasik R**, Chen Q. Apocynin exerts dose-dependent cardioprotective effects by attenuating reactive oxygen species (ROS) in ischemia/reperfusion (I/R). *The FASEB Journal*. 2013; 27: 1191.1.

Ondrasik R, Chen Q, Navitsky K, Chau W, Devine I, Lau OS, Galbreath T, Barsotti R, Young LH. Cardioprotective Effects of Mitochondrial-Targeted Antioxidants in Myocardial Ischemia/Reperfusion Injury. Peptides Across the Pacific: The Proceedings of the Twenty-Third American and the Sixth International Peptide Symposium. 2013; 34-35.

Devine I, Chen Q, **Ondrasik R**, Chau W, Navitsky K, Lau OS, Parker CW, Bartol KD, Casey B, Barsotti R, Young LH. Cardioprotective Effects of Cell Permeable NADPH Oxidase Inhibitors in Myocardial Ischemia/Reperfusion Injury. Peptides Across the Pacific: The Proceedings of the Twenty-Third American and the Sixth International Peptide Symposium. 2013; 42-43.

Galbreath T, Chen Q, **Ondrasik R**, Bertolet M, Barsotti R, Young L. Effects of Mitochondrial-Targeted Antioxidants on Real-time Nitric Oxide and Hydrogen Peroxide Release in Hind Limb Ischemia and Reperfusion (I/R). Peptides Across the Pacific: The Proceedings of the Twenty-Third American and the Sixth International Peptide Symposium. 2013; 46-47.

Montgomery M, Adams J, Teng J, Tekelehaymanot B, **Ondrasik R**, Devine I, Perkins KA, Chen Q, Barsotti R, Young LH. Myristoylated Protein Kinase C Epsilon Peptide Inhibitor Exerts Cardioprotective Effects in Rat and Porcine Myocardial Ischemia/Reperfusion: A Translational Research Study. Peptides Across the Pacific: The Proceedings of the Twenty-Third American and the Sixth International Peptide Symposium. 2013; 178-179.

Abstracts

DelBaugh RM, Main DL, Thomson SL, White CR, Ludwig MR, Szczepiorkowski ZM. What Happened to the Babesia Result? Mobilization Interferes with Babesia Screening Test in Autologous and Allogeneic HPC(A) Donors. Poster presentation at American Society for Apheresis (ASFA) 2024 Annual Meeting, April 2024.

DelBaugh RM, Main DL, Ludwig MR, Szczepiorkowski ZM. True or False: MCV Affects Collection Efficiency of HPC, Apheresis in Autologous Patients. Poster presentation at American Society for Apheresis (ASFA) 2024 Annual Meeting, April 2024.

DelBaugh RM, White CR, Main DL, Kaufman RM, Dunbar NM, Szczepiorkowski ZM. Rapid Response to Therapeutic Plasma Exchange in a Rare Case of Limbic Encephalitis Secondary to Immune Checkpoint Inhibitor Therapy. Poster presentation at American Society for Apheresis (ASFA) 2024 Annual Meeting, April 2024.

Toland MK, Bonasia K, Bentz J, **DelBaugh RM**, Gerjevic KA, Damiano EA. Uterine and Ovarian Histopathology in Transmasculine and Nonbinary Patients on Testosterone Compared to Cisgender Control Patients. Poster presentation at 2023 American College of Obstetricians and Gynecologists (ACOG) Annual Clinical & Scientific Meeting.

DelBaugh RM, Khan J, Szczepiorkowski ZM, Levy JJ, Dunbar NM. Passive order auditing associated with reductions in red blood cell utilization: National blood shortage experience. Poster presentation at Association for the Advancement of Blood and Biotherapies (AABB) 2022, November 2022.

Toland MK, Bonasia K, Bentz J, **DelBaugh RM**, Vitale EJ, Scudder PN, Damiano EA. Uterine and Ovarian Histopathological Findings Following Administration of Exogenous Testosterone for Gender Affirmation: A Systematic Review. Oral presentation at World Professional Association for Transgender Health (WPATH) 2022, September 2022.

Ondrasik RM, Creed CI, Anderson SR, Green DC, Houde BE, Godwin KN, Vaickus LJ, Lefferts JA, Khan WA, Tsongalis GJ. Validation of a rapid PCR-based assay for BRAF V600 status for prognostication and therapeutic selection in colorectal cancer patients. *J Molec Diagn* 2021;23, 1620 (ST24). Poster presentation at Association for Molecular Pathology (AMP) Annual Meeting, Virtual, November 2021.

Ondrasik RM, Creed CI, Anderson SR, Green DC, Houde BE, Godwin KN, Vaickus LJ, Lefferts JA, Khan WA, Tsongalis GJ. Validation of a rapid PCR-based assay for BRAF V600 status for prognostication and therapeutic selection in colorectal cancer patients. Poster presentation at Norris Cotton Cancer Center (NCCC) Scientific Retreat Poster Contest, Dartmouth-Hitchcock Medical Center, Lebanon, NH, November 2021.

Ondrasik RM, Cook LJ, Siegel CA, Tsongalis GJ, Khan WA. Validation of a rapid HLA-DQA1*05 pharmacogenomics assay to identify at-risk resistance to anti-TNF therapy in inflammatory bowel disease (IBD) patients. *J Molec Diagn* 2021;23, 1572 (G17). Poster presentation at Association for Molecular Pathology (AMP) Annual Meeting, Virtual, November 2021.

Ondrasik RM, Deharvengt S, Green DC, Winnick KN, Hughes EG, Huang G, Zanazzi G. Identification of Novel Genomic Alterations in Pineal Parenchymal

Tumors (#ST46). *J Molec Diagn* 2020; (22)11:S72 (ST46). Poster presentation at Association for Molecular Pathology (AMP) Annual Meeting, Virtual, November 2020.

Ondrasik R, O'Hern K, Chambers M, Jackson C, Hughes E, Lefferts J, Tsongalis G, Sriharan A. Artificial Intelligence and Novel Molecular Diagnostics in the Prognostication of Advanced Melanoma (#314). Poster presentation at American Society of Dermatopathology (ASDP) Annual Meeting, Virtual, November 2020.

Ondrasik R, Gvozdjan K. Isolated Central Nervous System Relapse of Acute Myeloid Leukemia in a Patient with Worsening Chronic Graft-Versus-Host Disease (#151). Poster presentation at College of American Pathologists (CAP) Annual Meeting, Orlando, FL, September 2019.

Brozena S, Deimler H, Ficca M, Fladmark O, **Ondrasik R**, Ralchenko A, Shamburg S, Slampak-Cindric A. Evaluation of the Interprofessional Collaboration, Team Building, and Quality Improvement Course. Poster presentation at Geisinger Medical Center Resident and Fellow Scholarship Days, Danville, PA, May 2018.

Ondrasik R, Chen Q, Navitsky K, Chau W, Devine I, Lau OS, Galbreath T, Barsotti R, Young LH. Cardioprotective Effects of Mitochondrial-Targeted Antioxidants in Myocardial Ischemia/Reperfusion Injury. Poster presentation at American Peptide Society (APS) Annual International Peptide Symposium. 2013.

Devine I, Chen Q, **Ondrasik R**, Chau W, Navitsky K, Lau OS, Parker CW, Bartol KD, Casey B, Barsotti R, Young LH. Cardioprotective Effects of Cell Permeable NADPH Oxidase Inhibitors in Myocardial Ischemia/Reperfusion Injury. Poster presentation at American Peptide Society (APS) Annual International Peptide Symposium. 2013.

Galbreath T, Chen Q, **Ondrasik R**, Bertolet M, Barsotti R, Young L. Effects of Mitochondrial-Targeted Antioxidants on Real-time Nitric Oxide and Hydrogen Peroxide Release in Hind Limb Ischemia and Reperfusion (I/R). Poster presentation at American Peptide Society (APS) Annual International Peptide Symposium. 2013.

Montgomery M, Adams J, Teng J, Tekelehaymanot B, **Ondrasik R**, Devine I, Perkins KA, Chen Q, Barsotti R, Young LH. Myristoylated Protein Kinase C Epsilon Peptide Inhibitor Exerts Cardioprotective Effects in Rat and Porcine Myocardial Ischemia/Reperfusion: A Translational Research Study. Poster presentation at American Peptide Society (APS) Annual International Peptide Symposium. 2013.