

Marc D. Smith, M.D.

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Oakland University William Beaumont School of Medicine

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ADDRESS

Corewell Health William Beaumont University Hospital (East)
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3811 West Thirteen Mile Road
Royal Oak, MI 48073

EDUCATION AND TRAINING

7/2002 – 6/2003	Fellow, Hematopathology Beaumont Health Royal Oak, Royal Oak, MI
7/2000 – 6/2001	Chief Resident, Clinical Pathology The Cleveland Clinic Foundation, Cleveland, OH
7/1997 – 6/2002	Residency, Anatomic and Clinical Pathology The Cleveland Clinic Foundation, Cleveland, OH
7/1993 – 6/1997	Doctor of Medicine, M.D. University of Michigan Medical School, Ann Arbor, MI
9/1989 – 5/1993	Bachelor of Science, B.S., Cellular and Molecular Biology University of Michigan College of Literature, Science and the Arts, Ann Arbor, MI

PROFESSIONAL MEMBERSHIPS

College of American Pathologists (CAP)
American Society of Clinical Pathologists (ASCP)
American Society of Hematology (ASH)
United States and Canadian Academy of Pathology (USCAP)
Michigan Society of Pathologists (MSP)

PROFESSIONAL, ACADEMIC, ADMINISTRATIVE, AND CLINICAL POSITIONS**Academic Positions**

2010 – present	Faculty, Associate Professor Oakland University William Beaumont School of Medicine, Rochester, MI
2003 – present	Faculty, School of Medical Technology Corewell Health William Beaumont University Hospital, Royal Oak, MI

2003 – present	Faculty, Anatomic Pathology / Clinical Pathology, Pathology Residency Corewell Health William Beaumont University Hospital, Royal Oak, MI
2003 – present	Faculty, Hematopathology Fellowship Corewell Health William Beaumont University Hospital, Royal Oak, MI
2013 – present	Career Advisor Oakland University William Beaumont School of Medicine, Rochester, MI
2013 – present	Competency Committee, Hematopathology Fellowship
2003 – 2008	Resident Education Coordinator for Clinical Pathology
1994 – 1995	President of University of Michigan Chapter Student National Medical Association
1994	Teaching Assistant, Introduction to Gross Anatomy and Histology University of Michigan Medical School Pre-Matriculation Program (PreMat), Ann Arbor, MI, Summer

Administrative Positions

1/2018 – Present	System Medical Director, Coagulation Corewell Health William Beaumont University Hospital, Royal Oak, MI
1/2008 – 12/2017	Director, Coagulation Laboratory Corewell Health William Beaumont University Hospital, Royal Oak, MI
7/2011 – Present	Associate Professor of Pathology Oakland University William Beaumont School of Medicine, Rochester, MI

Clinical Positions

7/2003 – Present	Clinical Pathologist / Hematopathologist Corewell Health William Beaumont University Hospital, Royal Oak, MI
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COMMITTEES

National Committees

2009 – 2014	CAP Coagulation Resource Committee
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Hospital Committees

2007 – 2008	Pharmacy and Therapeutics Committee
2008 – present	Anticoagulation Subcommittee of the Corporate Medication Management Committee

BASIC RESEARCH EXPERIENCE

Summer of 1993	Research Assistant, Webb-Waring Lung Institute, Denver, CO Investigated the effects of mitogen and cytokine stimulation of helper T-cells in animal models by Fluorescent Antibody Cell Sorting.
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Summer of 1992 Investigated the production of superoxide dismutase on yeast, aerobic and anaerobic bacteria grown under hyperbaric hyperoxia.

SPEAKING ENGAGEMENTS

Invited speaker on Coagulation Consultative Reports. College of American Pathologists Annual Meeting: Chicago, IL Sept 9th 2014.

Invited speaker on Coagulation Consultative Reports. College of American Pathologists Annual Meeting: Orlando, FL Oct 16th 2013.

Invited speaker on hemostasis at multiple Michigan Society for Clinical Laboratory Science (MSCLS) state conventions: Kalamazoo, MI, April 2nd, 2008; Troy, MI, April 16th, 2009.

Invited speaker on hemostasis at multiple Dade Behring/Siemens Educational Symposia: Ann Arbor, MI, Oct 9th, 2007; Dublin, OH, Sept 24th, 2008; Ann Arbor, MI, Oct 22nd, 2008.

PUBLICATIONS

Abstracts

Prognostic Impact of Bone Marrow Erythropoiesis on Newly Diagnosed Plasma Cell Myeloma: A Single Institutional Analyses. Daniel E Ezekwudo, Rohit Singh, Bolanle Gbadamosi, Mark Micale, Ishmael Jaiyesimi and **Marc Smith**. Blood 2018 132:5579; doi: <https://doi.org/10.1182/blood-2018-99-116619>. American Society of Hematology Annual Meeting, December 2018.

Thapar K, Patel N, Gbadamosi B, Ezekwudo D, Jaiyesimi I, **Smith MD**. Do current antiphospholipid antibody syndrome guidelines effectively target at-risk obstetric patients? American Society of Hematology Annual Meeting, December 2018.

Gupta A, **Smith MD**, Huang J. Identification of aggressive variants of mantle cell lymphoma based on flow cytometry. United States and Canadian Academy of Pathology Annual Meeting, March 2018.

Thapar K, Karabon P, **Smith MD**. Utility and application of laboratory consultation for antiphospholipid antibody: The William Beaumont Hospital experience. International society of Laboratory Hematology Annual Meeting, May 2017.

Singh RI, Gabbard A, Micale M, Huang J, **Smith MD**. Concurrent bone marrow involvement by plasma cell myeloma and mantle cell lymphoma: a rare finding. College of American Pathologists Annual Meeting, September 2016.

Gabbard A, Singh R, Tousehan M, Boyanton B, **Smith MD**, Huang J. Biclinal splenic marginal zone lymphoma, T-cell rich variant. College of American Pathologists Annual Meeting, September 2016.

Singh R, Chen C, Huang J, **Smith MD**. Plasma cell myeloma: Impact of bone marrow erythropoiesis on prognostic markers. College of American Pathologists Annual Meeting, September 2016.

Yingchun W, **Smith MD**, Huang J. Immunophenotypic features and quantitative variations of cellular fragments in diffuse large B-cell lymphomas analyzed by flow cytometry. College of American Pathologists Annual Meeting, October 2013.

Baqai J, Huang J, **Smith MD**. Bcl-2 Maturation Pattern in T-Cells Distinguishes Thymic Neoplasm/Hyperplasia, T-Lymphoblastic Lymphoma and Reactive Lymph Nodes. United States and

Canadian Academy of Pathology Annual Meeting, March 2013.

Michelle Huang, Farzenah Sayedian, Aaron Cotrell, Thomas Fennell, Alaa Muslimani, Xia Chen, **Marc Smith**, James Huang. Flow cytometric analysis of lymphoma cell size of diffuse large B-cell lymphoma. Clinical Cytometry Annual Meeting, October, 2011.

Torabi A, Douglas-Nikitin V, Huang JZ, **Smith MD**. Azacitidine Treatment of MDS/AML: Effect on Immunophenotyping by Flow Cytometry and Associated Cytogenetic Findings. United States and Canadian Academy of Pathology Annual Meeting, March 2011.

Farzenah Sayedian, Alireza Torabi, **Marc Smith**, Ann Marie Blenc, Xia Chen, Ming Xie, Vonda Douglas-Nikitin, James Huang. Grading follicular lymphoma using flow cytometry. Clinical Cytometry Annual Meeting, October, 2010.

Punia J, Fennell T, Huang J, Douglas-Nikitin V, **Smith MD**. Identification of megakaryocytes by flow cytometry; immunophenotypic expression in reactive states and hematopoietic malignancies. United States and Canadian Academy of Pathology Annual Meeting, March 2010.

Sayedian F, Douglas-Nikitin V, **Smith M**, Blenc AM, Fan G, Huang JZ. Abnormalities of immunoglobulin light chain protein expression in mature B-cell leukemia/lymphomas. United States and Canadian Academy of Pathology Annual Meeting, March 2010.

Malysz J, Blenc AM, **Smith MD**, Tang, B, Wong OC, Zekman RP, Ravipati A, Jaiyesimi I, Douglas-Nikitin VK. Correlation of Pathologic Grading, KI-67 Expression and Fluorine-18 2-Fluoro-2-Deoxy-D-Glucose Positron Emission Tomography Results with Bone Marrow and Splenic Involvement in Patients with Follicular Lymphoma. College of American Pathologists Annual Meeting, September 2008.

Bosler DS, Douglas-Nikitin VK, **Smith MD**. Detection of CD4, CD25, and CD152: A new role for flow cytometry in the diagnosis of Hodgkin lymphoma? United States and Canadian Academy of Pathology Annual Meeting, 2006.

Xie X, Sundram U, Kohler S, Lossos I, Natkunam Y, Cook JR, Swerdlow SH, Guitart J, **Smith MD**, Bosler D, Listinsky C, Hammel J, Hsi, ED. Bcl-6 negativity, female gender, and morphologic type predict poor overall survival in primary cutaneous large B-cell lymphomas with a diffuse architecture. United States and Canadian Academy of Pathology Annual Meeting, 2006.

Lili Geng, M.D., Vonda Douglas-Nikitin, M.D., Xinling Meng, Joan Mattson, M.D., **Marc D. Smith, M.D.**, Domnita Crisan, Ph.D., M.D., The LPL/ADAM 29 expression ratio and ZAP-70 as prognostic factors in chronic lymphocytic leukemia (CLL). Resident Research Forum, William Beaumont Hospital, 2006.

Smith MD and Singleton TP. Circulating B-cells that lack surface immunoglobulin light chain usually represent lymphoma/leukemia. United States and Canadian Academy of Pathology Annual Meeting, 2004.

Smith MD, Olmstead L, Petras RE. Intra-abdominal Veno-occlusive Disease: A Clinicopathologic and Immunohistochemical Study of Five Cases. Fall Meeting of the American Society of Clinical Pathologists and College of American Pathologists, 2001.

Smith MD, Ramalingam P, Abrahams NA, Farver CF, Hsi ED. Post-transplant Lymphoproliferative Disorder in Lung Transplant Recipients: The Cleveland Clinic Experience. United States and Canadian Academy of Pathology Annual Meeting, 2001.

Smith MD, Gutierrez Y, Procop GW. Distinguishing Morphologic Features of *Tunga penetrans*. United States and Canadian Academy of Pathology Annual Meeting, 2001.

Alkotob LM, Gurm H, **Smith MD**, Sobecks R. Macroglossia – an Unusual Presentation of a Disseminated

Fungal Infection. American College of Physicians/American Society of Internal Medicine, Regional Ohio Chapter, 2000.

Smith MD, Kichuk MR, Ratliff NB. Clinical and Pathologic Study of Two Female Siblings with Arrhythmogenic Right Ventricular Dysplasia. United States and Canadian Academy of Pathology Annual Meeting, 1999.

Gupta A, Gabbard A, **Smith MD**, Micale M, Boyanton BL, Huang J. Biclonal splenic marginal zone lymphoma with T-cell rich background and aggressive transformation to large cell lymphoma. J. Hematopathology 2019; 12(2):91-98.

Rezvani S, Tominna M, Al-Katib S, **Smith M**, Cousineau C, Al-Katib A. Lymphoid granulomatosis in a patient with chronic lymphocytic leukemia and rapidly progressing peribronchovascular pulmonary infiltrates. Case Reports in Pulmonology 2019; Article ID 9870494, 5 pages. <https://doi.org/10.1155/2019/9870494>.

Ward N, Baqai J, Zehnpfennig A, Fine N, Huang J, **Smith MD**. Bcl-2 Maturation Pattern in T-cells Distinguishes Thymic Neoplasm/Hyperplasia, T-Lymphoblastic Lymphoma and Reactive Lymph Nodes. Clinical Cytometry Part B 2018; 94(3):444-450.

Bostic G, Thompson R, Atanasoski S, Canlas C, Ye H, Kolins M, **Smith MD**. Quality improvement in the coagulation laboratory: reducing the number of insufficient blood draw specimens for coagulation testing. Lab Med 2015; 46:347-355.

Smythe MA, Forsyth LL, Warkentin TE, **Smith MD**, Sheppard JI, Shannon F. Progressive, fatal thrombosis associated with heparin-induced thrombocytopenia following cardiac surgery despite “therapeutic” anticoagulation with argatroban: potential role for PTT and ACT confounding. J Cardiothoracic and Vasc Anes 2015; 29(5):1319- 21.

Cotrell A, Sayedian F, Huang M, Chen X, Xie M, **Smith MD**, Huang J. Flow cytometric analysis of cell size in B-cell non-Hodgkin lymphoma: reliability and potential diagnostic significance. International Journal of Pathology and Clinical Research 2015; 1:1-6.

Cunningham MT, Olson JD, Chandler WL, Van Cott EM, Eby CS, Teruya J, Hollensead SC, Adcock DM, Allison PM, Kottke-Marchant KK, **Smith MD**. External Quality Assurance of Fibrinogen Assays using Normal Plasma: Results of the 2008 College of American Pathologists Proficiency Testing Program in Coagulation. Archives of Pathology and Laboratory Medicine 2012; 136:789-95.

Moser K, **Smith MD**. Diagnosis of heparin induced thrombocytopenia. Newspath (cap.org/newspath) 2012.

Cunningham MT, Olson JD, Chandler WL, Van Cott EM, Eby CS, Teruya J, Hollensead SC, Adcock DM, Allison PM, Kottke-Marchant KK, **Smith MD**. External quality assurance of antithrombin, protein C, and protein S assays: results of the college of American pathologists' proficiency testing program in thrombophilia. Archives of Pathology and Laboratory Medicine 2011; 227-32.

Harris VN, Malysz J, **Smith MD**. Green neutrophilic inclusions in liver disease. Journal of Clinical Pathology 2009; 62:853-854.

Bosler DS, Douglas-Nikitin VK, Harris VN, **Smith MD**. Detection of T-regulatory cells has a potential role in the diagnosis of classical Hodgkin lymphoma. Clinical Cytometry Part B 2008; 74B(4):227-235.

Xie X, Sundram U, Natkunam Y, Kohler S, Hoppe RT, Kim YH, Cook JR, Hammel J, Swerdlow SH, Guitart J, **Smith MD**, Bosler D, Listinsky C, Lossos IS and Hsi ED. Expression of HGAL in primary cutaneous large B-cell lymphomas: evidence for germinal center derivation of primary cutaneous follicular lymphoma. Modern Pathology 2008; 21:653-9.

Smith MD, Singleton T, Balaraman S, Jaiyesimi I, O'Malley B, Al-Saadi A, Mattson J. Case Report: Mantle Cell Lymphoma, Prolymphocytoid Variant, with Leukostasis Syndrome. *Modern Pathology* 2004; 17:879-883.

Ramalingam P, Rybicki, **Smith MD**, Abrahams NA, Tubbs RR, Pettay J, Farver CF, Hsi ED. Post-transplant Lymphoproliferative Disorders in Lung Transplant Patients: The Cleveland Clinic Experience. *Modern Pathology* 2002; 15(6):647-56.

Smith MD, Procop GW. Typical Histologic Features of Tunga *penetrans* in Skin Biopsies. *Archives of Pathology and Laboratory Medicine* 2002; 126(6):714-716.

Chemaly RF, Fox SB, Alkotob LM, Scharpf J, Sobecks R, Eliachar I, Procop GW, **Smith MD**, Avery RK and Scmitt SK. A case of Zygomycosis and Invasive Candidiasis Involving the Epiglottis and Tongue in an Immunocompromised Patient. *Scandinavian Journal of Infectious Diseases* 2001; 34(2):149-150.

Smith MD, Miller ML, Pohlman B. Lymphoblastic Lymphoma with Eosinophilia and Myeloproliferative Disease Associated with t(8;13). *ASCP Check Sample (Hematopathology)* 2000; 6(2):13-18.

Smith MD, Kichuk MR, Ratliff NB. Clinical and Pathologic Study of Two Siblings with Arrhythmogenic Right Ventricular Cardiomyopathy. *Cardiovascular Pathology* 1999; 8(5):273-278.

BOOK CHAPTERS

Marc D. Smith and Wayne L. Chandler. "Fibrinolysis System Physiology." An algorithmic approach to hemostasis testing. 2nd ed. Kandice Kottke-Marchant. Illinois: College of American Pathologists, 2016. 33-42.

Marc T. Cunningham and **Marc D. Smith**. "Prolonged Prothrombin Time." An algorithmic approach to hemostasis testing. 2nd ed. Kandice Kottke-Marchant. Illinois: College of American Pathologists, 2016. 173-194.

Marc D. Smith and Karen A. Moser. "Heparin induced thrombocytopenia." An algorithmic approach to hemostasis testing. 2nd ed. Kandice Kottke-Marchant. Illinois: College of American Pathologists, 2016. 317-326.

Kandice Kottke-Marchant and **Marc D. Smith**. "The value of consultation in hemostasis testing." An algorithmic approach to hemostasis testing. 2nd ed. Kandice Kottke-Marchant. Illinois: College of American Pathologists, 2016. 357-372.

OTHER ACADEMIC ACTIVITIES

Journals as Article Reviewer

- Blood
- Clinical Cytometry, Part B
- Journal of Clinical Ligand Assay
- International Journal of Laboratory Hematology

Meetings as Abstract Reviewer

- International Society of Laboratory Hematology 2016 Annual Meeting