

W. Burack

10/4/21



W. Richard Burack, M.D., Ph.D.

Professor

University of Rochester Medical Center | School of Medicine and Dentistry | 601 Elmwood Ave, Box 626 | Rochester, NY 14642

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EDUCATION

MD Medicine | Univ of Virginia Sch Medicine | 1995

PhD Molecular Biophysics | Univ of Virginia Sch Medicine | 1994

BS Biochemistry | McGill University | 1986

POST-DOCTORAL TRAINING AND RESIDENCY

Post-Doctoral Fellow--PI: A. Shaw--T cell signal transduction | July 1999 - July 2004

Fellow, Hematopathology, Barnes-Jewish Hospital, St. Louis | 1998 - 1999

Post-doctoral Fellow--PI T.W. Strugill--Enzymology of MAPK/ERK | July 1995 - June 1998

Resident, Clinical Pathology, University of Virginia Hospital | 1995 - 1998

CERTIFICATIONS

BOARD

New York State Department of Health, Certificate of Qualification: Laboratory Director in Cellular Immunology, Clinical Chemistry, Hematology, Oncology. | 01/04/2020 - 01/04/2022

American Board of Pathology, Hematopathology | 2000

American Board of Pathology, Clinical Pathology | 1998

LICENSURE

New York State Education Department, Registration Certificate: Physician. | Present

FACULTY APPOINTMENTS

Professor | Pathology and Laboratory Medicine | SMD | 2017 - Present

Associate Professor | Pathology and Laboratory Medicine | SMD | 2007 - 2017

Interim Associate Professor | Pathology and Laboratory Medicine | SMD | 2007 - 2007

Vice Chair for Clinical Operations | Pathology and Laboratory Medicine | SMD | 2016 - Present

Director, Hematopathology Unit | Pathology and Laboratory Medicine | SMD | 2007 - 2021

Professor | Cancer Center | 2017 - Present

Associate Professor | Cancer Center | 2007 - 2017

APPOINTMENTS

ACADEMIC - EXTERNAL

Assistant Professor of Pathology and Immunology, Acting Director of Hematopathology Division, Director of Hematopathology Fellowship Program, Medical Director - Flow Cytometry Laboratory | Washington University School of Medicine, St. Louis, MO | 2003 - 2007

Instructor in Pathology | Washington University School of Medicine St. Louis, MO | 1999 - 2003

ACADEMIC - INTERNAL

Professor | 07/01/2017 - Present

Associate Professor of Pathology and Laboratory Medicine | 07/01/2007

Director, Hematopathology Fellowship Program | 2007 - 2019

HOSPITAL

Vice Chair of Clinical Operations, Dept. of Pathology and Laboratory Medicine | 11/01/2016 - Present

Director, Molecular Genetic Pathology Unit | 06/01/2013 - 10/01/2019

Director, Clinical Protein Electrophoresis Laboratory | 07/01/2012 - 07/01/2014

Director, Flow Cytometry Laboratory | July 2007 - October 2019

MEMBERSHIPS

PROFESSIONAL

American Society for Hematology.

Society for Hematopathology.

United States/Canada Association of Pathologists.

LECTURESHIPS

LOCAL

"EBV-lymphoproliferative disorders---is it ever just one disease?" UHS Regional Hematopathology Meeting, Syracuse NY | 05/21/2016

Intraclonal Diversity in Follicular Lymphoma. 8th Annual Symposium on Hematopathology. Skaneateles, NY | 05/20/2014

Grand Rounds, Department of Pathology and Laboratory Medicine, University of Rochester | 05/05/2014

AML with gene mutations. 8th Annual Symposium on Hematopathology. Binghamton, NY | 05/20/2013

CTSI Seminar Series; "The Translational Potential of "-omics" Research". Presentation entitled: "Quantifying intraclonal heterogeneity in follicular lymphoma." Audience--URMC community. Promoted collaborative research efforts at the University. | 10/02/2012

Pathogenesis, Clinical Behavior and Diagnosis of Angioimmunoblastic T-Cell Lymphoma and Adult T-cell Leukemia/Lymphoma. 7th Annual Hematology/ Hematopathology Symposium, Binghamton NY | 05/19/2012

"Histogenesis of Diffuse Large B-Cell Lymphoma, NOS". 6th Annual Hematology/Hematopathology Symposium: Diffuse Large B-Cell Lymphoma and its Variants: What's New? Binghamton, NY | 05/14/2011

NATIONAL

Invited Lecturer to Genomic Pathology at the 22nd Annual William Beaumont Symposium in Detroit, MI. Presented, "B cell clonality testing: Biomed-2 and Beyond." | 09/26/2013

INTERNATIONAL

Cellular signal recognition and transduction. Berlin-Dahlem, Germany. | 10/13/2005 - 10/15/2005

OTHER

Moffitt Cancer Center, Tampa, FL. Grand Rounds in the Department of Pathology. "Using Immunogenetics to understand the clinical evolution of Lymphoma." | 10/18/2013

Montefiore/Einstein School of Medicine, Department of Pathology, Grand Rounds. "Evolution of Lymphoma" | 04/18/2013

University of Virginia, Grand Rounds, Department of Pathology. "Molecular Diagnostics of Non-Hodgkin Lymphomas". | April 2008

AWARDS AND HONORS

Eric A. Schenk Award for Excellence in Teaching | Pathology and Laboratory Medicine, University of Rochester School of Medicine and Dentistry | 2014

Excellence in 2nd Year Teaching | University of Rochester School of Medicine | 2010

Class of 2010 Professor of the Year | Washington Univ School of Medicine | 2007

Class of 2009 Professor of the Year | Washington Univ School of Medicine | 2006

Class of 2008 Lecturer of the Year | Washington Univ School of Medicine | 2005

Class of 2006 Distinguished Teacher Award | Washington Univ School of Medicine | 2004

CONTRIBUTIONS

PROFESSIONAL

Moderator of Proffered paper presented at USCAP Annual Meeting in Baltimore, MD. | 03/04/2013 - 03/04/2013

"Symposium on Myeloid Neoplasms in honor of Dr. John M. Bennett for June 9, 2012"; Organizer and chair | 2012

STUDENTS

POST-DOCTORAL TRAINEES AND FELLOWS

Hani Katerji, MD | Hematopathology Fellow | July 2019 - Present

Sung Eun Kim, MD | Hematopathology Fellow | Current: private practice, Buffalo NY | July 2018 - June 2019

Meenakshi Bansal, MD | Hematopathology Fellow | Current: academic practice, Rochester General Hospital | October 2017 - October 2018

Chad Hudson, MD | Hematopathology Fellow 2016-2017 | Hematopathology Research Fellow 2017-2018 | Current: private practice, Seattle WA | 07/01/2016 - 06/30/2018

Abraham Loo, MD | Hematopathology Fellow | Current: private practice, NJ | 07/01/2014 - 06/30/2015

Jaclyn Cappel, MD | Hematopathology Fellow | Current: private practice, Williamsport PA | 07/01/2013 - 06/30/2014

Kelly Garner, MD | Hematopathology Fellow | Current: private practice, Buffalo NY | 07/01/2013 - 06/30/2014

M. Kristen Subik, MD | Hematopathology Fellow | Current: academic practice, Albany Medical Center | 07/01/2012 - 06/30/2013

Steven Nguyen, MD | Hematopathology Fellow | Current: private practice, Denver CO | 07/01/2012 - 06/30/2013

Sarah Eakin, MD | Hematopathology Fellow | Current: private practice, Erie PA | 07/01/2011 - 06/30/2012

Jennifer Pryor, MD | Hematopathology Fellow | Current: private practice, Williamsport PA | 07/01/2010 - 06/30/2011

Joseph Weisensel, DO | Hematopathology Fellow | Current: private practice, New Jersey | 07/01/2009 - 06/30/2010

Mathew Dress, MD | Hematopathology Fellow | Current: private practice, Memphis TN | 07/01/2008 - 06/30/2009

Archibald Perkins, MD, PhD | Hematopathology Fellow | Current: Faculty, University of Rochester | 07/01/2007 - 07/30/2008

COURSES

TAUGHT

Pathology of Immunologic Diseases, in "Pathobiology". URM Department of Pathology Graduate Program. 4 lecture hours. | 2008 - 2014

Pathology of Hematopoietic Diseases, in "Diagnosis, Pathogenesis, and Therapeutics". URM School of Medicine Year 2 curriculum. 5 Lecture and 4 lab hours. | 2007 - Present

Pathology of Hematopoietic Diseases. Washington University School of Medicine. Second Year core course in pathology. | 2001 - 2007

PROFESSIONAL ASSIGNMENTS

SERVICE

Hematopathology Unit, Medical Director. | 07/01/2007 - Present

ADMINISTRATIVE

Dept. of Pathology and Laboratory Medicine, Vice Chair of Clinical Operations. | 11/01/2016 - Present

Molecular Genetic Pathology Unit, Medical Director. | 2013 - Present

Clinical Protein Electrophoresis Lab, Medical Director. | 2012 - 2014

Clinical Flow Cytometry Laboratory, Medical Director. | 07/01/2007 - Present

Hematopathology Fellowship Program, Director. | July 2007 - August 2016

OTHER

Hematopoietic Tissue Procurement Core Facility, Principal Investigator. This is an active biospecimen procurement program which focuses on obtaining tissue for experiments that require viable cells. In addition to providing support for a range of investigators, this resource is a cornerstone of my own research program. | 2007 - Present

Ad Hoc Reviewer: Blood, Leukemia Research, Leukemia, Human Pathology, American Journal of Clinical Pathology, BBA-Molecular Cell Research, Hematological Oncology, Oncotarget, Journal of Clinical Oncology | Present

Grant Reviewer: Cancer Research UK - Clinical Careers Committee 2016; URM Clinical Translational Science Institute KL2 program

RESEARCH GRANTS

PI: Burack, WR | Title: Leveraging Rural/Urban Diversity to Identify a Molecular Role of Pesticides in Lymphomagenesis | Sponsor: James P. Wilmot Foundation | Grant Type: non-NIH | Awarded: 11/13/2020 | Total Amount: \$50,000.00 | Direct Cost: \$50,000.00 | 12/01/2020 - 06/30/2021

PI: Burack | Title: Targeting TP53 with Radioimmunotherapy in Lymphoma | Sponsor: SWOG/Hope Foundation | Grant Type: non-NIH | Direct Cost: \$187,500.00 | 01/01/2019 - Present

PI: Burack and Mosmann | Title: Immune Function and Dysfunction in Lymphoma (2016 Pilot Program of the James P. Wilmot Cancer Institute) | Grant Type: non-NIH | Awarded: 07/01/2016 | Direct Cost: \$50,000.00 | 07/01/2016 - 06/30/2017

PI: Burack and Hashem (JAXlabs) | Title: The AID-RAD51 Axis as a Better Biomarker in Follicular Lymphoma; 5% salary/effort | Sponsor: Hope Foundation | Grant Type: non-NIH | Grant ID: SWOG ITSC Exploratory Pilot Program | Direct Cost: \$50,000.00 | 01/01/2016 - 12/31/2016

PI: Cerhan and Flowers | Investigators: Burack | Title: Lymphoma Epidemiology and Outcomes; 5% effort/salary | Grant Type: NIH | Direct Cost: \$102,097.00 | 07/01/2015 - 06/30/2020

PI: Burack | Title: Passenger Mutations Due to Activation-induced Deaminase as Biomarkers in Lymphoma; 10% effort/salary | Grant Type: NIH | NIH Grant ID: 1 R21-R21 CA198072-01-NCI | Awarded: 07/01/2015 | Direct Cost: \$139,548.00 | 07/01/2015 - 06/30/2017

PI: Burack | Title: Host-tumor interactions in FL: How tumor infiltrating T-cells modulate FL biology in vivo; 10% effort/salary | Sponsor: Lymphoma Research Foundation | Grant Type: non-NIH | Direct Cost: \$150,000.00 | 09/01/2013 - 08/31/2016

PI: Burack | Title: UR Clinical and Translational Science Institute: Quantifying Tumor Diversity to Predict and Target Cancer Progression | Grant Type: non-NIH | Direct Cost: \$67,177.00 | 07/01/2013 - 06/30/2014

PI: Bernstein, S. | Investigators: Burack | Title: UR Clinical and Translational Science Institute. Lymphoma and Its Microenvironment: A Novel Clinical Trial. | Sponsor: UR Clinical and Translational Science Institute | Grant Type: non-NIH | Direct Cost: \$50,000.00 | 07/01/2013 - 06/30/2014

PI: Burack, Walter Richard | Title: SPORE Scientific Development Project: Developing a Xeno-transplant model for non-Hodgkin Lymphomas for investigation of the tumor microenvironment and therapeutic trials | Grant Type: NIH | NIH Grant ID: P01-NCI | 07/01/2011 - 06/30/2012

PI: Burack | Title: Regional Stat Tumor Procurement to Support Studies of Lymphoma (Upstate New York Translational Research Network Pilot Project) | Grant Type: non-NIH | Direct Cost: \$50,000.00 | 07/01/2011 - 06/30/2012

PI: Fisher, RI | Title: Biospecimen Core Director: SPORE in Lymphoma | Grant Type: NIH | NIH Grant ID: 1 P50-CA130805-01A1-NCI | Direct Cost: \$256,888.00 | 09/01/2008 - 08/31/2013

PI: Friedberg, J. | Investigators: Burack | Title: Southwest Oncology Group (SWOG) | Grant Type: NIH | NIH Grant ID: 5 CA011083-NCI | Direct Cost: \$179,920.00 | 07/01/2007 - 12/31/2015

PI: Fisher, S. | Investigators: Burack | Title: A Comprehensive Investigation of Viral-induced Lymphomagenesis; 5% effort/salary (investigator) | Grant Type: NIH | NIH Grant ID: R01-CA121180-NCI | April 2006 - February 2011

PI: Burack | Title: Burroughs-Welcome Career Development Award (Declined additional years support to pursue clinically oriented career) | Grant Type: non-NIH | 2001 - 2003

COMMITTEES

DEPARTMENTAL

Cytogenetics Faculty Search Committee, Chair | 07/01/2014 - 03/01/2015

Departmental Grand Rounds Committee (chair) | 01/01/2014 - 07/30/2014

Pathology Department Steering Committee, member | *July 2013 - 12/30/2015*
Hematopathology Faculty Search Committee, Chair. | *April 2010 - March 2013*
Residency Education Committee | *July 2007 - 2015*

HOSPITAL

Wehrheim Professorship Search Committee. | *2013 - Present*
Laboratory Diagnostics Committee (Oncology) | *March 2011*
Residency Review Committees for ACGME credentialing (ad hoc member) | *2000 - Present*

NATIONAL

Southwest Oncology Group (SWOG) Membership Committee | *2010 - 2014*
National Comprehensive Cancer Network: Subcommittee for Myelodysplastic Syndromes. | *2005 - 2007*

OTHER

Nicole Pecora, MD PhD - Departmental Mentorship Committee | *2016 - Present*
Philip Meacham - PhD Dissertation Committee, University of Rochester | *2016 - Present*
URSM Medical Scientist Training Program, Admissions Committee | *2016 - Present*
Yi Ding, MD PhD - Departmental Mentorship Committee (Chair) | *2016 - Present*
Michael Wilson - PhD Dissertation Committee, University of Rochester | *2015*
Andrew Evans, MD PhD - Departmental Mentorship Committee (Chair) | *2013 - Present*
Victoria (Yan) Zhang, PhD - Departmental Mentorship Committee | *2012 - Present*

JOURNAL ARTICLES

1. Fries C; Adlowitz DG; Spence JM; Spence JP; Rock PJ; Burack WR. "Acute lymphoblastic leukemia clonal distribution between bone marrow and peripheral blood." *Pediatric blood & cancer*. 2020; Epub 2020 Apr 11.
2. Meacham PJ; Williams AM; Strawderman M; Baran AM; Archibald WJ; Wallace DS; Tschernia NP; Burack WR; Barr PM; Zent CS. "Additional B-cell malignancies in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL)." *Leukemia & lymphoma*. 2020; Epub 2020 Mar 16.
3. Norris PAA; Segel GB; Burack WR; Sachs UJ; Lissenberg-Thunnissen SN; Vidarsson G; Bayat B; Cserti-Gazdewich CM; Callum J; Lin Y; Branch D; Kapur R; Semple JW; Lazarus AH. "FcγRI and FcγRIII on splenic macrophages mediate phagocytosis of anti-glycoprotein IIb/IIIa autoantibody-opsonized platelets in immune thrombocytopenia." *Haematologica*. 2020; Epub 2020 Feb 27.
4. Hudson CA; Burack WR; Bennett JM. "Emerging utility of flow cytometry in the diagnosis of chronic myelomonocytic leukemia." *Leukemia research*. 2018;73():12-15.
5. Hudson CA; Burack WR; Leary PC; Bennett JM. "Clinical Utility of Classical and Nonclassical Monocyte Percentage in the Diagnosis of Chronic Myelomonocytic Leukemia." *American journal of clinical pathology*. 2018;150(4):293-302.
6. Burack WR; Spence JM; Spence JP; Spence SA; Rock PJ; Shenoy GN; Shultz LD; Bankert RB; Bernstein SH. "Patient-derived xenografts of low-grade B-cell lymphomas demonstrate roles of the tumor microenvironment." *Blood advances*. 2017;1(16):1263-1273.
7. Patel N; Hoffman CM; Goldman BI; Bentley K; Burack WR; Evans AG. "Green Inclusions in Neutrophils and Monocytes Are an Indicator of Acute Liver Injury and High Mortality." *Acta haematologica*. 2017;138(2):85-90.

8. Youn P; Cummings MA; Dhakal S; Burack WR; Casulo C; Barr PM; Friedberg JW; Constine LS. "Prognostic Impact of Cell of Origin in Limited-Stage Diffuse Large B-Cell Lymphoma Treated With R-CHOP With or Without Radiation Therapy." *International journal of radiation oncology, biology, physics.* 2016;96(2S):E495.
9. Evans AG; Ahmad A; Burack WR; Iqbal MA. "Combined comparative genomic hybridization and single-nucleotide polymorphism array detects cryptic chromosomal lesions in both myelodysplastic syndromes and cytopenias of undetermined significance." *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc.* 2016;29(10):1183-99.
10. Kuzin II; Kates SL; Ju Y; Zhang L; Rahimi H; Wojciechowski W; Bernstein SH; Burack R; Schwarz EM; Bottaro A. "Increased numbers of CD23(+) CD21(hi) Bin-like B cells in human reactive and rheumatoid arthritis lymph nodes." *European journal of immunology.* 2016;46(7):1752-7.
11. Aslam R; Segel GB; Burack R; Spence SA; Speck ER; Guo L; Semple JW. "Splenic lymphocyte subtypes in immune thrombocytopenia: increased presence of a subtype of B-regulatory cells." *British journal of haematology.* 2016;173(1):159-60.
12. Lindorfer MA; Cook EM; Tupitza JC; Zent CS; Burack R; de Jong RN; Beurskens FJ; Schuurman J; Parren PW; Taylor RP. "Real-time analysis of the detailed sequence of cellular events in mAb-mediated complement-dependent cytotoxicity of B-cell lines and of chronic lymphocytic leukemia B-cells." *Molecular immunology.* 2016;70():13-23.
13. Till BG; Li H; Bernstein SH; Fisher RI; Burack WR; Rimsza LM; Floyd JD; DaSilva MA; Moore DF; Pozdnyakova O; Smith SM; LeBlanc M; Friedberg JW. "Phase II trial of R-CHOP plus bortezomib induction therapy followed by bortezomib maintenance for newly diagnosed mantle cell lymphoma: SWOG S0601." *British journal of haematology.* 2016;172(2):208-18.
14. Nedelkovska H; Rosenberg AF; Hilchey SP; Hyrien O; Burack WR; Quataert SA; Baker CM; Azadniv M; Welle SL; Ansell SM; Kim M; Bernstein SH. "Follicular Lymphoma Tregs Have a Distinct Transcription Profile Impacting Their Migration and Retention in the Malignant Lymph Node." *PloS one.* 2016;11(5):e0155347.
15. Evans AG; Rothberg PG; Burack WR; Huntington SF; Porter DL; Friedberg JW; Liesveld JL. "Evolution to plasmablastic lymphoma evades CD19-directed chimeric antigen receptor T cells." *British journal of haematology.* 2015;171(2):205-209.
16. Halliley JL; Tipton CM; Liesveld J; Rosenberg AF; Darce J; Gregoret IV; Popova L; Kaminiski D; Fucile CF; Albizua I; Kyu S; Chiang KY; Bradley KT; Burack R; Slifka M; Hammarlund E; Wu H; Zhao L; Walsh EE; Falsey AR; Randall TD; Cheung WC; Sanz I; Lee FE. "Long-Lived Plasma Cells Are Contained within the CD19(-)CD38(hi)CD138(+) Subset in Human Bone Marrow." *Immunity.* 2015;43(1):132-45.
17. Pulvino M; Chen L; Oleksyn D; Li J; Compitello G; Rossi R; Spence S; Balakrishnan V; Jordan C; Poligone B; Casulo C; Burack R; Shapiro JL; Bernstein S; Friedberg JW; Deshaies RJ; Land H; Zhao J. "Inhibition of COP9-signalosome (CSN) deneddylating activity and tumor growth of diffuse large B-cell lymphomas by doxycycline." *Oncotarget.* 2015;6(17):14796-813.
18. Vajpayee N; Burack R; Wang D; Hutchison RE; Gajra A. "Immunohistochemical expression of mTOR in germinal center and nongerminal center group of diffuse large B-cell lymphoma: a clinicopathological study." *Clinical lymphoma, myeloma & leukemia.* 2015;15(3):159-63.
19. Frederiksen JK; Sharma M; Casulo C; Burack WR. "Systematic review of the effectiveness of fine-needle aspiration and/or core needle biopsy for subclassifying lymphoma." *Archives of pathology & laboratory medicine.* 2015;139(2):245-51.
20. Casulo C; Burack WR; Friedberg JW. "Transformed follicular non-Hodgkin lymphoma." *Blood.* 2015;125(1):40-7.

21. Costaldi, M.E. Lall, A. Burack, R. Zhou, Z.D. "Using Flow Cytometry for the Diagnosis of Lung Neuroendocrine Carcinoma With Samples From Endobronchial Ultrasound Fine Needle Aspiration and Pleural Fluid". *Journal of Interdisciplinary Histopathology*. 2015; 3(1): 3-8.
22. Spence JM; Spence JP; Abumoussa A; Burack WR. "Ultradeep analysis of tumor heterogeneity in regions of somatic hypermutation." *Genome medicine*. 2015;7(1):24.
23. Zent CS; Burack WR. "Mutations in chronic lymphocytic leukemia and how they affect therapy choice: focus on NOTCH1, SF3B1, and TP53." *Hematology*. 2014;2014(1):119-24.
24. Spence JM; Abumoussa A; Spence JP; Burack WR. "Intraclonal diversity in follicular lymphoma analyzed by quantitative ultradeep sequencing of noncoding regions." *The Journal of immunology : official journal of the American Association of Immunologists*. 2014;193(10):4888-94.
25. Subik MK; Herr MM; Hutchison RE; Kelly J; Tyler WK; Merzianu M; Burack WR. "A highly curable lymphoma occurs preferentially in the proximal tibia of young patients." *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc.* 2014;27(11):1430-1437.
26. Friedberg JW; Unger JM; Burack WR; Gopal AK; Raju RN; Nademanee AP; Kaminski MS; Li H; Press OW; Miller TP; Fisher RI. "R-CHOP with iodine-131 tositumomab consolidation for advanced stage diffuse large B-cell lymphoma (DLBCL): SWOG S0433." *British journal of haematology*. 2014;166(3):382-9.
27. Friedberg JW; Mahadevan D; Cebula E; Persky D; Lossos I; Agarwal AB; Jung J; Burack R; Zhou X; Leonard EJ; Fingert H; Danaee H; Bernstein SH. "Phase II study of alisertib, a selective Aurora A kinase inhibitor, in relapsed and refractory aggressive B- and T-cell non-Hodgkin lymphomas." *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. 2014;32(1):44-50.
28. Brown JT; Burack WR; Becker MW; Vlad-Vonica R; Nadasdy T; Bennett JM; Mendler JH. "Extracellular crystals in plasma cell myeloma." *Leukemia research reports*. 2014;3(2):49-50.
29. Bernstein SH; Epner E; Unger JM; Leblanc M; Cebula E; Burack R; Rimsza L; Miller TP; Fisher RI. "A phase II multicenter trial of hyperCVAD MTX/Ara-C and rituximab in patients with previously untreated mantle cell lymphoma; SWOG 0213." *Annals of oncology : official journal of the European Society for Medical Oncology*. 2013;24(6):1587-93.
30. Rauh MJ; Rahman F; Good D; Silverman J; Brennan MK; Dimov N; Liesveld J; Ryan DH; Richard Burack W; Bennett JM. "Blastic plasmacytoid dendritic cell neoplasm with leukemic presentation, lacking cutaneous involvement: Case series and literature review." *Leukemia research*. 2012;36(1):81-6.
31. Yeung CC; Powers ML; Nguyen TD; Kreisel F; Frater JL; Zehnbauser BA; Burack R; Hassan A. "Relevance of IgVH gene somatic hypermutation and interphase cytogenetics in lymphomatous presentation of chronic lymphocytic leukemia/small lymphocytic lymphoma." *International journal of surgical pathology*. 2011;19(5):563-9.
32. Hilchey SP; Rosenberg AF; Hyrien O; Secor-Socha S; Cochran MR; Brady MT; Wang JC; Sanz I; Burack WR; Quataert SA; Bernstein SH. "Follicular lymphoma tumor-infiltrating T-helper (T(H)) cells have the same polyfunctional potential as normal nodal T(H) cells despite skewed differentiation." *Blood*. 2011;118(13):3591-602.
33. Spence JM; Rothberg PG; Wang N; Burack WR. "Demonstration of array-based analysis for highly multiplexed PCR assays application to detection of IGH@-BCL2 translocations in FFPE follicular lymphoma specimens." *The Journal of molecular diagnostics : JMD*. 2011;13(3):252-62.
34. Amador-Ortiz C; Chen L; Hassan A; Frater JL; Burack R; Nguyen TT; Kreisel F. "Combined core needle biopsy and fine-needle aspiration with ancillary studies correlate highly with traditional

- techniques in the diagnosis of nodal-based lymphoma." *American journal of clinical pathology*. 2011;135(4):516-24.
35. Cooper AR; Burack WR; Allerton JP. "A case of Kaposi sarcoma-associated herpesvirus/human herpesvirus 8-unrelated but Epstein-Barr virus-positive primary effusion lymphoma-like lymphoma in the setting of human immunodeficiency virus and hepatitis C virus infection." *Leukemia & lymphoma*. 2010;51(12):2303-5.
36. Ferrantino M; Eichelberger J; Burack HR; Li F; Lee FE. "A 48-year-old woman with a large mediastinal mass." *Chest*. 2010;138(5):1260-4.
37. Bennett JM; Pryor J; Laughlin TS; Rothberg PG; Burack WR. "Is the association of 'cup-like' nuclei with mutation of the NPM1 gene in acute myeloid leukemia clinically useful?" *American journal of clinical pathology*. 2010;134(4):648-52.
38. Burack WR; Laughlin TS; Friedberg JW; Spence JM; Rothberg PG. "PCR assays detect B-lymphocyte clonality in formalin-fixed, paraffin-embedded specimens of classical hodgkin lymphoma without microdissection." *American journal of clinical pathology*. 2010;134(1):104-11.
39. Hilchey SP; Kobie JJ; Cochran MR; Secor-Socha S; Wang JC; Hyrien O; Burack WR; Mosmann TR; Quataert SA; Bernstein SH. "Human follicular lymphoma CD39⁺-infiltrating T cells contribute to adenosine-mediated T cell hyporesponsiveness." *The Journal of immunology : official journal of the American Association of Immunologists*. 2009;183(10):6157-66.
40. Bernstein SH; Burack WR. "The incidence, natural history, biology, and treatment of transformed lymphomas." *Hematology*. 2009;
41. Vomastek T; Iwanicki MP; Burack WR; Tiwari D; Kumar D; Parsons JT; Weber MJ; Nandicoori VK. "Extracellular signal-regulated kinase 2 (ERK2) phosphorylation sites and docking domain on the nuclear pore complex protein Tpr cooperatively regulate ERK2-Tpr interaction." *Molecular and cellular biology*. 2008;28(22):6954-66.
42. Halldórsdóttir AM; Frühwirth M; Deutsch A; Aigelsreiter A; Beham-Schmid C; Agnarsson BA; Neumeister P; Richard Burack W. "Quantifying the role of aberrant somatic hypermutation in transformation of follicular lymphoma." *Leukemia research*. 2008;32(7):1015-21.
43. Halldórsdóttir AM; Zehnbauer BA; Burack WR. "Application of BIOMED-2 clonality assays to formalin-fixed paraffin embedded follicular lymphoma specimens: superior performance of the IGK assays compared to IGH for suboptimal specimens." *Leukemia & lymphoma*. 2007;48(7):1338-43.
44. Seo J; Chung YS; Sharma GG; Moon E; Burack WR; Pandita TK; Choi K. "Cdt1 transgenic mice develop lymphoblastic lymphoma in the absence of p53." *Oncogene*. 2005;24(55):8176-86.
45. Markiewicz MA; Carayannopoulos LN; Naidenko OV; Matsui K; Burack WR; Wise EL; Fremont DH; Allen PM; Yokoyama WM; Colonna M; Shaw AS. "Costimulation through NKG2D enhances murine CD8⁺ CTL function: similarities and differences between NKG2D and CD28 costimulation." *The Journal of immunology : official journal of the American Association of Immunologists*. 2005;175(5):2825-33.
46. Tu PH; Giannini C; Judkins AR; Schwalb JM; Burack R; O'Neill BP; Yachnis AT; Burger PC; Scheithauer BW; Perry A. "Clinicopathologic and genetic profile of intracranial marginal zone lymphoma: a primary low-grade CNS lymphoma that mimics meningioma." *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. 2005;23(24):5718-27.
47. Burack WR; Shaw AS. "Live Cell Imaging of ERK and MEK: simple binding equilibrium explains the regulated nucleocytoplasmic distribution of ERK." *The Journal of biological chemistry*. 2005;280(5):3832-7.

48. Lee KH; Dinner AR; Tu C; Campi G; Raychaudhuri S; Varma R; Sims TN; Burack WR; Wu H; Wang J; Kanagawa O; Markiewicz M; Allen PM; Dustin ML; Chakraborty AK; Shaw AS. "The immunological synapse balances T cell receptor signaling and degradation." *Science*. 2003;302(5648):1218-22.
49. Burack WR; Lee KH; Holdorf AD; Dustin ML; Shaw AS. "Cutting edge: quantitative imaging of raft accumulation in the immunological synapse." *The Journal of immunology : official journal of the American Association of Immunologists*. 2002;169(6):2837-41.
50. Hailman E; Burack WR; Shaw AS; Dustin ML; Allen PM. "Immature CD4(+)CD8(+) thymocytes form a multifocal immunological synapse with sustained tyrosine phosphorylation." *Immunity*. 2002;16(6):839-48.
51. Nguyen A; Burack WR; Stock JL; Kortum R; Chaika OV; Afkarian M; Muller WJ; Murphy KM; Morrison DK; Lewis RE; McNeish J; Shaw AS. "Kinase suppressor of Ras (KSR) is a scaffold which facilitates mitogen-activated protein kinase activation in vivo." *Molecular and cellular biology*. 2002;22(9):3035-45.
52. Holdorf AD; Lee KH; Burack WR; Allen PM; Shaw AS. "Regulation of Lck activity by CD4 and CD28 in the immunological synapse." *Nature immunology*. 2002;3(3):259-64.
53. Burack WR; Dibble AR; Biltonen RL. "The relationship between compositional phase separation and vesicle morphology: implications for the regulation of phospholipase A2 by membrane structure." *Chemistry and physics of lipids*. 1997;90(1-2):87-95.
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55. Burack WR; Sturgill TW. "The activating dual phosphorylation of MAPK by MEK is nonprocessive." *Biochemistry*. 1997;36(20):5929-33.
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