

## Scott B. Lovitch, M.D., Ph.D.

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### Current Position

Associate Pathologist, Brigham and Women's Hospital, Boston, MA  
Assistant Professor of Pathology, Harvard Medical School, Boston, MA  
Morgan-Zinsser Associate Director, Pathways Pathology Curriculum, Harvard Medical School, Boston, MA

### Faculty Academic Appointments

Affiliate Faculty Member, Massachusetts Institute of Technology, Cambridge, MA	3/2018-present
Assistant Professor of Pathology, Harvard Medical School, Boston, MA	11/2017-present
Instructor in Pathology, Harvard Medical School, Boston, MA	8/2012-10/2017

### Hospital/Clinical Appointments

Associate Pathologist, Brigham and Women's Hospital, Boston, MA	7/2014-present
Affiliated Pathologist, Dana-Farber Cancer Institute, Boston, MA	7/2014-present

### Education

Postdoctoral Research Fellowship in Immunology, Harvard Medical School, Boston, MA	7/2010-6/2014
Clinical Fellowship in Hematopathology, Brigham and Women's Hospital, Boston, MA	7/2009-6/2010
Residency in Anatomic Pathology, Brigham and Women's Hospital, Boston, MA	7/2007-6/2009
M.D./Ph.D. (Immunology), Washington University School of Medicine, St. Louis, MO	6/1999-5/2007
B.A. in Biochemical Sciences ( <i>summa cum laude</i> ), Harvard College, Cambridge, MA	9/1996-6/1999

### Certification and Licensure

Diplomate in Anatomic Pathology, American Board of Pathology	2012-present
Diplomate in Hematology (Pathology), American Board of Pathology	2012-present
Full Medical License (Active), Commonwealth of Massachusetts	2011-present

### Honors and Awards

Schlager Family Award for Early Stage Digital Health Innovation	2018
Harvard College Certificate of Distinction in Teaching	2017, 2018
Harvard College Certificate of Teaching Excellence	2017
Harvard College - Star Family Prize for Excellence in Advising Nominee	2017
Harvard Medical School - Donald O'Hara Prize for Excellence in Teaching	2016
American Society of Clinical Pathology - "40 Under 40"	2016
Gill-Simonian Distinguished Mentor Award	2016
Stowell-Orbison Research Award (USCAP; as faculty mentor for resident)	2016
Harvard Medical School Excellence in Tutoring Award	2014
Harvard Premedical Society Invited Speaker	2011
Felix J. Brown Pathologist-In-Training Award Nominee	2010, 2009
Harvard Medical School Certificate of Excellence in Tutoring	2010-2014
Institutional Research Training Award (T32)	2010-2011
Alpha Omega Alpha Medical Honor Society	2007
Washington University Center for Advanced Learning Award of Honor	2005
Washington University Distinguished Service Teaching Award	2002
John Harvard Scholarship	1997-1999
Harvard University Dean's Summer Research Award	1998
Phi Beta Kappa	1998

## Professional Memberships and Activities

Member, Association of Pathology Chairs - Undergraduate Medical Educators section	2019-present
Member, American Medical Society	2018-present
Member, Massachusetts Medical Society	2018-present
Member, American Society of Hematology	2015-present
Member, American Society for Clinical Pathology	2014-present
Member, United States and Canadian Academy of Pathology	2008-present
Member, American Association of Immunologists	2011-2015
Associate Faculty Member, Faculty of 1000	2011-2015

## Clinical Practice Activities

Attending Pathologist, Hematopathology, Dana-Farber Cancer Institute	2014-present
Attending Pathologist, Molecular Diagnostic Pathology, Brigham and Women's Hospital	2014-present
Attending Pathologist, Hematopathology, Brigham and Women's Hospital	2011-present
Attending Pathologist, Laboratory Hematology, Brigham and Women's Hospital	2011-present

## Committee Assignments and Administrative Services

Finance Committee, United States and Canadian Academy of Pathology	2019-present
Admissions Committee, Harvard Medical School	2019-present
Joint Committee on the Status of Women, Harvard Medical School	2018-present
Pathology Graduate Student Education Committee, Harvard Medical School	2016-present
Pathology Undergraduate Medical Education Committee, Brigham and Women's Hospital	2016-present
Sophomore Advisor, Leverett House, Harvard College	2015-present
Member, Harvard Medical School Career and Residency Advisor Network	2015-present
Member, Harvard Medical School Academy for Teaching and Learning	2014-present
Senior Fellow, Oliver Wendell Holmes Society, Harvard Medical School	2010-present
Non-Resident Tutor in Medicine, Leverett House, Harvard College	2010-present

## Editorial Board Appointments

Frontiers in Oncology, Guest Associate Editor	2018-present
American Journal of Clinical Pathology, Editorial Review Board Member	2014-2019

## Ad Hoc Peer Review Activities

Cancer Cytopathology, <i>ad hoc</i> reviewer	2018-present
Human Pathology, <i>ad hoc</i> reviewer	2018-present
The Oncologist, <i>ad hoc</i> reviewer	2017-present
Surgery Journal, <i>ad hoc</i> reviewer	2017-present
Journal of Intensive Care Medicine, <i>ad hoc</i> reviewer	2017-present

## Formal Teaching of Medical Students

Field Experience Faculty, Medical Education Elective, Harvard Medical School	2018-present
Course Co-Director, Foundations of Medicine, Harvard Medical School ( <i>core course in basic medical sciences for first-year medical/dental students; 13 weeks; 170 students</i> )	2015-present
Core Faculty, Homeostasis I, Harvard Medical School ( <i>core pathophysiology course for first-year medical and dental students; 9 weeks; 170 students</i> )	2015-present
Course Director, Pathology of Human Disease, Harvard Medical School ( <i>survey course in human pathology for PhD-level graduate students; 15 weeks; 30-40 students</i> )	2014-present
Discussion Section Leader, Human Physiology and Pathology, Harvard Medical School ( <i>pathophysiology course for PhD-level graduate students; 15 weeks; 30-40 students</i> )	2011-present
Laboratory Instructor, Hematology, Harvard/MIT Program in Health Sciences and Technology (HST) ( <i>three 2-hour microscope tutorials; 35 students</i> )	2011-present
Lecturer, Introduction to Histology for Graduate Students, Harvard Medical School	2015-2017
Course Co-Director, Hematology, Harvard Medical School	2015-2016
Course Co-Director, Immunology, Microbiology and Pathology, Harvard Medical School	2014-2015
Principal Instructor, Human Pathology, Harvard/MIT HST program	2011-2015
Histology Instructor, The Human Body, Harvard Medical School	2010-2014

## Formal Teaching of Residents and Fellows

Didactic Lecture, <i>Introduction to Hematopathology</i>	2018-present
Didactic Lecture, <i>Hematologic Malignancies: A Mouth-Centric View</i>	2016-present
Didactic Lecture, <i>Technical Aspects of Flow Cytometry for the Practicing Pathologist</i>	2015-present
Slide Seminar, <i>Acute Leukemias</i>	2012-present

## Formal Teaching of Peers (CME and other continuing education)

Didactic Lecture, <i>Molecular Diagnostics for Lymphomas</i> (for Molecular Diagnostics: Current Roles in Cancer Diagnosis and Patient Management course, Harvard Medical School)	2019-present
Interactive Microscopy Course, <i>Molecular Hematopathology at the Microscope: Correlating Morphology and Immunophenotype with Molecular Findings</i> (presented at United States and Canadian Academy of Pathology annual meeting)	2019-present
Didactic Lecture, <i>WHO Update: Diffuse Large B Cell Lymphoma Subtypes</i> (for Current Concepts in Hematopathology course, Harvard Medical School)	2018-present
Short Course, <i>Medical Education in Pathology: An Update on Principles and Practices</i> (presented at United States and Canadian Academy of Pathology annual meeting)	2018-present

## Grant Review Activities

Graduate Fellowship Selection Committee Member, United Negro College Fund-Merck Science Initiative (UNSI)	2014-2016
Scientific Planning Committee Member, Tykeson Fellows Conference, National Multiple Sclerosis Society	2013

## Grants and Fellowships

Schlager Family Award for Early Stage Digital Health Innovation (Brigham and Women's Hospital Digital Innovation Hub/Schlager Family Foundation) <i>Development of Virtual Teaching Sets for Digital Pathology Education</i> (total funding \$25,000) This project was the winner of the 2018 Brigham and Women's Hospital "Shark Tank" Competition. Funding will support development of a virtual slide-based digital pathology curriculum, coupled to online modules for individualized self-assessment, for use both internally and in external education efforts.	2018-2019
Gilbert Whitaker Fund for the Improvement of Teaching, University of Michigan <i>Integrating basic and diagnostic sciences using team-based pedagogy in the DDS curriculum</i> (consultant) The goal of this study is to evaluate the applicability of team-based learning methods to the teaching of oral and maxillofacial pathology. I am providing consultative services, including review of pedagogical materials for use in the proposed curriculum.	2017-2019
United States Agency for International Development <i>IMPACT-MED: Improving Access, Curriculum and Teaching in Medical Education and Emerging Diseases</i> (consultant; direct funding \$20,000) This project seeks to strengthen medical education in Vietnam, and more broadly in the developing world, through curriculum innovation and faculty development. My role is to work in collaboration with faculty at participating institutions in Vietnam to develop curriculum in pathology and hematology/oncology.	2016-2020
Harvard Medical School Academy Medical Education Fellowship <i>Incorporation of genomic pathology into the Pathways curriculum: Evaluation of learner outcomes and student and faculty perspectives</i> (total funding \$23,303)	2016-2017

## Grants and Fellowships (*continued*)

NIH Clinical and Translational Research Award (5 TL1 TR001101-04) 2012-2017  
*Harvard Clinical and Translational Science Center* (faculty)

This grant funds the Leder Program in Human Biology and Translational Medicine, a certificate program in translational research for predoctoral students at Harvard Medical School; I direct a core required course (Pathology of Human Disease).

Stanley L. Robbins Memorial Research Award (Brigham and Women's Hospital) 2015-2016  
*Ex vivo metabolic analysis in hematopoietic malignancies: A novel approach to monitoring cancer metabolism* (total funding \$10,000 as faculty mentor for resident)

National Multiple Sclerosis Society Postdoctoral Fellowship (FG-1916-A-1) 2011-2014  
*The role of PD-1 in maintenance of peripheral tolerance and control of EAE*  
Total funding \$162,481

## Peer-Reviewed Publications

1. **Lovitch SB**, Walters JJ, Gross ML, Unanue ER. APCs present A beta(k)-derived peptides that are autoantigenic to type B T cells. *J Immunol.* 2003 Apr 15;170(8):4155-60. (PMID: 12682247)
2. **Lovitch SB**, Petzold SJ, Unanue ER. Cutting edge: H-2DM is responsible for the large differences in presentation among peptides selected by I-Ak during antigen processing. *J Immunol.* 2003 Sep 1;171(5):2183-6. (PMID: 12928360)
3. Pu Z\*, **Lovitch SB\***, Bikoff EK, Unanue ER. T cells distinguish MHC-peptide complexes formed in separate vesicles and edited by H2-DM. *Immunity.* 2004 Apr;20(4):467-76. (PMID: 15084275) (\*shared primary authorship)
4. **Lovitch SB**, Pu Z, Unanue ER. Amino-terminal flanking residues determine the conformation of a peptide-class II MHC complex. *J Immunol.* 2006 Mar 1;176(5):2958-68. (PMID: 16493054)
5. **Lovitch SB**, Esparza TJ, Schweitzer G, Herzog J, Unanue ER. Activation of type B T cells after protein immunization reveals novel pathways of in vivo presentation of peptides. *J Immunol.* 2007 Jan 1;178(1):122-33. (PMID: 17182547)
6. Laurent G, German NJ, Saha AK, de Boer VC, Davies M, Koves TR, Dephoure N, Fischer F, Boanca G, Vaitheesvaran B, **Lovitch SB**, Sharpe AH, Kurland IJ, Steegborn C, Gygi SP, Muoio DM, Ruderman NB, Haigis MC. SIRT4 coordinates the balance between lipid synthesis and catabolism by repressing malonyl CoA decarboxylase. *Mol Cell.* 2013 Jun 6;50(5):686-98. (doi: 10.1016/j.molcel.2013.05.012; PMID: 23746352)
7. Sage PT, Paterson AM, **Lovitch SB**, Sharpe AH. The coinhibitory receptor CTLA-4 controls B cell responses by modulating T follicular helper, T follicular regulatory, and T regulatory cells. *Immunity.* 2014 Dec 18;41(6):1026-39. (doi: 10.1016/j.immuni.2014.12.005; PMID: 25526313)
8. Sankaran VG, Ulirsch JC, Tchaikovskii V, Ludwig LS, Wakabayashi A, Kadirvel S, Lindsley RC, Bejar R, Shi J, **Lovitch SB**, Bishop DF, Steensma DP. X-linked macrocytic dyserythropoietic anemia in females with an ALAS2 mutation. *J Clin Invest.* 2015 Apr;125(4):1665-9. (doi: 10.1172/JCI78619; PMID: 25705881)
9. Paterson AM\*, **Lovitch SB\***, Sage PT, Juneja VR, Lee Y, Trombly JD, Arancibia-Cárcamo CV, Sobel RA, Rudensky AY, Kuchroo VK, Freeman GJ, Sharpe AH. Deletion of CTLA-4 on regulatory T cells during adulthood leads to resistance to autoimmunity. *J Exp Med.* 2015 Sep 21;212(10):1603-21. (doi: 10.1084/jem.20141030; PMID: 26371185) (\*shared primary authorship)
10. Saha A, O'Connor RS, Thangavelu G, **Lovitch SB**, Dandamudi DB, Wilson CB, Vincent BG, Tkachev V, Pawlicki JM, Furlan SN, Kean LS, Aoyama K, Taylor PA, Panoskaltsis-Mortari A, Foncea R, Ranganathan P, Devine SM, Burrill JS, Guo L, Sacristan C, Snyder NW, Blair IA, Milone MC, Dustin ML, Riley JL, Bernlohr DA, Murphy WJ, Fife BT, Munn DH, Miller JS, Serody JS, Freeman GJ, Sharpe AH, Turka LA, Blazar BR. Programmed death ligand-1 expression on donor T cells drives graft-versus-host disease lethality. *J Clin Invest.* 2016 Jul 1;126(7):2642-60. (doi: 10.1172/JCI85796; PMID: 27294527).
11. Ron-Harel N, Santos D, Ghergurovich JM, Sage PT, Reddy A, **Lovitch SB**, Dephoure N, Satterstrom FK, Sheffer M, Spinelli JB, Gygi S, Rabinowitz JD, Sharpe AH, Haigis MC. Mitochondrial Biogenesis and Proteome Remodeling Promote One-Carbon Metabolism for T Cell Activation. *Cell Metab.* 2016 Jul 12;24(1):104-17. (doi: 10.1016/j.cmet.2016.06.007; PMID: 27411012)

### Peer-Reviewed Publications (*continued*)

12. Park DC, Ozkaya N, **Lovitch SB**. Acute leukaemia with a pure erythroid phenotype: under-recognized morphological and cytogenetic signatures associated universally with primary refractory disease and a dismal clinical outcome. *Histopathology* 2017 Aug;71(2):316-321. (doi: 10.1111/his.13207; PMID: 28261852)
13. Hung YP, **Lovitch SB**, Qian X. Histiocytic sarcoma: New insights into FNA cytomorphology and molecular characteristics. *Cancer Cytopathol.* 2017 Aug;125(8):604-614. (doi: 10.1002/cncy.21851; PMID: 28805986)
14. Maarouf OH, Uehara M, Kasinath V, Solhjoui Z, Banouni N, Bahmani B, Jiang L, Yilmam O, Guleria I, **Lovitch SB**, Grogan JL, Fiorina P, Sage PT, Bromberg J, McGrath MM, Abdi R. Repetitive ischemic injuries to the kidneys result in lymph node fibrosis and impaired healing. *JCI Insight* 2018 Jul; 3(13):e120546. (doi: 10.1172/jci.insight.120546; PMID: 29997302).
15. Rodig SJ, Gusenleitner D, Jackson DG, Gjini E, Giobbie-Hurder A, Jin C, Chang H, **Lovitch SB**, Horak C, Weber JS, Weirather JL, Wolchok JD, Postow MA, Pavlick AC, Chesney J, Hodi FS. MHC proteins confer differential sensitivity to CTLA-4 and PD-1 blockade in untreated metastatic melanoma. *Sci Transl Med* 2018;10:eaar3342. (doi: 10.1126/scitranslmed.aar3342; PMID: 30021886).
16. Taylor J, Haddadin M, Upadhyay VA, Grussie E, Mehta-Shah M, Brunner AM, Louissaint A, **Lovitch SB**, Dogan A, Fathi AT, Stone RM, Tallman MS, Rampal RK, Neuberg DS, Stevenson KE, Horwitz SM, and Lane AA. Multicenter Analysis of Outcomes in Blastic Plasmacytoid Dendritic Cell Neoplasm Offers a Pre-Targeted Therapy Benchmark. *Blood* 2019, in press.
17. Clement RL, Daccache J, Mohammed MT, Diallo A, Blazar BR, Kuchroo VK, Lovitch SB, Sharpe AH, and Sage PT. Tfr cells control antibody responses by regulating early B cell responses. *Nat Immunol* 2019, in press.

### Non-Peer-Reviewed Publications

1. Unanue E, Byersdorfer C, Carrero J, Levisetti M, **Lovitch S**, Pu Z, Suri A. Antigen presentation: lysozyme, autoimmune diabetes, and Listeria – what do they have in common? *Immunol Res.* 2005;32(1-3):267-92. Review. (PMID: 16106079)
2. **Lovitch SB**, Unanue ER. Conformational isomers of a peptide-class II major histocompatibility complex. *Immunol Rev.* 2005 Oct;207:293-313. Review. (PMID: 16181344)
3. Suri A, **Lovitch SB**, Unanue ER. The wide diversity and complexity of peptides bound to class II MHC molecules. *Curr Opin Immunol.* 2006 Feb;18(1):70-7. Review. (PMID: 16316750)
4. **Lovitch SB**, Rodig SJ. The Role of Surgical Pathology in Guiding Cancer Immunotherapy. *Annu Rev Pathol.* 2016 May 23;11:313-41. (doi: 10.1146/annurev-pathol-012615-044125; PMID: 27193453)

### Case Reports

1. McKee KE, Etherton MR, **Lovitch SB**, Gupta AS, Micalizzi DS, Tierney T, Wadleigh M, Vaitkevicius H. A Man in His 40s With Headache, Lethargy, and Altered Mental Status. *JAMA Neurol.* 2015 Sep;72(9):1061-5. (doi: 10.1001/jamaneurol.2015.1375; PMID: 26213984)

### Book Chapters and Monographs

1. Kim AS, Wu CJ, **Lovitch SB**. Molecular Genetic Aspects of Non-Hodgkin Lymphomas. In: Greer JP, Arber DA, Glader B, List AF, Means RT, Paraskevas F, Rodgers GM, editors. *Wintrobe's Clinical Hematology*, 14th edition. Philadelphia: Lippincott, Williams, and Wilkins, 2018.
2. **Lovitch SB**, Chan JKC. The lymph node. In: Fletcher, C.D.M., editor. *Diagnostic Histopathology of Tumors*, 5th edition. Philadelphia: Elsevier, in press.
3. **Lovitch SB**, Chan JKC. The spleen. In: Fletcher, C.D.M., editor. *Diagnostic Histopathology of Tumors*, 5th edition. Philadelphia: Elsevier, in press.
4. **Lovitch SB**. Inflammation. In: Strayer, D.S., editor. *Rubin's Pathology: Clinicopathologic Foundations of Medicine*, 8<sup>th</sup> edition. Philadelphia: Wolters Kluwer, in press.

## Educational Materials

1. Hematology Minicases (2011). Teaching cases for 2nd year medical and dental students in HMS Hematology course.
2. Histopathology Laboratory Manual (2014). Syllabus and laboratory manual for 1st year medical and dental students in HMS Immunology, Microbiology and Pathology course.
3. Pathology of Human Disease (2014). Syllabus for graduate students in HMS Pathology of Human Disease course.
4. Pathology Case-Based Collaborative Learning Modules (2015). Syllabus, online video instructional material, and flipped-classroom teaching cases for 1st year medical and dental students in HMS Foundations course.
5. Histology Case-Based Collaborative Learning Modules (2016). Syllabus, online video instructional material, and flipped-classroom teaching cases for 1st year medical and dental students in HMS Foundations course.
6. Hematology Case-Based Collaborative Learning (2016). Syllabus, online video instructional material, and flipped-classroom teaching cases for 1st year medical and dental students in HMS Homeostasis I course.
7. Pathology educational materials for Global Oncology University (2019).

## Presentations at National/International Meetings

1. **Lovitch SB**, Walters JJ, Gross ML, Unanue ER. Antigen-presenting cells present A $\beta$ k-derived peptides which are autoantigenic to type B T cells. American Association of Immunologists, Denver, CO, May 2003. *Oral presentation*.
2. **Lovitch SB**, Pu Z, Unanue ER. T cells distinguish MHC-peptide complexes formed in separate vesicles and edited by H2-DM. American Association of Immunologists, Washington, DC, April 2004. *Oral presentation*.
3. **Lovitch SB**, Pu Z, Bikoff EK, Unanue ER. T cells distinguish MHC-peptide complexes formed in separate vesicles and edited by H2-DM. 12th International Congress of Immunology, Montréal, Quebec, Canada, July 2004. *Oral presentation*.
4. **Lovitch SB**, Pu Z, Unanue ER. H2-DM edits the conformation of MHC-peptide complexes: the role of N-terminal peptide flanking residues. 4th International Workshop on Antigen Processing and Presentation, Bar Harbor, ME, September 2004. *Oral presentation*.
5. **Lovitch SB**, Pu Z, Unanue ER. N-terminal flanking residues determine the conformation of an MHC-peptide complex. American Association of Immunologists, San Diego, CA, April 2005. *Oral presentation*.
6. **Lovitch SB**, Faquin WC, Nosé V. Cribriform-morular variant of thyroid carcinoma: distinct immunohistochemical profile from other papillary thyroid carcinoma variants. United States and Canadian Academy of Pathology, Boston, MA, March 2009. *Poster*.
7. Kim SS, Stevenson KE, Yoda A, Kopp N, Louissaint A, Harris NL, Hochberg EP, Chen YB, **Lovitch SB**, DeAngelo DJ, Wadleigh M, Steensma DP, Motyckova G, Stone RM, Neuberg DS, Jardin F, Piccaluga PP, Weinstock DM, Lane AA. Loss-of-function mutations in the splicing factor ZRSR2 are common in blastic plasmacytoid dendritic cell neoplasms and have male predominance. American Society of Hematology, New Orleans, LA, November 2013. *Poster*.
8. Saha A, O'Connor RS, Thangavelu G, **Lovitch SB**, Dandamudi DB, Wilson CB, Vincent BG, Aoyama K, Taylor PA, Panoskaltsis-Mortari A, Foncea R, Burrill JS, Guo L, Sacristan C, Furlan SN, Snyder NW, Blair IA, Milone MC, Dustin ML, Riley JL, Bernlohr DA, Turka LA, Murphy WJ, Fife BT, Munn DH, Miller JS, Serody JS, Kean L, Freeman GJ, Sharpe AH, Blazar BR. Programmed death ligand-1 expression on donor T cells drives graft-versus-host disease lethality. American Society of Hematology, Orlando, FL, December 2015. *Oral presentation by Saha, A*.
9. Hung YP, **Lovitch SB**, Qian X. Clinicopathologic analysis and characterization of fine needle aspiration cytology in histiocytic sarcoma. United States and Canadian Academy of Pathology, Seattle, WA, March 2016. *Poster*.
10. Griffin GK\*, **Lovitch SB\***, Roemer MGM, Chapuy B, Kelley A, Pak C, Gjini E, Freeman GJ, Hodi FS, Ligon AH, Shipp MA, Rodig SJ. Copy number gain of PD-L1 and PD-L2 in T-cell/ Histiocyte Rich Large B-cell Lymphoma. United States and Canadian Academy of Pathology, Seattle, WA, March 2016. *Oral presentation by Griffin, GK. (\*shared primary authorship)*

### **Presentations at National/International Meetings (*continued*)**

11. Basu S, Kiebler M, Stephanopolous G, **Lovitch SB**. Ex Vivo Metabolic Analysis Using Isotopic Labeling: A Novel Platform to Assess Cancer Metabolism in Hematopoietic Malignancies. United States and Canadian Academy of Pathology, Seattle, WA, March 2016. *Poster. Winner, Stowell-Orbison Award for best poster presentation by resident/fellow; Winner, Pathologist-in-Training Award, Society for Hematopathology.*
12. Basu S, Kiebler M, Stephanopolous G, **Lovitch SB**. Ex Vivo Metabolic Analysis Using Isotopic Labeling: A Novel Platform to Assess Cancer Metabolism in Hematopoietic Malignancies. Academy of Clinical Laboratory Physicians and Scientists, Birmingham, AL, May 2016. *Oral presentation by Basu, S. Winner, Paul E. Stradjord Young Investigator Award.*
13. Rodig S, Gusenleitner D, Jackson D, Gjini E, Giobbie-Hurder A, Jin C, Chang H, **Lovitch S**, Horak C, Weber JS, Shipp MA, Hodi FS. Association of distinct baseline tissue biomarkers with response to nivolumab (NIVO) and ipilimumab (IPI) in melanoma: CheckMate 064. American Society of Clinical Oncology, Chicago, IL, June 2017. *Poster.*
14. Shanmugam V, **Lovitch SB**, Benhadji KA, Oakley GJ, Aster J. Microenvironment-Specific Activation of Notch2 in Splenic Marginal Zone Lymphoma. American Society of Hematology, Atlanta, GA, December 2017. *Poster.*
15. Shanmugam V, **Lovitch SB**, Benhadji KA, Oakley GJ, Aster J. Immunohistochemical Detection of Notch2 Activation in Splenic Marginal Zone Lymphoma Reveals Microenvironment-specific Activation and Predicts NOTCH2 mutation status. United States and Canadian Academy of Pathology, Vancouver, BC, March 2018. *Oral presentation by Shanmugam, V.*
16. Griffin GK, Roemer MGM, Lipschitz M, Weirather J, Pak CJ, Kelly A, Gusenleitner D, Gjini E, Chapuy B, Xu J, Chen B, Sohani AR, **Lovitch SB**, Fletcher C, Freeman GJ, Hodi S, Armand P, Ligon AH, Shipp MA, Rodig SJ. Integrated Genetic and Topological Analysis Reveals a Hodgkin-like Mechanism of Immune Escape in T-Cell/Histiocyte-Rich Large B-Cell Lymphoma. American Society of Hematology, San Diego, CA, December 2018. *Oral presentation by Griffin, G.K.*
17. Ouseph M, Nardi V, Steensma DP, **Lovitch SB**, Hasserjian R, Dal Cin P, Weinberg OK. Genomic alterations in patients with mosaic loss of the Y chromosome in bone marrow cells. United States and Canadian Academy of Pathology, National Harbor, MD, March 2019. *Oral presentation by Ouseph, M.*

### **Presentations at Local/Regional Meetings**

1. **Lovitch SB**. Expression of Immunoregulatory Receptors in the Immune Microenvironment of B Cell Lymphomas. Brigham and Women's Hospital Pathology Research Celebration, Boston, MA, May 2015.
2. **Lovitch SB**. Bringing Pathology Education Up to Date with Pathology Practice: Incorporating Genomic Pathology into the Pathways Curriculum at HMS. Harvard Medical School Academy Fellows Poster Session, Boston, MA, June 2017.
3. Besche H, Bernson-Leung M, Come C, Hoenig M, Jambhekar A, **Lovitch SB**, Rogers M, Shafer K, Sloane D, Cockrill B. Pathways CBCL: Teaching Faculty Peer Coaching. Harvard Medical School Academy Medical Education Day, Boston, MA, December 2018.

### **Invited Presentations**

1. Pathologist Slide Review. Massachusetts Society for Histotechnology, Quincy, MA, 2009.
2. A Hematopathologist's Perspective on Immunohistochemistry. Massachusetts Society for Histotechnology, Brookline, MA, 2010.
3. MD/PhD: Is It for Me? Harvard Premedical Society, Cambridge, MA, 2011.
4. Hemophagocytic Syndromes: The Known and the Unknown. Brigham and Women's Hospital Department of Pathology Surgical Pathology Update, Boston, MA, 2014.
5. Flow Cytometry: The Next Generation. Brigham and Women's Hospital Clinical Pathology Conference, Boston, MA, 2015.
6. Droplet digital PCR and its application to molecular diagnostic pathology. Brigham and Women's Hospital Center for Advanced Molecular Diagnostics joint conference, Boston, MA, 2015.
7. Histology, Immunohistochemistry, and Immunotherapy: New Challenges and Opportunities for a New Era of Cancer Treatment. Massachusetts Society of Histotechnology, New Bedford, MA, 2018.
8. Medical Education in Pathology: Where we are, where we're going, and why. Brigham and Women's Hospital Department of Pathology Surgical Pathology Update, Boston, MA, 2019.

### Invited Presentations (cont'd)

9. Virtual Microscopy for Digital Pathology Education. Harvard Global Health Catalyst Summit, Boston, MA, 2019.
10. Moderator, Global Radiology session. Harvard Global Health Catalyst Summit, Boston, MA, 2019.
11. Lead Faculty in Pathology (invited teaching). Global Oncology University (<https://www.ghcuniversity.org/>), 2019.

### Social Media

Doximity Physician Panel Member (Doximity, Inc.; <a href="http://www.doximity.com/">http://www.doximity.com/</a> )	2016-present
Doximity Fellow (Doximity, Inc.)	2014-2016

### Patents and Technology Transfer

Regulatory T cell PD-1 modulation for regulating T cell effector immune responses (U.S. Patent Application No. PCT/US16/57031)	2016
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### Other Clinical Innovations

Digital droplet PCR assay for detection of c-Kit D816V mutation	2016
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### Professional Community Activities

Advisor, Hope Medical Scholars Program ( <i>meet with undergraduate students from backgrounds underrepresented in medicine to advise on educational/career path</i> )	2018-present
Workshop Leader, National Youth Leadership Federation ( <i>lead pathology workshop for high school students interested in pursuing biomedical careers</i> )	2018-present
Judge, New England Science Symposium ( <i>review abstracts and judge posters at regional science fair for minority students</i> )	2015-present
Advisor, Biomedical Science Careers Program Student Conference ( <i>advisor at regional conference for minority students pursuing biomedical careers</i> )	2014-present
Executive Council Member, Washington University Medical Center Alumni Association, St. Louis, MO	2013-2014
Mentor, Student Success Jobs Program, Brigham and Women's Hospital, Boston, MA	2011-2015
Mentor, Harvard Premedical Society	2011-present
Member, Career Advising Network, Harvard Alumni Association	2009-present
Mentor, Washington University Center for Advanced Learning, St. Louis, MO	2000-2005