CURRICULUM VITAE

Name: Sankar Swaminathan, M.D. March 16, 2021

Present Position and Address:

Professor and Chief, Division of Infectious Disease,
Don Merrill Rees Presidential Endowed Chair
Department of Internal Medicine, University of Utah School of Medicine, Salt Lake City, UT 84132

Date of Birth: July 4, 1958

Place of Birth: Trivandrum, India

Citizenship: USA

Education:

1979	A.B magna cum laude, Biochemistry and Molecular Biology, Harvard College, Cambridge, Massachusetts
1982	M.S. Microbiology and Immunology, Emory University School of Medicine, Atlanta, Georgia
1984	M.D. Emory University School of Medicine, Atlanta, Georgia

Professional and Teaching Experience:

1984-1985	Intern, Internal Medicine, University of Chicago Medical Center, Chicago, IL.
1985-1987	Resident, Internal Medicine, University of Chicago Medical Center, Chicago, IL
1987-1988	Clinical Fellow, Division of Infectious Disease, Beth Israel Hospital, Brigham & Women's Hospital, Dana Farber Cancer Institute, Boston, MA.
1987-1988	Clinical Fellow in Medicine, Harvard Medical School, Boston, MA.
1988-1990	Research Fellow, Division of Infectious Disease, Beth Israel Hospital, Brigham & Women's Hospital, Dana Farber Cancer Institute, Boston, MA.
1988-1990	Research Fellow, Department of Microbiology and Molecular Genetics, Harvard Medical School, Boston, MA.
1990-1992	Instructor in Medicine, Division of Infectious Disease, Brigham & Women's Hospital, Boston, MA.

1992-1995	Assistant Professor, Division of Infectious Disease, Departments of Medicine and Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA.
1992-1995	Member, Graduate Faculty, College of Graduate Studies, Thomas Jefferson University, Philadelphia, PA.
1995-1997	Assistant Professor, Division of Infectious Diseases, Department of Internal Medicine, University of Texas Medical Branch, Galveston.
1995-2000	Scientist, Sealy Center for Oncology and Hematology, University of Texas Medical Branch, Galveston.
1996-2000	Member, Graduate Faculty, Department of Microbiology and Immunology, University of Texas Medical Branch, Galveston.
1997-2000	Associate Professor, Division of Infectious Diseases, Departments of Internal Medicine and Microbiology & Immunology, University of Texas Medical Branch, Galveston.
2000-2008	Associate Professor, Departments of Internal Medicine and Molecular Genetics and Microbiology, University of Florida, Gainesville, FL.
2008-2010	Professor, Departments of Internal Medicine and Molecular Genetics and Microbiology, University of Florida, Gainesville, FL.
2009-2010	Acting Chief, Division of Infectious Disease, Department of Internal Medicine University of Florida, Gainesville, FL.
2005-2010	Program Co-Director: Cancer Epigenetics and Tumor Virology, UF Shands Cancer Center, University of Florida, Gainesville, FL.
2010- curr.	Professor and Chief, Infectious Diseases Division, University of Utah School of Medicine, Salt Lake City, UT.
2012- curr.	Attending Physician, George E. Wahlen VA Medical Center, Salt Lake City, UT.
2013- curr.	Adjunct Professor, University of Utah, Department of Experimental Pathology.

Research Activities:

A. 1. Epstein-Barr Virus.
2. Kaposi's sarcoma-associated herpesvirus (KSHV, Human herpesvirus 8).
3. Transcriptional and post-transcriptional gene regulation in oncogenic herpesviruses.

B. 1988-1993	Physician Scientist Award K11, National Cancer Institute, National Institutes of Health.
1992-1997	FIRST Award R29, National Cancer Institute, National Institutes of Health: Role of the EBV interleukin BCRF1

in B cell infection and transformation.

1995-1998 Investigator, NIH Grant NO1-DE-52606: Passive Immunization: Treatment of Rabies Virus with Human Monoclonal Antibodies.

1997-1999 John Sealy Memorial Endowment Fund Recruitment Grant: The Role of Epstein-Barr Virus BMLF1 in Gene Regulation and Expression.

1998-2000 T32 AI07536-01, Emerging and Reemerging Infectious Diseases.

1999-2002 R21 CA82985-03 (HL), Regulation of angiogenesis by human herpesvirus 8.

2001-2006 T32 AI07110, Basic Microbiology and Infectious Diseases, Preceptor.

2006-2011 T32 CA09126 Training in Cancer Biology, Preceptor.

2009-2011 RC2 CA148407, Building a recombinant Herpesvirus core laboratory to systematically analyze the role of viral miRNAs in innate and adaptive immunity.

2006-2012 1R01CA119905, Viral and cellular gene regulation during lytic KSHV replication.

2008-2012 1R01CA119917, MicroRNAs in the KSHV life cycle, Co-investigator.

2014-2017 K08 Immune Responses to Vibrio Cholerae in Children Principal Investigator(s): Daniel T. Leung; Sankar Swaminathan

1999-2023 1R01 CA81133, Post-transcriptional gene regulation by EBV SM protein.

2014-2019 1I01BX002262, Restriction of Oncogenic Herpesviruses by Host Cell Factors (VA Merit Review), Principal Investigator.

2018-2020 CSSG P30 supplement: Epigenetic Risk Factors for Lymphoma in HIV patients

Committee Responsibilities:

A. National and International:

1997 Ad hoc member, Virology study section (VR), National Institutes of Health.

1998-2001 Fellowship & Young Investigator Grants Award Committee, Infectious Diseases Society of America.

1999 Ad hoc member, Virology study section (VR), National Institutes of Health.

1999 Member, CSR Special Emphasis Panel, ZRG1 VR(01), National Institutes of Health.

1999 Member, CSR Special Emphasis Panel, ZRG1 AARR-1 (03), National Institutes of Health.

2000 Member, AIDS study section AARR-4 01 S, National

	Institutes of Health.
	Member, CSR Special Emphasis Panel, ZRG1 AARR-1 (07), April 2000, National Institutes of Health.
	Member, CSR Special Emphasis Panel, ZRG1 AARR-1 (08), July 2000, National Institutes of Health.
	Member, CSR Special Emphasis Panel, ZRG1 AARR-1 (09) Oct 2000, National Institutes of Health.
2001-2003	Member, AIDS study section AARR-4 01 S, National Institutes of Health.
2004	Ad hoc member, VirB study section, National Institutes of Health.
	Program Project Special Emphasis Panel NCI-C RPRB (S1) (P).
2005	Member, Special Emphasis Panel, NIH AARR (A) 03.
	Member, Special Emphasis Panel, NIH, AARR-A 94.
2006	Member, Special Emphasis Panel NIH, AOIC.
2006	Reviewer, Science Foundation Ireland, Dublin, Ireland.
2006	Member, ZRG1 AARR-C 04, NIH Special Emphasis Panel.
2006	NCI Cellular and Molecular Biology P01 Cluster Review Panel BBRPD.
2007	Ad hoc member, AOIC study section, National Institutes of Health.
2007	Member, Molecular Oncology P01 Special Emphasis Panel
2008	Ad hoc member, DDR Study Section, National Institutes of Health.
2009	Member, Molecular Oncology P01 Special Emphasis Panel
	Member, ZRG1 IDM-C 58 R, RFA09-003 Challenge Grants Panel 9
	Member, 2009/10 ZRG1 IMM-E (58) R
2010	Member, Molecular Oncology P01 Special Emphasis Panel
2010-2012	CSR College of Reviewers, NIH.
2011	Member, European Commission Evaluation Panel. FP7-HEALTH-2011.2.4.1-3: Epidemiology and aetiology of infection-related cancers. Brussels, Belgium.
2011-2015	Member, National Comprehensive Cancer Network (NCCN) Prevention and Treatment of Cancer-Related Infections.
2011	ZRG1 AARR-K(02) Special Emphasis Panel
	Ad Hoc Member, VirA NIH Study section
	Member, ZAI1 LGR-I (M1) PO1 Review Panel
2012	Member ZRG1 IDM-M (02) M, NIH Special Emphasis Panel.
	Member ZAI1-LGR-I-M1, NIH PO1 Review Panel
	Member, ZCA1 RPRB-0 (O1) P, NCI PO1 Review Panel
	Ad Hoc Member, VirB NIH Study section
	Ad Hoc Member, AOIC NIH study section
	Chair, NIH Special Emphasis Panel ZRG1 AARR-K(03)
	Member, Special Emphasis Panel, NCI-I R

	Grant reviewer, Medical Research Council, United Kingdom
2012-2015	Research Committee, Infectious Diseases Society of America
2012	NIAID/IDSA ID Research Careers Meeting Program Committee
2013	Member, NCI-I NIH study section
	Member, Special Emphasis Panel II Program Project Review Panel
2013-2017	Chair, NIAID/IDSA ID Research Careers Meeting Program Committee
2014-2018	Member VirA NIH study section.
2015	Member, NIH AIDS Malignancy Consortium Review Panel, NIH.
2015	Member, NCI UNC Lineberger Comprehensive Cancer Center Site Visit Committee, Chapel Hill, NC.
2015	European Commission Evaluation Panel. PHC 14 – 2015: New therapies for rare diseases. Brussels, Belgium.
2016	Member, European Commission Evaluation Panel. SC1-PM-08-2017: New therapies for rare diseases. Brussels, Belgium.
2017	Member, NIH SEP ZCA1 RTRB-R (M2) R. RFA-CA-16-018 Collaborative Consortia for the Study of HIV-Associated Cancers: U.S. and Low- and Middle-Income Country (LMIC) Partnerships (U54).
2017	Member, NCI Cancer Center Site Visit Committee, University of Wisconsin, Madison, WI.
2018	Ad hoc member, AOIC study section, NIH, NCI.
2018	Ad hoc member AOIC study section ZRG1-AARR-K-95
2018	NIAID (P01) Review Committee (ZAI1 PTM-I J4)
2015-current	Vice-Chair, National Comprehensive Cancer Network (NCCN) Panel - Prevention and Treatment of Cancer-Related Infections.
2018-2020	Member, Antimicrobial Drugs Advisory Committee, FDA.
2019	Member, Program Project (P01) Review Panel, NIH/NCI, ZCA1 RPRB-L (M1)
2019	Member, NCI Cancer Center Site Visit Committee, University of Washington, Seattle, WA. NCI-A-RTRB-0-E1
2019	Ad hoc member, NIH ZRG1 IDM-W Topics in Virology study section
2019	NIH/NCI Special review panel. Provocative Question RFA ZCA1-SRB-1-J2.
2020	Pac-12 COVID-19 Medical Advisory Committee
2020	SEP-6: NCI Clinical and Translational R21 and Omnibus R03 Review Study Section

B. OTHER:

1993-1994 Thesis Committee for Gloria Chang, M.S. candidate in Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA.

1994-1995 Thesis Committee for John Maggioncalda, Ph.D. candidate in Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA.

1995-2000 Bone Marrow Transplant Task Force, University of Texas Medical Branch, Galveston.

1997-1998 Graduate Medical Education Subcommittee for the LCME Self Study Task Force, University of Texas Medical Branch, Galveston.

1998-2000 Student Evaluation Committee, NIAID Training Grant on Emerging and Tropical Infectious Diseases, University of Texas Medical Branch, Galveston.

1998-2000 McLaughlin Fellowship Fund Committee, University of Texas Medical Branch, Galveston, TX.

1999-2000 Biological Safety Committee, University of Texas Medical Branch, Galveston, TX.

1999-2000 Antimicrobial Advisory Subcommittee of the Pharmacy & Therapeutics Committee, University of Texas Medical Branch, Galveston, TX.

2000-2001 Joint Faculty Search Committee, Department of Pharmacology and Therapeutics and UF Shands Cancer Center.
Laboratory Utilization Review Committee, Shands Hospital at University of Florida.

2002-2006 Chair, Tumor Virology Faculty Search Committee, UF Shands Cancer Center

2000-2004 Ph. D. supervisory committee, Jerome O'Neil, Molecular Genetics and Microbiology.

2005-2008 Ph. D. supervisory committee, Rebecca Skalsky, Molecular Genetics and Microbiology.

2005-2010 Co-Chair, UF Shands ACS Institutional Research Grant Review Committee.

2005-2008 Member, Harn Museum Faculty Council.

2005-present Mentor, ASM Minority Mentoring Program.

2006 Organizing Committee, Twelfth International Symposium on EBV and Associated Diseases, Boston, U.S.A., July 8-12th, 2006.

2006 External Reviewer, Viral Oncology Program of the University of Maryland Greenbaum Cancer Center.

2006-2009 Faculty Council, Department of Medicine representative.

2007-2010	Member, University of Florida Performing Arts Advisory Committee for Policy and Operations.
2007-2009	Member, Senate Nominating Committee.
2009-2010	Member, University of Florida Cultural Plaza Advisory Committee
2011	Grant Reviewer for Landsteiner Foundation for Blood Transfusion Research, Netherlands
2012	Member, University of Utah School of Medicine, Surgery Chairman Search Committee
2012-2014	Mission Based Management Advisory Committee, University of Utah
2014- 2018	Pharmacy and Therapeutics Committee, University of Utah Health Plans

Teaching Responsibilities:

Courses Directed

2000 - 2010	Co-Director, GMS 6181 Virology Seminar, University of Florida, Gainesville, FL
2011- curr.	Director, INTMD 7650 - Infectious Disease Clinical Clerkship Director, INTMD 7880 - Research Problems in Infectious Disease

Course Lectures

1997 - 2000	Instructor, University of Texas Medical Branch. Infectious Diseases Core Curriculum, Galveston, TX.
1997 - 2000	Instructor, Epstein Barr Virus, University of Texas Medical Branch, Microbiology & Immunology. Graduate Virology Course, Galveston, TX.
1997 - 2000	Instructor, University of Texas Medical Branch. Infections in patients with impaired immune response, JMS Lecture series, Galveston, TX
2000 - 2010	Instructor, GMS 6181, University of Florida. Virology Seminar
2000 - 2010	Instructor, BMS 5300, University of Florida. Medical Microbiology & Infectious Diseases-Herpesviruses
2000 - 2010	Instructor, Controversies in Microbiology, University of Florida
2000 - 2005	Instructor, GMS 6001, University of Florida. IDP Fundamentals, X.pigmentosum, Ataxia-Telangiectasia
2001 - 2010	Instructor, University of Florida. Clinical Microbiology Conferences (CMC's)
2002 - 2010	Instructor, GMS6035, University of Florida. Cancer Biology, Viral Oncogenesis

2005 - 2010	Instructor, GMS 6036, University of Florida. Advanced Virology III.
2007 - 2010	Instructor, GMS 6001: DNA Replication, University of Florida. IDP Core Course.
2011	Instructor, PATH 6410: Molecular Virology, University of Utah, Pathology
2012	Instructor (1): MS2015 H+D - Basic Virology, University of Utah
2012	Instructor (1): MS2015 H+D - Viral Pathogenesis, University of Utah
2012	Instructor (1): MS2015 H+D - CNS Infections, University of Utah
2012	Instructor (1): MS2015 H+D - Bioterrorism, University of Utah
2013	Instructor (1): MS2016 H+D - Basic Virology, University of Utah
2013	Instructor (1): MS2016 H+D - Viral Pathogenesis, University of Utah
2013	Instructor (1): MS2016 H+D - Select Agents/Zoonoses, University of Utah
2013	Instructor (1): MS2016 H+D - GI Infections, University of Utah
2013	Instructor (1): MS2016 H+D - CNS Infections, University of Utah
2013	Instructor, PATH 6410: Molecular Virology, University of Utah, Pathology
2014	Instructor, MD ID (1): MS2017 H+D - Introduction to Virology, University of Utah, Deans Office - SOM
2014	Instructor, MD ID (1): MS2017 H+D - Viral Pathogenesis, University of Utah, Deans Office - SOM
2014	Instructor, MD ID (1): MS2017 H+D - GI Infections, University of Utah, Deans Office - SOM
2014	Instructor, MD ID (1): MS2017 H+D - Zoonoses, University of Utah, Deans Office - SOM
2014	Instructor, MD ID (1): MS2017 H+D - CNS Infections, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - Introduction to Virology, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - Viral Replication, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - Viral Genetics, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - Viral Pathogenesis, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - Zoonoses, University of Utah, Deans Office - SOM
2015	Instructor, MD ID (1): MS2017 H+D - CNS Infections, University of Utah, Deans Office - SOM

Clinical Teaching

2009 Infectious Disease Fellow lectures: Herpesviruses, Catheter-related infections, Bioterrorism agents

2009 2nd year medical student EPC (Physical Diagnosis)

2011 Primary Instructor, INTMD 7880 (1): Infectious Dis Research, 4 SCH, 1 student, University of Utah, Internal Medicine

2012 Primary Instructor, INTMD 7650 (1): Inf Dis Clerkship, 6 SCH, 2 students, University of Utah, Internal Medicine

2013 Primary Instructor, INTMD 7650 (1): Inf Dis Clerkship, 8 SCH, 2 students, University of Utah, Internal Medicine

2014 Primary Instructor, INTMD 7650 (1): Inf Dis Clerkship, 2 SCH, 1 student, University of Utah, Internal Medicine

Laboratory Teaching

2012 Path 6830, [Lab Orientation, 6830]
Eun A Kim

2014 Primary Instructor, INTMD 7880 (1): Infectious Dis Research, 4 SCH, 1 student, University of Utah, Internal Medicine

Trainee Supervision

PhD/Doctorate

2000 - 2004 Advisor, Ashish Gupta, University of Florida. Role of KSHV-SM protein in angiogenesis and endothelial cell transformation
Trainee's Current Career Activities: Physician, Cardiology.

2000-2004 Supervisor, Garnet Suck, Medizinishke Universitaet zu Luebeck, Germany. Protein interactions of Epstein-Barr Virus SM Protein.
Trainee's Current Career Activities: Head of cell processing laboratory, centre for transfusion medicine, Health Sciences Authority, Singapore.

2006 - 2007 Advisor, Melusine Gaillard, University of Western Brittany, France. Protein interactions of Epstein-Barr Virus SM Protein.
Trainee's Current Career Activities: Scientific Communications .

2006 - 2010 Supervisor, Dinesh Verma, University of Florida. *Trainee's Current Career Activities:* Research Assistant Professor, University of Utah.

2007 - 2009 Advisor, Bindhu Monica Selvakumar, University of Florida. Effect of Interferon-stimulated genes on virus replication
Trainee's Current Career Activities: Staff position, Christian Medical College, Vellore.

2009 - 2015 Supervisor, Dajiang Li, University of Florida. *Trainee's Current Career Activities:* Research Assistant Professor, University of Utah, Salt Lake City, UT.

2010 - 2011 Supervisor, Eleonora Forte, University of Utah. Innate immune responses to EBV and KSHV. *Trainee's Current Career Activities*: Postdoctoral fellow, Northwestern University, Chicago, IL.

2011 - 2012 Supervisor, Dominique Kagele, University of Utah. *Trainee's Current Career Activities*: Technical information scientist, Jackson Laboratory, Sacramento, CA.

2016- curr. Supervisor, Wenmin Fu. University of Utah. Host chromatin factor control of herpesvirus replication. *Trainee's Current Career Activities*: Postdoctoral fellow, University of Utah, Salt Lake City, UT.

Masters

2007 - 2008 Preceptor, Zhao Han, University of Florida

Undergraduate

2004 Advisor, Zhao Han, University of Florida. RNA binding characteristics of EBV SM protein. *Trainee's Current Career Activities:* Received M.S. Medical student.

Graduate Student Committees

1993 - 1994 Member, Gloria Chang, Masters Thesis Committee. Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA.

1994 - 1995 Member, John Maggioncalda, PhD/Doctorate Committee. Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA.

2000 - 2004 Member, Jerome O'Neil, University of Florida, PhD/Doctorate Committee. Ph. D. supervisory committee, Molecular Genetics and Microbiology

2005 - 2008 Member, Rebecca Skalsky, University of Florida, PhD/Doctorate Committee. Ph. D. supervisory committee, Molecular Genetics and Microbiology.

2011-2015 Ph.D. Thesis Committee, Peter Ramirez, Experimental Pathology, University of Utah

2013-2015 Ph.D. Thesis Committee, John Frank, Biochemistry, University of Utah

Membership in Scientific Societies:

American College of Physicians
International Association for Research on Epstein-Barr Virus and Associated Diseases
American Society for Microbiology
Infectious Diseases Society of America

Board Certification:

1987	Board Certified, American Board of Internal Medicine.
1990	Board Certified, Infectious Disease, American Board of Internal Medicine.
2003	Board Certified, Infectious Disease, American Board of Internal Medicine.
2014	Board Certified, Infectious Disease, American Board of Internal Medicine.

Licensure:

2015	Utah License Registration 7746146-1205

Awards and Honors:

1975	Presidential Scholar
1977-1979	Harvard Scholar
1979	magna cum laude, Harvard College
1999	Fellow, American College of Physicians
2000	Department of Internal Medicine Basic Science Research Award, University of Texas Medical Branch, Galveston, TX.
2008	University of Florida Department of Medicine Teaching Excellence Award
2011	Fellow, Infectious Diseases Society of America
2008-2011	University of Florida Research Foundation Professorship
2004-present	Member, Governing Board, International Association for Research on Epstein-Barr virus and Associated Diseases.
2005-present	Editorial Board, Journal of Virology.
2006-present	Editorial Board, Future Microbiology.
2006-present	Treasurer, International Association for Research on Epstein-Barr virus and Associated Diseases.
2009-2017	Editorial Board, Advances in Tumor Virology
2014-present	Associate Editor, PLOS Pathogens

Additional Information:

1996-	Reviewer, Clinical Infectious Diseases

1996- Reviewer, Journal of Biological Chemistry
2000- Reviewer, Journal of Clinical Microbiology
2001- Reviewer, Journal of Virology
2002- Reviewer, Cancer Research
2003- Reviewer, Virology
2003- Reviewer, Clinical Cancer Research
2003- Reviewer, Proc. Natl. Acad. Sci. USA
2004- Reviewer, Journal of the National Cancer Institute
2005- Reviewer, Blood
2005 Reviewer, Human Gene Therapy
2006 Reviewer, Laboratory Investigation
2007 Reviewer, Journal of Cellular Physiology
2007 Reviewer, EMBO Journal
2007 Reviewer, Journal of Leukocyte Biology
2007 Reviewer, Virus Research
2008 Reviewer, PLOS Pathogens
2008 Reviewer, Journal of Bacteriology
2008 Reviewer, Journal of Cellular Biochemistry
2009 Reviewer, Journal of General Virology
2009 Reviewer, Cancer Biology and Therapy
2013 Guest Editor, PLOS Pathogens
2015 Reviewer, Oncogene, Proc. Natl. Acad. Sci. USA
2017 Reviewer, Nature Microbiology

Bibliography:

A. Articles in peer-reviewed journals:

1. Swaminathan S, Gooding L. Inhibition of glycosylation prevents surface H-2 K and D antigen expression on SV40 virus-transformed cells. Eur J. Immunol. 1983; 13:335-339.

2. Swaminathan S, Tomkinson B, Kieff E. Recombinant Epstein-Barr virus with deleted small RNA (EBER) genes transforms lymphocytes and replicates in vitro. Proc. Natl. Acad. Sci. 1991; 88:1546-1550.

3. Swaminathan S, Huneycutt B, Reiss C, Kieff E. Epstein-Barr virus encoded small RNAs (EBERs) do not modulate interferon effects in infected lymphocytes. J. Virol. 1992; 66: 5133-5136.

4. Swaminathan S, Hesselton R, Sullivan J, Kieff E. 1993. Epstein-Barr virus recombinants with specifically mutated BCRF1 genes. J. Virol. 1993; 67: 7406-7413.

5. Kurilla M, Swaminathan S, Welsh R, Kieff E, Brutkiewicz R. 1993. The effects of virally expressed interleukin-10 on vaccinia virus infection in mice. J. Virol. 1993; 67: 7623-7628.

6. Swaminathan S. Characterization of Epstein-Barr Virus recombinants with deletions of the BamHI C EBNA promoter. Virology 1996; 217: 532-541.

7. Evans TJ, Farrell, P and Swaminathan, S. Molecular genetic analysis of Epstein-Barr virus Cp promoter function. J. Virol. 1996; 70: 1695-1705.

8. Ruvolo, V, Wang, E, Boyle, S, Swaminathan, S. The Epstein-Barr virus nuclear protein SM is both a post-transcriptional inhibitor and activator of gene expression. Proc. Natl. Acad. Sci. 1998; 95:8852-8857.

9. Fuentes-Panana, EM, Swaminathan, S, Ling, PD. Transcriptional activation signals found in the EBV latency C promoter are conserved in the latency C promoter sequences from baboon and rhesus monkey EBV-like lymphocryptoviruses (cercopithicine herpesviruses 12 and 15). J. Virol. 1999, 73:826-833.

10. Boyle, S, Ruvolo, V, Gupta, AK, Swaminathan, S. Association with the cellular export receptor CRM1 mediates function and intracellular localization of the EBV SM protein, a regulator of gene expression. J. Virol. 1999, 73:6872-6881.

11. Gupta, AK, Ruvolo, V, Patterson, C, Swaminathan, S. The HHV8 homolog of Epstein Barr Virus SM protein (KS-SM) is a post-transcriptional activator of gene expression. J. Virol. 2000, 74:1038-44.

12. Ruvolo V, Gupta, AK, Swaminathan, S. Epstein-Barr virus SM protein interacts with messenger RNA in vivo and mediates a gene-specific increase in cytoplasmic mRNA. J. Virol. 2001, 75: 6033-6041.

13. Boyer JL, Swaminathan, S and Silverstein, SJ. The Epstein-Barr virus SM protein is functionally similar to ICP27 from herpes simplex virus. J. Virol. 2002, 76(18):9420-33.

14. Ruvolo V, Navarro L, Sample C, David M, Swaminathan S. The Epstein-Barr Virus SM protein activates STAT1 and induces interferon stimulated gene expression. J. Virol. 2003, 77(6):3690-701.

15. Swaminathan, S. Molecular biology of Epstein-Barr virus and Kaposi's sarcoma-associated herpesvirus. Semin. Hematol. 2003, 40(2):107-15.

16. Ruvolo V, Sun L, Howard K, Sung S, Delecluse H-J, Hammerschmidt W, Swaminathan S. Functional analysis of Epstein-Barr virus SM protein: identification of amino acids essential for structure, trans-activation, splicing inhibition and virion production. J. Virol. 2004, 78(1):340-352.

17. Nicewonger, J, Suck, G, Bloch D, Swaminathan, S. Epstein Barr virus SM protein induces and recruits cellular Sp110b to stabilize mRNAs and enhance EBV lytic gene expression. J. Virol. 2004, 78(17):9412-22.

18. Swaminathan, S. Post-transcriptional gene regulation in gamma-herpesviruses. J. Cell. Biochem. 2005, 95(4):698-711.

19. Han, Z and Swaminathan, S. The KSHV lytic gene ORF57 is essential for infectious virion production. J Virol. 2006, 80(11):5251-60.

20. Han, Z, Marendy, E, Wang, Y-D, Yuan, J, Sample, JT, Swaminathan, S. Multiple roles of Epstein Barr virus SM protein in lytic replication. J. Virol. 2007 81(8): 4058-69.

21. Nekorchuk, M, Han, Z, Hsieh, T and Swaminathan, S. Kaposi's sarcoma-associated herpesvirus ORF 57 protein enhances nuclear mRNA accumulation independent of effects on RNA export. J Virol. 2007, 81:(18): 9990-9998.

22. Verma, D and Swaminathan, S. Epstein-Barr virus SM protein functions as an alternative splicing factor, J Virol. 2008, 82(14): 7180-8.

23. Swaminathan S. Noncoding RNAs produced by oncogenic human herpesviruses. J Cell Physiol. 2008 Aug;216(2):321-6. doi: 10.1002/jcp.21480. Review. PubMed PMID: 18484093.

24. Verma, D, Ling, C, Johannsen, E, Nagaraja, T, Swaminathan, S. Negative autoregulation of EBV replicative gene expression by Epstein-Barr virus (EBV) SM protein, J. Virol. 2009 Aug;83(16):8041-50.

25. Han Z, Verma D, Hilscher C, Dittmer DP, Swaminathan S.
General and target-specific RNA binding properties of Epstein Barr virus SM post-transcriptional regulatory protein. J Virol. 2009, 83(22): 11635-11644.

26. Swaminathan, S. 2009. Gamma-secretase inhibitors - Do they have a role in the treatment of B cell lymphoma? Cancer Biol. Ther. Cancer Biol. Ther. 8(22):2126-43.

27. Verma, D, Bais, S, Gaillard, M and Swaminathan, S. Epstein-Barr virus SM protein utilizes cellular splicing factor SRp20 to mediate alternative splicing. J. Virol. 2010, 84(22):11781-9.

28. Li, D, Verma, D and Swaminathan, S. Binding of cellular export factor REF/Aly by KSHV ORF57 protein is not required for efficient KSHV lytic replication. J. Virol. 2012, 86(18):9866-9874.

29. Verma D, Kim EA, Swaminathan, S. Cell-based screening assay for antiviral compounds targeting the ability of herpesvirus posttranscriptional regulatory proteins to stabilize viral mRNAs. J Virol. 2013, 87(19):10742-51.

30. Baden LR, Bensinger W, Angarone M, Casper C, Dubberke ER, Freifeld AG, Garzon R, Greene JN, Greer JP, Ito JI, Karp JE, Kaul DR, King E, Mackler E, Marr KA, Montoya JG, Morris-Engemann A, Pappas PG, Rolston K, Segal B, Seo SK, Swaminathan S, Naganuma M, Shead DA; National Comprehensive Cancer Network. Prevention and treatment of cancer-related infections. J Natl Compr Canc Netw. 2012, 10(11):1412-45.

31. Li DJ, Verma D, Mosbruger T, Swaminathan S, CTCF and Rad21 Act as Host Cell Restriction Factors for Kaposi's Sarcoma-Associated Herpesvirus (KSHV) Lytic Replication by Modulating Viral Gene Transcription. PLoS Pathog. 2014 Jan;10(1):e1003880. doi: 10.1371/journal.ppat.1003880. Epub 2014 Jan 9.

32. Hammond SP, Swaminathan S, Bensinger WI, Baden LR. 2014. Hepatitis B Virus Screening and Potential Reactivation in Patients Undergoing Treatment for Cancer. J Natl Compr Canc Netw 12:1655-1657.

33. Hanson KE, Swaminathan S. Cytomegalovirus antiviral drug resistance: future prospects for prevention, detection and management. Future Microbiol. 2015;10(10):1545-8. doi: 10.2217/fmb.15.82. Epub 2015 Oct 6.

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