

Stanford




Ann M. Arvin

Lucile Salter Packard Professor of Pediatrics and Professor of Microbiology and Immunology, Emerita

Pediatrics - Infectious Diseases

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

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Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Pediatrics - Infectious Diseases
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Dean of Research, Stanford University, (2001-2006)
- Vice Provost and Dean of Research, Stanford University, (2006-2018)

HONORS AND AWARDS

- E. Mead Johnson Award, Society for Pediatric Research (1992)
- John F. Enders Award, Infectious Diseases Society of America (2002)
- Elected member, Association of American Physicians (2002)
- Elected member, Institute of Medicine of the National Academy of Science (2003)
- Albion Walter Hewlett Award, Stanford University School of Medicine (2004)
- Director's Advisory Council, National Institute of Allergy and Infectious Diseases (2007-2011)
- Elected member, American Association for the Advancement of Science (2009)
- Distinguished Graduate Award, University of Pennsylvania School of Medicine (2010)
- Elected Member, American Academy of Arts and Sciences (2012)

PROFESSIONAL EDUCATION

- M.D., University of Pennsylvania School of Medicine, Medicine (1972)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Varicella-zoster virus (VZV) causes varicella (chickenpox) and zoster (shingles). Our laboratory investigates the molecular virology of VZV, focusing on the functional roles of particular viral gene products in pathogenesis and virus-cell interactions in differentiated human cells in SCID mouse models of VZV infection in vivo. Aspects of VZV tropism are investigated using SCID mice that have human skin, T cell and dorsal root ganglion xenografts and VZV recombinant viruses that have targeted mutations of viral promoters, open reading frames and non-coding regions. The consequences of targeted mutations in the VZV genome reveal functions that are important for VZV pathogenesis and that counteract intrinsic cellular regulation of VZV replication. These studies provide information relevant for developing new genetically engineered vaccines to reduce the disease burden of VZV infections.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Infectious Diseases (Fellowship Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **Targeted mutagenesis of the herpesvirus fusogen central helix captures transition states.** *Nature communications*
Zhou, M., Vollmer, B., Machala, E., Chen, M., Grünewald, K., Arvin, A. M., Chiu, W., Oliver, S. L.
2023; 14 (1): 7958
- **Creating the "Dew Drop on a Rose Petal": the Molecular Pathogenesis of Varicella-Zoster Virus Skin Lesions.** *Microbiology and molecular biology reviews : MMBR*
Arvin, A. M.
2023: e0011622
- **Insights From Studies of the Genetics, Pathogenesis, and Immunogenicity of the Varicella Vaccine.** *The Journal of infectious diseases*
Arvin, A. M.
2022; 226 (Supplement_4): S385-S391
- **Modulation of Host Cell Signaling Pathways by Varicella-Zoster Virus.** *Current topics in microbiology and immunology*
Sen, N., Arvin, A. M.
2022
- **The N-terminus of varicella-zoster virus glycoprotein B has a functional role in fusion.** *PLoS pathogens*
Oliver, S. L., Xing, Y. n., Chen, D. H., Roh, S. H., Pintilie, G. D., Bushnell, D. A., Sommer, M. H., Yang, E. n., Carfi, A. n., Chiu, W. n., Arvin, A. M.
2021; 17 (1): e1008961
- **Varicella-zoster virus: molecular controls of cell fusion-dependent pathogenesis.** *Biochemical Society transactions*
Oliver, S. L., Zhou, M., Arvin, A. M.
2020
- **A glycoprotein B-neutralizing antibody structure at 2.8Å uncovers a critical domain for herpesvirus fusion initiation.** *Nature communications*
Oliver, S. L., Xing, Y., Chen, D., Roh, S. H., Pintilie, G. D., Bushnell, D. A., Sommer, M. H., Yang, E., Carfi, A., Chiu, W., Arvin, A. M.
2020; 11 (1): 4141
- **Calcineurin phosphatase activity regulates Varicella-Zoster Virus induced cell-cell fusion.** *PLoS pathogens*
Zhou, M. n., Kamarshi, V. n., Arvin, A. M., Oliver, S. L.
2020; 16 (11): e1009022

- **The Use of Single Cell Mass Cytometry to Define the Molecular Mechanisms of Varicella-Zoster Virus Lymphotropism.** *Frontiers in microbiology*
Sen, N., Mukherjee, G., Arvin, A. M.
2020; 11: 1224
- **The latency-associated transcript locus of herpes simplex virus 1 is a virulence determinant in human skin.** *PLoS pathogens*
Vanni, E. A., Foley, J. W., Davison, A. J., Sommer, M. n., Liu, D. n., Sung, P. n., Moffat, J. n., Zerboni, L. n., Arvin, A. M.
2020; 16 (12): e1009166
- **Distinctive Roles for Type I and Type II Interferons and Interferon Regulatory Factors in the Host Cell Defense against Varicella-zoster Virus.** *Journal of virology*
Sen, N., Sung, P., Panda, A., Arvin, A. M.
2018
- **The Glycoprotein B Cytoplasmic Domain Lysine Cluster Is Critical for Varicella Zoster Virus Cell-Cell Fusion Regulation and Infection.** *Journal of virology*
Yang, E., Arvin, A. M., Oliver, S. L.
2016
- **Neuronal Subtype and Satellite Cell Tropism Are Determinants of Varicella-Zoster Virus Virulence in Human Dorsal Root Ganglia Xenografts In Vivo.** *PLoS pathogens*
Zerboni, L., Arvin, A.
2015; 11 (6)
- **Single-Cell Mass Cytometry Analysis of Human Tonsil T Cell Remodeling by Varicella Zoster Virus** *CELL REPORTS*
Sen, N., Mukherjee, G., Sen, A., Bendall, S. C., Sung, P., Nolan, G. P., Arvin, A. M.
2014; 8 (2): 632-644
- **Molecular mechanisms of varicella zoster virus pathogenesis** *NATURE REVIEWS MICROBIOLOGY*
Zerboni, L., Sen, N., Oliver, S. L., Arvin, A. M.
2014; 12 (3): 197-210
- **An immunoreceptor tyrosine-based inhibition motif in varicella-zoster virus glycoprotein B regulates cell fusion and skin pathogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Oliver, S. L., Brady, J. J., Sommer, M. H., Reichelt, M., Sung, P., Blau, H. M., Arvin, A. M.
2013; 110 (5): 1911-1916
- **3D Reconstruction of VZV Infected Cell Nuclei and PML Nuclear Cages by Serial Section Array Scanning Electron Microscopy and Electron Tomography** *PLOS PATHOGENS*
Reichelt, M., Joubert, L., Perrino, J., Koh, A. L., Phanwar, I., Arvin, A. M.
2012; 8 (6)
- **Signal transducer and activator of transcription 3 (STAT3) and survivin induction by varicella-zoster virus promote replication and skin pathogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sen, N., Che, X., Rajamani, J., Zerboni, L., Sung, P., Ptacek, J., Arvin, A. M.
2012; 109 (2): 600-605
- **Structure-function analysis of varicella-zoster virus glycoprotein H identifies domain-specific roles for fusion and skin tropism** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vleck, S. E., Oliver, S. L., Brady, J. J., Blau, H. M., Rajamani, J., Sommer, M. H., Arvin, A. M.
2011; 108 (45): 18412-18417
- **Disruption of PML Nuclear Bodies Is Mediated by ORF61 SUMO-Interacting Motifs and Required for Varicella-Zoster Virus Pathogenesis in Skin** *PLOS PATHOGENS*
Wang, L., Oliver, S. L., Sommer, M., Rajamani, J., Reichelt, M., Arvin, A. M.
2011; 7 (8)
- **Entrapment of Viral Capsids in Nuclear PML Cages Is an Intrinsic Antiviral Host Defense against Varicella-Zoster Virus** *PLOS PATHOGENS*
Reichelt, M., Wang, L., Sommer, M., Perrino, J., Nour, A. M., Sen, N., Baiker, A., Zerboni, L., Arvin, A. M.
2011; 7 (2)

- **Varicella-Zoster Virus Immediate-Early Protein 62 Blocks Interferon Regulatory Factor 3 (IRF3) Phosphorylation at Key Serine Residues: a Novel Mechanism of IRF3 Inhibition among Herpesviruses** *JOURNAL OF VIROLOGY*
Sen, N., Sommer, M., Che, X., White, K., Ruyechan, W. T., Arvin, A. M.
2010; 84 (18): 9240-9253
- **PREFACE** *INTERNATIONAL JOURNAL FOR MULTISCALE COMPUTATIONAL ENGINEERING*
Littlewood, D. J., Bronkhorst, C. A.
2023; 21 (3): 0v
- **Preface** *VARICELLA-ZOSTER VIRUS*
Arvin, A. M., Moffat, J. F., Abendroth, A., Oliver, S. L., Arvin, A. M., Moffat, J. F., Abendroth, A., Oliver, S. L.
2023; 438: V
- **Target highlights in CASP14: analysis of models by structure providers.** *Proteins*
Alexander, L. T., Lepore, R., Kryshafovych, A., Adamopoulos, A., Alahuhta, M., Arvin, A. M., Bomble, Y. J., Bottcher, B., Breyton, C., Chiarini, V., Chinnam, N. B., Chiu, W., Fidelis, et al
2021
- **Prospects for a safe COVID-19 vaccine.** *Science translational medicine*
Haynes, B. F., Corey, L., Fernandes, P., Gilbert, P. B., Hotez, P. J., Rao, S., Santos, M. R., Schuitemaker, H., Watson, M., Arvin, A.
2020
- **Publisher Correction: A glycoprotein B-neutralizing antibody structure at 2.8 Å uncovers a critical domain for herpesvirus fusion initiation.** *Nature communications*
Oliver, S. L., Xing, Y., Chen, D., Roh, S. H., Pintilie, G. D., Bushnell, D. A., Sommer, M. H., Yang, E., Carfi, A., Chiu, W., Arvin, A. M.
2020; 11 (1): 4398
- **A perspective on potential antibody-dependent enhancement of SARS-CoV-2.** *Nature*
Arvin, A. M., Fink, K., Schmid, M. A., Cathcart, A., Spreafico, R., Havenar-Daughton, C., Lanzavecchia, A., Corti, D., Virgin, H. W.
2020
- **Immunogenicity of Inactivated Varicella Zoster Vaccine in Autologous Hematopoietic Stem Cell Transplant Recipients and Patients With Solid or Hematologic Cancer.** *Open forum infectious diseases*
Boeckh, M. J., Arvin, A. M., Mullane, K. M., Camacho, L. H., Winston, D. J., Morrison, V. A., Hurtado, K., Durrand Hall, J., Pang, L., Su, S., Kaplan, S. S., Annunziato, P. W., Popmihajlov, et al
2020; 7 (7): ofaa172
- **Deletion of Herpes Simplex Virus 1 MicroRNAs miR-H1 and miR-H6 Impairs Reactivation.** *Journal of virology*
Barrozo, E. R., Nakayama, S. n., Singh, P. n., Vanni, E. A., Arvin, A. M., Neumann, D. M., Bloom, D. C.
2020; 94 (15)
- **Safety and efficacy of inactivated varicella zoster virus vaccine in immunocompromised patients with malignancies: a two-arm, randomised, double-blind, phase 3 trial.** *The Lancet. Infectious diseases*
Mullane, K. M., Morrison, V. A., Camacho, L. H., Arvin, A., McNeil, S. A., Durrand, J., Campbell, B., Su, S., Chan, I. S., Parrino, J., Kaplan, S. S., Popmihajlov, Z., Annunziato, et al
2019
- **Current In Vivo Models of Varicella-Zoster Virus Neurotropism.** *Viruses*
Mahalingam, R. n., Gershon, A. n., Gershon, M. n., Cohen, J. I., Arvin, A. n., Zerboni, L. n., Zhu, H. n., Gray, W. n., Messaoudi, I. n., Traina-Dorge, V. n.
2019; 11 (6)
- **Will Measles Virus or Humanity Win the International "Fitness" Challenge?** *Annual review of virology*
Arvin, A. M.
2019; 6 (1): iii-vii
- **The C-terminus of varicella-zoster virus glycoprotein M contains trafficking motifs that mediate skin virulence in the SCID-human model of VZV pathogenesis.** *Virology*
Zerboni, L., Sung, P., Sommer, M., Arvin, A.
2018; 523: 110–20

- **Inactivated varicella zoster vaccine in autologous haemopoietic stem-cell transplant recipients: an international, multicentre, randomised, double-blind, placebo-controlled trial** *LANCET*
Winston, D. J., Mullane, K. M., Cornely, O. A., Boeckh, M. J., Brown, J., Pergam, S. A., Trociukas, I., Zak, P., Craig, M. D., Papanicolaou, G. A., Velez, J. D., Panse, J., Hurtado, et al
2018; 391 (10135): 2116–27
- **Age-associated differences in infection of human skin in the SCID mouse model of varicella-zoster virus pathogenesis.** *Journal of virology*
Zerboni, L., Sung, P., Lee, G., Arvin, A.
2018
- **HIV-1 inhibitory properties of eCD4-IgMim2 determined using an Env-mediated membrane fusion assay.** *PloS one*
Yang, E., Gardner, M. R., Zhou, A. S., Farzan, M., Arvin, A. M., Oliver, S. L.
2018; 13 (10): e0206365
- **Mass Cytometric Analysis of HIV Entry, Replication, and Remodeling in Tissue CD4(+) T Cells** *CELL REPORTS*
Cavrois, M., Banerjee, T., Mukherjee, G., Raman, N., Hussien, R., Rodriguez, B., Vasquez, J., Spitzer, M. H., Lazarus, N. H., Jones, J. J., Ochsenbauer, C., McCune, J. M., Butcher, et al
2017; 20 (4): 984–98
- **A phase III, double-blind, randomized, placebo-controlled, multicenter clinical trial to study the safety, tolerability, efficacy, and immunogenicity of inactivated VZV vaccine (ZVIN) in recipients of autologous hematopoietic stem cell transplants (auto-HSCT)**
Cornely, O. A., Winston, D. J., Mullane, K. M., Boeckh, M. J., Hurtado, K., Su, S. C., Pang, L., Zhao, Y., Chan, I. F., Stek, J. E., Kaplan, S. S., Parrino, J., Annunziato, et al
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- **The Glycoprotein B Cytoplasmic Domain Lysine Cluster Is Critical for Varicella-Zoster Virus Cell-Cell Fusion Regulation and Infection** *JOURNAL OF VIROLOGY*
Yang, E., Arvin, A. M., Oliver, S. L.
2017; 91 (1)
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Oliver, S. L., Yang, E., Arvin, A. M.
2017; 91 (1)
- **Varicella-Zoster Virus Glycoproteins: Entry, Replication, and Pathogenesis.** *Current clinical microbiology reports*
Oliver, S. L., Yang, E., Arvin, A. M.
2016; 3 (4): 204-215
- **Dysregulated Glycoprotein B Mediated Cell-Cell Fusion Disrupts Varicella-Zoster Virus and Host Gene Transcription During Infection.** *Journal of virology*
Oliver, S. L., Yang, E., Arvin, A. M.
2016
- **Varicella-Zoster Virus Activates CREB, and Inhibition of the pCREB-p300/CBP Interaction Inhibits Viral Replication In Vitro and Skin Pathogenesis In Vivo.** *Journal of virology*
François, S., Sen, N., Mitton, B., Xiao, X., Sakamoto, K. M., Arvin, A.
2016; 90 (19): 8686-8697
- **Role for the α V Integrin Subunit in Varicella-Zoster Virus-Mediated Fusion and Infection.** *Journal of virology*
Yang, E., Arvin, A. M., Oliver, S. L.
2016; 90 (16): 7567-7578
- **Mutational analysis of varicella-zoster virus (VZV) immediate early protein (IE62) subdomains and their importance in viral replication** *VIROLOGY*
Khalil, M. I., Che, X., Sung, P., Sommer, M. H., Hay, J., Arvin, A. M.
2016; 492: 82-91
- **Longitudinal Kinetics of Cytomegalovirus-Specific T-Cell Immunity and Viral Replication in Infants With Congenital Cytomegalovirus Infection.** *Journal of the Pediatric Infectious Diseases Society*
Chen, S. F., Holmes, T. H., Slifer, T., Ramachandran, V., Mackey, S., Hebson, C., Arvin, A. M., Lewis, D. B., Dekker, C. L.
2016; 5 (1): 14-20

- **Dissecting the Molecular Mechanisms of the Tropism of Varicella-Zoster Virus for Human T Cells.** *Journal of virology*
Sen, N., Arvin, A. M.
2016; 90 (7): 3284-3287
- **Single cell mass cytometry reveals remodeling of human T cell phenotypes by varicella zoster virus** *METHODS*
Sen, N., Mukherjee, G., Arvin, A. M.
2015; 90: 85-94
- **Differential effects of Sp cellular transcription factors on viral promoter activation by varicella-zoster virus (VZV) IE62 protein** *VIROLOGY*
Khalil, M. I., Ruyechan, W. T., Hay, J., Arvin, A.
2015; 485: 47-57
- **Varicella-zoster virus (VZV) origin of DNA replication oriS influences origin-dependent DNA replication and flanking gene transcription** *VIROLOGY*
Khalil, M. I., Sommer, M. H., Hay, J., Ruyechan, W. T., Arvin, A. M.
2015; 481: 179-186
- **A site of varicella-zoster virus vulnerability identified by structural studies of neutralizing antibodies bound to the glycoprotein complex gHgL.** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Xing, Y., Oliver, S. L., TuongVi Nguyen, T., Ciferri, C., Nandi, A., Hickman, J., Giovani, C., Yang, E., Palladino, G., Grose, C., Uematsu, Y., Lilja, A. E., Arvin, et al
2015; 112 (19): 6056-6061
- **Have Universities Overbuilt Biomedical Research Facilities?** *ISSUES IN SCIENCE AND TECHNOLOGY*
Bienenstock, A., Arvin, A. M., Korn, D.
2015; 31 (3): 35-36
- **Autophagic flux without a block differentiates varicella-zoster virus infection from herpes simplex virus infection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Buckingham, E. M., Carpenter, J. E., Jackson, W., Zerboni, L., Arvin, A. M., Grose, C.
2015; 112 (1): 256-261
- **Varicella-zoster virus infections in patients treated with fingolimod: risk assessment and consensus recommendations for management.** *JAMA neurology*
Arvin, A. M., Wolinsky, J. S., Kappos, L., Morris, M. I., Reder, A. T., Tornatore, C., Gershon, A., Gershon, M., Levin, M. J., Bezuidenhout, M., Putzki, N.
2015; 72 (1): 31-39
- **The cytoplasmic domain of varicella-zoster virus glycoprotein h regulates syncytia formation and skin pathogenesis.** *PLoS pathogens*
Yang, E., Arvin, A. M., Oliver, S. L.
2014; 10 (5)
- **Cellular transcription factor YY1 mediates the varicella-zoster virus (VZV) IE62 transcriptional activation** *VIROLOGY*
Khalil, M. I., Sommer, M., Arvin, A., Hay, J., Ruyechan, W. T.
2014; 449: 244-253
- **Multiparametric high dimensional analysis of normal & VZV infected human tonsil T cells at a single cell resolution by mass cytometry**
Sen, N., Mukherjee, G., Bendall, S. C., Sen, A., Jager, A., Sung, P., Nolan, G. P., Johnstone, I., Arvin, A. M.
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Khalil, M. I., Sommer, M., Arvin, A., Hay, J., Ruyechan, W. T.
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- **ORF11 Protein Interacts with the ORF9 Essential Tegument Protein in Varicella-Zoster Virus Infection** *JOURNAL OF VIROLOGY*
Che, X., Oliver, S. L., Reichelt, M., Sommer, M. H., Haas, J., Rovis, T. L., Arvin, A. M.
2013; 87 (9): 5106-5117
- **Identification of a Hydrophobic Domain in Varicella-Zoster Virus ORF61 Necessary for ORF61 Self-Interaction, Viral Replication, and Skin Pathogenesis** *JOURNAL OF VIROLOGY*
Wang, L., Rajamani, J., Sommer, M., Zerboni, L., Arvin, A. M.
2013; 87 (7): 4075-4079

- **Herpes Simplex Virus 1 Tropism for Human Sensory Ganglion Neurons in the Severe Combined Immunodeficiency Mouse Model of Neuropathogenesis** *JOURNAL OF VIROLOGY*
Zerboni, L., Che, X., Reichelt, M., Qiao, Y., Gu, H., Arvin, A.
2013; 87 (5): 2791-2802
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Gans, H. A., Yasukawa, L. L., Sung, P., Sullivan, B., Dehovitz, R., Audet, S., Beeler, J., Arvin, A. M.
2013; 207 (4): 574-582
- **Innate Immune Dysfunction is Associated with Enhanced Disease Severity In Infants with Severe Respiratory Syncytial Virus Bronchiolitis** *JOURNAL OF INFECTIOUS DISEASES*
Gans, H. A., Yasukawa, L. L., Sung, P., Sullivan, B., Dehovitz, R., Audet, S., Beeler, J., Arvin, A. M.
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- **An Sp1/Sp3 Site in the Downstream Region of Varicella-Zoster Virus (VZV) oriS Influences Origin-Dependent DNA Replication and Flanking Gene Transcription and Is Important for VZV Replication In Vitro and in Human Skin** *JOURNAL OF VIROLOGY*
Khalil, M. I., Robinson, M., Sommer, M., Arvin, A., Hay, J., Ruyechan, W. T.
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- **Apparent Expression of Varicella-Zoster Virus Proteins in Latency Resulting from Reactivity of Murine and Rabbit Antibodies with Human Blood Group A Determinants in Sensory Neurons** *JOURNAL OF VIROLOGY*
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- **A Sequence within the Varicella-Zoster Virus (VZV) OriS Is a Negative Regulator of DNA Replication and Is Bound by a Protein Complex Containing the VZV ORF29 Protein** *JOURNAL OF VIROLOGY*
Khalil, M. I., Arvin, A., Jones, J., Ruyechan, W. T.
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