

# Stanford

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## Jonathan Lin, MD, PhD

Professor of Pathology and of Ophthalmology

### CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

300 Pasteur Dr Rm L235

Lane Bldg MC 5324

Stanford, CA 94305

**Tel** (650) 723-4000

**Fax** (650) 725-7409

### Bio

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#### CLINICAL FOCUS

- Eye Pathology
- Anatomic and Clinical Pathology

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology
- Professor - University Medical Line, Ophthalmology
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

#### PROFESSIONAL EDUCATION

- Fellowship: UCSF Ophthalmology Fellowships (2007) CA
- Board Certification: Anatomic Pathology, American Board of Pathology (2009)
- Residency: Brigham and Women's Hospital (2002) MA
- Medical Education: Columbia University College of Physicians and Surgeons (2001) NY

### Teaching

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#### STANFORD ADVISEES

##### Postdoctoral Faculty Sponsor

Seth Kazmer, Soyoung Park, Korina Steinbergs

## Publications

### PUBLICATIONS

- **Evaluation of Verteporfin as a Novel Antifibrotic Agent in a Rabbit Model of Glaucoma Filtration Surgery: A Pilot Study.** *Ophthalmology science*  
Sun, M. T., Cotton, R. M., Charoenkijajorn, C., Garcia-Sanchez, J., Dalal, R., Xia, X., Lin, J. H., Singh, K., Goldberg, J. L., Liu, W. W.  
2024; 4 (3): 100448
- **TDP43 pathology in chronic traumatic encephalopathy retinas.** *Acta neuropathologica communications*  
Phansalkar, R., Goodwill, V. S., Nirschl, J. J., De Lillo, C., Choi, J., Spurlock, E., Coughlin, D. G., Pizzo, D., Sigurdson, C. J., Hiniker, A., Alvarez, V. E., Mckee, A. C., Lin, et al  
2023; 11 (1): 152
- **Lysine Ubiquitylation Drives Rhodopsin Protein Turnover.** *Advances in experimental medicine and biology*  
Chen, A. P., Chea, L., Lee, E. J., Lin, J. H.  
2023; 1415: 493-498
- **Interpreting Discordant Monosomy 3 FISH and Chromosomal Microarray Analysis Results in Uveal Melanoma.** *Diagnostics (Basel, Switzerland)*  
Long, C. P., Coley, N., Thorson, J., Lin, J. H.  
2023; 13 (5)
- **Neurodegeneration Risk Factor, EIF2AK3 (PERK), Influences Tau Protein Aggregation.** *The Journal of biological chemistry*  
Park, G., Xu, K., Chea, L., Kim, K., Safarta, L., Song, K., Wu, J., Park, S., Min, H., Hiramatsu, N., Han, J., Lin, J. H.  
2022: 102821
- **Mitochondria and Endoplasmic Reticulum Stress in Retinal Organoids from Vision Loss Patients.** *The American journal of pathology*  
Lee, E., Diaz-Aguilar, M. S., Min, H., Choi, J., Valdez Duran, D. A., Grandjean, J. M., Wiseman, R. L., Kroeger, H., Lin, J. H.  
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- **Network biology analysis of P23H rhodopsin interactome identifies protein and mRNA quality control mechanisms.** *Scientific reports*  
Kim, K., Safarta, L. A., Chiang, W. J., Coppinger, J. A., Lee, E. J., Lin, J. H.  
2022; 12 (1): 17405
- **Minimal change prion retinopathy: Morphometric comparison of retinal and brain prion deposits in Creutzfeldt-Jakob disease.** *Experimental eye research*  
Goodwill, V. S., Dryden, I., Choi, J., De Lillo, C., Soldau, K., Llibre-Guerra, J., Sanchez, H., Sigurdson, C. J., Lin, J. H.  
2022: 109172
- **Preferentially Expressed Antigen in Melanoma Immunohistochemistry Labeling in Uveal Melanomas** *OCULAR ONCOLOGY AND PATHOLOGY*  
Ahmadian, S. S., Dryden, I. J., Naranjo, A., Toland, A., Cayrol, R. A., Born, D. E., Egbert, P. S., Brown, R. A., Mruthyunjaya, P., Lin, J. H.  
2022; 8 (2): 133-140
- **A Novel ATF6-Achromatopsia Allele Regulated by Nonsense-Mediated mRNA Decay**  
Al Moujahed, A., Safarta, L., Vollrath, D., Lin, J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Preferentially Expressed Antigen in Melanoma Immunohistochemistry Labeling in Uveal Melanomas.** *Ocular oncology and pathology*  
Ahmadian, S. S., Dryden, I. J., Naranjo, A., Toland, A., Cayrol, R. A., Born, D. E., Egbert, P. S., Brown, R. A., Mruthyunjaya, P., Lin, J. H.  
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- **Bilateral Serpiginous-Like Chorioretinitis Associated with Ciliochoroidal Melanoma: A Clinicopathologic Correlation.** *Retina (Philadelphia, Pa.)*  
Al-Moujahed, A., Lin, J. H., Gagnon, M. R., Pulido, J., Mruthyunjaya, P., Jung, J. J.  
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- **ATF6 is essential for human cone photoreceptor development.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kroeger, H., Grandjean, J. M., Chiang, W. J., Bindels, D. D., Mastey, R., Okalova, J., Nguyen, A., Powers, E. T., Kelly, J. W., Grimsey, N. J., Michaelides, M., Carroll, J., Wiseman, et al  
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- **ATF6 is required for efficient rhodopsin clearance and retinal homeostasis in the P23H rho retinitis pigmentosa mouse model.** *Scientific reports*  
Lee, E., Chan, P., Chea, L., Kim, K., Kaufman, R. J., Lin, J. H.

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- **ARCA1 Facilitates Fluorescence Detection of Amyloid-Containing Deposits in the Retina.** *Translational vision science & technology*  
Cao, K. J., Kim, J. H., Kroeger, H., Gaffney, P. M., Lin, J. H., Sigurdson, C. J., Yang, J.  
2021; 10 (7): 5
- **Genome Sequencing and Apoptotic Markers to Assess Treatment Response of Lacrimal Gland Adenoid Cystic Carcinoma to Intra-Arterial Cytoreductive Chemotherapy.** *Ophthalmic plastic and reconstructive surgery*  
Yu, M. D., Men, C. J., Do, H., Colevas, A. D., Lin, J. H., Egbert, P. R., Tse, D. T., Kossler, A. L.  
2021
- **Sinonasal Ewing sarcoma misdiagnosed as recurrent glomangiopericytoma: Case report and literature review** *Otolaryngology Case Reports*  
Huang, A. E., Hwang, P. H., Lin, J. H., Chang, M. T.  
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- **Colorectal carcinoma presenting in the orbit: mass effect from an uncommon cause.** *Orbit (Amsterdam, Netherlands)*  
Long, C. P., Lu, T., Ediriwickrema, L. S., Lin, J. H., Korn, B. S., Kikkawa, D. O., Liu, C. Y.  
2020: 1–4
- **Incidence Rates of Benign and Malignant Eyelid Lesions at Stanford Healthcare from 2016-2019**  
Ahmadian, S., Lin, J., Cayrol, R., Born, D., Basham, R., Egbert, P.  
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- **Ocular Surface Squamous Neoplasms in 75 HIV+ Mozambicans**  
Kim, Y., Miu, C., Carrilho, C., Liu, Y., Schooley, R., Lin, J. H.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Multi-Exon Deletion Alleles of ATF6 Linked to Achromatopsia**  
Kim, K., Lee, E., Chiang, W., Kroeger, H., Bi, C., Chao, D. L., Mastey, R., Tsang, S., Chea, L., Baumann, B., Audo, I. S., Kohl, S., Moore, et al  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Expanding the spectrum of Kabuki syndrome with novel neuropathological, ocular and genetic findings in an autopsy case**  
Cayrol, R., Ahmadian, S., Michie, S., Lin, J., Born, D.  
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- **Multiexon deletion alleles of ATF6 linked to achromatopsia.** *JCI insight*  
Lee, E., Chiang, W. J., Kroeger, H., Bi, C. X., Chao, D. L., Skowronska-Krawczyk, D., Mastey, R. R., Tsang, S. H., Chea, L., Kim, K., Lambert, S. R., Grandjean, J. M., Baumann, et al  
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- **PREVALENCE OF MISMATCH REPAIR GENE MUTATIONS IN UVEAL MELANOMA.** *Retina (Philadelphia, Pa.)*  
Toomey, C. B., Protopsaltis, N. J., Phou, S. n., Bakhoun, M. F., Thorson, J. A., Ediriwickrema, L. S., Korn, B. S., Kikkawa, D. O., Goldbaum, M. H., Lin, J. H.  
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- **p16 Expression Correlates with Invasive Ocular Surface Squamous Neoplasms in HIV-Infected Mozambicans.** *Ocular oncology and pathology*  
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2020; 6 (2): 123–28
- **Neuroprotective Role of Akt in Hypoxia Adaptation in Andeans.** *Frontiers in neuroscience*  
Zhao, H., Lin, J., Sieck, G., Haddad, G. G.  
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- **IRE1# regulates macrophage polarization, PD-L1 expression, and tumor survival.** *PLoS biology*  
Batista, A. n., Rodvold, J. J., Xian, S. n., Searles, S. C., Lew, A. n., Iwawaki, T. n., Almanza, G. n., Waller, T. C., Lin, J. n., Jepsen, K. n., Carter, H. n., Zanetti, M. n.  
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- **IRE1# and IGF signaling predict resistance to an endoplasmic reticulum stress-inducing drug in glioblastoma cells.** *Scientific reports*  
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- **Radiation-Induced Hyalinizing Clear Cell Carcinoma of the Orbit.** *Ophthalmic plastic and reconstructive surgery*  
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- **Reticular pseudodrusen in late-onset retinal degeneration.** *Ophthalmology. Retina*  
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- **Metastasis of Lung Adenocarcinoma to the Lacrimal Sac.** *Ophthalmic plastic and reconstructive surgery*  
Eng, V. A., Lin, J. H., Mruthunjaya, P. n., Erickson, B. P.  
2020
- **PERK-mediated induction of microRNA-483 disrupts cellular ATP homeostasis during the unfolded protein response.** *The Journal of biological chemistry*  
Hiramatsu, N., Chiang, K., Aivati, C., Rodvold, J. J., Lee, J., Han, J., Chea, L., Zanetti, M., Koo, E. H., Lin, J. H.  
2019
- **Pathomechanisms of ATF6-Associated Cone Photoreceptor Diseases.** *Advances in experimental medicine and biology*  
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2019; 1185: 305–10
- **Beware of the sneeze.** *Survey of ophthalmology*  
Yang, P. n., Toomey, C. n., Lin, J. n., Kikkawa, D. O., Korn, B. S., Harrison, A. n.  
2019
- **ER stress and unfolded protein response in ocular health and disease.** *The FEBS journal*  
Kroeger, H. n., Chiang, W. C., Felden, J. n., Nguyen, A. n., Lin, J. H.  
2019; 286 (2): 399–412
- **Odontogenic choristoma presenting as dermolipoma.** *Orbit (Amsterdam, Netherlands)*  
Men, C. J., Wu, F. n., Lee, B. W., Lin, J. H., Korn, B. S., Kikkawa, D. O.  
2019; 38 (6): 492–94
- **Characterization of Retinal Structure in ATF6-Associated Achromatopsia.** *Investigative ophthalmology & visual science*  
Mastey, R. R., Georgiou, M. n., Langlo, C. S., Kalitzeos, A. n., Patterson, E. J., Kane, T. n., Singh, N. n., Vincent, A. n., Moore, A. T., Tsang, S. H., Lin, J. H., Young, M. P., Hartnett, et al  
2019; 60 (7): 2631–40
- **GNAQ and PMS1 Mutations Associated with Uveal Melanoma, Ocular Surface Melanosis, and Nevus of Ota.** *Ocular oncology and pathology*  
Toomey, C. B., Fraser, K. n., Thorson, J. A., Goldbaum, M. H., Lin, J. H.  
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- **Prion Seeds Distribute throughout the Eyes of Sporadic Creutzfeldt-Jakob Disease Patients.** *mBio*  
Orriù, C. D., Soldau, K. n., Cordanò, C. n., Llibre-Guerra, J. n., Green, A. J., Sanchez, H. n., Groveman, B. R., Edland, S. D., Safar, J. G., Lin, J. H., Caughey, B. n., Geschwind, M. D., Sigurdson, et al  
2018; 9 (6)
- **Orbital fat regeneration following hormonal treatment of metastatic breast carcinoma.** *Orbit (Amsterdam, Netherlands)*  
Alameddine, R. M., Ko, A. C., Mimura, M. n., Parker, B. A., Lin, J. H., Korn, B. S., Kikkawa, D. O.  
2018; 37 (3): 187–90
- **The unfolded protein response regulator ATF6 promotes mesodermal differentiation.** *Science signaling*  
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2018; 11 (517)
- **JAK2 V617F mutation in plasma cell-free DNA preceding clinically overt myelofibrosis: Implications for early diagnosis.** *Cancer biology & therapy*  
Choi, M. Y., Kato, S. n., Wang, H. Y., Lin, J. H., Lanman, R. B., Kurzrock, R. n.  
2018; 19 (8): 664–68

- **Tauopathy-associated PERK alleles are functional hypomorphs that increase neuronal vulnerability to ER stress.** *Human molecular genetics*  
Yuan, S. H., Hiramatsu, N. n., Liu, Q. n., Sun, X. V., Lenh, D. n., Chan, P. n., Chiang, K. n., Koo, E. H., Kao, A. W., Litvan, I. n., Lin, J. H.  
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- **Autosomal recessive cone-rod dystrophy can be caused by mutations in the ATF6 gene.** *European journal of human genetics : EJHG*  
Skorczyk-Werner, A. n., Chiang, W. C., Wawrocka, A. n., Wicher, K. n., Jarmu#-Szymczak, M. n., Kostrzewska-Poczekaj, M. n., Jamsheer, A. n., P#oski, R. n., Rydzanicz, M. n., Pojda-Wilczek, D. n., Weisschuh, N. n., Wissinger, B. n., Kohl, et al  
2017; 25 (11): 1210–16
- **Achromatopsia mutations target sequential steps of ATF6 activation.** *Proceedings of the National Academy of Sciences of the United States of America*  
Chiang, W. C., Chan, P. n., Wissinger, B. n., Vincent, A. n., Skorczyk-Werner, A. n., Krawczy#ski, M. R., Kaufman, R. J., Tsang, S. H., Héon, E. n., Kohl, S. n., Lin, J. H.  
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- **Genetic analysis of 10 pedigrees with inherited retinal degeneration by exome sequencing and phenotype-genotype association.** *Physiological genomics*  
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- **Intercellular transmission of the unfolded protein response promotes survival and drug resistance in cancer cells.** *Science signaling*  
Rodvold, J. J., Chiu, K. T., Hiramatsu, N. n., Nussbacher, J. K., Galimberti, V. n., Mahadevan, N. R., Willert, K. n., Lin, J. H., Zanetti, M. n.  
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- **Masquerading Orbital Sarcoidosis with Isolated Extraocular Muscle Involvement.** *The open ophthalmology journal*  
Kim, J. S., Scawn, R. L., Lee, B. W., Lin, J. H., Korn, B. S., Kikkawa, D. O.  
2016; 10: 140–45
- **Benign and Premalignant Tumors of the Eyelid** *Diseases and Disorders of the Orbit and Ocular Adnexa*  
Wu, F., Lin, J. H., Korn, B. S., Kikkawa, D. O.  
Elsevier.2016
- **Pathology and mechanism of eye diseases** *Ophthalmic disease mechanisms and drug discovery*  
Wert, K. J., Kroeger, H., Wu, F., Tsang, S. H., Lin, J. H.  
2016
- **Large benign de novo conjunctival hemangioma in an 11-year-old boy: case report and literature review.** *Journal of AAPOS : the official publication of the American Association for Pediatric Ophthalmology and Strabismus*  
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- **Ablation of Chop Transiently Enhances Photoreceptor Survival but Does Not Prevent Retinal Degeneration in Transgenic Mice Expressing Human P23H Rhodopsin.** *Advances in experimental medicine and biology*  
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- **iPSC-Derived Retinal Pigment Epithelium Allografts Do Not Elicit Detrimental Effects in Rats: A Follow-Up Study.** *Stem cells international*  
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- **Endoplasmic reticulum stress in human photoreceptor diseases.** *Brain research*  
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2016; 1648 (Pt B): 538–41
- **Extraocular Muscle Fibrosis in Idiopathic Orbital Inflammation.** *Journal of pediatric ophthalmology and strabismus*  
Kinori, M. n., Ko, A. C., Alameddine, R. M., Snyder, V. n., Lin, J. H., Korn, B. S., Granet, D. B.  
2016; 53 (4): 256
- **In Vivo Visualization of Endoplasmic Reticulum Stress in the Retina Using the ERAI Reporter Mouse.** *Investigative ophthalmology & visual science*  
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- **The loss of glucose-regulated protein 78 (GRP78) during normal aging or from siRNA knockdown augments human alpha-synuclein (#-syn) toxicity to rat nigral neurons.** *Neurobiology of aging*  
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- **Transcriptome sequencing uncovers novel long noncoding and small nucleolar RNAs dysregulated in head and neck squamous cell carcinoma.** *RNA (New York, N.Y.)*  
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2015; 21 (6): 1122–34
- **Robust Endoplasmic Reticulum-Associated Degradation of Rhodopsin Precedes Retinal Degeneration.** *Molecular neurobiology*  
Chiang, W. C., Kroeger, H. n., Sakami, S. n., Messah, C. n., Yasumura, D. n., Matthes, M. T., Coppinger, J. A., Palczewski, K. n., LaVail, M. M., Lin, J. H.  
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- **The unfolded protein response is shaped by the NMD pathway.** *EMBO reports*  
Karam, R. n., Lou, C. H., Kroeger, H. n., Huang, L. n., Lin, J. H., Wilkinson, M. F.  
2015; 16 (5): 599–609
- **Multiple Mechanisms of Unfolded Protein Response-Induced Cell Death.** *The American journal of pathology*  
Hiramatsu, N. n., Chiang, W. C., Kurt, T. D., Sigurdson, C. J., Lin, J. H.  
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- **Mutations in the unfolded protein response regulator ATF6 cause the cone dysfunction disorder achromatopsia.** *Nature genetics*  
Kohl, S. n., Zobor, D. n., Chiang, W. C., Weisschuh, N. n., Staller, J. n., Gonzalez Menendez, I. n., Chang, S. n., Beck, S. C., Garcia Garrido, M. n., Sothilingam, V. n., Seeliger, M. W., Stanzial, F. n., Benedicenti, et al  
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- **Cysticercosis with an Orbital Tropism in Twins.** *The American journal of tropical medicine and hygiene*  
Lee, B. W., Kumar, U. R., Lin, J. H., Amaro, D. E., Kikkawa, D. O., Alameddine, R. M., Lowe, M. C., Hilger, P. A., Vinetz, J. M., Korn, B. S.  
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- **p16INK4A expression is frequently increased in periorbital and ocular squamous lesions.** *Diagnostic pathology*  
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Hiramatsu, N. n., Messah, C. n., Han, J. n., LaVail, M. M., Kaufman, R. J., Lin, J. H.  
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- **WNT7A and PAX6 define corneal epithelium homeostasis and pathogenesis.** *Nature*  
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- **General pathophysiology in retinal degeneration.** *Developments in ophthalmology*  
Wert, K. J., Lin, J. H., Tsang, S. H.

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- **Lymphocyte infiltration in CAPN5 autosomal dominant neovascular inflammatory vitreoretinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*  
Mahajan, V. B., Lin, J. H.  
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- **IRE1 directs proteasomal and lysosomal degradation of misfolded rhodopsin.** *Molecular biology of the cell*  
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- **Genetic Pathways in Retinal Degenerations and Targets for Therapy** *Genetic Diseases of the Eye*  
Leung, L. B., Voleti, V. B., Lin, J. H., Tsang, S. H.  
2012
- **Glucose regulated protein 78 diminishes  $\alpha$ -synuclein neurotoxicity in a rat model of Parkinson disease.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Gorbatyuk, M. S., Shabashvili, A. n., Chen, W. n., Meyers, C. n., Sullivan, L. F., Salganik, M. n., Lin, J. H., Lewin, A. S., Muzyczka, N. n., Gorbatyuk, O. S.  
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Shinde, V. M., Sizova, O. S., Lin, J. H., LaVail, M. M., Gorbatyuk, M. S.  
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