



## 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, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- 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

Soyoung Park

## Publications

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### PUBLICATIONS

- **Bilateral hemorrhagic occlusive retinal vasculitis and panuveitis following intravitreal faricimab injection: A clinicopathologic case study.** *American journal of ophthalmology case reports*  
Yavari, N., Gupta, A. S., Mitsios, A., Hung, J. H., El-Feky, D., Nguyen, C. D., Yasar, C., Anover, F. A., Saengsirinavin, A. O., Mobasserian, A., Akhavanrezayat, A., Elaraby, O., Zhang, et al  
2026; 41: 102532
- **Histologic and Morphometric Comparison of Drusen Associated With Chronic Retinal Detachment and Aging-Associated Drusen.** *Translational vision science & technology*  
Nisanova, A., Lin, J. H., Frauches, R. L., Estrada, M., Nelson, A. J.  
2026; 15 (1): 32
- **Proteomic profile of faricimab-associated occlusive retinal vasculitis.** *Eye (London, England)*  
Hung, J. H., Iyer, I., Thng, Z. X., Shows, N., Yavari, N., Mitsios, A., Powers, C. A., Leib, R., Liu, F., Lazo, J. P., Gupta, A. S., El Feky, D., Than, et al  
2025
- **Uveal Melanocytoma without GNAQ/GNA11 Mutations.** *Ocular oncology and pathology*  
Kazmer, S. T., Frauches, R., Galang, C., Bishay, M., Minckler, D. S., Mruthyunjaya, P., Lin, J. H.  
2025; 11 (4): 260-266
- **Uveal Melanocytoma without GNAQ/GNA11 Mutations** *OCULAR ONCOLOGY AND PATHOLOGY*  
Kazmer, S. T., Frauches, R., Galang, C., Bishay, M., Minckler, D. S., Mruthyunjaya, P., Lin, J. H.  
2025
- **Conjunctival histopathological changes associated with netarsudil 0.02.** *Eye (London, England)*  
Sun, M. T., Charoenkijajorn, C., Lin, J. H., Minckler, D. S., Singh, K.  
2025
- **Targeting ATF6 reduces pathological neovascularization and improves visual outcomes in retinal disease models.** *Scientific reports*  
Bradley, A., Park, S., Park, S., Kim, K., Galdamez, A., Min, H., Diaz-Aguilar, M. S., Hartnett, M. E., Lee, E. J., Lin, J. H.  
2025; 15 (1): 33070
- **Corneally displaced conjunctival Melanoma: Rare presentations of recurrent melanoma.** *American journal of ophthalmology case reports*  
Lee, E. B., Al-Moujahed, A., Yu, M. D., Ta, C. N., Lin, J. H., Mruthyunjaya, P.  
2025; 39: 102387
- **Transcriptomic Profiling of Small Molecule Atf6 Modulators in the Retina.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Diaz-Aguilar, M. S., Galdamez, A., Chea, L., Le, M., Park, S., Min, H., Lee, E. J., Lin, J. H.  
2025; 39 (16): e70940
- **A Unique Case of Pediatric Orbital Nodular Fasciitis with a Confirmed USP6 Fusion Mutation.** *Ophthalmic plastic and reconstructive surgery*  
Frauches, R. L., Roozdar, P., Lin, J. H., Homer, N. A.  
2025
- **Machine Learning Detection, Classification, and Quantification of Rosettes for Retinoblastoma Tumor Grading and Clinical Prognosis**  
Mitsios, A., Nirschl, J., Frauches, R., Zuraski, C., Lin, J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Uveal melanoma following Bruton's tyrosine inhibitor use for the treatment of hematologic malignancies.** *American journal of ophthalmology case reports*  
Murty, T., Lin, J. H., Mruthyunjaya, P.  
2025; 38: 102345
- **Dysregulation of Retinal and Photoreceptor Structural Integrity Genes in ATF6-/- Retinal Organoids.** *Advances in experimental medicine and biology*  
Bradley, A., Le, M., Park, S., Kroeger, H., Wiseman, R. L., Lee, E. J., Lin, J. H.

2025; 1468: 401-407

- **Vulnerability of the Nrl-/- Cone-Dominant Retina to Endoplasmic Reticulum Stress.** *Advances in experimental medicine and biology*  
Galdamez, A., Le, M., Chiang, W. J., Lee, E. J., Lin, J. H.  
2025; 1468: 319-324
- **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
- **Conjunctival blue nevus in a child - Case report and review of literature.** *American journal of ophthalmology case reports*  
Yahya, Y., Nangia, P., Ahmad, H., Frauches, R. L., Lin, J. H., Mruthyunjaya, P.  
2024; 36: 102151
- **Mutations in unfolded protein response regulator ATF6 cause hearing and vision loss syndrome.** *The Journal of clinical investigation*  
Lee, E. J., Kim, K., Diaz-Aguilar, M. S., Min, H., Chavez, E., Steinbergs, K. J., Safarta, L. A., Zhang, G., Ryan, A. F., Lin, J. H.  
2024
- **Ocular Surface Fibroma of the Bulbar Conjunctiva.** *Ophthalmology*  
Frauches, R., Lin, J.  
2024
- **Ethnic Variation and Structure-Function Analysis of Tauopathy-Associated PERK Alleles** *ISRAEL JOURNAL OF CHEMISTRY*  
Park, G., Galdamez, A., Song, K., Le, M., Kim, K., Lin, J. H.  
2024
- **The endoplasmic reticulum: Homeostasis and crosstalk in retinal health and disease.** *Progress in retinal and eye research*  
Zhang, S. X., Wang, J. J., Starr, C. R., Lee, E. J., Park, S., Zhylybayev, A., Medina, A., Lin, J. H., Gorbatyuk, M.  
2023: 101231
- **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)
- **Validation study on the use of digital image analysis software for quantifying IgG4, IgG or CD138, and IgG4/IgG for diagnosing IgG4 Related Disease**  
Gill, H., Shi, W., Glory, B., Charoenkijajorn, C., Lin, J.  
ELSEVIER SCIENCE INC.2023: S1292-S1293
- **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.  
2022
- **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.  
2022; 8 (2): 133-140
- **A Digital Morphometric Comparison of Nucleolar Features in BAP1-Mutant versus BAP1-Wildtype Uveal Melanomas**  
Dryden, I., Steinbergs, K., Lin, J.  
SPRINGER NATURE.2022: 1190
- **A Digital Morphometric Comparison of Nucleolar Features in BAP1-Mutant versus BAP1-Wildtype Uveal Melanomas**  
Dryden, I., Steinbergs, K., Lin, J.  
SPRINGER NATURE.2022: 1190
- **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.  
2022
- **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  
2021; 118 (39)
- **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.  
2021; 11 (1): 16356
- **ARCAM-1 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.  
2021; 21: 100369
- **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.

OXFORD UNIV PRESS INC.2020: 681–82

● **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.  
OXFORD UNIV PRESS INC.2020: 677

● **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  
2020; 5 (7)

● **PREVALENCE OF MISMATCH REPAIR GENE MUTATIONS IN UVEAL MELANOMA. *Retina (Philadelphia, Pa.)***

Toomey, C. B., Protosaltis, 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.  
2020

● **p16 Expression Correlates with Invasive Ocular Surface Squamous Neoplasms in HIV-Infected Mozambicans. *Ocular oncology and pathology***

Carrilho, C. n., Miu, C. n., Kim, Y. n., Karki, S. n., Balmaceda, A. n., Challa, B. n., Diamond, S. n., Monteiro, E. n., Marole, E. n., Lorenzoni, C. n., Zambujo, Y. n., Liu, Y. T., Schooley, et al  
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.  
2020; 14: 607711

● **IRE1 $\alpha$  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.  
2020; 18 (6): e3000687

● **IRE1 $\alpha$  and IGF signaling predict resistance to an endoplasmic reticulum stress-inducing drug in glioblastoma cells. *Scientific reports***

Rodvold, J. J., Xian, S. n., Nussbacher, J. n., Tsui, B. n., Cameron Waller, T. n., Searles, S. C., Lew, A. n., Jiang, P. n., Babic, I. n., Nomura, N. n., Lin, J. H., Kesari, S. n., Carter, et al  
2020; 10 (1): 8348

● **Radiation-Induced Hyalinizing Clear Cell Carcinoma of the Orbit. *Ophthalmic plastic and reconstructive surgery***

Topping, K. L., Ortiz, A. n., Lin, J. H., Kossler, A. L.  
2020

● **Reticular pseudodrusen in late-onset retinal degeneration. *Ophthalmology. Retina***

Borooah, S. n., Papastavrou, V. n., Lando, L. n., Han, J. n., Lin, J. H., Ayyagari, R. n., Dhillon, B. n., Browning, A. C.  
2020

● **Metastasis of Lung Adenocarcinoma to the Lacrimal Sac. *Ophthalmic plastic and reconstructive surgery***

Eng, V. A., Lin, J. H., Mruthyunjaya, 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*  
Chiang, W. J., Kroeger, H. n., Chea, L. n., Lin, J. H.  
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.  
2019; 5 (4): 267–72
- **Prion Seeds Distribute throughout the Eyes of Sporadic Creutzfeldt-Jakob Disease Patients.** *mBio*  
Orrù, C. D., Soldau, K. n., Cordano, 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*  
Kroeger, H. n., Grimsey, N. n., Paxman, R. n., Chiang, W. C., Plate, L. n., Jones, Y. n., Shaw, P. X., Trejo, J. n., Tsang, S. H., Powers, E. n., Kelly, J. W., Wiseman, R. L., Lin, et al  
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.  
2018; 27 (22): 3951–63
- **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., Jarmuż-Szymczak, M. n., Kostrzewska-Poczekaj, M. n., Jamsheer, A. n., Płoski, 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., Krawczyński, M. R., Kaufman, R. J., Tsang, S. H., Héon, E. n., Kohl, S. n., Lin, J. H.  
2017; 114 (2): 400–405
- **Genetic analysis of 10 pedigrees with inherited retinal degeneration by exome sequencing and phenotype-genotype association.** *Physiological genomics*

- Biswas, P. n., Duncan, J. L., Maranhao, B. n., Kozak, I. n., Branham, K. n., Gabriel, L. n., Lin, J. H., Barteselli, G. n., Navani, M. n., Suk, J. n., Parke, M. n., Schlechter, C. n., Weleber, et al  
2017; 49 (4): 216–29
- **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.  
2017; 10 (482)
  - **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*  
Godfrey, K. J., Kinori, M. n., Lin, J. H., Snyder, V. S., Granet, D. B., Heichel, C. W., Robbins, S. L.  
2016; 20 (5): 462–64
  - **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*  
Chiang, W. C., Joseph, V. n., Yasumura, D. n., Matthes, M. T., Lewin, A. S., Gorbatyuk, M. S., Ahern, K. n., LaVail, M. M., Lin, J. H.  
2016; 854: 185–91
  - **iPSC-Derived Retinal Pigment Epithelium Allografts Do Not Elicit Detrimental Effects in Rats: A Follow-Up Study.** *Stem cells international*  
Westenskow, P. D., Bucher, F. n., Bravo, S. n., Kurihara, T. n., Fettelberg, D. n., Paris, L. P., Aguilar, E. n., Lin, J. H., Friedlander, M. n.  
2016; 2016: 8470263
  - **Endoplasmic reticulum stress in human photoreceptor diseases.** *Brain research*  
Chan, P. n., Stolz, J. n., Kohl, S. n., Chiang, W. C., Lin, J. H.  
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*  
Alavi, M. V., Chiang, W. C., Kroeger, H. n., Yasumura, D. n., Matthes, M. T., Iwawaki, T. n., LaVail, M. M., Gould, D. B., Lin, J. H.  
2015; 56 (11): 6961–70
  - **The loss of glucose-regulated protein 78 (GRP78) during normal aging or from siRNA knockdown augments human alpha-synuclein ( $\alpha$ -syn) toxicity to rat nigral neurons.** *Neurobiology of aging*  
Salganik, M. n., Sergeev, V. G., Shinde, V. n., Meyers, C. A., Gorbatyuk, M. S., Lin, J. H., Zolotukhin, S. n., Gorbatyuk, O. S.  
2015; 36 (6): 2213–23
  - **Transcriptome sequencing uncovers novel long noncoding and small nucleolar RNAs dysregulated in head and neck squamous cell carcinoma.** *RNA (New York, N.Y.)*  
Zou, A. E., Ku, J. n., Honda, T. K., Yu, V. n., Kuo, S. Z., Zheng, H. n., Xuan, Y. n., Saad, M. A., Hinton, A. n., Brumund, K. T., Lin, J. H., Wang-Rodriguez, J. n., Ongkeko, et al  
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.

2015; 52 (1): 679–95

- **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.  
2015; 185 (7): 1800–1808
- **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  
2015; 47 (7): 757–65
- **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.  
2015; 93 (4): 828–30
- **p16INK4A expression is frequently increased in periorbital and ocular squamous lesions.** *Diagnostic pathology*  
Kobalka, P. J., Abboud, J. P., Liao, X. n., Jones, K. n., Lee, B. W., Korn, B. S., Kikkawa, D. O., Lin, J. H.  
2015; 10: 175
- **Orbital Granulomatosis With Polyangiitis (Wegener Granulomatosis) Clinical and Pathologic Findings** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*  
Muller, K., Lin, J. H.  
2014; 138 (8): 1110–14
- **Translational and posttranslational regulation of XIAP by eIF2 $\alpha$  and ATF4 promotes ER stress-induced cell death during the unfolded protein response.** *Molecular biology of the cell*  
Hiramatsu, N. n., Messah, C. n., Han, J. n., LaVail, M. M., Kaufman, R. J., Lin, J. H.  
2014; 25 (9): 1411–20
- **WNT7A and PAX6 define corneal epithelium homeostasis and pathogenesis.** *Nature*  
Ouyang, H. n., Xue, Y. n., Lin, Y. n., Zhang, X. n., Xi, L. n., Patel, S. n., Cai, H. n., Luo, J. n., Zhang, M. n., Zhang, M. n., Yang, Y. n., Li, G. n., Li, et al  
2014; 511 (7509): 358–61
- **De novo prion aggregates trigger autophagy in skeletal muscle.** *Journal of virology*  
Joshi-Barr, S. n., Bett, C. n., Chiang, W. C., Trejo, M. n., Goebel, H. H., Sikorska, B. n., Liberski, P. n., Raeber, A. n., Lin, J. H., Masliah, E. n., Sigurdson, C. J.  
2014; 88 (4): 2071–82
- **Endoplasmic reticulum stress in vertebrate mutant rhodopsin models of retinal degeneration.** *Advances in experimental medicine and biology*  
Kroeger, H. n., LaVail, M. M., Lin, J. H.  
2014; 801: 585–92
- **General pathophysiology in retinal degeneration.** *Developments in ophthalmology*  
Wert, K. J., Lin, J. H., Tsang, S. H.  
2014; 53: 33–43
- **Lymphocyte infiltration in CAPN5 autosomal dominant neovascular inflammatory vitreoretinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*  
Mahajan, V. B., Lin, J. H.  
2013; 7: 1339–45
- **IRE1 directs proteasomal and lysosomal degradation of misfolded rhodopsin.** *Molecular biology of the cell*  
Chiang, W. C., Messah, C. n., Lin, J. H.  
2012; 23 (5): 758–70
- **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.  
2012; 20 (7): 1327–37
- **Functional rescue of P23H rhodopsin photoreceptors by gene delivery.** *Advances in experimental medicine and biology*  
Gorbatyuk, M. S., Gorbatyuk, O. S., LaVail, M. M., Lin, J. H., Hauswirth, W. W., Lewin, A. S.  
2012; 723: 191–97
- **ER stress in retinal degeneration in S334ter Rho rats.** *PloS one*  
Shinde, V. M., Sizova, O. S., Lin, J. H., LaVail, M. M., Gorbatyuk, M. S.  
2012; 7 (3): e33266
- **Induction of endoplasmic reticulum stress genes, BiP and chop, in genetic and environmental models of retinal degeneration.** *Investigative ophthalmology & visual science*  
Kroeger, H. n., Messah, C. n., Ahern, K. n., Gee, J. n., Joseph, V. n., Matthes, M. T., Yasumura, D. n., Gorbatyuk, M. S., Chiang, W. C., LaVail, M. M., Lin, J. H.  
2012; 53 (12): 7590–99
- **Selective activation of ATF6 and PERK endoplasmic reticulum stress signaling pathways prevent mutant rhodopsin accumulation.** *Investigative ophthalmology & visual science*  
Chiang, W. C., Hiramatsu, N. n., Messah, C. n., Kroeger, H. n., Lin, J. H.  
2012; 53 (11): 7159–66
- **Endoplasmic reticulum-associated degradation (ERAD) of misfolded glycoproteins and mutant P23H rhodopsin in photoreceptor cells.** *Advances in experimental medicine and biology*  
Kroeger, H. n., Chiang, W. C., Lin, J. H.  
2012; 723: 559–65
- **The unfolded protein response is a major mechanism by which LRP1 regulates Schwann cell survival after injury.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Mantuano, E. n., Henry, K. n., Yamauchi, T. n., Hiramatsu, N. n., Yamauchi, K. n., Orita, S. n., Takahashi, K. n., Lin, J. H., Gonias, S. L., Campana, W. M.  
2011; 31 (38): 13376–85
- **Rescue of photoreceptor degeneration by curcumin in transgenic rats with P23H rhodopsin mutation.** *PloS one*  
Vasireddy, V. n., Chavali, V. R., Joseph, V. T., Kadam, R. n., Lin, J. H., Jamison, J. A., Kompella, U. B., Reddy, G. B., Ayyagari, R. n.  
2011; 6 (6): e21193
- **Monitoring and manipulating mammalian unfolded protein response.** *Methods in enzymology*  
Hiramatsu, N. n., Joseph, V. T., Lin, J. H.  
2011; 491: 183–98
- **Restoration of visual function in P23H rhodopsin transgenic rats by gene delivery of BiP/Grp78.** *Proceedings of the National Academy of Sciences of the United States of America*  
Gorbatyuk, M. S., Knox, T. n., LaVail, M. M., Gorbatyuk, O. S., Noorwez, S. M., Hauswirth, W. W., Lin, J. H., Muzyczka, N. n., Lewin, A. S.  
2010; 107 (13): 5961–66
- **Misfolded proteins and retinal dystrophies.** *Advances in experimental medicine and biology*  
Lin, J. H., Lavail, M. M.  
2010; 664: 115–21
- **Divergent effects of PERK and IRE1 signaling on cell viability.** *PloS one*  
Lin, J. H., Li, H. n., Zhang, Y. n., Ron, D. n., Walter, P. n.  
2009; 4 (1): e4170
- **Regulated Ire1-dependent decay of messenger RNAs in mammalian cells.** *The Journal of cell biology*  
Hollien, J. n., Lin, J. H., Li, H. n., Stevens, N. n., Walter, P. n., Weissman, J. S.  
2009; 186 (3): 323–31

- **BAX inhibitor-1 is a negative regulator of the ER stress sensor IRE1alpha.** *Molecular cell*  
Lisbona, F. n., Rojas-Rivera, D. n., Thielen, P. n., Zamorano, S. n., Todd, D. n., Martinon, F. n., Glavic, A. n., Kress, C. n., Lin, J. H., Walter, P. n., Reed, J. C., Glimcher, L. H., Hetz, et al  
2009; 33 (6): 679–91
- **Endoplasmic reticulum stress in disease pathogenesis.** *Annual review of pathology*  
Lin, J. H., Walter, P. n., Yen, T. S.  
2008; 3: 399–425
- **IRE1 signaling affects cell fate during the unfolded protein response.** *Science (New York, N.Y.)*  
Lin, J. H., Li, H. n., Yasumura, D. n., Cohen, H. R., Zhang, C. n., Panning, B. n., Shokat, K. M., Lavail, M. M., Walter, P. n.  
2007; 318 (5852): 944–49
- **ETS gene Er81 controls the formation of functional connections between group Ia sensory afferents and motor neurons.** *Cell*  
Arber, S. n., Ladle, D. R., Lin, J. H., Frank, E. n., Jessell, T. M.  
2000; 101 (5): 485–98
- **Functionally related motor neuron pool and muscle sensory afferent subtypes defined by coordinate ETS gene expression.** *Cell*  
Lin, J. H., Saito, T. n., Anderson, D. J., Lance-Jones, C. n., Jessell, T. M., Arber, S. n.  
1998; 95 (3): 393–407
- **Glomovenous Malformation: A Rare Periorbital Lesion of the Thermoregulatory Apparatus.** *Ophthalmic plastic and reconstructive surgery*  
Whipple, K. M., Godfrey, K. J., Solomon, J. P., Lin, J. H., Korn, B. S., Kikkawa, D. O.  
; 33 (2): e36–e37
- **Bilateral squamous cell carcinoma of the lacrimal sac.** *Ophthalmic plastic and reconstructive surgery*  
Hodgson, N. n., Whipple, K. n., Lin, J. H., Brumund, K. T., Kikkawa, D. O., Korn, B. S.  
; 29 (6): e149–51