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Professor of Pathology and of Ophthalmology

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

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

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Soyoung Park

Publications

PUBLICATIONS

- **Novel ATF6 luminal domain variant in Achromatopsia.** *Ophthalmic genetics*
Temme, W., Lee, E. J., Tsang, S. H., Hartnett, M. E., Peng, C. H., Lin, J. H.
2026: 1-5
- **Improving Intraocular Biopsy Processing Protocols to Enhance Pathology Evaluation of Ocular Diseases**
Galang, C., Frauches, R., Nicholas, V., Gratzinger, D., Kong, C., Lin, J.
ELSEVIER SCIENCE INC.2026
- **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., Charoenkijakorn, 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.
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- **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.
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- **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., Zhylkibayev, 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.
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- **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.
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- **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.

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- **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.
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- **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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- **A Novel ATF6-Achromatopsia Allele Regulated by Nonsense-Mediated mRNA Decay**
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- **Preferentially Expressed Antigen in Melanoma Immunohistochemistry Labeling in Uveal Melanomas.** *Ocular oncology and pathology*
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- **A Digital Morphometric Comparison of Nucleolar Features in BAP1-Mutant versus BAP1-Wildtype Uveal Melanomas**
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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., Bakhom, M. F., Thorson, J. A., Ediriwickrema, L. S., Korn, B. S., Kikkawa, D. O., Goldbaum, M. H., Lin, J. H.
2020
- **Reticular pseudodrusen in late-onset retinal degeneration.** *Ophthalmology. Retina*
Borooh, 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
- **IRE1 α 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 α 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*
Topping, K. L., Ortiz, A. n., Lin, J. H., Kossler, A. L.
2020
- **Reticular pseudodrusen in late-onset retinal degeneration.** *Ophthalmology. Retina*
Borooh, 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)*
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2019; 38 (6): 492–94
- **Characterization of Retinal Structure in ATF6-Associated Achromatopsia.** *Investigative ophthalmology & visual science*
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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*
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- **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

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- **Achromatopsia mutations target sequential steps of ATF6 activation.** *Proceedings of the National Academy of Sciences of the United States of America*
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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.
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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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2016; 2016: 8470263
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Chan, P. n., Stolz, J. n., Kohl, S. n., Chiang, W. C., Lin, J. H.
2016; 1648 (Pt B): 538–41
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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.
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Salganik, M. n., Sergeev, V. G., Shinde, V. n., Meyers, C. A., Gorbatyuk, M. S., Lin, J. H., Zolotukhin, S. n., Gorbatyuk, O. S.
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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
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