

UNIVERSITY OF CALIFORNIA, LOS ANGELES
DEPARTMENT OF OPHTHALMOLOGY

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Alió Del Barrio JL, Chung DD, Al-Shymali O, Barrington A, Jatavallabhula K, Swamy VS, Yébana P, Angélica Henríquez-Recine M, Boto-de-Los-Bueis A, Alió JL, Aldave AJ. **Punctiform and polychromatic pre-descemet corneal dystrophy: Clinical evaluation and identification of the genetic basis.** Am J Ophthalmol. 2020 Apr;212:88-97. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea

Bonnet, C, Ghaffari, R, Alkadi, T, Law, S, Caprioli, J, Yu, F, Deng, S. **Long-term outcomes of descemet membrane endothelial keratoplasty in eyes with prior glaucoma surgery.** Am J Ophthalmol. 2020 Oct;218:288-295. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Clark RA, Demer JL. **The effect of axial length on extraocular muscle leverage.** Am J Ophthalmol. 2020 Aug;216:186-192. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Glaucoma; Neuro-ophthalmology

Demer JL, Clark RA. **Functional anatomy of muscle mechanisms. Compensating vertical heterophoria.** Am J Ophthalmol. 2020 Sep 9;S0002-9394(20)30492. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Strabismus/Amblyopia/Eye Movement Disorders

Goseki T, Suh SY, Robbins L, Pineles SL, Velez FG, Demer JL. **Prevalence of sagging eye syndrome in adults with binocular diplopia.** Am J Ophthalmol. 2020 Jan;209:55-61. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Strabismus/Amblyopia/Eye Movement Disorders

Iovino C, Au A, Chhablani J, Parameswarappa DC, Rasheed MA, Cennamo G, Cennamo G, Montorio D, Ho AC, Xu D, Querques G, Borrelli E, Sacconi R, Pichi F, Woodstock E, Sadda SR, Corradetti G, Boon CJF, van Dijk EHC, Loewenstein A, Zur D, Yoshimi S, Bailey Freund K, Peiretti E, Sarraf D. **Choroidal anatomical alterations following photodynamic therapy for chronic central serous chorioretinopathy: A multicenter study.** Am J Ophthalmol. 2020 Sep;217:104-113. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/Retinal Diseases

Kothari, N, Chu, A, Huang, JM, Lin, F, Lin BR, Manoharan, N, Gui, W, Huang, AS, and Tsui, I. **Arm-mounted optical coherence tomography angiography in extremely low birth weight neonates with retinopathy of prematurity.** Am J. Ophthalmol Case Rep. 2020 Jun;18:100624. (Univ. of California, Los Angeles -- Unres. Grant) Keyword(s): Glaucoma

Le A, Chen J, Lesgart M, Gawargious BA, Suh SY, Demer JL. **Age-dependent deformation of the optic nerve head and peripapillary retina by horizontal duction.** Am J Ophthalmol. 2020 Jan;209:107-116. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Glaucoma; Neuro-ophthalmology

Liang, Q, Le, Q, Cordova, D, Tseng, C, Deng, S, **Corneal epithelial thickness measured using AS-OCT as a diagnostic parameter for limbal stem cell deficiency.** Am J Ophthalmol. 2020 Aug;216:132-139. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea; Stem cell Research/Therapy

Margines JB, Huang C, Young A, Mehravaran S, Yu F, Mondino BJ, Coleman AL. **Refractive errors and amblyopia among children screened by the UCLA preschool vision program in Los Angeles County.** Am J Ophthalmol. 2020 Feb; 210:78–85. (Univ. of California, Los Angeles – Unres. grant) Keyword(s): Other (Amblyopia); Pediatric

Wang YX, Yang H, Luo H, Hong SW, Gardiner SK, Jeoung JW, Hardin C, Sharpe GP, Nouri-Mahdavi K, Caprioli J, Demirel S, Girkin CA, Liebmann JM, Mardin CY, Quigley HA, Scheuerle AF, Fortune B, Chauhan BC, Burgoyne CF. **Peripapillary scleral bowing increases with age and is inversely associated with peripapillary choroidal thickness in healthy eyes.** Am J Ophthalmol. 2020 Sep;217:91-103. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma. RPB support has been inadvertently omitted by grantee institution.

Wang H, Jung J, Lin SR et al. **Safety and efficacy of colored iris reconstruction lens implantation.** Am J Ophthalmol 2020 Aug; 216:174-185. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Lens Implantation). RPB support has been inadvertently omitted by grantee institution.

INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE

Au A, Hilely A, Scharf J, Gunnemann F, Wang D, Chehaibou I, Iovino C, Grondin C, Farecki ML, Falavarjani KG, Phasukkijwatana N, Battista M, Borrelli E, Sacconi R, Powell B, Hom G, Greenlee TE, Conti TF, Ledesma-Gil G, Teke MY, Choudhry N, Fung AT, Krivosic V, Baek J, Lee MY, Sugiura Y, Querques G, Peiretti E, Rosen R, Lee WK, Yannuzzi LA, Zur D, Loewenstein A, Pauleikhoff D, Singh R, Modi Y, Hubschman JP, Ip M, Sadda S, Freund KB, Sarraf D. **Relationship between nerve fiber layer hemorrhages and outcomes in central retinal vein occlusion.** Invest Ophthalmol Vis Sci. 2020 May 11;61(5):54. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/ Retinal Diseases

Bonilha, VL, Bell, BA, Hu, J, Milliner, C, Pauer, GJ, Hagstrom, SA, Radu, RA, and Hollyfield, JG. **Geographic atrophy: Confocal scanning laser ophthalmoscopy, histology, and inflammation in the region of expanding lesions.** Invest. Ophthalmol. Vis. Sci. 2020; 5 Jul 1;61(8):15. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Age-Related Macular Degeneration)

Chen JY, Le A, Caprioli J, Giaconi JA, Nouri-Mahdavi K, Law SK, Bonelli L, Coleman AL, Demer JL. **Orbital fat volume after treatment with topical prostaglandin agonists.** Invest Ophthalmol Vis Sci. 2020 May 11;61(5):46. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Glaucoma; Neuro-ophthalmology. RPB support has been inadvertently omitted by grantee institution.

Chen NS, Ingram NT, Frederiksen R, Sampath AP, Chen J, Fain GL. **Diminished cone sensitivity in cpfl3 mice is caused by defective transducin signaling.** Invest Ophthalmol Vis Sci. 2020 Apr 9;61(4):26. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/Retinal Diseases

Scharf JM, Hilely A, Preti RC, Grondin C, Chehaibou I, Greaves G, Tran K, Wang D, Ip MS, Hubschman JP, Gaudric A, Sarraf D. **Hyperreflective stress lines and macular holes.** Invest Ophthalmol Vis Sci. 2020 Apr 9;61(4):50. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/ Retinal Diseases, Other (Imaging)

Scharf JM, Corradetti G, Alagorie AR, Grondin C, Hilely A, Wang D, Sadda S, Sarraf D. **Choriocapillaris flow deficits and treatment-naïve macular neovascularization secondary to age-related macular degeneration.** Invest Ophthalmol Vis Sci. 2020 Sep 1;61(11):11. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Age-Related Macular Degeneration)

Sun M, Wadehra M, Casero D, Lin MC, Aguirre B, Parikh S, Matynia A, **Gordon L**, Chu A. **Epithelial membrane protein 2 (EMP2) promotes VEGF-induced pathological neovascularization in murine oxygen-induced retinopathy.** Invest Ophthalmol Vis Sci. 2020 Feb 7;61(2):3. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Retina/Retinal Diseases

Zhang W, Frausto R, Chung DD, Griffis CG, Kao L, Chen A, Azimov R, Sampath AP, Kurtz I, Aldave AJ. **Energy shortage in human and mouse models of SLC4A11-associated corneal endothelial dystrophies.** Invest Ophthalmol Vis Sci. 2020 Jul 1;61(8):39. (Univ. of California, Los Angeles – Unres. grant) Keyword(s): Cornea

JAMA OPHTHALMOLOGY

Le, Q, Chauhan, T, Yung, M, Tseng, C, Deng, S, **Outcomes of limbal stem cell transplant: A meta-analysis.** JAMA Ophthalmol. 2020 Jun 1;138(6):660-670 (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem Cell Research/Therapy

Runhart EH, Khan M, Cornelis SS, Roosing S, Pozo-Valero MD, Lamey TM, Liskova P, Roberts L, Stohr H, Klaver CCW, Hoyng CB, Cremers FPM, Dhaenens CM, ABCA4 Disease Consortium Study Group. **Association of sex with frequent and mild ABCA4 alleles in stargardt disease.** JAMA Ophthalmol. 2020 Oct 1;138(10):1035-1042. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Gene Research/Therapy, Retina/Retinal Diseases

Salazar D, Morales E, Rabiolo A, Capistrano V, Lin M, Afifi AA, Yu F, Nouri-Mahdavi K, Caprioli J. **Pointwise methods to measure long-term visual field progression in glaucoma.** JAMA Ophthalmol. 2020 May 1;138(5):536-543. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

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Mohammadzadeh V, Rabiolo A, Fu Q, Morales E, Coleman AL, Law SK, Caprioli J, Nouri-Mahdavi K. **Longitudinal macular structure-function relationships in glaucoma.** Ophthalmology. 2020 Jul;127(7):888-900. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Rabiolo A, Morales E, Kim JH, Afifi AA, Yu F, Nouri-Mahdavi K, Caprioli J. **Predictors of long-term visual field fluctuation in glaucoma patients.** Ophthalmology. 2020 Jun;127(6):739-747. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

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Tsui E, Rao RC, Carey AR, Feng MT, Provencher LM. **Using social media to disseminate ophthalmic information during the #COVID19 pandemic.** Ophthalmology. 2020 Sep;127(9):e75-e78. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Other (COVID-19)

OTHER PROFESSIONAL PUBLICATIONS - UNITED STATES

Akiyama G, Saraswathy S, Bogarin T, Pan X, Barron E, Wong TT, Kaneko MK, Kato Y, Hong Y, Huang AS. **Functional, structural, and molecular identification of lymphatic outflow from subconjunctival blebs.** Exp Eye Res 2020 Jul; 196:108049. (Univ. of California, Los Angeles -- Career Development Awd and Unres. Grant) Keyword(s): Glaucoma

Boere PM, Bonnet C, Frausto RF, Fung SSM, Aldave AJ. **Multimodal imaging of pre-descemet corneal dystrophy associated with x-linked ichthyosis and deletion of the STS gene.** Cornea. 2020 Nov;39(11):1442-1445. (Univ. of California, Los Angeles – Unres. grant) Keyword(s): Cornea

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Deng SX, Kruse F, Gomes JAP, Chan CC, Daya S, Dana R, Figueiredo FC, Kinoshita S, Rama P, Sangwan V, Slomovic AR, Tan D, International Limbal Stem Cell Deficiency Working Group. **Global consensus on the management of limbal stem cell deficiency.** Cornea. 2020 Oct;39(10):1291-1302. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem cell Research/Therapy. RPB support has been inadvertently omitted by grantee institution.

Dow ER, Yung M, Tsui E. **Immune checkpoint inhibitor-associated uveitis: Review of treatments and outcomes.** Ocul Immunol Inflamm. 2020 Aug 20:1-9 (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Uveitis

Ellis EM, Frederiksen R, Morshedean A, Fain GL, Sampath AP. **Separate ON and OFF pathways in vertebrate vision first arose during the Cambrian.** Curr Biol. 2020 Jun 8;30(11):R633-R634. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/Retinal Diseases

Etheridge T, Arena ET, Wiedenmann M, Papudesu C, Scott IU, Ip MS, Eliceiri KW, Blodi BA, Domalpally A. **A semi-automated machine-learning based workflow for ellipsoid zone analysis in eyes with macular edema: SCORE 2 pilot study.** PLoS One. 2020 Apr 30;15(4):e0232494. (Univ. of California, Los Angeles – Unres. grant) Keyword(s): Other (Macula Edema). RPB support has been inadvertently omitted by grantee institution.

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Frausto RF, Swamy VS, Peh GSL, Boere PM, Hanser EM, Chung DD, George BL, Morselli M, Kao L, Azimov R, Wu J, Pellegrini M, Kurtz I, Mehta JS, Aldave AJ. **Phenotypic and functional characterization of corneal endothelial cells during in vitro expansion.** Sci Rep. 2020 May 4;10(1):7402. (Univ. of California, Los Angeles – Unres. grant) Keyword(s): Cornea

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González S, Halabi M, Ju D, Tsai M, Deng SX. **Role of jagged1-mediated notch signaling activation in the differentiation and stratification of the human limbal epithelium.** Cells. 2020 Aug 22;9(9):1945. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem cell Research/Therapy

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Unres. Grant) Keyword(s): Retina/Retinal Diseases. RPB support has been inadvertently omitted by Journal.

Gunzenhauser RC, Tsui I, Velez FG, Fung SS, Demer JL, Suh SY, Sarraf D, Pineles SL. **Comparison of pre-treatment vs. post-treatment retinal vessel density in children with amblyopia.** J Binocul Vis Ocul Motil. 2020 Jul-Sep;70(3):79-85. (Univ. of California, Los Angeles - Walt and Lilly Disney Awd) Keyword(s): Pediatric; Retina/Retinal Diseases

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Law SK, Salazar D, Yu F, Giaconi JA, Chen A, Chopra V, Francis B, Coleman AL, Lu K, Nouri-Mahdavi K, Tan J, Caprioli J. **Efficacy of combined suprachoroidal stent and cataract surgery in patients with glaucoma.** J Glaucoma. 2020 Aug;29(8):627-638. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Le A, Shin A, Park J, Poukens V, Demer JL. **Bilaminar structure of the human optic nerve sheath.** Curr Eye Res. 2020 Jul;45(7):864-872. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Glaucoma; Neuro-ophthalmology.

Lee YH, Maniglia M, Velez F, Demer JL, Seitz AR, Pineles S. **Short-term perceptual learning game does not improve patching-resistant amblyopia in older children.** J Pediatr Ophthalmol Strabismus. 2020 May 1;57(3):176-184. (Univ. of California, Los Angeles - Walt and Lilly Disney Awd) Keyword(s): Pediatric

Lee Lenis T, Zhang W, Shibayama V, Al-Hashimi S, Aldave A, Deng S, Fung S. **Multimodal corneal imaging of genetically confirmed keratitis-ichthyosis-deafness syndrome.** Cornea. 2020 Nov;39(11):1446-1449. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea; Other(Imaging); Other (Keratitis-Ichthyosis-Deafness Syndrome)

Lenis TL, Gunzenhauser, RC, Fung, SSM, Dhindsa, YK, Sarraf D, Pineles SL, Tsui, I. **Myopia and anterior segment optical coherence tomography findings in laser-treated retinopathy of prematurity eyes.** J

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Peng YR, Sampath AP. **LRR-ning the rules: Synapse organization in the primary rod pathway.** Neuron. 2020 Mar 18;105(6):949-951. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/Retinal Diseases. RPB support has been inadvertently omitted by Journal.

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Shin A, Park J, Le A, Poukens V, Demer JL. **Bilaminar mechanics of the human optic nerve sheath.** Curr Eye Res. 2020 Jul;45(7):854-863. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Glaucoma; Strabismus/Amblyopia/Eye Movement Disorders

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Sun Y, Dos Santos A, Balayan A, Deng S., **Evaluation of cryopreservation media for the preservation of human corneal stromal stem cells.** Tissue Eng Part C Methods. 2020 Jan;26(1):37-43 (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea

Suresh S, Tsui E. **Ocular manifestations of blau syndrome.** Curr Opin Ophthalmol. 2020 Nov;31(6):532-537 (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Uveitis

Ugradar S, Joshi S, Goldberg RA, Demer JL. **The adnexal phenotype of sagging eye syndrome.** Ophthalmic Plast Reconstr Surg. 2020 Sep/Oct;36(5):475-477. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Neuro-ophthalmology; Strabismus/Amblyopia/Eye Movement Disorders

Ward R, Kaylor JJ, Cobice, DF, Pepe DA, McGarrigle EM, Brockerhoff SE, Hurley JB, Travis GH, Kennedy BN. **Non-photoic and photopic visual cycles differentially regulate immediate, early, and late phases of cone photoreceptor-mediated vision.** J Biol Chem. 2020 May 8;295(19):6482-6497. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Retina/Retinal Diseases. RPB support has been inadvertently omitted by grantee institution.

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Zhang C, Mei H, Robertson S, Lee H, Deng S, Zheng J. **A small-molecule wnt mimic improves human limbal stem cell ex vivo expansion.** iScience, 2020 May 22;23(5):101075. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem cell Research/Therapy

OTHER PROFESSIONAL PUBLICATIONS - FOREIGN

Ahn J, Chiang J, Gorin MB. **Novel mutation in *SLC4A7* gene causing autosomal recessive progressive rod-cone dystrophy.** *Ophthalmic Genet.* 2020 Aug;41(4):386-389. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Gene Research/Therapy, Retina/Retinal Diseases, Retinitis Pigmentosa

Baumal CR, Sarraf D, Bryant T, Gui W, Muakkassa N, Pichi F, Querques G, Choudhry N, Teke MY, Govetto A, Invernizzi A, Elliott D, Gaudric A, Cunha de Souza E, Naysan J, Lembo A, Lee GC, Freund KB. **Henle fibre layer haemorrhage: clinical features and pathogenesis.** *Br J Ophthalmol.* 2020 May 6;bjophthalmol-2019-315443. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Imaging); Retina/Retinal Diseases

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