

**RPB BIBLIOGRAPHY 2021**  
**University of California, Los Angeles**

Bonnet C, Brahmabhatt A, Deng SX, Zheng JJ. **Wnt signaling activation: targets and therapeutic opportunities for stem cell therapy and regenerative medicine.** RSC Chem Biol. 2021 Jun 1;2(4):1144-1157. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Bonnet C, Roberts JS, Deng SX. **Limbal stem cell diseases.** Exp Eye Res. 2021 Apr; 205:108437. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Bonnet C, Lee A, Shibayama VP, Tseng CH, Deng SX. **Clinical outcomes and complications of fluid-filled scleral lens devices for the management of limbal stem cell deficiency.** Cont Lens Anterior Eye. 2021 Oct 30;101528. (Univ. of California, Los Angeles - Unres Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Bonnet C, Oh D, Mei H, Robertson S, Chang D, Bourges JL, Behar-Cohen F, Zheng JJ, Deng SX. **Wnt6 plays a complex role in maintaining human limbal stem/progenitor cells.** Sci Rep. 2021 Oct 22;11(1):20948. (Univ. of California, Los Angeles - Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Bonnet C, Chehaibou I, Chen A, Bourges JL, Markovic D, Hubschman JP, Aldave AJ. **Postoperative Posterior Segment Complications after Boston Type 1 Keratoprosthesis: Incidence, Risk Factors, and Intermediate-term Outcomes.** Retina. 2021 Dec 1;41(12):2499-2509. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea

Chang MY, Doppee D, Yu F, Perez C, Coleman AL, Pineles SL. **Prevalence of Ophthalmologic Diagnoses in Children With Autism Spectrum Disorder Using the Optum Dataset: A Population-Based Study.** Am J Ophthalmol. 2021 Jan;221:147-153. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Pediatric

Chehaibou I, Hubschman JP, Kasi S, Su D, Joseph A, Prasad P, Abbey AM, Gaudric A, Tadayoni R, Rahimy E. **Spontaneous Conversion of Lamellar Macular Holes to Full-Thickness Macular Holes: Clinical Features and Surgical Outcomes.** Ophthalmol Retina. 2021 Oct;5(10):1009-1016. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina

Chen JL, Abiri P, Tsui E. **Recent advances in the treatment of juvenile idiopathic arthritis-associated uveitis.** Ther Adv Ophthalmol. 2021 Feb 18;13:2515841420984572. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Uveitis; Pediatric

Chen AC, Velez FG, Silverberg M, Bergman M, Pineles SL. **Single horizontal rectus muscle vertical augmented transposition with posterior fixation suture in management of monocular elevation deficiency.** Strabismus. 2021 Mar;29(1):51-56. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Strabismus/Amblyopia/Eye Movement Disorders

Clark RA, Suh SY, Caprioli J, Giaconi JA, Nouri-Mahdavi K, Law SK, Bonelli L, Coleman AL, Demer JL. **Adduction-Induced Strain on the Optic Nerve in Primary Open Angle Glaucoma at Normal Intraocular Pressure.** *Curr Eye Res.* 2021 Apr;46(4):568-578. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Neuro-ophthalmology, Strabismus/Amblyopia/Eye Movement Disorders.

Cohen LM, Campbell BC, Esfandiari M, Goldberg RA, Rootman DB. **Ophthalmic Surgeries and Systemic Medical Conditions Associated With the Development of Involitional Ptosis.** *Ophthalmic Plast Reconstr Surg.* 2021 Mar-Apr 01;37(2):133-137. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Involitional ptosis (Other) RPB support has been inadvertently omitted by grantee institution

Demer JL, Clark RA. **Functional Anatomy of Muscle Mechanisms: Compensating Vertical Heterophoria.** *Am J Ophthalmol.* 2021 Jan;221:137-146. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Neuro-ophthalmology, Strabismus/Amblyopia/Eye Movement Disorders.

Dow ER, Hou K, Ransome S, Abbassi S, Tsui E. **Posterior Uveitis Associated with Cemiplimab.** *Ocul Immunol Inflamm.* 2021 Apr 1;1-3. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Uveitis

Equiterio BS, Garcia DM, Cruz AA, Rootman DB, Goldberg RA, Sales-Sanz M, Galindo-Ferreiro A, Diniz S. **Lid Flare Measurement with Lateral Midpupil Distances.** *Curr Eye Res.* 2021 Sep;46(9):1309-1313. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Graves orbitopathy. RPB support has been inadvertently omitted by grantee institution

Fain GL, Sampath AP. **Light responses of mammalian cones.** *Pflugers Arch.* 2021 Sep;473(9):1555-1568. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/retinal diseases

Francone A, Govetto A, Yun L, Essilfie J, Nouri-Mahdavi K, Sarraf D, Hubschman JP. **Evaluation of non-exudative microcystoid macular abnormalities secondary to retinal vein occlusion.** *Graefes Arch Clin Exp Ophthalmol.* 2021 Dec;259(12):3579-3588. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina

Frederiksen R, Morshedean A, Tripathy SA, Xu T, Travis GH, Fain GL, Sampath AP. **Rod photoreceptors avoid saturation in bright light by the movement of the G protein transducin.** *J Neurosci.* 2021 Apr 14;41(15):3320-3330. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina /retinal diseases

Ghaffari R, Bonnet C, Yung M, Bostan C, Harissi-Dagher M, Aldave AJ. **Infectious Keratitis After Boston Type 1 Keratoprosthesis Implantation.** *Cornea.* 2021 Oct 1;40(10):1298-1308. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea

Gu L, Kwong JM, Caprioli J, Piri N. **Loss of Rbfox1 Does Not Affect Survival of Retinal Ganglion Cells Injured by Optic Nerve Crush.** *Front Neurosci.* 2021 May 24;15:687690. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Gupta K, Unhale R, Garner OB, Deng SX, Fung SS. **Infectious Keratitis Isolates and Susceptibility in Southern California.** *Cornea.* 2021 Oct 23. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Hamilton DR, Chen AC, Khorrami R, Nutkiewicz M, Nejad M. **Comparison of early visual outcomes after low-energy SMILE, high-energy SMILE, and LASIK for myopia and myopic astigmatism in the United States.** J Cataract Refract Surg. 2021 Jan 1;47(1):18-26. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Myopia, Other (Refractive Surgery)

Hu J, Pauet GJ, Hagstrom SA, Bok D, DeBenedictis MJ, Bonilha V, Hollyfield JG, Radu, RA. **Evidence of Complement Dysregulation in Outer Retina of Stargardt Disease Donor Eyes.** Redox Biol. 2020 Oct;37:101787. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): AMD and Retina/Retinal Diseases

Jafari S, Lu Y, Park J, Demer JL. **Finite Element Model of Ocular Adduction by Active Extraocular Muscle Contraction.** Invest Ophthalmol Vis Sci. 2021 Jan 4;62(1):1 (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Neuro-ophthalmology, Strabismus/Amblyopia/Eye Movement Disorders.

Katzka W, Dong TS, Luu K, Lagishetty V, Sedighian F, Arias-Jayo N, Jacobs JP, and Hsu HY. **The Ocular Microbiome is Altered by Sampling Modality and Age.** Transl Vis Sci Technol. 2021 Oct 4;10(12):24. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea, Other (ocular surface)

Kline LB, Demer JL, Vaphiades MS, Tavakoli M. **Disorders of the Fourth Cranial Nerve.** J Neuroophthalmol. 2021 Jun 1;41(2):176-193. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Neuro-ophthalmology, Strabismus/ Amblyopia/Eye Movement Disorders. RPB support has been inadvertently omitted by grantee institution

Kwong JMK, Caprioli J, Sze YH, Yu FJ, Li KK, To CH, Lam TC. **Differential Retinal Protein Expression in Primary and Secondary Retinal Ganglion Cell Degeneration Identified by Integrated SWATH and Target-Based Proteomics.** Int J Mol Sci. 2021 Aug 10;22(16):8592. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Law SK, Ramulu P, Lee AG. **Research Impact of Jahnigen/GEMSSTAR Scholarship on Career Development in Geriatric Ophthalmology.** J Am Geriatr Soc. 2021 Feb;69(2):558-559. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Geriatric Ophthalmology).

Liang Q, Le Q, Wang L, Cordova D, Baclagon E, Garrido SG, Levin M, Jin Y, Tseng CH, Rao J, Deng SX. **Cytokeratin 13 Is a New Biomarker for the Diagnosis of Limbal Stem Cell Deficiency.** Cornea. 2021 Nov 4. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Mahmoudinezhad G, Mohammadzadeh V, Amini N, Delao K, Zhou B, Hong T, Zadeh SH, Morales E, Martinyan J, Law SK, Coleman AL, Caprioli J, Nouri-Mahdavi K. **Detection of Longitudinal Ganglion Cell/Inner Plexiform Layer Change: Comparison of Two Spectral-Domain Optical Coherence Tomography Devices.** Am J Ophthalmol. 2021 Nov;231:1-10. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Mahmoudinezhad G, Salazar D, Morales E, Tran P, Lee J, Hubschman JP, Nouri-Mahdavi K, Caprioli J. **Risk factors for microcystic macular oedema in glaucoma.** Br J Ophthalmol. 2021 Nov 5;bjophthalmol-2021-320137. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Mahmoudinezhad G, Mohammadzadeh V, Amini N, Toriz V, Pourhomayoun M, Heydarzadeh S, Mylavarapu A, Morales E, Caprioli J, Nouri-Mahdavi K. **Local Macular Thickness Relationships between 2 OCT Devices.** Ophthalmol Glaucoma. Mar-Apr 2021;4(2):209-215. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Meer EA, Chen MF, Jones M, Mathern GW, Pineles SL. **Long-Term Patient-Reported Outcomes of Visual Field Defects and Compensatory Mechanisms in Patients After Cerebral Hemispherectomy.** J Neuroophthalmol. 2021 Jun 1;41(2):147-153. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Neuro-Ophthalmology

Men M, Fung SSM, Tsui E. **What's trending: a review of social media in ophthalmology.** Curr Opin Ophthalmol. 2021 Jul 1;32(4):324-330. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Social Media

Mohammadzadeh V, Su E, Heydar Zadeh S, Law SK, Coleman AL, Caprioli J, Weiss RE, Nouri-Mahdavi K. **Estimating Ganglion Cell Complex Rates of Change With Bayesian Hierarchical Models.** Transl Vis Sci Technol. 2021 Apr 1;10(4):15. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Morales E, Martinyan J, Law SK, Coleman AL, Caprioli J, Nouri-Mahdavi K. **Detection of Longitudinal Ganglion Cell/Inner Plexiform Layer Change: Comparison of Two Spectral-Domain Optical Coherence Tomography Devices.** Am J Ophthalmol. 2021 Nov;231:1-10. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Morshedian A, Huynh TH, Frederiksen R, Fain GL, Sampath AP. **Pupillary light reflex of the lamprey *Petromyzon marinus*.** Curr Biol. 2021 Jan 25;31(2): R65-R66. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Retina/retinal diseases

Nejad M, Lin SR, Hwang LH, Landig M, Al-Hashimi S, Bartlett JD. **Effect of over-the-counter brimonidine tartrate 0.025% ophthalmic solution on pupil size in healthy adults.** Graefes Arch Clin Exp Ophthalmol. 2021 Nov;259(11):3333-3338. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Other (Refractive Surgery)

Nouri-Mahdavi K, Mohammadzadeh V, Rabiolo A, Edalati K, Caprioli J, Yousefi S. **Prediction of Visual Field Progression from OCT Structural Measures in Moderate to Advanced Glaucoma.** Am J Ophthalmol. 2021 Jun;226:172-181. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Nouri-Mahdavi K, Weiss RE. **Detection of Glaucoma Deterioration in the Macular Region with Optical Coherence Tomography: Challenges and Solutions.** Am J Ophthalmol. 2021 Feb;222:277-284. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Pan C, Banerjee K, Lehmann GL, Almeida D, Hajjar KA, Benedicto I, Jiang Z, Radu RA, Thompson David, Rodriguez-Boulan E, and Nociari MM. **Lipofuscin causes atypical necroptosis through lysosomal membrane permeabilization.** Proc. Natl. Acad. Sci. USA. 2021 Nov 23;118(47):e2100122118. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): AMD and Retina/Retinal Diseases

Park J, Shin A, Jafari S, Demer JL. **Material properties and effect of preconditioning of human sclera, optic nerve, and optic nerve sheath.** Biomech Model Mechanobiol. 2021 Aug;20(4):1353-1363. PMID: 33877503. DOI: 10.1007/s10237-021-01448-2 (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): GLAUCOMA, Neuro-ophthalmology, Strabismus/Amblyopia/Eye Movement Disorders.

Pineles SL, Repka MX, Velez FG, Yu F, Perez C, Sim D, Coleman AL. **Prevalence of pediatric eye disease in the optumlabs data warehouse.** Ophthalmic Epidemiol. 2021 Aug 29;1-8. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Pediatric

Pineles SL, Repka MX, Yu F, Velez FG, Doppee D, Perez C, Sim D, Coleman AL. **Risk of physical injuries in children and teens with ophthalmic diagnoses in the OptumLabs Data Warehouse.** J AAPOS. 2021 Oct 13;S1091-8531(21)00547-4. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Pediatric

Pineles SL, Repka MX, Yu F, Velez FG, Perez C, Sim D, Coleman AL. **Strabismus Surgery Decreases the Risk of Injuries in Pediatric Patients in the OptumLabs Data Warehouse.** Am J Ophthalmol. 2021 Jul 18;236:147-153. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Strabismus/Amblyopia/Eye Movement Disorders

Pineles SL, Repka MX, Yu F, Velez FG, Perez C, Sim D, Coleman AL. **The use of atropine for treatment of amblyopia using the OptumLabs Data Warehouse.** J AAPOS. 2021 Apr;25(2):107-109.e1. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Pediatric

Rajabi MT, Tabary M, Baharnoori S, Salabati M, Mahmoudzadeh R, Hosseinzadeh F, Mohammadi SS, Goldberg RA. **Orbital anatomical parameters affecting outcome of deep lateral orbital wall decompression.** Eur J Ophthalmol. 2021 Jul;31(4):2069-2075. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Deep lateral decompression (Other) RPB support has been inadvertently omitted by grantee institution

Robbins L, Goseki T, Law SK, Nouri-Mahdavi K, Caprioli J, Coleman AL, Giaconi JA, Demer JL, Velez FG, Pineles SL. **Strabismus After Ahmed Glaucoma Valve Implantation.** Am J Ophthalmol. 2021 Feb;222:1-5. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Glaucoma

Robertson SYT, Roberts JS, Deng SX. **Regulation of Limbal Epithelial Stem Cells: Importance of the Niche.** Int J Mol Sci. 2021 Nov 5; 22(21):11975. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Stem Cell Research/ Therapy, Cornea.

Solanes F, Demer JL. **Clinical and imaging features of congenital and acquired isolated inferior rectus muscle hypofunction.** J AAPOS. 2021 Feb;25(1):11.e1-11.e9. (Univ. of

California, Los Angeles – Unres. Grant) Keyword(s): Neuro-ophthalmology, Strabismus/Amblyopia/Eye Movement Disorders

Solanes F, Velez FG, Robbins L, Pineles SL. **Modified Anterior Superior Oblique Tuck: A Case Series.** J Binocul Vis Ocul Motil. Oct-Dec 2020;70(4):157-162. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Strabismus/Amblyopia/Eye Movement Disorders

Tseng VL. **Alcohol and cataract surgery: Factors to consider in observational analyses.** Ophthalmology. 2021 Jun;128(6):848-849. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cataract; Epidemiology

Ugradar S, Diniz S, Hoenig J, Goldberg RA. **Generation of Filler Emboli as a Mechanism for Filler-Related Blindness.** Dermatol Surg. 2021 Feb 1;47(2):235-237. (Univ. of California, Los Angeles – Unres. Grant). RPB support has been inadvertently omitted by grantee institution

You J., Cheng Y., Yang X.-J., Chen L. **Generation of a homozygous LRP2 knockout human embryonic stem cell line (FDCHDPe010-A-56) by CRISPR/Cas9 system.** Stem Cell Res. 2021 May;53,102342. (Univ. of California, Los Angeles – Unres. Grant). Keyword(s): Stem Cell Research/Therapy. RPB support has been inadvertently omitted by grantee institution.

Yung M, Chen AC, Chung DD, Barrington A, Zhang J, Frausto RF, Magalhaes OA, Aldave AJ. **Corneal ectasia associated with posterior lamellar opacification.** Ophthalmic Genet. 2021 Aug;42(4):486-492. (Univ. of California, Los Angeles – Unres. Grant) Keyword(s): Cornea

Zhang X., Mandric I., Nguyen K.H., Nguyen T.T.T., Pellegrini M., Grove J.C.R., Barnes S., Yang X.-J. **Single cell transcriptomic analyses reveal the impact of bHLH factors on human retinal organoid development.** Front Cell Dev Biol. 2021 May 13;9:653305. (Univ. of California, Los Angeles – Unres. Grant). Keyword(s): Stem Cell Research/Therapy.