

CURRICULUM VITAE

Jeffrey L. Olson, M.D.

Associate Professor
Vitreoretinal Disease and Surgery
University of Colorado School of Medicine
Department of Ophthalmology
UCHealth Eye Center - Anschutz
1675 Aurora Court, Mailstop F731
Aurora, CO 80045

Appointments: 720-848-2020

PREDOCTORAL EDUCATION

1989 – 1993 Pre-medical: B.A., Sociology, University of Virginia, Charlottesville, VA
1995 – 1999 Medical: M.D., University of Colorado School of Medicine, Denver, CO

POSTDOCTORAL TRAINING

1999 – 2000 Internship: Internal Medicine, Marshfield Clinic, University of Wisconsin School of Medicine and Public Health, Marshfield, WI
2000 – 2003 Residency: Ophthalmology, Department of Ophthalmology, University of Colorado School of Medicine, Denver, CO
2003 – 2004 Fellowship: Vitreoretinal Disease and Surgery, Department of Ophthalmology, University of Colorado School of Medicine, Denver, CO

ACADEMIC APPOINTMENTS

2003 – 2004 Instructor, Department of Ophthalmology, University of Colorado School of Medicine, Denver, CO
2004 – 2009 Assistant Professor, Department of Ophthalmology, University of Colorado School of Medicine, Denver, CO
2009 – Associate Professor, Department of Ophthalmology, University of Colorado School of Medicine, Denver, CO

ADMINISTRATIVE APPOINTMENTS

2004 – Secretary, Clinical Committee, Department of Ophthalmology, CUSOM
2004 – Chair, Clinical Laboratory Sub-Committee, Dept. of Ophthalmology, CUSOM
2004 – Residency Selection Committee, Department of Ophthalmology, CUSOM
2004 – Clinical Faculty Promotions Committee, Department of Ophthalmology, CUSOM
2004 – 2007 Director of Clinical Research, Department of Ophthalmology, CUSOM
2009 – Chair, Quality Assurance, UCHealth Eye Center
2009 – Board Member, Colorado Multiple Institutional Review, University of Colorado

HONORS, AWARDS AND RECOGNITION

- 1986 Arapahoe County Track and Field record, 400 meter sprint
- 1989 Letter of Commendation, National Merit Scholarship Program
- 1990 – 1993 Dean’s Honor List, University of Virginia
- 2004 – 2016 Steamboat Marathon (12 time finisher)
- 2005 – 2006 Boulder Backroads Marathon
- 2007 Academic Teaching Award, Department of Ophthalmology, CUSOM
- 2007 – 2016 Steamboat 50 Mile Ultra Marathon (6 time finisher)
- 2009 Boston Marathon
- 2010 Team Science Award, Colorado Clinical and Translational Science Institute, University of Colorado
- 2011 Best Paper of Session Award, American Society of Cataract and Refractive Surgery Annual Meeting
- 2011 Innovators Session Presentation, American Society of Cataract and Refractive Surgery Annual Meeting
- 2011 Rhett Buckler Award, American Society of Retina Specialists Annual Meeting, Film Festival Award Winner
- 2011 Best Paper of Session Award, American Academy of Ophthalmology Annual Meeting
- 2011 Inventor of the Year, CU Anschutz Medical Campus
- 2012 Best Paper of Session Award, American Society of Cataract and Refractive Surgery Annual Meeting
- 2012 Film Festival Award Winner, American Society of Cataract and Refractive Surgery Annual Meeting
- 2012 Innovators Session Presentation (co-author), American Society of Cataract and Refractive Surgery Annual Meeting
- 2012 Rhett Buckler Award, American Society of Retina Specialists Annual Meeting, Film Festival Award Winner
- 2012 Best Paper of Session (co-author), American Academy of Ophthalmology Annual Meeting
- 2013 Research Incentive Award in Retina (co-author), Pan-American Ophthalmological Foundation
- 2014 Honor Award, American Society of Retina Specialists
- 2015 Hot Topic Poster Designation, Association for Research in Vision and Ophthalmology
- 2015 Rhett Buckler Award, American Society of Retina Specialists Annual Meeting

HOSPITAL STAFF MEMBERSHIP

- 1999 – 2000 Marshfield Clinic, Marshfield, WI
- 2000 – University of Colorado Hospital, Aurora, CO
- 2000 – Denver Health Medical Center, Denver, CO
- 2000 – Denver Veteran’s Affairs Medical Center, Denver, CO
- 2000 – Children’s Hospital Colorado, Aurora, CO

PROFESSIONAL MEMBERSHIPS

- 2003 – American Academy of Ophthalmology (AAO)
- 2004 – Association for Research in Vision and Ophthalmology (ARVO)
- 2007 – American Society of Retina Specialists (ASRS)
- 2008 – Colorado Society of Eye Physicians and Surgeons (CSEPS)
- 2011 – American Society of Cataract and Refractive Surgery (ASCRS)
- 2014 – The Retina Society

MEDICAL LICENSES

- 1999 – 2000 Physician License, Wisconsin (inactive)
- 2000 – 2003 Physician Training License, Colorado (inactive)
- 2003 – Physician License, Colorado (active)

SPECIALTY BOARD CERTIFICATION

- 2006 – 2016 Diplomate, American Board of Ophthalmology
- 2016 – Diplomate, American Board of Ophthalmology (recertification)

EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS

- Reviewer, Archives of Ophthalmology
- Reviewer, Graefe's Archive for Clinical and Experimental Ophthalmology
- Reviewer, Investigative Ophthalmology and Visual Science
- Reviewer, Journal of Biomedical Materials Research
- Reviewer, Ophthalmic Epidemiology
- Reviewer, Retina

MENTORING ACTIVITIES

Clinical Fellows

- 2005 – 2007 Nathan Rudometkin, MD, private practice, California
- 2007 – 2009 Arthur Korotkin, MD, private practice, Colorado
- 2009 – 2011 Chirag Patel, MD, private practice, California
- 2010 – 2012 Benjamin Ernst, MD, private practice, Wisconsin
- 2011 – 2013 Ramanath Bhandari, MD, private practice, Illinois
- 2012 – 2014 Marc Mathias, MD, Assistant Professor, Department of Ophthalmology, CUSOM
- 2013 – 2015 Frank Siringo, MD, Assistant Professor, Department of Ophthalmology, CUSOM
- 2014 – 2016 Richard Hwang, MD, PhD, private practice, Texas
- 2015 – 2017 Nathan Haines, MD
- 2016 – 2018 Eric Feinstein, MD

Research Fellows

- 2009 – 2013 Raul Velez-Montoya, MD (México City, México). Associate Professor, Asociación para Evitar la Ceguera en México. Partner, Macula Retina Consultores, México City, México.

2014 – 2015 Sergio Groman-Lupa, MD (México City, México). Ophthalmologist, Hospital Ángeles Lomas, Huixquilucan, México.

RESEARCH INTERESTS

- Non-pharmacologic, extended duration therapeutics for diabetic retinopathy and exudative macular degeneration
- Complement factor protein trapping and denaturation for dry macular degeneration
- Modulation of intraocular oxygen tension in ischemic retinopathies

INTELLECTUAL PROPERTY (PATENTS)

Awarded Patents

1. **Olson JL**, Mandava N., inventors. The Regents of the University of Colorado, assignee. Method for Stimulating Retinal Response Using Photoactive Devices. US 8725266 B2. 2014 May 13. [patent]
 - Extended Drug Delivery to the Vitreous Cavity with Nanoparticles. *Continuation in Part to Patent US 8725266 B2. Forthcoming.*
2. **Olson JL**, inventor. The Regents of the University of Colorado, assignee. Intraocular encapsulation of oxygenic bacteria. US 8883189 B2. 2014 November 11. [patent]

Patent applications

1. **Olson J**, inventor. The Regents of the University of Colorado, applicant. Cell stimulation using quantum dots. WO 2010083170 A3. 2010 January 12. [patent application]
2. **Olson J**, Rech B, Lanning C, Erlanger M, Shandas R, inventors. The Regents of the University of Colorado, applicant. Soft tissue coaptor and device for deploying same. WO 2011116228 A2. 2011 March 17. [patent application]
3. **Olson J**, inventor. The Regents of the University of Colorado, applicant. Intraocular encapsulation of oxygenic bacteria. WO 2013049107 A3. 2012 September 26. [patent application]
4. **Olson J**, MacKenzie DL, inventors. The Regents of the University of Colorado, applicant. Intraocular manipulator and related methods. WO 2013052578 A2. 2012 October 04. [patent application]
5. **Olson J**, inventor. The Regents of the University of Colorado, applicant. Ophthalmic surgical device with adjustable filament and method of use. WO 2014035862 A1. 2013 August 26. [patent application]
6. **Olson J**, Bhandari R, inventors. The Regents of the University of Colorado, applicant. Ocular filtration devices, systems and methods. WO 2014059233 A1. 2013 October 11. [patent application]
 - Large bore glaucoma drainage device with laser activated membrane flow control. *Continuation in Part to Patent WO 2014059233 A1. Forthcoming.*

7. **Olson JL**, inventor. The Regents of the University of Colorado, applicant. Adjustable loop fiber optic illumination device for surgery. WO 2014066777 A1. 2013 October 25. [patent application]
8. **Olson J**, inventor. The Regents of the University of Colorado, assignee. Injectable securement device and related delivery system and method of use. US 20150025540 A1. 2014 July 16. [patent application]
9. **Olson JL**, inventor. The Regents of the University of Colorado, assignee. The Regents of the University of Colorado, applicant. Intraocular drug delivery and filter device and methods of using same. WO 2015035296 A3. 2015 November 19. [patent application]
10. **Olson J**, Erlanger M, inventors. The Regents of the University of Colorado, applicant. Intraocular devices and methods for correction of aphakia, restoration of accommodation, and treatment of glaucoma. Provisional Patent Application, October 2015. [patent application]
11. **Olson J**, inventor. The Regents of the University of Colorado, applicant. Intraocular oxygen delivery and absorption devices and methods. WO 2016164406 A1. 2016 April 06. [patent application]

RESEARCH SUPPORT AND GRANTS

Laboratory Studies and Grants

1. **National Institute of Health**, Summer Research Program, Olson (PI): Funds for medical student research under my supervision on project focusing on inhibition of angiogenesis in an animal model of laser induced choroidal injury. \$3,462, 2005.
2. **Age Related Macular Degeneration Fund**, University of Colorado Department of Ophthalmology, Olson (PI): Creation of laboratory to investigate anti-angiogenic compounds. Laboratory Director, \$180,000, 2007.
3. **2CTech, Inc.**, Olson (PI): "Photoreceptor Stimulation in a Porcine Model of Progressive Blindness". Using technology developed and patented in the PI's lab, this translational study investigated the therapeutic use of photoactive quantum dots in an animal model of retinitis pigmentosa. Principal Investigator, \$58,006, 2009-2011.
4. **NIH SBIR & Motility, Inc.**, 1R43EY019592-01, Levin (PI): "Protein LD22-4 Inhibition of Proliferative Vitreoretinopathy in a Rabbit Model." Translational study testing the effects of a drug designed to inhibit fibroblast movement and proliferation in models of exudative macular degeneration and retinal detachment. Co-PI, \$73,737, 2010.
5. **Colorado Bioscience Discovery Evaluation Grant Program**, Bioscience Company Grant, Olson (PI): "Photoactive Intraocular Implants for the Treatment of Progressive Photoreceptor Degeneration." Principal Investigator, \$100,000, 2010.
6. **Colorado Bioscience Discovery Evaluation Grant Program**, Proof of Concept Grant, Olson (PI): "Zip Clip - Microsurgical Suturing Device." Translational program to test a device developed in the PI's lab under real-time, surgical conditions for fixation of

intraocular lenses and other ophthalmic implants. Principal Investigator, \$91,800, 2010-2011.

7. **Colorado Clinical and Translational Sciences Institute**, Team Science Award, Olson (PI): “Novel Intraocular Device for the Treatment of Diabetic Retinopathy.” The goal of this study was to develop and test a device to increase local tissue oxygenation in ischemic states such as diabetic retinopathy. Principal Investigator, \$100,000, 2011-2012.
8. **Colorado Bioscience Discovery Evaluation Grant Program**, Proof of Concept Grant, Olson (PI): “Laser Modulated Device for Glaucoma.” Principal Investigator, \$100,000, 2014.
9. **Colorado Bioscience Discovery Evaluation Grant Program**, Advanced Industries Accelerator Program, Olson (PI): “Second Generation Glaucoma Drainage Device with Laser Adjustable Flow Rates.” This translational study will further test technology developed in the PI’s lab: a second-generation glaucoma drainage device which can be adjusted post-operatively in a non-invasive manner using laser to adjust aqueous flow. Principal Investigator, \$250,000 matching grant, 2014.
10. **CUSOM Ophthalmology**, 15-1425, Olson (PI): “Biochemical Composition of Human Vitreous.” Principal Investigator, 2015-2018.
11. **Galaxy Ophthalmics**, Olson (PI): “Third Generation RNA Therapeutics for Macular Degeneration.” This translational study will determine the biocompatibility, intraocular half-life, and efficacy of a new class of RNA based molecules for the treatment of macular degeneration. Principal Investigator, 2016-2018.

Clinical Studies and Grants

1. **Alcon Research**, C-02-60, Zilliox (PI): “An evaluation of efficacy and safety of posterior juxtасlеrаl аdministrаtions of аnеcоrtаvе асetаtе for depot suspension (15 mg or 30 mg) versus sham administration in patients at risk for developing sight-threatening choroidal neovascularization (CNV) due to exudative age-related macular degeneration (AMD).” Sub-investigator, \$200,000, 2004-2009.
2. **Alcon Research**, C-04-18, Olson (PI): “Clinical Evaluation of the Safety of Next Generation Ophthalmic Irrigating Solution Compared to BSS Plus for Use During Surgery for Removal of Epimacular Membrane and Vitrectomy.” Principal Investigator, \$43,200, 2005-2006.
3. **Genentech, Inc., University of Colorado**, FVF4256s, 07-0446, Mandava (PI): “Ranibizumab for Non-Arteritic Ischemic Optic Neuropathy (NAION).” Co-Investigator, 2007-2010.
4. **Genentech, Inc., University of Colorado**: “Ocular Ranibizumab for Ischemic Optic Neuropathy (ORION).” *Investigator Sponsored Trial supported by Genentech.* Co-Investigator.

5. **Genentech, Inc.**, FVF4165g, Rubio (PI): "A Phase III, Multicenter, Randomized, Sham Injection-Controlled Study of the Efficacy and Safety of Ranibizumab Injection Compared With Sham in Subjects With Macular Edema Secondary to Branch Retinal Vein Occlusion (BRAVO)" Sub-Investigator, 2007-2009.
6. **Regeneron & Bayer**, VGFT-OD-0605, Vitti (PI): "A Randomized, Double Masked, Active Controlled Phase III Study of the Efficacy, Safety, and Tolerability of Repeated Doses of Intravitreal VEGF Trap in Subjects With Neovascular Age-Related Macular Degeneration (VIEW1)." Site-PI, 2007-2011.
7. **Genentech, Inc.**, FVF4170g, Ehrlich (PI): "A Phase III, Double-masked, Multicenter, Randomized, Sham Injection-controlled Study of the Efficacy and Safety of Ranibizumab Injection in Subjects With Clinically Significant Macular Edema With Center Involvement Secondary to Diabetes Mellitus." Co-PI, \$312,880, 2007-2012.
8. **ThromboGenics**, TG-MV-006: "A Randomized, Placebo Controlled, Double-masked, Multicenter Trial of Microplasmin Intravitreal Injection for Non-surgical Treatment of Focal Vitreomacular Adhesion. The MIVI-TRUST (TG-MV-006) Trial." Sub-Investigator, 2008-2010.
9. **Genentech, Inc.**, FVF4166g, Rubio (PI): "A Phase III, Multicenter, Randomized, Sham Injection-Controlled Study of the Efficacy and Safety of Ranibizumab Injection Compared With Sham in Subjects With Macular Edema Secondary to Central Retinal Vein Occlusion (CRUISE)." Sub-Investigator, 2010-2012.
10. **Alcon Research**, C-09-067, Hosseini (PI): "Controlled, Double-Masked, Randomized, Multicenter Study to Evaluate AL-78898A as a Treatment of Exudative AMD (RACE)." Site-PI, 2010-2012.
11. **Lux Biosciences, Inc.**, LX211-1, Angdale (PI): "A Multi-Center, Double-Masked, Parallel-Group, Placebo-Controlled Study to Assess the Efficacy and Safety of Voclosporin as Therapy in Subjects With Active Noninfectious Uveitis Involving the Intermediate and/or Posterior Segments of the Eye." Site-PI, 2011-2012.
12. **Pfizer**, B1181003: "A Phase 2 Multi-center, Randomized, Double-masked, Placebo-controlled, Multi-dose Study to Investigate the Efficacy, Safety, Pharmacokinetics and Pharmacodynamics of Rn6g (Pf-04382923) In Subjects With Geographic Atrophy Secondary To Age-related Macular Degeneration." Site-PI, 2012-2013. [terminated]
13. **Ophthotech Corporation**, OPH1002/3, Mandava (PI): "A Phase 3 Randomized, Double-masked, Controlled Trial to Establish the Safety and Efficacy of Intravitreal Administration of Fovista (Anti PDGF-B Pegylated Aptamer) Administered in Combination with Lucentis Compared to Lucentis Monotherapy in Subjects With Subfoveal Neovascular Age-related Macular Degeneration." Co-Investigator, 2013-2016.
14. **2C Tech & Hoya Corporation**, Olson (PI): "Photoactive Quantum Dots in Patients with Advanced Retinitis Pigmentosa." Principal Investigator, \$1,500,000, 2013-2018.
15. **Ophthotech Corporation**, OPH1004, Mandava (PI): "A Phase 3 Randomized, Double-

masked, Controlled Trial to Establish the Safety and Efficacy of Intravitreal Administration of Fovista (Anti PDGF-B Pegylated Aptamer) Administered in Combination With Either Avastin or Eylea Compared to Avastin or Eylea Monotherapy in Subjects With Subfoveal Neovascular Age-related Macular Degeneration.” Co-Investigator, 2014-2016.

16. **Hoffmann-La Roche**, GX29185: “A Study Investigating the Efficacy and Safety of Lampalizumab Intravitreal Injections in Patients with Geographic Atrophy Secondary to Age-Related Macular Degeneration (CHROMA).” Sub-Investigator, 2014-2017.

PUBLICATIONS

Chapters (invited)

1. **Olson JL**, Mandava N. Ophthalmology: Expert Consult. 2nd ed. Yanoff M, Duker JS, editors. London: Elsevier-Mosby; 2003. Fluorescein and ICG angiography.
2. Mandava N, Iranmanesh R, **Olson J**. Retinal Imaging: Atlas of Posterior Segment Imaging. 1st ed. Huang D, Kaiser PK, Lowder CY, Traboulsi E, editors. Philadelphia: Elsevier-Mosby; 2006. Idiopathic perifoveal telangiectasis.
3. Mandava N, **Olson J**. Retinal Imaging: Atlas of Posterior Segment Imaging. 1st ed. Huang D, Kaiser PK, Lowder CY, Traboulsi E, editors. Philadelphia: Elsevier-Mosby; 2006. Fluorescein angiography.
4. Prall FR, **Olson JL**, Barnett CJ, Mandava N. Ophthalmology: Expert Consult. 3rd ed. Yanoff M, Duker JS, editors. London, UK: Elsevier-Mosby; 2009. Chapter 6.8, Fluorescein angiography, indocyanine green angiography, and optical coherence tomography; p536-544.
5. Patel CC, Oliver SC, Mandava N, **Olson JL**, Quiroz-Mercado H. Macular Surgery. 2nd ed. Quiroz-Mercado H, Kerrison JB, Alfaro III DV, Mieler WF, Liggett PE, editors. Philadelphia: Wolters Kluwer; 2011. Chapter 40, Implications of the Off-Label Use of Medications in Vitreoretinal Surgery; p.359-366.
6. Patel CC, **Olson JL**, Mandava N, Oliver SC. Wills Eye Institute 5-Minute Ophthalmology Consult. 1st ed. Maguire JI, Murchison AP, Jaeger EA, editors. Philadelphia: Wolters Kluwer; 2012. Granulomatous uveitis.
7. Velez-Montoya R, **Olson JL**, Mandava N. Ophthalmology: Expert Consult. 4th ed. Yanoff M, Duker JS, editors. Philadelphia: Elsevier Saunders; 2014. Chapter 6.6, Fluorescein Angiography and Indocyanine Green Angiography; p.440-7.

Peer-reviewed

1. **Olson JL**, May MJ, Stork L, Kadan N, Bateman JB. [Acute megakaryoblastic leukemia in Down syndrome: orbital infiltration](#). Am J Ophthalmol. 2000 Jul;130(1):128-30. PMID: 11004278.
2. **Olson JL**, Jacobson DM. [Comparison of clinical associations of patients with](#)

- [vasculopathic and idiopathic downbeat nystagmus](#). Journal of Neuro-Ophthalmology. 2001 Mar;21(1):39-41. PMID: 11315982.
3. **Olson JL**, On AV, Mandava N. [Protecting the retinal pigment epithelium during macular hole surgery](#). Clin Exp Ophthalmol. 2005 Dec;33(6):576-7. PMID: 16402947.
 4. Kahook MY, **Olson JL**, Mandava N. [Long term follow-up of intraocular pressure elevation in patients post intravitreal triamcinolone acetate injection](#). Visión Pan-Americana. 2005 Dec;4(4):9-11.
 5. **Olson JL**, Mandava N. [Bilateral intraocular involvement in Lemierre's syndrome](#). Br J Ophthalmol. 2006 Feb;90(2):249-50. PMID: 16424550.
 6. Levi ME, Mandava N, Chan LK, Weinberg A, **Olson JL**. [Treatment of multidrug-resistant cytomegalovirus retinitis with systemically administered leflunomide](#). Transpl Infect Dis. 2006 Mar;8(1):38-43. PMID: 16623819.
 7. **Olson JL**, Mandava N. [Macular hole formation associated with idiopathic parafoveal telangiectasia](#). Graefes Arch Clin Exp Ophthalmol. 2006 Mar;244(3):411-2. Epub 2005 Aug 20. PMID: 16133029.
 8. Mandava N, Kahook MY, Mackenzie DL, **Olson JL**. [Anterior scleral buckling procedure for cyclodialysis cleft with chronic hypotony](#). Ophthalmic Surg Lasers Imaging. 2006 Mar-Apr;37(2):151-3. PMID: 16583639.
 9. Prall FR, Drack A, Taylor M, Ku L, **Olson JL**, Gregory D, Mestroni L, Mandava N. [Ophthalmic manifestations of Danon disease](#). Ophthalmology. 2006 Jun;113(6):1010-3. PMID: 16751040.
 10. Gelston CD, **Olson JL**, Mandava N. [Macular oedema in central retinal vein occlusion treated with intravitreal triamcinolone](#). Acta Ophthalmol Scand. 2006 Jun;84(3):314-8. PMID: 16704690.
 11. **Olson JL**, Prall FR, Ciardella AP. [Bilateral foveal neurosensory detachment in hypertensive retinopathy demonstrated by optical coherence tomography](#). Eye (Lond). 2006 Dec;20(12):1370-1. Epub 2006 Mar 31. PMID: 16575418.
 12. **Olson JL**, Bennett J, Mandava N. [Cerebellar and retinal vascular lesions in a postpartum patient](#). Am Fam Physician. 2007 Feb 1;75(3):393-4. PMID: 17304873.
 13. **Olson JL**, Courtney RJ, Mandava N. [Intravitreal infliximab and choroidal neovascularization in an animal model](#). Arch Ophthalmol. 2007 Sep;125(9):1221-4. PMID: 17846362.
 14. Schiff WM, Hwang JC, Ober MD, **Olson JL**, Dhrami-Gavazi E, Barile GR, Chang S, Mandava N. [Safety and efficacy assessment of chimeric ribozyme to proliferating cell nuclear antigen to prevent recurrence of proliferative vitreoretinopathy](#). Arch Ophthalmol. 2007 Sep;125(9):1161-7. PMID: 17846353.
 15. Bennett JL, Thomas S, **Olson JL**, Mandava N. [Treatment of nonarteritic anterior ischemic optic neuropathy with intravitreal bevacizumab](#). J Neuroophthalmol. 2007

- Sep;27(3):238-40. PMID: 17895825.
16. Olson J, Rouhani B, Mandava N. [Sub-Tenon's triamcinolone for post-partum Purtscher's-like retinopathy](#). Clin Ophthalmol. 2008 Mar;2(1):195-8. PMID: 19668404; Central PMCID: PMC2698687.
 17. Gohel PS, Mandava N, **Olson JL**, Durairaj VD. [Age-related macular degeneration: an update on treatment](#). Am J Med. 2008 Apr;121(4):279-81. PMID: 18374683.
 18. **Olson JL**, Courtney RJ, Rouhani B, Mandava N, Dinarello CA. [Intravitreal anakinra inhibits choroidal neovascular membrane growth in a rat model](#). Ocul Immunol Inflamm. 2009 May-Jun;17(3):195-200. PMID: 19585363.
 19. Dixon JA, Oliver SC, **Olson JL**, Mandava N. [VEGF Trap-Eye for the treatment of neovascular age-related macular degeneration](#). Expert Opin Investig Drugs. 2009 Oct;18(10):1573-80. Review. PMID: 19694600.
 20. Rouhani B, Mandava N, **Olson JL**. [Central retinal vein occlusion after intense exercise in healthy patients](#). Retin Cases Brief Rep. 2010 Spring;4(2):105-8. PMID: 25390376.
 21. Kunjukunju N, Navarro A, Oliver S, Olson J, Patel C, Garcia G, Mandava N, Quiroz-Mercado H. [Bilateral macular hole formation secondary to sclopetaria caused by shockwaves transmitted by a posterior vector: case report](#). BMC Ophthalmology. 2010 Mar;10:6. PMID: 20298610.
 22. Patel CC, Grinblatt A, Korotkin A, Mandava N, Oliver SC, **Olson JL**, Quiroz-Mercado H. [A novel vitreoretinal dissector for use in vitrectomy](#). Retina. 2011 Jan;31(1):188-9. PMID: 21187736.
 23. Pan CK, Durairaj C, Kompella UB, Agwu O, Oliver SC, Quiroz-Mercado H, Mandava N, **Olson JL**. [Comparison of long-acting bevacizumab formulations in the treatment of choroidal neovascularization in a rat model](#). J Ocul Pharmacol Ther. 2011 Jun;27(3):219-24. Epub 2011 May 16. PMID: 21574814; Central PMCID: PMC3107977.
 24. **Olson JL**, Velez-Montoya R, Erlanger M. [Ocular biocompatibility of nitinol intraocular clips](#). Invest Ophthalmol Vis Sci. 2012 Jan 25;53(1):354-60. PMID: 22064995; Central PMCID: PMC3292371.
 25. Patel CC, Mandava N, Oliver SC, Braverman R, Quiroz-Mercado H, **Olson JL**. [Treatment of intractable posterior uveitis in pediatric patients with the fluocinolone acetonide intravitreal implant \(Retisert\)](#). Retina. 2012 Mar;32(3):537-42. PMID: 21963487.
 26. **Olson JL**, Wei LA, Erlanger M. [Intraocular lens fixation with a 30-gauge injectable shape-memory alloy clip in a porcine eye](#). J Cataract Refract Surg. 2012 Jun;38(6):1105-6. PMID: 22624913.
 27. **Olson JL**, Shandas R, Erlanger M. [Development of a minimally invasive, injectable, shape memory suture and delivery system](#). Ann Biomed Eng. 2012 Jul;40(7):1520-9. Epub 2012 Jan 19. PMID: 22258886.
 28. **Olson JL**, Velez-Montoya R, Mandava N, Stoldt CR. [Intravitreal silicon-based quantum](#)

- [dots as neuroprotective factors in a model of retinal photoreceptor degeneration.](#) Invest Ophthalmol Vis Sci. 2012 Aug 17;53(9):5713-21. PMID: 22761263.
29. Erlanger MS, **Olson JL.** [Closed chamber pupilloplasty with an injectable shape memory alloy clip in enucleated porcine eyes in the laboratory setting.](#) Ophthalmic Surg Lasers Imaging. 2012 Sep-Oct;43(5):432-4. Epub 2012 Jul 5. PMID: 22767338.
 30. **Olson JL,** Erlanger M. [Use of an injectable, 25-gauge shape-memory clip to fixate an encircling silicone band: a laboratory model.](#) Acta Ophthalmol. 2012 Nov;90(7):e571-2. Epub 2012 Mar 16. PMID: 22429496.
 31. Ernst BJ, García-Aguirre G, Oliver SC, **Olson JL,** Mandava N, Quiroz-Mercado H. [Intravitreal bevacizumab versus panretinal photocoagulation for treatment-naïve proliferative and severe nonproliferative diabetic retinopathy.](#) Acta Ophthalmol. 2012 Nov;90(7):e573-4. Epub 2012 Mar 9. PMID: 22405048.
 32. Stafeeva K, Erlanger M, Velez-Montoya R, **Olson JL.** [Ocular argyrosis secondary to long-term ingestion of silver nitrate salts.](#) Clin Ophthalmol. 2012 Dec;6:2033-6. Epub 2012 Dec 5. PMID: 23271882; Central PMCID: PMC3526907.
 33. Velez-Montoya R, Patel C, Oliver SC, Quiroz-Mercado H, Mandava N, **Olson JL.** [Intraocular Microsurgical Forceps \(20, 23, and 25 gauge\) Membrane Peeling Forces Assessment.](#) J Ophthalmol. 2013:784172. Epub 2013 Jun 24. PMID: 23956842; Central PMCID: PMC3707222.
 34. **Olson JL,** Velez-Montoya R, Erlanger M, Mackenzie D. [Management of a dislocated intraocular lens with a suction-based grasping tool.](#) J Cataract Refract Surg. 2013 Feb;39(2):154-7. PMID: 23332250.
 35. **Olson JL,** Raul Velez-Montoya, Nicole Nghiem, David A. Ammar, Naresh Mandava and Conrad R. Stoldt. Intraocular Biocompatibility of Gold-Nanoparticles. J Nanomater Mol Nanotech. 2013 April; 2:2. doi:10.4172/2324-8777.1000111.
 36. **Olson JL,** Velez-Montoya R, Mandava N, Stoldt CR. Neuroprotective Effect of Photoactive Quantum Dots in Progressive Retinal Photoreceptor Degeneration. J Nanomater Mol Nanotechnol. 2013 July; 2:4. doi:10.4172/2324-8777.1000116.
 37. Dunn JH, Weinberg A, Chan LK, Mandava N, Levi ME, **Olson JL.** [Long-term suppression of multidrug-resistant cytomegalovirus retinitis with systemically administered leflunomide.](#) JAMA Ophthalmol. 2013 Jul;131(7):958-60. PMID: 23846207.
 38. Ernst BJ, Velez-Montoya R, Kujundzic D, Kujundzic E, **Olson JL.** [Experimental measure of retinal impact force resulting from intraocular foreign body dropped onto retina through media of differing viscosity.](#) Clin Exp Ophthalmol. 2013 Jul;41(5):471-5. Epub 2012 Dec 14. PMID: 23145546.
 39. Erlanger MS, Velez-Montoya R, Mackenzie D, **Olson JL.** [Suction-based grasping tool for removal of regular- and irregular-shaped intraocular foreign bodies.](#) Ophthalmic Surg Lasers Imaging Retina. 2013 Sep-Oct;44(5):487-9. PMID: 24044713.
 40. Velez-Montoya R, Oliver SC, **Olson JL,** Fine SL, Mandava N, Quiroz-Mercado H. [Current](#)

- [knowledge and trends in age-related macular degeneration: today's and future treatments](#). Retina. 2013 Sep;33(8):1487-502. Review. PMID: 23222393.
41. Gustave BW, Oliver SC, Mathias M, Velez-Montoya R, Quiroz-Mercado H, **Olson JL**, Mandava N, Bhandari R. [Reversal of paracentral occlusive retinopathy in a case of sickle cell disease using exchange transfusion](#). Ophthalmic Surg Lasers Imaging Retina. 2013 Sep-Oct;44(5):505-7. PMID: 24044719.
 42. **Olson JL**, Erlanger M. [Fixation of external drainage device with injectable shape-memory alloy clips](#). J Glaucoma. 2013 Sep;22(7):569-71. PMID: 22407389.
 43. Bhandari R, Dacey M, Schwartz S, Olson J, Quiroz-Mercado H, Mandava N, Oliver SC. [Vogt-Koyanagi-Harada disease masquerading as a lymphoproliferative process of the uvea](#). Br J Ophthalmol. 2013 Nov;97(11):1482-3, 1489-90. Epub 2013 Aug 2. PMID: 23913248.
 44. Velez-Montoya R, Oliver SC, **Olson JL**, Fine SL, Quiroz-Mercado H, Mandava N. [Current knowledge and trends in age-related macular degeneration: genetics, epidemiology, and prevention](#). Retina. 2014 Mar;34(3):423-41. PMID: 24285245.
 45. **Olson JL**, Wei LA, Fortin MJ, Oliver SC, Quiroz-Mercado H, Mandava N, Korotkin A. [Performance characteristics of a straight versus bent 25-gauge vitrector](#). Ophthalmic Surg Lasers Imaging Retina. 2014 Mar-Apr;45(2):153-5. PMID: 24635158.
 46. **Olson JL**, Velez-Montoya R, Bhandari R. [Laser Activated Flow Regulator for Glaucoma Drainage Devices](#). Transl Vis Sci Technol. 2014 Nov 3;3(6):3. PMID: 25374772; Central PMCID: PMC4219365.
 47. Salcedo-Villanueva G, Paciuc-Beja M, Harasawa M, Velez-Montoya R, **Olson JL**, Oliver SC, Mandava N, Quiroz-Mercado H. [Identification and biometry of horizontal extraocular muscle tendons using optical coherence tomography](#). Graefes Arch Clin Exp Ophthalmol. 2015 Mar;253(3):477-85. Epub 2014 Dec 3. PMID: 25467758.
 48. Sniegowski M, Erlanger M, Velez-Montoya R, **Olson JL**. [Difference in ocular surface temperature by infrared thermography in phakic and pseudophakic patients](#). Clin Ophthalmol. 2015 Mar 9;9:461-6. PMID: 25834383; Central PMCID: PMC4358693.
 49. **Olson JL**, Asadi-Zeydabadi M, Tagg R. [Theoretical estimation of retinal oxygenation in chronic diabetic retinopathy](#). Comput Biol Med. 2015 Mar;58:154-62. Epub 2015 Jan 5. PMID: 25660722.
 50. Salcedo-Villanueva G, Harasawa M, Velez-Montoya R, Mathias MT, Siringo FS, **Olson JL**, Oliver SC, Mandava N, Quiroz-Mercado H. [Spectral domain optical coherence tomographic analysis of healthy retina in branch retinal vein occlusion and its response to antiangiogenic therapy](#). Retina. 2015 Apr;35(4):704-14. PMID: 25313712.
 51. McKinney CM, Siringo F, **Olson JL**, Capocelli KE, Ambruso DR, Nuss R. [Red cell exchange transfusion halts progressive proliferative sickle cell retinopathy in a teenaged patient with hemoglobin SC disease](#). Pediatr Blood Cancer. 2015 Apr;62(4):721-3. Epub 2015 Jan 28. PMID: 25631233.

52. Smith JM, Hwang RY, Erlanger M, **Olson JL**. [A NEW MULTIFUNCTIONAL EXPANDABLE MEMORY LOOP DEVICE](#). *Retina*. 2015 Oct;35(10):2154-7. PMID: 26398555.
53. **Olson JL**, Bhandari R, Groman-Lupa S, Velez-Montoya R. [A nanopore membrane regulator device for laser modulated flow after glaucoma surgery](#). *Biomed Microdevices*. 2015 Oct;17(5):90. PMID: 26272497.
54. Smith JM, Erlanger M, **Olson JL**. [Injectable suture device for intraocular lens fixation](#). *J Cataract Refract Surg*. 2015 Dec;41(12):2609-13. PMID: 26796441.
55. Kim YC, Harasawa M, Salcedo-Villanueva G, Siringo FS, Paciuc-Beja M, **Olson JL**, Mandava N, Quiroz-Mercado H. [Enhanced High-Density Line Spectral-Domain Optical Coherence Tomography Imaging of the Vitreoretinal Interface: Description of Selected Cases](#). *Semin Ophthalmol*. 2016;31(6):559-66. Epub 2015 Mar 9. PMID: 25751634.
56. Salcedo-Villanueva G, Paciuc-Beja M, Villanueva-Mendoza C, Harasawa M, Smith JM, Velez-Montoya R, **Olson JL**, Oliver SC, Mandava N, Quiroz-Mercado H. [Progression of gyrate atrophy measured with ultra-wide-field imaging](#). *Int Ophthalmol*. 2016 Feb;36(1):111-20. Epub 2015 May 26. PMID: 26003990.
57. Smith JM, Mathias MT, Oliver SC, Mandava N, **Olson JL**, Quiroz-Mercado H, Palestine AG. [The influence of needle gauge and infection source on vitreous aspirate cultures](#). *Br J Ophthalmol*. 2016 Apr;100(4):453-5. Epub 2015 Aug 12. PMID: 26269533.
58. Smith JM, Hwang RY, Siringo F, Quiroz-Mercado H, Oliver SC, Mandava N, Mathias MT, **Olson JL**. [Concurrent Endophthalmitis and Anterior Segment Ischemia after Strabismus Surgery](#). *Retin Cases Brief Rep*. 2016 Apr 27. [Epub ahead of print] PMID: 27124792.
59. **Olson JL**, Mackin AG, Erlanger MS. [Vitreotomy to Remove Posteriorly Retained Iris Expansion Ring](#). *Retin Cases Brief Rep*. 2016 Fall;10(4):310-2. PMID: 27093390.
60. **Olson JL**, Groman-Lupa S. [Design and performance of a large lumen glaucoma drainage device](#). *Eye (Lond)*. 2016 Sep 9. [Epub ahead of print] PMID: 27612183.
61. Smith JM, **Olson JL**, Gelston CD. [Antimony Intraocular Foreign Body with an Intact Electroretinogram](#). *Ophthalmology*. 2016 Oct;123(10):2224. PMID: 27664913.

Other Publication Formats (videos)

1. **Olson JL**, Erlanger M. New Technology for Fixating the Dislocated Intraocular Lens. [Video]. Boston, MA: American Society of Retina Specialists (ASRS) Annual Meeting; 2011 August. **Rhett Buckler Award, American Society of Retina Specialists Annual Meeting, Film Festival Award Winner**.
2. **Olson JL**. New Device for Management of Posteriorly Dislocated Lens. [Video]. Chicago, IL: American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting; 2012 April. Available at: <http://ascrs2012.conferencefilms.com/acover.wcs?entryid=100057>. **Awarded Best Video, New Producer**.
3. Erlanger MS, **Olson JL**. Corneal Incision Closure with Nitinol Shape-Memory Suture. [Video]. Chicago, IL: American Society of Cataract and Refractive Surgery (ASCRS)

Annual Meeting; 2012 April. Available from:

<http://ascrs2012.conferencefilms.com/acover.wcs?entryid=100098>.

4. **Olson JL**, Erlanger MS. Posterior Migration of a Malyugin Ring during Phacoemulsification and Subsequent Retrieval through the Pars Plana. [Video]. Chicago, IL: American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting; 2012 April.
5. **Olson JL**. A New Technique for Safe, Atraumatic Removal of Intraocular Foreign Bodies. [Video]. Las Vegas, NV: American Society of Retina Specialists (ASRS) Annual Meeting. 2012 August. **Awarded Best Video. Rhett Buckler Award, American Society of Retina Specialists Annual Meeting, Film Festival Award Winner.**
6. **Olson JL**, Erlanger MS. Posterior Migration of a Malyugin Ring during Phacoemulsification. [Video]. San Diego, CA: American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting. 2015 April. **Film Festival Award Winner.**
7. **Olson JL**, Erlanger MS. Removal of an Intact Malyugin Ring from the Vitreous Cavity. [Video]. Vienna, Austria: American Society of Retina Specialists (ASRS) Annual Meeting; 2015 July. doi: 10.1097/ICB.0000000000000304. **2015 Rhett Buckler Award, American Society of Retina Specialists Annual Meeting, Film Festival Award Winner.**

ABSTRACTS/POSTERS

1. **Olson JL**, Jacobson DM. Comparison of clinical associations of patients with vasculopathic and idiopathic downbeat nystagmus. 26th Annual NANOS Meeting, March 2000, Tremblant, Quebec.
2. Ciardella AP, **Olson JL**. Combined Clear Cornea Phacoemulsification with Posterior Chamber Intraocular lens Implantation and Pars Plana Vitrectomy for Complicated Proliferative Diabetic Retinopathy in Phakic Eyes. Association for Research in Vision and Ophthalmology, annual meeting, Apr 25, 2004 (Poster 4072/B533).
3. Kahook MY, **Olson JL**, Mandava N. Incidence of Increased Intraocular Pressure after Intravitreal Triamcinolone Acetonide Injection. Association for Research in Vision and Ophthalmology, annual meeting, May 01, 2005 (Poster 135/B109).
4. Doherty R, **Olson JL**, Mandava N, Ciardella AP. Clinical Detection of Macular Edema in Diabetic Patients Using the Automated Retinal Imaging System (ARIS). Association for Research in Vision and Ophthalmology, annual meeting, May 01, 2005 (Poster 364/B338).
5. AS Shah AK, Mandava N, **Olson JL**. Three-way comparison of Photodynamic Therapy With and Without Adjunctive Subtenon's or Intravitreal Triamcinolone Acetonide in the Treatment of Choroidal Neovascularization associated with Age-Related Macular degeneration. Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 36/B1029).
6. Zimski L, **Olson J**, Mandava N. Immune Recovery Uveitis Associated with FK 506

- (Tacrolimus) Use After Renal Transplantation. Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 3071/B224).
7. Prall R, Drack A, Gregory D, **Olson J**, Taylor M, Mandava N. Ophthalmic Manifestations of Danon Disease. Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 3071/B224).
 8. MacKenzie DL, **Olson JL**, Kahook MY, Faberowski N, Mandava N. Biometric and Intraocular Pressure Evaluation of Eyes Post Intravitreal Triamcinolone Acetonide and Intravitreal Pegaptanib Injection. Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 4245/B916).
 9. Rudometkin NJ, **Olson JL**, Ciardella AP, Mandava N. Initial Fellow Surgical Efficiency and Complication Rates Comparing 20 vs. 25-Gauge Vitrectomy. Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 4662/B997).
 10. Gohel P, Mandava N, **Olson J**. Vitreous Hemorrhage after Vitrectomy for Proliferative Diabetic Retinopathy Association for Research in Vision and Ophthalmology, annual meeting, May 2006 (Poster 5266/B681).
 11. **Olson J**, Courtney RJ, Mandava N. Intravitreal Anakinra Inhibits Growth of Choroidal Neovascular Membranes in an Animal Model. Combined Meeting of the Club Jules Gonin and The Retina Society, Cape Town, South Africa, October 2006.
 12. N. Mandava, R. Jackson Courtney, **J. Olson**. Intravitreal Infliximab Inhibits Growth of Choroidal Neovascular Membranes in an Animal Model. Combined Meeting of the Club Jules Gonin and The Retina Society, Cape Town, South Africa, October 2006.
 13. B. Rouhani, N. Mandava, **J. Olson**. Central Retinal Vein Occlusion after Intense Exercise in Healthy Patients. Association for Research in Vision and Ophthalmology, annual meeting, May 2007.
 14. Mandava N, Korotkin A, Bennett J, **Olson J**, Quiroz-Mercado H. New Indications for Anti-VEGF Therapy: Retinal Arterial Macroaneurysm (RAM) and Nonarteritic Ischemic Optic Neuropathy (NAION) 31st Annual Macula Society Meeting, Palm Beach, Florida, January 2008.
 15. **Olson J**, Courtney RJ, Mandava N. Intravitreal Anti-Fibroblast Agent in an Animal Model of Choroidal Neovascularization. American Society of Retina Specialists, Maui, Hawaii, October 2008.
 16. C.K. Pan, N. Mandava, S. Oliver, H. Quiroz-Mercado, J.L. Olson. Comparison. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2009 (Poster 2971/A425).
 17. A.M. Hendrick, N. Mandava, H. Quiroz-Mercado, S. Oliver, V. Pelak, **J. Olson**. Bevacizumab for Parry-Romberg Syndrome (PRS) Associated Optic Nerve Edema: An Optical Coherence Tomography (OCT) Case Report. . Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2009 (Poster 3261/A279).
 18. R.J. Courtney, N. Mandava, S. Oliver, H. Quiroz-Mercado, J.L. Olson. Intravitreal

Inhibition of CNV in an Animal Model: A Comparison of Infliximab, Anakinra and LD22-4. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2009 (Poster 2964/A418).

19. Korotkin, H. Quiroz-Mercado, N. Mandava, J.L. Olson, S.C. Oliver, G. Garcia, A. Grinblat. Vitreo-Retinal Dissector (VRD) for Pars Plana Vitrectomy Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2009 (Poster 4459/A596).
20. J.A. Dixon, J.L. Olson, V.D. Durairaj, N. Mandava. The Rate of Ptosis Following Subtenons Corticosteroid Injection Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2009 (Poster 5014/A615).
21. J.L. Olson, R.J. Courtney, N. Mandava. A Comparison of Infliximab, Anakinra and LD22-4 in the Inhibition of Choroidal Neovascularization. American Society of Retina Specialists, Annual Meeting, New York, Sept 2009.
22. K. Stafeeva, C. Pan, C. Patel, **J. Olson**, N. Mandava, S. Oliver, H. Quiroz-Mercado. Importance of Fundus Autofluorescence (FAF) in a Series of Misdiagnosed Cases Involving Choroidal, RPE, and Retinal Pathology. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 306/D659).
23. H. Quiroz-Mercado, C.C. Patel, S.C. Oliver, **J. Olson**, N. Mandava. 25 Gauge Plus Vitrector in Lieu of Vitreoretinal Forceps for Epiretinal Membrane and Internal Limiting Membrane Peeling. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 1763/A469).
24. C.K. Pan, C. Durairaj, U.B. Kompella, O. Agwu, S.C. Oliver, H. Quiroz-Mercado, N. Mandava, **J. Olson**. Comparison of Long-Acting Bevacizumab Formulations in the Treatment of Choroidal Neovascularization in a Rat Model. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 2457/D1053).
25. M.T. Mathias, S. Oliver, **J. Olson**, N. Mandava, H. Quiroz-Mercado, F. Pichi, C. Torrazza, A. Ciardella. Retinal Phototoxicity Caused by Chandelier Endoillumination. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 3614/A183).
26. E.A. McCourt, E.M. Hink, **J. Olson**, N. Mandava, V.D. Durairaj, S.C. Oliver. Isolated Group B Streptococcal Endogenous Endophthalmitis Simulating Retinoblastoma in a Healthy Full Term Infant. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 5291/A144).
27. **J. Olson**, N. Mandava. Intraocular Photoactive Quantum Dots in a Rodent Model of Progressive Photoreceptor Degeneration. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 5574/D623).
28. C.C. Patel, N. Mandava, H. Quiroz-Mercado, S.C. Oliver, R. Braverman, **J. Olson**. Treatment of Intractable Posterior Uveitis in Pediatric Patients with the Fluocinolone

- Acetonide Intravitreal Implant (Retisert). Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2010 (Poster 5889/A12).
29. L. Wei, **J Olson**, M Taravella. Lens Exchanges in the Era of Multifocal Intraocular Lenses. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2011 (Poster).
 30. M Sniegowski, M Erlanger, **J Olson**. Thermal Imaging of Corneal Transplant Rejection. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2011.
 31. K Stafeeva, S Oliver, N Mandava H Quiroz Mercado, **J Olson**. Pan-Ocular Agyrosis from Chronic Silver Nitrate Salt Ingestion. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2011.
 32. Benjamin J. Ernst, Scott C. Oliver, Hugo Quiroz-Mercado, Naresh Mandava, **Jeffrey L. Olson**. Evaluation of Dropped Foreign Bodies in Saline Compared to Perfluorocarbon Liquid. Annual Meeting Fort Lauderdale, May 2011.
 33. R Velez-Montoya, **J Olson**, M Petrash W Messersmith N Mandava, SC. Oliver. Acute Onset Central Serous Retinopathy In Association With Mek Inhibitor Use For Metastatic Cancer Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2011.
 34. C Patel, N Mandava, S Oliver, H Quiroz-Mercado, **J Olson**. A Comparison of Membrane Peeling Forces Created by 20, 23, and 25 Gauge Intraocular Forceps. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2011.
 35. R Bhandari, M Mathias, BJ Ernst, S Schwartz, **J Olson**, S Oliver, N Mandava, H Quiroz-Mercado. Bevacizumab and Comprehensive Grid Subthreshold Laser Using a Minimum of 900 spots as compared to Bevacizumab along for Treatment of Diabetic Macular Edema. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2012 (Poster D946).
 36. L Wei, M Fortin, A Korotkin, N Mandava, S Oliver, H Quiroz-Mercado, **J Olson**. Performance Characteristics of a Straight versus Bent 25-g Vitrector. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2012 (Poster D946).
 37. M Sniegowski, M Erlanger, **J Olson**. Ocular Surface Temperature Differences between Phakic and Pseudophakic patients. Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2012.
 38. S Schwartz, V Baldivieso, A Sabel, N Mandava, **J Olson**, S Oliver, H Quiroz-Mercado. Non-mydratic Single Filed Fundus Camera For Diabetic Retinopathy Screening: Assessment Of Efficacy, Prevalence And Risk Factors In A Safety Net Institution Association for Research in Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2012.
 39. R Velez-Montoya, N Mandava, C Stoldt, **J Olson**. Quantum Dots as Neuroprotective Factor in a Model Of Retinal Photoreceptor Degeneration. Association for Research in

Vision and Ophthalmology, Annual Meeting Fort Lauderdale, May 2012.

40. Expanding Ophthalmic Indications for Nitinol Clips. M Erlanger, J Olson. American Academy of Ophthalmology, Chicago, IL, November 2012. **Awarded Best Paper of Session.**
41. Injectable System for Scleral Fixation of an Intraocular Lens. American Academy of Ophthalmology Annual Meeting. Chicago, 2014. Co-author.
42. Richard Hwang, Raul Velez, Sergio Groman-Lupa, Yu Cheol Kim, **Jeffrey Olson**. Adsorption of VEGF to Hydroxyapatite. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.
43. Yu Cheol Kim, Mariana Harasawa, Guillermo Villanueva, Frank Siringo, Miguel Paciuc-Beja, **Jeffrey Olson**, Naresh Mandava, Hugo Quiroz-Mercado. Enhanced High-density Line Spectral-domain Optical Coherence Tomography Imaging of Vitreoretinal Interface. Description of Selected Cases. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.
44. Nicole Nghiem, David Ammar, Mark Petrash, **Jeffrey Olson**. Ocular Biocompatibility of Nitinol. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.
45. Frank Siringo, **Jeffrey Olson**, Scott Oliver, Marc Mathias, Naresh Mandava, Jesse Smith. Tobacco Use as a Risk Factor for Proliferative Vitreoretinopathy. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.
46. **Jeffrey Olson**. Biotic Implant for Local Oxygenation. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.
47. Anna Mackin, **Jeffrey Olson**. Adsorption of Complement Factor D by polyacrylonitrile hollow fiber membrane. Association for Research in Vision and Ophthalmology, Annual Meeting, Denver, May 2015.

Courses/Lectures

1. Perfluorocarbon Liquids in Macular Hole Surgery. 8th Annual Symposium, Rocky Mountain Lions Eye Institute, September 10th, 2004.
2. Fundamentals of Ophthalmology. UCHSC Basic Science Course, Rocky Mountain Lions Eye Institute, October 18, 2004.
3. Protection of the Retinal Pigment Epithelium during Macular Hole Surgery. American Academy of Ophthalmology, New Orleans, LA, October 26, 2004.
4. Complications of Intravitreal Triamcinolone. Grand Rounds, Rocky Mountain Lions Eye Institute, November 3, 2004.
5. Optical Coherence Tomography Evaluation of Vitreoretinal Interface Disorders. 9th Annual Symposium, Rocky Mountain Lions Eye Institute, September 24, 2005.
6. Condiments in Vitreoretinal Surgery. American Academy of Ophthalmology, Chicago, IL,

October 17, 2005.

7. Inhibition of Angiogenesis in an Animal Model. 10th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2006.
8. Diseases of the Retina and Vitreous. UCHSC Basic Science Course, Rocky Mountain Lions Eye Institute, April, 2007.
9. Diabetic Retinopathy and Patient Screening in a Primary Care Practice. Ophthalmology for the Primary Care Provider Symposium. Denver, CO. April 2007.
10. Immunomodulators and Intraocular Angiogenesis. University of Colorado Vision Research Consortium. September, 2007.
11. Retinal Anatomy and Physiology. UCHSC Basic Science Course, Rocky Mountain Lions Eye Institute, Aurora CO. October, 2007.
12. Off-label Ophthalmic Uses of Anti-angiogenic Drugs. 11th Annual Symposium, Rocky Mountain Lions Eye Institute, October 2007.
13. Surgical Management of Diabetic Retinopathy. 12th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2008.
14. Anti-inflammatory Agents in the Treatment of Retinal Vascular Diseases. 13th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2009.
15. Vital Dyes in Vitreoretinal Surgery. American Academy of Ophthalmology, San Francisco, CA. October 26, 2009.
16. Worst Case Scenarios: Ophthalmic Disasters. Ophthalmic Photographers Society Mid-Year Meeting. Denver, CO. June 18th, 2010.
17. Medical and Surgical Management of Diabetic Retinopathy. Porter Hospital Grand Rounds. Denver, CO. June 24th, 2010.
18. Management of the Dislocated Lens: The View from the Vitreous. 14th Annual Symposium, Rocky Mountain Lions Eye Institute. September 2010.
19. Surgical Technique and Instrumentation: Intraocular Lens Fixation with 30-Gauge Injectable Shape Memory Alloy Clip in a Porcine Eye. American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, CA. March 26th, 2011. **Awarded Best Paper of Session.**
20. Pupilloplasty with 30-Gauge Injectable Shape Memory Alloy Clip in a Porcine Eye. American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, CA. March 27th, 2011.
21. Retinal Stimulation with Photoactive Quantum Dots in a Model of Progressive Photoreceptor Degeneration. American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, CA. March 28th, 2011. **Selected for Innovators Session.**
22. New Technology for Fixating the Dislocated Intraocular Lens. Video Presentation, American Society of Retina Specialists Annual Meeting. Boston, MA. August 2011.

Awarded Best Video.

23. New Device for Management of Intraocular Foreign Bodies. 15th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2011.
24. New Technology for Fixating the Dislocated Intraocular Lens. Retina Sub-Specialty Day, American Academy of Ophthalmology Annual Meeting. Orlando, FL, October 2011.
25. Pupiloplasty Utilizing an Injectable Nitinol Suture (co-author). American Academy of Ophthalmology Annual Meeting, Orlando, FL. October 2011. **Awarded Best Paper of Session.**
26. Expanding Clinical Indication for Injectable Nitinol Suture (co-author). American Society of Cataract and Refractive Surgery Annual Meeting. Chicago, IL. March, 2012. **Selected for Innovators Session.**
27. New Technique and Technology for Management of Intraocular Foreign Bodies. American Society of Cataract and Refractive Surgery Annual Meeting. Chicago, IL. March, 2012. **Awarded Best Paper of Session.**
28. New Device for Management of the Posteriorly Dislocated Lens. American Society of Cataract and Refractive Surgery Annual Meeting. Chicago, IL. March, 2012. **Film Festival Award Winner.**
29. A New Technique for Safe, Atraumatic Removal of Intraocular Foreign Bodies. American Society of Retina Specialists Annual Meeting. Las Vegas, NV. August 2012. **Awarded Best Video.**
30. Management of Choroidal Hemorrhages and Effusions. 16th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2012.
31. Instrumentation for Safe, Atraumatic Removal of Intraocular Foreign Bodies. Retina Subspecialty Day, American Academy of Ophthalmology Annual Meeting, Chicago, IL, November 2012.
32. New Technique for Fixation of the Dislocated Intraocular Lens. 17th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2013.
33. Neuroprotective Effect of Photoactive Quantum Dots in Progressive Retinal Degenerations. Invited Lecture. World Ophthalmology Congress, Tokyo, Japan. March 2014.
34. A Retractable Fiber Optic Loop for Vitreoretinal Surgery. American Society of Retina Specialists Annual Meeting. San Diego, CA 2014.
35. Posterior Migration of an Iris Expansion Ring during Phacoemulsification. American Society of Retina Specialists Annual Meeting. San Diego, CA 2014.
36. Down is Up: Fixing Inferior Retinal Pathology in Patients Unable to Position. American Society of Retina Specialists Annual Meeting. San Diego, CA 2014.
37. An Injectable System for Scleral Fixation of a Dislocated IOL. American Society of Retina

- Specialists Annual Meeting. San Diego, CA 2014.
38. Prevention of Hypotony and Choroidals Following Glaucoma Drainage Device Implantation. American Society of Retina Specialists Annual Meeting. San Diego, CA 2014.
 39. Ischemic Retinopathies and Vitreous Oxygenation. 18th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2014.
 40. Posterior Migration of a Malyugin Ring during Phacoemulsification. Video Presentation, American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, April 2015. **Film Festival Award Winner.**
 41. An Injectable Suture for Scleral Fixation of an Intraocular Lens (co-author). American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, April 2015.
 42. Removal of an Intact Malyugin Ring from the Vitreous Cavity. Video Presentation, American Society of Retina Specialists Annual Meeting. Vienna, July 2015. **Film Festival Award Winner.**
 43. Removal of Serrated Metallic IOFB with Nitinol Loop Grasping Device. American Society of Retina Specialists Annual Meeting (co-author). Vienna, July 2015.
 44. Extended Duration Treatment Therapies for Macular Degeneration. 19th Annual Symposium, Rocky Mountain Lions Eye Institute, September 2015.
 45. Concurrent Anterior Segment Ischemia and Endophthalmitis. Retina Society Annual Meeting. Paris, France. October 2015.
 46. Encapsulated Cell Technology for Ischemic Retinopathies. Retina Society Annual Meeting. Paris, France. October 2015.