

CURRICULUM VITAE

Marc T. Mathias, M.D.

Assistant Professor
Vitreoretinal Diseases and Surgery
Department of Ophthalmology
University of Colorado School of Medicine
UCHealth Eye Center
1675 Aurora Court, Mail Stop F731
Aurora, CO 80045

Appointments: 720-848-2020

PREDOCTORAL EDUCATION

2002 – 2004 Pre-Medical: Bachelor of Arts, Biology
Boston College, Chestnut Hill, MA
Summa cum laude

2004 – 2008 Medical: Doctor of Medicine
The Ohio State University College of Medicine, Columbus, OH
Magna cum laude

POSTDOCTORAL TRAINING

2008 – 2009 Internship: Internal Medicine, The Ohio State University Wexner
Medical Center, Columbus, OH

2009 – 2012 Residency: Ophthalmology, Department of Ophthalmology, University of
Colorado School of Medicine, Aurora, CO

2012 – 2014 Fellowship: Vitreoretinal Diseases and Surgery, Department of
Ophthalmology, University of Colorado School of Medicine,
Aurora, CO

ACADEMIC APPOINTMENTS

2012 – 2014 Instructor, Department of Ophthalmology, University of Colorado School
of Medicine, Aurora, CO

2014 – Assistant Professor, Department of Ophthalmology, University of
Colorado School of Medicine, Aurora, CO

HOSPITAL STAFF APPOINTMENTS

- 2012 – University of Colorado Hospital, Aurora, CO
- 2012 – Children’s Hospital Colorado, Aurora, CO
- 2012 – Denver Health Medical Center, Denver, CO
- 2012 – Veteran’s Administration Hospital, Denver, CO
- 2012 – Saint Joseph Hospital, Denver, CO

HONORS, AWARDS AND RECOGNITION

- 2004 Phi Beta Kappa, Boston College
- 2004 Summa cum laude, Boston College
- 2005 Samuel J. Roessler Memorial Medical Scholarship in research, The Ohio State University College of Medicine
- 2006 Landacre Honor Society, The Ohio State University College of Medicine
- 2007 Alpha Omega Alpha Inductee, The Ohio State University COM
- 2008 Magna cum laude, The Ohio State University College of Medicine
- 2011 Ambassador, American Academy of Ophthalmology Advocacy Ambassador Program, to attend Congressional Advocacy Day, Washington, D.C.

PROFESSIONAL MEMBERSHIPS

- 2009 – American Academy of Ophthalmology (AAO)
- 2009 – Association for Research in Vision and Ophthalmology (ARVO)
- 2012 – American Society of Retina Specialists (ASRS)
- 2014 – Colorado Society of Eye Physicians and Surgeons (CSEPS)

COMMITTEE AND SERVICE RESPONSIBILITIES

Department of Ophthalmology, University of Colorado School of Medicine

- 2014 – Selection Committee, Vitreoretinal Diseases and Surgery Fellowship
- 2014 – Selection Committee, Ophthalmology Residency
- 2015 Faculty Search Committee, Low Vision Rehabilitation Optometrist

LICENSURE AND BOARD CERTIFICATION

- 2008 – 2010 Medical Doctor Training License, Ohio
- 2009 – 2012 Physician Training License, Colorado
- 2012 – Physician License, Colorado
- 2014 – Diplomate, American Board of Ophthalmology

EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS

- 2014 – Reviewer, European Journal of Ophthalmology

INVITED LECTURES AND PRESENTATIONS

Local

1. **Mathias MT.** Single Grid Pattern Focal Laser Treatment for Diabetic Macular Edema Using a Minimum of 900 Sub-Threshold Spots. 14th Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. June 19, 2010.
2. **Mathias MT.** Combination Bevacizumab and Grid Pattern Focal Laser Using a Minimum of 900 Sub-Threshold Spots for Diabetic Macular Edema. 15th Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. June 18, 2011.
3. **Mathias MT.** Atypical Presentations of Orbital Cellulitis Caused by Methicillin-Resistant *Staphylococcus aureus*. 16th Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. June 16, 2012.
4. **Mathias MT.** Intravitreal Bevacizumab for Dense Vitreous Hemorrhage and the Incidence of Vitrectomy. 17th Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. June 15, 2013.
5. **Mathias MT.** Retinal Endotamponade: New Approaches for an Old Problem. Invited Lecture. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. October 21, 2013.
6. **Mathias MT.** Exudative Macular Degeneration: Anti-VEGF Pharmacotherapy in the Modern Era. Invited Lecture. University of Colorado School of Pharmacy. Aurora, CO. November 6, 2013.
7. **Mathias MT.** Combination Silicone Oil and Perfluoro-n-octane Endotamponade for Retinal Detachment. 18th Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. June 14, 2014.
8. **Mathias MT.** Curing the Incurable: An Update on Stem Cells and Gene Therapy. 19th Annual Ophthalmology Symposium. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. September 18, 2015.
9. **Mathias MT, Siringo FS.** Retina Case Discussions. 20th Annual Ophthalmology Symposium. University of Colorado School of Medicine, Department of Ophthalmology. Aurora, CO. September 23, 2016.

Regional

1. **Mathias MT.** Sifting Through the Latest on Diabetes Eye Health. Invited Lecture. Rocky Mountain Association of Diabetes Educators (RMADE) Annual Meeting. Denver, CO. September 25, 2015.

CLASSROOM INSTRUCTIONAL ACTIVITIES, DIDACTIC TEACHING

1. **Mathias MT.** Retinal Degenerations. Resident Basic and Clinical Science Course, Department of Ophthalmology, University of Colorado SOM. Aurora, CO. February 7, 2014.
2. **Mathias MT.** Posterior Segment of the Eye. Medical Student Lecture Series, Nervous System Block, University of Colorado SOM. Aurora, CO. September 23, 2014.
3. **Mathias MT.** Posterior Segment of the Eye. Medical Student Lecture Series, Nervous System Block, University of Colorado SOM. Aurora, CO. September 23, 2015.
4. **Mathias MT.** Retinal and Choroidal Degenerations and Toxicities. Resident Basic and Clinical Science Course, Department of Ophthalmology, University of Colorado SOM. Aurora, CO. March 4, 2016.
5. **Mathias MT.** Retinal and Choroidal Degenerations and Toxicities. Resident Basic and Clinical Science Course, Department of Ophthalmology, University of Colorado SOM. Aurora, CO. August 19, 2016.
6. **Mathias MT.** Posterior Segment of the Eye. Medical Student Lecture Series, Nervous System Block, University of Colorado SOM. Aurora, CO. September 21, 2016.
7. **Mathias MT.** Retina Part I: Inherited Retinal Diseases and Clinical Correlation. Current Topics in Ophthalmology Class, University of Colorado SOM. Aurora, CO. October 19, 2016.

MENTORING ACTIVITIES

Clinical Fellows

2014 – 2016 Richard Hwang, MD, PhD, private practice, Texas

2015 – 2017 Nathan Haines, MD

2016 – 2018 Eric Feinstein, MD

RESEARCH SUPPORT

Current Research Support

1. **Regeneron**, 12-1526, Kahook (PI): “Use of Intravitreal Aflibercept Injection for Neovascular Glaucoma”, Co-Investigator, 2012-2017.
2. **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).” Co-Investigator, 2014-2017.
3. **Clearside Biomedical, Inc**, CLS1001-301, Noronha (PI): “A Phase 3, Randomized, Masked, Controlled Clinical Trial to Study the Safety and Efficacy

of Triamcinolone Acetonide Injectable Suspension (CLS-TA) for the Treatment of Subjects With Macular Edema Associated With Non-infectious Uveitis”, Co-Investigator, 2015-2017.

Prior Research Support

1. **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.
2. **Santen, Inc.**, 32-007, Abraham (PI): “A Phase III, Multinational, Multicenter, Randomized, Double-Masked, Study Assessing the Safety and Efficacy of Intravitreal Injections of DE-109 (three doses) for the Treatment of Active, Non-Infectious Uveitis of the Posterior Segment of the Eye”, Co-Investigator, 2014-2016.

PUBLICATIONS:

Peer-Reviewed

1. **Mathias M**, Ernst BJ, Pichi F, Torrazza C, Ciardella A, Oliver SC. [Thermal deformation of chandelier endoillumination probes exposed to uveal tissue and blood.](#) Retina. 2012 Apr;32(4):773-5. doi: 10.1097/IAE.0b013e3182252aff. PubMed PMID: 22080910.
2. **Mathias MT**, Horsley MB, Mawn LA, Laquis SJ, Cahill KV, Foster J, Amato MM, Durairaj VD. [Atypical presentations of orbital cellulitis caused by methicillin-resistant Staphylococcus aureus.](#) Ophthalmology. 2012 Jun;119(6):1238-43. doi: 10.1016/j.optha.2012.01.010. PubMed PMID: 22406032.
3. **Mathias M**, Nagel MA, Khmeleva N, Boyer PJ, Choe A, Durairaj VD, Bennett JL, Mandava N, Gilden D. [VZV multifocal vasculopathy with ischemic optic neuropathy, acute retinal necrosis and temporal artery infection in the absence of zoster rash.](#) J Neurol Sci. 2013 Feb 15;325(1-2):180-2. doi: 10.1016/j.jns.2012.12.021. PubMed PMID: 23312850; PubMed Central PMCID: PMC3586992.
4. 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. doi: 10.3928/23258160-20130909-18. PubMed PMID: 24044719.
5. Salcedo-Villanueva G, **Mathias MT**, Mandava N, Quiroz-Mercado H. [Correspondence.](#) Retina. 2014 Jul;34(7):e16-7. doi: 10.1097/IAE.0000000000000210. PubMed PMID: 24926594.

6. 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. doi: 10.1097/IAE.0000000000000373. PubMed PMID: 25313712.
7. 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. doi: 10.1136/bjophthalmol-2015-307081. PubMed PMID: 26269533.
8. 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] PubMed PMID: 27124792.

ABSTRACTS AND POSTERS

1. **Mathias MT**, Oliver SC, Olson JL, Mandava N, Quiroz-Mercado H, Pichi F, Torrazza C, Ciardella A. Retinal Phototoxicity: Possible Association with Chandelier Endoillumination. Association for Research in Vision and Ophthalmology Annual Meeting. Fort Lauderdale, FL. [Poster 3614-A183]. May 4, 2010.
2. **Mathias MT**, Quiroz-Mercado H, Mandava N, Oliver SCN, Olson JL. Combination Bevacizumab and Grid Pattern Focal Laser Using a Minimum of 900 Sub-Threshold Spots for Diabetic Macular Edema. Association for Research in Vision and Ophthalmology Annual Meeting. Vancouver, Canada. [Poster #587-A327]. May 1, 2011.
3. Bhandari R, **Mathias MT**, Ernst BJ, Schwartz S, Olson J, Oliver SC, Mandava N, Quiroz-Mercado H. Combination Bevacizumab and Comprehensive Grid Subthreshold Laser Using a Minimum of 900 Spots as Compared to Bevacizumab Alone for Treatment of Diabetic Macular Edema. Association for Research in Vision and Ophthalmology Annual Meeting. Fort Lauderdale, FL. [Poster 395-D946]. May 6, 2012.
4. Quiroz-Mercado H, Bhandari R, Schwartz S, Olson JL, Oliver SC, Mandava N, Velez-Montoya R, **Mathias MT**. Small Gauge Direct Silicone Oil (SO) Perfluoro-n-octane (PFO) Interchange. Comparison of Two Methods: Use of Chandelier Light (CHL) and Use of Viscous Fluid Infusion Cannula (VFIC). Association for Research in Vision and Ophthalmology. Seattle, WA. [Poster 2875-B0184.] May 7, 2013.
5. 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 Non-Occluded Retina in Branch Retinal

Vein Occlusion and its Response to Anti-angiogenic Therapy. Association for Research in Vision and Ophthalmology. Orlando, FL. [Poster 1935-B0200.] May 5, 2014.

6. Harasawa M, Salcedo-Villaneuva G, Paciuc-Beja M, **Mathias MT**, Velez-Montoya R, Olson JL, Oliver SC, Mandava N, Quiroz-Mercado H. Spectral Domain Optical Coherence Tomographic Analysis of the Ocular Equator. Association for Research in Vision and Ophthalmology. Orlando, FL. [Poster 3394-C0087.] May 6, 2014.
7. **Mathias MT**, Bhandari R, Olson, JL. Combination Silicone Oil and Perfluoro-n-octane Endotamponade for Retinal Detachment. American Society of Retina Specialists Annual Meeting. San Diego, CA. [Poster 356]. August 11, 2014.
8. Siringo FS, Olson JL, Oliver SC, **Mathias MT**, Mandava N, Smith JM. Current Tobacco Use as a Risk Factor for Proliferative Vitreoretinopathy. Association for Research in Vision and Ophthalmology Annual Meeting. Denver, CO. May 2015.

COMMUNITY SERVICE

2008 Volunteer, Unite for Sight, Chennai, India