

CURRICULUM VITAE ROBERT M KINAST, MD

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Position: Glaucoma Specialist, Devers Eye Institute
Associate Director of Glaucoma Fellowship, Devers Eye Institute
Adjunct Associate Professor, Casey Eye Institute

Medical License: Medical Board of OR, MD152518, expires 12/31/2019

Board Certification: American Board of Ophthalmology, expires 12/31/2022

EDUCATION

8/02 – 6/06 **University of Michigan Medical School**, Ann Arbor, MI
Doctorate in Medicine

6/01 – 8/01 **Oxford University**, Oxford, England
Studies in the Anthropology of Religion

9/97 – 12/00 **University of Michigan**, Ann Arbor, MI
Bachelor of Arts, Studies in Religion

PROFESSIONAL EXPERIENCE

7/13 – Present **Associate Director of Glaucoma Fellowship**, Legacy Devers Eye Institute, Portland, OR

7/12 – Present **Adjunct Assistant Professor**, OHSU Casey Eye Institute, Portland OR

7/12 – Present **Consultant**, US Food and Drug Administration, Washington, DC

1/12 – Present **Glaucoma Specialist**, Legacy Devers Eye Institute, Portland, OR

1/11 – 12/11 **Glaucoma Fellow**, Legacy Devers Eye Institute, Portland, OR

7/10 – 10/10 **Chief Resident**, California Pacific Medical Center, San Francisco, CA

11/7 – 10/10 **Ophthalmology Resident**, California Pacific Medical Center, San Francisco, CA

6/06 – 6/07 **General Surgery Intern**, University of Pennsylvania, Presbyterian Hospital, Philadelphia, PA

RESEARCH TRAINING

- 1/11 – Present** **Devers Eye Institute/Discoveries in Sight**, Portland, OR
- Patient Adherence with Eye Drops, Stability and Concentration of Mitomycin C with Liquid Chromatography, Glaucoma Tube Devices, Optic Nerve Imaging, Social Media and Ophthalmology, Primary Angle Closure
Research Directors: Steven L Mansberger MD MPH, Claude F. Burgoyne MD
- 11/07 – 10/10** **California Pacific Medical Center**, San Francisco, CA
- Repeatability of Selective Laser Trabeculoplasty, Social Media and Ophthalmology, Serous Retinal Detachments in Uveitis, Diabetes Education in Ophthalmology
Research Directors: Susan H Day MD, Jason Bacharach MD, Anne Fung MD, Emmett T Cunningham MD PhD MPH
- 8/07 – 10/07** **Pacific Vision Research Fellowship**, San Francisco, CA
- Diabetes Education in Ophthalmology
Research Director: Anne Fung MD
- 1/07 – 6/07** **University of Pennsylvania**, Philadelphia, PA
- Aesthetics and Visual Processing
Research Director: Andrew Newberg MD
- 8/05 – 2/06** **University of Michigan Kellogg Eye Center**, Ann Arbor, MI
- Vitrectomy with Temporary Keratoprosthesis Outcomes
Research Director: Shahzad Mian MD
- 6/03 – 9/03** **Michigan Biomedical Research Program**, Ann Arbor, MI
- Oral Mucosal Grafts in Hypospadias Repair
Research Director: John M Park MD
- 11/98 – 5/99** **Michigan Department of Neuroendocrinology**, Ann Arbor, MI
- Glucoprivic Suppression of Luteinizing Hormone
Research Director: Douglas Foster PhD

ACCOMPLISHMENTS AND AWARDS

- 2018** Foresight Science & Technology, Niche Assessment Program Selectee
- 2018** National Eye Institute, Small Business Technology Transfer Award
- 2017** Business Oregon Phase 0 Award
- 2016** Oregon Health & Science University, Biomedical Innovation Program (BIP) Award
- 2016** American Glaucoma Society, Mentoring for the Advancement of Physician Scientists (MAPS) Award
- 2014** Casey Eye Institute Faculty Teaching Award
- 2008** Starr E. Schulman Fellowship, California Academy of Ophthalmology Travel Grant for the American Academy of Ophthalmology Mid-Year Forum, Washington, D.C.
- 2007** Pacific Vision Foundation Research Grant

2005	University of Michigan Patient Care Commendation
2003	Michigan Biomedical Research Program Research Grant
2001	Phi Beta Kappa
2001	University Honors
1999	James B. Angell Scholar
1998	William J Branstrom Prize
1997	Cum Laude Society

VOLUNTEER WORK

2014	American Academy of Ophthalmology Annual Meeting Course Monitor
2012 – Present	Devers/Casey Eye Institutes Glaucoma Fellowship Selection Committee Chair
2012 – 2014	Casey Eye Institute Resident Selection Committee Member
2012	Lewis and Clark College & Oregon Academy of Ophthalmology Mentorship Panels
2011 – Present	Devers Online Medical Records, Call Schedule, and Internet Committees
2005	University of Michigan Professionalism Design Committee
2004 – 2005	GlobalReach Student Executive Board
2002 – 2005	University of Michigan Medical School Honor Council, Co-President
2002 – 2004	American Medical Student Association Michigan Executive Board

ORGANIZATIONS

- American Glaucoma Society, 2012 – present
- Oregon Medical Association, 2012 – present
- Oregon Academy of Ophthalmology, 2011 – present
- American Society of Cataract and Refractive Surgery, 2011 – 2015
- American Academy of Ophthalmology, 2008 – present
- Association for Research in Vision and Ophthalmology, 2008 – 2014
- California Academy of Eye Physicians and Surgeons, 2008 – 2010
- American Medical Association, 2002 – 2009

PRESENTATIONS

National/International:

Jones E, Mansberger SL, **Kinast RM**, Chen A. Trabeculectomy Techniques Course. *American Academy of Ophthalmology*, Chicago, IL, October 2018.

Hong S, Koenigsman H, Yang H, Ren R, Reynaud J, **Kinast RM**, Mansberger SL, Fortune B, Demirel S, Gardiner SK, Burgoyne CF. Optic Nerve Head Rim Width Discordance between Glaucoma Specialists and Optical Coherence Tomography in Glaucoma and Glaucoma Suspect Eyes. Poster. *Association for Research in Vision and Ophthalmology*. Honolulu, HA, April 2018.

Morrison JC, Mansberger SL, **Kinast RM**, Chen A. Trabeculectomy Techniques Course. *American Academy of Ophthalmology*, New Orleans, LA, November 2017.

Kinast RM. Mitomycin and the Bleb. Invited lecture, Visiting Professor. *Medical College of Wisconsin*, Milwaukee, WI, October 2017.

Kinast RM. Trabeculectomy Surgery and Style. Invited lecture, Visiting Professor. *Medical College of Wisconsin*, Milwaukee, WI, October 2017.

Kinast RM. Mitomycin C and Bleb Formation. Invited lecture, Visiting Professor. *California Pacific Medical Center*, San Francisco, CA, April 2015.

Kinast RM. Trabeculectomy Management. Invited lecture, Visiting Professor. *California Pacific Medical Center*, San Francisco, CA, April 2015.

Kinast RM, Akula KK, Mansberger SL, Barker GD, Gardiner SK, Whitson E, DeBarber A. Concentration Accuracy of Compounded Mitomycin C for Ophthalmic Surgery. Poster. *American Glaucoma Society*, San Diego, CA, February 2015.

Kinast RM, Barker GD, Day SH, Mansberger SL. Online Reviews of Ophthalmologists Compared By Subspecialty. Paper. *American Society of Cataract and Refractive Surgeons*, Boston, MA, April 2014.

Kinast RM, Barker GD, Akula KK, DeBarber A, Whitson E, Mansberger SL. The Degradation of Mitomycin under Various Storage Methods. Poster. *American Glaucoma Society*, Washington, DC, February 2014.

Burgoyne CF, Ren R, Koenigsman H, **Kinast RM**, Reynaud J, Yang H, Gardiner SK, Mansberger SL, Fortune B, Demirel S. Variability of Glaucoma Specialists' Rim Width Estimates and their Accuracy Relative to Colocalized Spectral Domain Optical Coherence Tomography (SDOCT). Paper. *American Glaucoma Society*, Washington, DC, February 2014.

Kinast RM, Barker GD, Day SH, Mansberger SL. Patient Satisfaction Within Online Reviews of Ophthalmologists Evaluated by Content Analysis. Poster. *American Academy of Ophthalmology*, New Orleans, LA, November 2013.

Burgoyne CF, Ren R, Koenigsman H, **Kinast RM**, He J, Reynaud J, Yang H, Gardiner SK, Mansberger SL, Fortune B, Demirel S. Variability of Glaucoma Specialists' Rim Width Estimates and their Accuracy Relative to Colocalized Spectral Domain Optical Coherence Tomography (SDOCT). Poster. *World Glaucoma Congress*. Vancouver, Canada, July, 2013.

Kinast RM, Ren R, Koenigsman H, Yang H, Gardiner SK, Reynaud J, Mansberger SL, Fortune B, Demirel S, Burgoyne CF. Glaucoma Clinician Color Stereophoto Rim Estimation Compared to

Colocalized Spectral Domain Optical Coherence Tomography Minimum Rim Measurements. Poster. *Association for Research in Vision and Ophthalmology*. Seattle, WA, May 2013.

Koenigsman H, Ren R, Yang H, Gardiner SK, Reynaud J, **Kinast RM**, Mansberger SL, Fortune B, Demirel S, Burgoyne CF. Variability in Optic Disk Margin and Rim Assessment by Glaucoma Specialists. Poster. *Association for Research in Vision and Ophthalmology*. Seattle, WA, May 2013.

Ren R, Koenigsman H, **Kinast RM**, He J, Reynaud J, Yang H, Gardiner SK, Mansberger SL, Demirel S, Burgoyne CF. Variability of Glaucoma Specialists' Rim Width Estimates and their Accuracy Relative to Colocalized Spectral Domain Optical Coherence Tomography (SDOCT). Paper. *ISIE/Imaging Conference*. Seattle, WA, May 2013

Kinast RM, Shaw RE, Day SH. Concordance of Yelp Internet Patient-Reviews with Peer-Reviews for Ophthalmologists in San Francisco. Poster. *Association for Research in Vision and Ophthalmology*. Fort Lauderdale, FL, May 2010.

Volosko I, Fung AE, **Kinast RM**, Shaw RE. Knowledge of Diabetes and Diabetic Eye Disease among Individuals of Eastern European Russian Descent with and without Diabetes. Poster. *Association for Research in Vision and Ophthalmology*. Fort Lauderdale, FL, May 2010.

Kinast RM, Shaw RE, Fung A. Diabetic Teaching in an Ophthalmology Office: A Prospective Study on the Necessity and Efficacy of Teaching Interventions. Poster. *Association for Research in Vision and Ophthalmology*. Fort Lauderdale, FL, April 2008.

Regional:

Kinast RM. Name that Angle Closure! A Proposal to Update Nomenclature. *Legacy Devers Eye Institute Grand Rounds*. Portland, OR, December 2018.

Chauhan B, **Kinast RM**, Burgoyne CF, Jones E, Mansberger SL. Glaucoma Cases Panel Discussion. *Thorny Issues in Ophthalmology Conference*. Portland, OR, October 2017.

Chu Y, **Kinast RM**. Minimally Invasive Glaucoma Surgery Devices Debate. *Thorny Issues in Ophthalmology Conference*. Portland, OR, September 2016.

Kinast RM. Mitomycin C Injections and the Bleb – Stability, Concentration, and Dose Studies with HPLC. *Legacy Devers Eye Institute Grand Rounds*. Portland, OR, November 2015.

Kinast RM. Primary Angle Closure. *Southwestern Washington Optometric Society*. Vancouver, WA, October 2015.

Garway-Heath DF, **Kinast RM**, Burgoyne CF, Jones E, Mansberger SL. Glaucoma Cases Panel Discussion. *Thorny Issues in Ophthalmology Conference*. Portland, OR, September 2015.

Kinast RM. The Aging Eye. *Eye Vitals Meeting*. Portland, OR, October 2014.

Ahmed I, **Kinast RM**, Burgoyne CF, Jones E, Mansberger SL. Glaucoma Cases Panel Discussion. *Thorny Issues in Ophthalmology Conference*. Portland, OR, September 2014.

Kinast RM. Online Patient Satisfaction. *Legacy Devers Eye Institute Grand Rounds*. Portland, OR, November 2013.

Kinast RM. Update on Ophthalmology. *Thorny Issues in Ophthalmology Conference.* Portland, OR, September 2013.

Cioffi GA, **Kinast RM**, Burgoyne CF, Jones E, Mansberger SL. The Scourge: Glaucoma Cases Panel Discussion. *Thorny Issues in Ophthalmology Conference.* Portland, OR, September 2013.

Kinast RM. Social Media's View of the Eye World. *Thorny Issues in Ophthalmology Conference.* Portland, OR, September 2012.

Kahook M, **Kinast RM.** The Great Debate: Preservative-free Glaucoma Drops as First Line Treatment. *Thorny Issues in Ophthalmology Conference.* Portland, OR, September 2012.

Kinast RM. Masquerade Syndromes in Uveitis. *Thorny Issues in Ophthalmology Conference.* Portland, OR, September 2011.

Kinast RM, Bacharach J, Katz LJ, Iwach A, Radhakrishnan S, Francis BA. Selective Laser Trabeculoplasty Repeatability. *CPMC Barkan Resident Research Symposium.* San Francisco, CA, June 2010.

Kinast RM, Shaw RE, Day SH. Concordance of Yelp Internet Patient-Reviews with Peer-Reviews for Ophthalmologists in San Francisco. *CPMC Barkan Resident Research Symposium.* San Francisco, CA, June 2009.

Kinast RM, Shaw RE, Fung A. Diabetic Teaching in an Ophthalmology Office: A Prospective Study on the Necessity and Efficacy of Teaching Interventions. *CPMC Barkan Resident Research Symposium.* San Francisco, CA, June 2008.

Local:

Kinast RM. Primary Angle Closure Nomenclature. *Casey Eye Resident Lecture Series.* Portland, OR, December 2017.

Kinast RM. Vision and the Eye. *Lion's Foundation for Middle School Students Presentation.* Portland, OR, November 2016.

Kinast RM. The Aging Eye: Glaucoma, Cataracts, and AMD. *Eye Vitals Meeting.* Portland, OR, October 2016.

Kinast RM. Acute Primary Angle Closure Crisis. *Casey Eye Resident Lecture Series.* Portland, OR, August 2016.

Kinast RM. Primary Angle Closure. *Casey Eye Resident Lecture Series.* Portland, OR, December 2015.

Kinast RM. The Red Eye. *Eye Vitals Meeting.* Portland, OR, October 2014.

Kinast RM. Primary Angle Closure Glaucoma. *Casey Eye Resident Lecture Series.* Portland, OR, December 2013.

Kinast RM, Ophthalmology Update by Subspecialty for Primary Care Physicians. *Legacy Meridian Park Primary Care Conference.* Portland, OR, May 2013

Kinast RM. Acute Primary Angle Closure Crisis. *Casey Eye Resident Lecture Series.* Portland, OR, July 2012.

Kinast RM. Post-operative Trabeculectomy Issues. *CPMC Chief Rounds.* San Francisco, CA, August 2011.

Kinast RM. Visual Fields. *Casey Eye Resident Lecture Series.* Portland, OR, July 2011.

Kinast RM. Cystoid Macular Edema. *Bay Area Basics.* San Francisco, CA, December 2008.

Kinast RM. Common Diseases in Ophthalmology. *Annual Lion's Foundation Meeting.* San Francisco, CA, July 2008.

Kinast RM. Idiopathic Myositis. *Arthur Jampolsky Day.* San Francisco, CA, March 2008.

Kinast RM. Ophthalmology Grand Rounds. 25+ presentations. *CPMC Department of Ophthalmology.* San Francisco, CA.

Kinast RM. Long-term patient-reported outcome and satisfaction after oral mucosa graft urethroplasty for hypospadias. Poster. *Michigan Student Biomedical Research Forum.* Ann Arbor, MI, November 2003.

PUBLICATIONS

Woo Hong S, Koenigsman H, Yang H, Ren R, Reynaud J, **Kinast RM**, Mansberger SL, Fortune B, Demirel S, Gardiner SK, Burgoyne CF. Glaucoma Specialist Detection of Optical Coherence Tomography Suspicious Rim Tissue in Glaucoma and Glaucoma Suspect Eyes. *American Journal of Ophthalmology.* 2018 Nov: Epub.

Woo Hong S, Koenigsman H, Ren R, Yang H, Gardiner SK, Reynaud J, **Kinast RM**, Mansberger SL, Fortune B, Demirel S, Burgoyne CF. Glaucoma Specialist Optic Disk Margin, Rim Margin, and Rim Width Discordance in Glaucoma and Glaucoma Suspect Eyes. *American Journal of Ophthalmology.* 2018 Aug: 65-76.

Kinast RM and Mansberger SL. Glaucoma Adherence - where we have been and need to go (Editorial). *American Journal of Ophthalmology.* 2018 Jul: xiii-xv.

Francis BA, Loewen N, Hong B, Dustin L, Kaplowitz K, **Kinast R**, Bacharach J, Radhakrishnan S, Iwach A, Rudavska L, Ichpujani P, Katz LJ. Repeatability of Selective Laser Trabeculoplasty for Open Angle Glaucoma. *BMC Ophthalmol.* 2016 Jul: 128-135.

Kinast RM, Akula KK, Barker GD, DeBarber A, Whitson E, Mansberger SL. The degradation of mitomycin under various storage methods. *Journal of Glaucoma.* 2016 Jun: 477-481.

Kinast RM, Akula KK, Mansberger SL, Barker GD, Gardiner SK, Whitson E, DeBarber A. Concentration Accuracy of Compounded Mitomycin C for Ophthalmic Surgery. *JAMA Ophthalmol.* 2016 Feb: 191-195.

Kinast RM. Building a Glaucoma Practice in the Patient Satisfaction Era. *Glaucoma Today.* 2015 Aug: 28-32.

Kinast RM, Barbarino S, Yu J. In Your Head. *Millennial Eye.* 2015 Mar/Apr.

Baker-Schena L, **Kinast RM**, Lee PP, Rich WL. Growing Role of Patient Satisfaction Poses Challenges. *EyeNet.* 2015 Apr: 31-32.

Kinast RM, Barker GD, Day SH, Gardiner SK, Mansberger SL. Factors related to online patient satisfaction of ophthalmologists. *Ophthalmology*. 2014 Sep: 183-185.

Kinast RM, Mansberger, SL. Should you fire your patients for poor adherence? A systemic approach to glaucoma adherence is needed. *Glaucoma Today*. 2012 Mar: 49-50.

Kinast RM, Hammerschlag S, Silkiss RZ. Ed. Oetting TA. Morning rounds: the weight-lifting enthusiast with the droopy eyelid. *EyeNet*. 2008 Oct: 59-60.

Nelson CP, Bloom DA, **Kinast R**, Wei JT, Park JM. Patient-reported sexual function after oral mucosa graft urethroplasty for hypospadias. *Urology*. 2005 Nov: 1086-1089.

Nelson CP, Bloom DA, **Kinast R**, Wei JT, Park JM. Long-term patient-reported outcome and satisfaction after oral mucosa graft urethroplasty for hypospadias. *Journal of Urology*. 2005 Sep: 1075-1078.

SCIENTIFIC JOURNAL REVIEW

Investigative Ophthalmology & Visual Science, 2016 – Present
PLOS ONE, 2016 – Present
Ophthalmology, 2016 – Present
Journal of Cataract and Refractive Surgery, 2016 – Present
Eye, 2016 – Present
Medical Care, 2015 – Present
Journal of Glaucoma, 2011 – Present

RESEARCH SUPPORT

Current Research Support

National Institutes of Health STTR Program 2018 – Present
A universal eye drop adherence monitor to measure and improve adherence to ocular medications (Co-PI's Porter and Mansberger)
Develop a smart eye drop monitor in conjunction with Oregon State University Engineering.
Total Support: \$224,997
Role: Co-Investigator

Oregon Health & Science University, Biomedical Innovation Program 2016 – Present
Novel Glaucoma Device (PI: Simons)
Develop a glaucoma tube implant with modifiable flow.
Total Support: \$40,000
Role: Co-Investigator

American Glaucoma Society, Mentoring for the Advancement of Physician Scientists 2016 - Present
Eye Drop Medication Adherence and Delivery Study (PI: Kinast)
Test success of an eye drop delivery device at improving medication adherence.
Total Support: \$10,000
Role: Primary Investigator

National Eye Institute 2012 - Present
Ocular Hypertension Treatment Study (PI: Mansberger)

Determine whether reduction of intraocular pressure with ocular hypotensive medications prevents or delays the development of glaucoma in ocular hypertensive patients.

Total Support: \$2,470,000

Role: Sub-Investigator

Allergan 2012 - Present

A Multicenter, Paired-eye Comparison, Dose-escalation, Single Dose, 24 month Study of Safety and Test efficacy of Bimatoprost Preservative Free Intracameral Delivery System (Bimatoprost PF IC DDS) in patients with open angle glaucoma (PI: Mansberger)

Total Support: \$231,711

Role: Sub-Investigator

National Eye Institute 2012 - Present

Predicting the Rate of Progression in Glaucoma (PI: Demirel)

Determine predictive factors for progressive glaucomatous change.

Total Support: \$1,950,000

Role: Sub-Investigator

Completed Research Support

Business Oregon Phase 0 Award February 2017 – July 2017

A universal eye drop monitor (PI: Kinast)

Expert reviews and assistance from Virogenomics BioDevelopment in submission for an STTR grant.

Total Support: \$5000

Role: Co-Investigator

Legacy Health Foundation October 2016 – December 2017

Glaucoma Tube Implant with Modulated Flow

CAD Modeling and magnetic field simulation software in preparation for Biomedical Innovation grant.

Total Support: \$4,500

Role: Co-Investigator

Mobius Pharmaceuticals 2013 - 2014

Breakdown Products of Mitomycin C (PI: Mansberger)

Analyzed the stability of mitomycin C and identified its breakdown products using high performance liquid chromatography and liquid chromatography-mass spectrometry. Compared the measured with the expected concentration of 0.4 mg/mL compounded mitomycin C.

Total Support: \$39,600

Role: Co-Investigator

Pacific Vision Foundation Fellowship September 2007 - October 2007

Teaching intervention on diabetes within ophthalmology setting (PI: Fung)

Tested if a 5-minute teaching intervention on diabetes within a busy ophthalmology clinic could lead to improved patient understanding of the disease immediately after teaching and 1-month later.

Total Support: \$4,000

Role: Co-Investigator

University of Michigan Biomedical Research Program June 2003 – August 2003

Patient Satisfaction and sexual function after oral mucosa graft urethroplasty for hypospadias (PI: Park)

Evaluated long term patient-reported data on sexual function, genitourinary function, and overall satisfaction after oral mucosa graft urethroplasty for hypospadias.

Total Support: \$3,000

Role: Co-Investigator

PATENTS

7 patents pending on eye drop delivery devices, eye drop monitors, and a glaucoma tube implant

OTHER

Other ophthalmology training:

Moorefields Eye Hospital (London, England, 2010), Aravind Eye Hospital (Madurai, India, 2010),
Stanford University School of Medicine (Palo Alto, CA, 2008)

Other work experience:

DiamondCluster Consulting, UConnections.com, Mercy Medical Center,
Academy of Art University, The Timken Company

Other interests:

Travel, hiking, basketball, chess