

# Sebastian M. Waldstein

## Curriculum Vitae

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### Current Positions

- 2017 – **Retinal specialist and ophthalmic surgeon**, Department of Ophthalmology
- 2016 – **Co-Lead**, Medical Imaging Cluster (MIC); Node “Image Computing, Analysis and Visualization”
- 2013 – **Associate Director**, Christian Doppler Laboratory for Ophthalmic Image Analysis

### Education and Qualifications

- 2018 Board-certified Ophthalmologist
- 2017 **Ph.D.** Medical Physics, Medical University of Vienna
- 2016 **Priv.-Doz.** Venia docendi in Ophthalmology, Medical University of Vienna
- 2011 **M.D.** Innsbruck Medical University  
*Clerkships abroad:*
  - 2008-2009: University of Oslo (ERASMUS program)
  - 2009: University of Pennsylvania
  - 2010: University of Oxford, University of Zurich

### Employment History

- 2012 – 2017 Resident, Department of Ophthalmology, Medical University of Vienna
- 2011 – 2015 Supervisor, Research & Development, Vienna Reading Center, Medical University of Vienna
- 2007 – 2008 Tutor for Emergency Medicine, Innsbruck Medical University
- 2005 – 2008 Tutor for Histology, Innsbruck Medical University

### Research Focus

- Big-Data analysis in retinal imaging
- Translational research in artificial intelligence and machine learning
- Biomarker discovery in age-related macular degeneration

### Publications

- 37 peer-reviewed journal publications, 9 first authorships
- 11 publications in peer-reviewed conference proceedings, 2 book chapters
- 23 invited talks and lectures
- 630 citations, h-index = 16 [Google scholar]

(Top-Journals are **bold**; Corresponding authorships underlined.)

#### Original science papers in peer-reviewed journals

1. Karst SG, Deak GG, Gerendas BS, **Waldstein SM**, Lammer J, Simader C, Guerin T, Schmidt-Erfurth U. Association of Changes in Macular Perfusion With Ranibizumab Treatment for Diabetic Macular Edema: A Subanalysis of the RESTORE (Extension) Study. ***JAMA Ophthalmology***. 2018; doi: 10.1001/jamaophthalmol.2017.6135 [IF: 4.30]
2. Podkowinski D, Philip A-M, Vogl W-D, Gamper J, Bogunovic H, Gerendas BS, Haj Najeeb B, Waldstein SM, Schmidt-Erfurth U. Neuroretinal atrophy following resolution of macular edema in retinal vein occlusion. ***Br J Ophthalmology***. 2018; doi: 10.1136/bjophthalmol-2017-311614 [IF: 2.75]

3. Schlegl T, **Waldstein SM**, Bogunovic H, Endstrasser F, Sadeghipour A, Philipp A-M, Podkowinski D, Gerendas BS, Langs G, Schmidt-Erfurth U. Fully Automated Detection and Quantification of Macular Fluid in Optical Coherence Tomography using Deep Learning. *Ophthalmology*. 2017; doi: 10.1016/j.ophtha.2017.10.031 [IF: 8.20]
4. Tadayoni R, **Waldstein SM**, Boscia F, Gerding H, Gekkieva M, Barnes E, Das Gupta A, Wenzel A, Pearce I; BRIGHTER Study Group. Sustained Benefits of Ranibizumab with or without Laser in Branch Retinal Vein Occlusion: 24-Month Results of the BRIGHTER Study. *Ophthalmology*. 2017; doi: 10.1016/j.ophtha.2017.06.027 [IF: 8.20]
5. Bogunovic H, Montuoro A, Baratsits M, Karantonis M, **Waldstein SM**, Schlanitz FG, Schmidt-Erfurth U. Machine Learning of the Progression of Intermediate Age-Related Macular Degeneration Based on OCT Imaging. *Invest Ophthalmol Vis Sci* 2017;58(6):BIO141-BIO150 [IF: 3.43]
6. Larsen M, **Waldstein SM**, Priglinger S, Hykin P, Barnes E, Gekkieva M, Das Gupta A, Wenzel A, Mones J; CRYSTAL Study Group. Sustained Benefits from Ranibizumab for Central Retinal Vein Occlusion with Macular Edema: 24-Month Results of the CRYSTAL Study. *Ophthalmology Retina* 2017 (accepted)
7. Klimscha S, **Waldstein SM**, Schlegl S, Bogunovic H, Sadeghipour A, Philip A-M, Podkowinski D, Pablik E, Zhang L, Abramoff MD, Sonka M, Gerendas BS, Schmidt-Erfurth U. Spatial correspondence between intraretinal fluid, subretinal fluid and pigment epithelial detachment in neovascular age-related macular degeneration. *Invest Ophthalmol Vis Sci* 2017;58(10):4039-48 [IF: 3.43]
8. Schmidt-Erfurth U, Bogunovic H, Sadeghipour A, Schlegl T, Langs G, Gerendas BS, Osborne A, **Waldstein SM**. Machine learning to analyze the prognostic value of current imaging biomarkers in neovascular age-related macular degeneration. *Ophthalmology Retina*. 2017 (accepted)
9. Gerendas BS, Prager S, Deak G, Simader C, Lammer J, **Waldstein SM**, Guerin T, Kundi M, Schmidt-Erfurth U. Predictive imaging biomarkers relevant for functional and anatomical outcomes during ranibizumab therapy of diabetic macular edema. *Br J Ophthalmology* 2017; doi: 10.1136/bjophthalmol-2017-310483 [IF: 2.75]
10. Bogunovic H, **Waldstein SM**, Schlegl T, Langs G, Sadeghipour A, Liu X, Gerendas BS, Osborne A, Schmidt-Erfurth U. Prediction of Anti-VEGF Treatment Requirements in Neovascular Age-Related Macular Degeneration using a Machine Learning Approach. *Invest Ophthalmol Vis Sci* 2017;58(7):3240-8. [IF: 3.43]
11. Podkowinski D, Shahrian Varnousfaderani E, Simader C, Bogunovic H, Philip A-M, Gerendas BS, Schmidt-Erfurth U, **Waldstein SM**. Impact of B-scan averaging on Spectralis optical coherence tomography image quality before and after cataract surgery. *Journal of Ophthalmology*. 2017;2017:8148047 [IF: 1.46]
12. **Waldstein SM**, Montuoro A, Podkowinski D, Philip A-M, Gerendas BS, Bogunovic H, Schmidt-Erfurth U. Evaluating the impact of vitreomacular adhesion on anti-VEGF therapy for retinal vein occlusion using machine learning. *Scientific Reports*. 2017;7(1):2928 [IF: 5.23]
13. Vogl W-D, **Waldstein SM**, Gerendas BS, Schmidt-Erfurth U, Langs G. Predicting Treatment Response in Retinal Disease from Spatio-Temporal Image Signatures. *IEEE Transactions on Medical Imaging* 2017; doi: 10.1109/TMI.2017.2700213 [IF: 3.76]
14. Gerendas BS, Bogunovic H, Sadeghipour A, Schlegl T, Langs G, **Waldstein SM**, Schmidt-Erfurth U. Computational image analysis for prognosis determination in DME. *Vision Research*. 2017; doi: 10.1016/j.visres.2017.03.008 [IF: 1.78]
15. Breger A, Ehler M, Bogunovic H, **Waldstein SM**, Philip A-M, Schmidt-Erfurth U, Gerendas BS. Supervised learning and dimension reduction techniques for quantification of retinal fluid in optical coherence tomography images. *Eye (Lond)*. 2017; doi: 10.1038/eye.2017.61 [IF: 2.08]

16. Montuoro A, **Waldstein SM**, Gerendas BS, Schmidt-Erfurth U, Bogunovic H. Joint retinal layer and fluid segmentation in OCT scans of eyes with severe macular edema using unsupervised representation and auto-context. *Biomedical Optics Express*. 2017;8(3):1874-88 [IF: 3.34]
17. Wu J, **Waldstein SM**, Montuoro A, Gerendas BS, Langs G, Schmidt-Erfurth U. Automated Fovea Detection in Spectral Domain Optical Coherence Tomography Scans of Exudative Macular Disease. *International Journal of Biomedical Imaging*. 2016;2016:7468953. doi: 10.1155/2016/7468953
18. Wu J, Philip A-M, Podkowinski D, Gerendas BS, Langs G, Simader C, **Waldstein SM**, Schmidt-Erfurth U. Multi-vendor Spectral-domain Optical Coherence Tomography Data Set, Observer Annotation Performance Evaluation and Standardized Evaluation Framework for Intraretinal Cystoid Fluid Segmentation. *Journal of Ophthalmology*. 2016;2016:3898750. doi: 10.1155/2016/3898750. [IF: 1.46]
19. **Waldstein SM**, Simader C, Staurengi G, Chong NV, Mitchell P, Jaffe GJ, Lu C, Katz TA, Schmidt-Erfurth U. Morphology and visual acuity in aflibercept and ranibizumab therapy for neovascular age-related macular degeneration in the VIEW trials. *Ophthalmology*. 2016;123(7):1521-9 [IF: 6.75]
20. Varnousfaderani ES, Wu J, Vogl W-D, Philip A-M, Montuoro A, Leitner R, **Waldstein SM**, Gerendas BS, Schmidt-Erfurth U. A Novel Benchmark Model for Intelligent Annotation of Spectral-Domain Optical Coherence Tomography Scans Using the Example of Cyst Annotation. *Computer Methods and Programs in Biomedicine*. 2016;130:93-105 [IF: 3.90]
21. Tadayoni R, **Waldstein SM**, Boscia F, Gerding H, Pearce I, Priglinger S, Wenzel A, Barnes E, Gekkieva M, Pilz S, Mones J; BRIGHTER Study Group. Individualized Stabilization Criteria-Driven Ranibizumab Versus Laser in Branch Retinal Vein Occlusion: 6-Month Results Of BRIGHTER. *Ophthalmology*. 2016;123(6):1332-44 [IF: 6.75]
22. Larsen M, **Waldstein SM**, Boscia F, Gerding H, Mones J, Tadayoni R, Priglinger S, Wenzel A, Barnes E, Pilz S, Stubbings W, Pearce I; CRYSTAL Study Group. Individualized Ranibizumab Regimen Driven by Stabilization Criteria for Central Retinal Vein Occlusion: Twelve-Month Results of the CRYSTAL Study. *Ophthalmology*. 2016;123(5):1101-11 [IF: 6.75]
23. Gerendas BS, Hecht A, Kundi M, **Waldstein SM**, Deak G, Simader C, Montuoro A, Schmidt-Erfurth U, Funk M. Choroidal Line Scan Measurements in Swept-Source Optical Coherence Tomography as Surrogates for Volumetric Thickness Assessment. *Am J Ophthalmol*. 2016;162:150-158.e1 [IF: 3.83]
24. **Waldstein SM**, Philip AM, Leitner R, Simader C, Langs G, Gerendas BS, Schmidt-Erfurth U. Correlation of 3-Dimensionally Quantified Intraretinal and Subretinal Fluid With Visual Acuity in Neovascular Age-Related Macular Degeneration. *JAMA Ophthalmol*. 2016;134(2):182-90 [IF: 4.30]
25. Philip AM, Gerendas BS, Zhang L, Faatz H, Podkowinski D, Bogunovic H, Abramoff MD, Haggmann M, Leitner R, Simader C, Sonka M, **Waldstein SM**, Schmidt-Erfurth U. Choroidal thickness maps from spectral domain and swept source optical coherence tomography: algorithmic versus ground truth annotation. *Br J Ophthalmol*. 2016;100(10):1372-6. [IF: 2.75]
26. **Waldstein SM**, Wright J, Warburton J, Margaron P, Simader C, Schmidt-Erfurth U. Predictive Value of Retinal Morphology for Visual Acuity Outcomes of Different Ranibizumab Treatment Regimens for Neovascular AMD. *Ophthalmology*. 2016;123(1):60-9 [IF: 6.75]
27. **Waldstein SM**, Gerendas BS, Montuoro A, Simader C, Schmidt-Erfurth U. Quantitative comparison of macular segmentation performance using identical retinal regions across multiple spectral-domain optical coherence tomography instruments. *Br J Ophthalmol*. 2015;99(6):794-800 [IF: 2.75]
28. Schmidt-Erfurth U, **Waldstein SM**, Deak GG, Kundi M, Simader C. Pigment epithelial detachment followed by retinal cystoid degeneration leads to vision loss in treatment of neovascular age-related macular degeneration. *Ophthalmology*. 2015;122(4):822-32 [IF: 6.75]

29. **Waldstein SM**, Faatz H, Szimacsek M, Glodan AM, Podkowinski D, Montuoro A, Simader C, Gerendas BS, Schmidt-Erfurth U. Comparison of penetration depth in choroidal imaging using swept source vs spectral domain optical coherence tomography. *Eye (Lond)*. 2015;29(3):409-15 [IF: 2.08]
30. Gerendas BS, **Waldstein SM**, Simader C, Deak G, Hajnajeb B, Zhang L, Bogunovic H, Abramoff MD, Kundi M, Sonka M, Schmidt-Erfurth U. Three-dimensional automated choroidal volume assessment on standard spectral-domain optical coherence tomography and correlation with the level of diabetic macular edema. *Am J Ophthalmol*. 2014;158(5):1039-48 [IF: 3.83]
31. **Waldstein SM**, Ritter M, Simader C, Mayr-Sponer U, Kundi M, Schmidt-Erfurth U. Impact of vitreomacular adhesion on ranibizumab mono- and combination therapy for neovascular age-related macular degeneration. *Am J Ophthalmol*. 2014;158(2):328-336.e1 [IF: 3.83]
32. Mayr-Sponer U, **Waldstein SM**, Kundi M, Ritter M, Golbaz I, Heiling U, Papp A, Simader C, Schmidt-Erfurth U. Influence of the vitreomacular interface on outcomes of ranibizumab therapy in neovascular age-related macular degeneration. *Ophthalmology*. 2013;120(12):2620-9 [IF: 6.75]
33. **Waldstein SM**, Hickey D, Mahmud I, Kiire CA, Charbel Issa P, Chong NV. Two-wavelength fundus autofluorescence and macular pigment optical density imaging in diabetic macular oedema. *Eye (Lond)*. 2012;26(8):1078-85 [IF: 2.08]
34. **Waldstein SM**, Sponer U, Simader C, Sacu S, Schmidt-Erfurth U. Influence of vitreomacular adhesion on the development of exudative age-related macular degeneration: 4-year results of a longitudinal study. *Retina*. 2012;32(3):424-33 [IF: 3.04]

#### Review papers in peer-reviewed journals

1. Schmidt-Erfurth U, Klimscha S, **Waldstein SM**, Bogunovic H. A view of the current and future role of optical coherence tomography in the management of age-related macular degeneration. *Eye (Lond)*. 2016; 31:26-44 [IF: 2.08]
2. Schmidt-Erfurth U and **Waldstein SM**. A paradigm shift in imaging biomarkers in neovascular age-related macular degeneration. *Prog Retin Eye Res*. 2016;50:1-24 [IF: 9.39]
3. Roberts P, **Waldstein SM**, Schmidt-Erfurth U. A focus on the imaging of the retina. *Expert Review of Ophthalmology*. 2015;10(6):1-17

#### Papers in peer-reviewed conference proceedings

1. Schlegl T, Seeböck P, **Waldstein SM**, Schmidt-Erfurth U, Langs G. Unsupervised Anomaly Detection with Generative Adversarial Networks to Guide Marker Discovery. *Inf Process Med Imaging*. 2017 (accepted)
2. Seeböck P, **Waldstein SM**, Klimscha S, Gerendas BS, Donner R, Schlegl T, Schmidt-Erfurth U, Langs G. Identifying and Categorizing Anomalies in Retinal Imaging Data. *Neural Information Processing Systems*. 2016 (arXiv:1612.00686v1 [cs.LG] 2 Dec 2016)
3. Bogunovic H, Montuoro A, **Waldstein SM**, Baratsits M, Schlanitz F, Schmidt-Erfurth U. Predicting Drusen Regression from OCT in Patients with Age-Related Macular Degeneration. *Ophthalmic Medical Image Analysis International Workshop, MICCAI*. 2016
4. Varnousfaderani ES, Vogl W-D, Wu J, Gerendas BS, Simader C, Langs G, **Waldstein SM**, Schmidt-Erfurth U. Geodesic denoising for optical coherence tomography images. *SPIE Medical Imaging*. 2016. doi:10.1117/12.2216972
5. Varnousfaderani ES, Vogl W-D, Wu J, Gerendas BS, Simader C, Langs G, **Waldstein SM**, Schmidt-Erfurth U. Improve synthetic retinal OCT images with present of pathologies and textural information. *SPIE Medical Imaging*. 2016. doi:10.1117/12.2217399
6. Wu J, **Waldstein SM**, Gerendas BS, Langs G, Schmidt-Erfurth U. Automated retinal fovea type distinction in spectral-domain optical coherence tomography of retinal vein occlusion. *SPIE Medical Imaging*. 2015; 94133D. doi: 10.1117/12.2076570

7. Vogl W-D, **Waldstein SM**, Gerendas BS, Simader C, Glodan A-M, Podkowinski D, Schmidt-Erfurth U, Langs G. Spatio-Temporal Signatures to Predict Retinal Disease Re-currence. *Inf Process Med Imaging*. 2015; Vol. 24, 152-63
8. Schlegl T, **Waldstein SM**, Vogl W-D, Schmidt-Erfurth U, Langs G. Predicting Semantic Descriptions from Medical Images with Convolutional Neural Networks. *Inf Process Med Imaging*. 2015; Vol. 24, 437-48
9. Wu J, Gerendas BS, **Waldstein SM**, Simader C, Schmidt-Erfurth U. Automated vessel shadow segmentation of fovea-centered spectral-domain images from multiple OCT devices. *SPIE Medical Imaging*. 2014; 903403 doi: 10.1117/12.2044034
10. Wu J, Gerendas BS, **Waldstein SM**, Langs G, Simader C, Schmidt-Erfurth U. Stable registration of pathological 3D-OCT scans using retinal vessels. *Ophthalmic Medical Image Analysis International Workshop, MICCAI*. 2014
11. Montuoro A, Wu J, **Waldstein SM**, Gerendas BS, Langs G, Schmidt-Erfurth U. Motion Artefact Correction in Retinal Optical Coherence Tomography Using Local Symmetry. *MICCAI*. 2014; 130-7

#### Book chapters

1. Told R, **Waldstein SM**, Schmidt-Erfurth U. OCT imaging and Neovascular Age-related Macular Degeneration. In: *Spectral Domain Optical Coherence Tomography*. Editors: S. Sadda, S. Saxena and C. Meyer. Springer 2016
2. **Waldstein SM**, Gerendas BS, Ritter M, Schmidt-Erfurth U. How to analyze OCT images in neovascular age-related macular degeneration. In: *Age-Related Macular Degeneration*. Editor: J. I. Lim. 3rd ed. Informa Healthcare 2013

#### Invited talks & lectures

1. **Waldstein SM**. Imaging the transition from early to advanced AMD. *5th International Congress on OCT Angiography* Rome, December 2017
2. **Waldstein SM**. Mining retinal imaging data for markers of disease and therapy. *Advanced Retinal Therapy*. Vienna, December 2017
3. **Waldstein SM**. Biomarkers in the management of neovascular AMD. *Fokus Makula*. Feldkirch, November 2017
4. **Waldstein SM**. Identification of progression from early to advanced AMD. *17th EURETINA congress*. Barcelona, September 2017
5. **Waldstein SM**. Mining retinal imaging data for biomarkers of disease and therapy. *Association for Ocular Pharmacology and Therapeutics (AOPT)* Florence, February 2017
6. **Waldstein SM**. Biomarkers and machine learning in neovascular AMD. *16th EURETINA congress*. Copenhagen, September 2016
7. **Waldstein SM**. Prognostic imaging biomarkers in managing neovascular AMD. *Annual meeting of the Swedish Ophthalmologic Society* Uppsala, August 2016
8. **Waldstein SM**. Analyzing retinal imaging biomarkers in the computer age. *Future directions in Ophthalmology R&D symposium*. London, June 2016
9. **Waldstein SM**. Big data analysis in ophthalmic imaging. *Special Interest Group on "Advanced Computational Imaging: Big Datasets, Trends and Predictive Analysis"*, ARVO. Seattle, May 2016
10. **Waldstein SM**. Structure–function correlation by computational retinal imaging. *Advanced Retinal Therapy*. Vienna, Dec. 2015
11. **Waldstein SM**. Value of intraretinal cyst segmentation for visual prognosis in retinal disease. *18th MICCAI conference – OPTIMA cyst segmentation workshop (Keynote)*. Munich, Oct. 2015

12. **Waldstein SM.** Interpretation of OCT features in neovascular AMD – a perspective towards personalized medicine in the computer era. *Amsler Club Meeting*. London, Sept. 2015
13. **Waldstein SM.** Geographic atrophy in neovascular AMD treated with anti-VEGF. *Amsler Club Meeting*. London, Sept. 2015
14. **Waldstein SM.** Strength across the disease: Evidence in neovascular AMD. *15th EURETINA congress (Bayer Satellite Symposium)*. Nice, Sept. 2015
15. **Waldstein SM.** Exudative AMD: Biomarkers of Disease and Therapy. *15th EURETINA congress*. Nice, Sept. 2015
16. **Waldstein SM.** Computational image analysis: The future is here to stay. *15th EURETINA congress*. Nice, Sept. 2015
17. **Waldstein SM.** Computational disease- and population modelling for individualized prognosis and therapy in retinal disease. *Annual Meeting of the American Society of Retina Specialists (ASRS)*. Vienna, July 2015
18. **Waldstein SM.** Neovascular AMD: On the threshold of personalized medicine. *Scientific session of the Viennese Ophthalmologic Society (WOG)*. Vienna, Jan. 2015
19. **Waldstein SM.** What are the differences between anti-VEGF substances? *14th EURETINA congress*. London, Sept. 2014
20. **Waldstein SM.** Optical Coherence Tomography in Age-Related Macular Degeneration. *27th Conference of the German Society of Ophthalmic Surgeons (DOC)*. Nuremberg, May 2014
21. **Waldstein SM.** Long-term treatment with anti-VEGF agents: Substances, Risks, Side effects. *27th Conference of the German Society of Ophthalmic Surgeons (DOC)*. Nuremberg, May 2014
22. **Waldstein SM.** Predictors for visual outcome in the treatment of neovascular AMD. *13th EURETINA congress (Main Session)*. Hamburg, Sept. 2013
23. **Waldstein SM.** Optical Coherence Tomography in Age-Related Macular Degeneration. *26th Conference of the German Society of Ophthalmic Surgeons (DOC)*. Nuremberg, May 2013

## Funding

Date	Project title	Sum (EUR)
2017 – 2018	Advanced image analysis of the HARBOR study data II (PI: <b>S.M. Waldstein</b> ; Genentech, Inc.)	<b>150,000</b>
2017 – 2019	Personalized Risk Prognosis for the Development of Advanced Age-related Macular Degeneration (PI: <b>S.M. Waldstein</b> ; Bayer)	<b>380,000</b>
2015 – 2016	Advanced image analysis of the HARBOR study data (PI: <b>S.M. Waldstein</b> ; Genentech, Inc.)	<b>150,000</b>
<b>Total funding as principal investigator</b>		<b>680,000</b>

## Teaching Experience

### Courses and Lectures

2014 – Ophthalmology lectures, seminars and practical courses for MD students

### Diploma Students

2013 D. Podkowinski, M.D. Role of B-scan averaging in Optical Coherence Tomography and its influence on retinal imaging in senile cataract

### Doctoral Students

current S. Klimescha, M.D. Role of intraretinal fluid in age-related macular degeneration

current C. Grechenig, M.D. Artificial intelligence in retinal image analysis

## Patents

- 2015 Computerized device and method for processing image data (Segmentation algorithm for medical imaging data, patent pending)
- 2015 Computerized device and method for processing image data (Prediction method for personalized treatment prognosis using ophthalmic imaging data, patent pending)

## Awards

- 2017 Co-Author on Erbsmann Award-winning Paper (IPMI 2017)
- 2015 ARVO Hot Topic Award
- 2014 2<sup>nd</sup> poster prize, 14<sup>th</sup> ESASO Retinal Academy
- 2010 Pauline and Oswald Lapp Travel Grant (ARVO)
- 2009 Max Kade Fellowship, American Austrian Foundation (AAF)
- 2009 Academic Merit Scholarship, Innsbruck Medical University
- 2008 Academic Merit Scholarship, Innsbruck Medical University

## Academic Services

### Memberships in Professional Societies

- 2013 – European Society of Retina Specialists (EURETINA)
- 2012 – American Academy of Ophthalmology (AAO)
- 2009 – Association of Research in Vision and Ophthalmology (ARVO)

### Editorial Assignments

Associate Editor, Drugs in Context

### Review Activities for peer-reviewed Journals

Ophthalmology  
JAMA Ophthalmology  
Investigative Ophthalmology & Visual Science (“Exceptional Reviewer”)  
Retina  
British Journal of Ophthalmology  
Eye  
Acta Ophthalmologica  
Plos ONE  
Scientific Reports  
Medical Image Analysis  
IEEE Transactions on Image Processing  
Computers in Biology and Medicine  
Journal of Ocular Pharmacology and Therapeutics  
Ophthalmologica  
Transational Vision Science and Technology