



## Theodore Leng, MD, FACS

Associate Professor of Ophthalmology and, by courtesy, of Anesthesiology, Perioperative and Pain Medicine (Adult MSD)

 NIH Biosketch available Online

### CLINICAL OFFICES

- **Stanford Byers Eye Institute**

2452 Watson Ct

MC 5353

Palo Alto, CA 94303

**Tel** (650) 723-6995      **Fax** (650) 725-6619

- **Stanford Byers Eye Institute**

2452 Watson Ct

MC 5353

Palo Alto, CA 94303

**Tel** (650) 723-6995      **Fax** (650) 725-6619

### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Sara Horca - Administrative Associate III

**Email** shorca@stanford.edu

**Tel** 650-497-1182

### Bio

---

#### BIO

Dr. Leng is considered to be one of the top 150 worldwide leading innovators in the field of medical and surgical retina and serves the Department of Ophthalmology as both the Director of Clinical and Translational Research and the Director of Ophthalmic Diagnostics.

As a board-certified ophthalmologist and fellowship-trained vitreoretinal surgeon, Dr. Leng uses the latest techniques and small-incisional sutureless technology to minimize patient discomfort and maximize functional outcomes. He is committed to bringing the highest level of patient-centered care for all types of retinal conditions.

#### BIOGRAPHY

Theodore Leng, MD, MS, FACS received his AB in Philosophy and BS in Biological Sciences from Stanford University, graduating with Departmental Honors. He received his Masters of Science in Biological Sciences from Stanford University while conducting research at the Hopkins Marine Station in Pacific Grove, CA on cellular ion membrane channels. Dr. Leng received his medical degree from the Stanford University School of Medicine, during which he completed a Howard Hughes Medical Institute Research Training Fellowship.

Dr. Leng completed his ophthalmology residency at Bascom Palmer Eye Institute, the highest ranked eye hospital and residency training program in the country. He was awarded the Heed Fellowship, the most prestigious national award for ophthalmologists entering a career in academic medicine. Dr. Leng returned to Stanford

University to complete a fellowship in vitreoretinal diseases and surgery and was awarded the Paul Kayser International Travel Scholarship to work in Santiago, Chile. He has been a full-time faculty member of the Stanford University Department of Ophthalmology since 2010 and has been named one of “America’s Top Ophthalmologists” by the Consumers’ Research Council of America and is a Castle Connolly “Top Doctor.”

In addition to his clinical practice, Dr. Leng has a vibrant clinical and basic science research program and has published over 200 peer-reviewed scientific manuscripts, book chapters and abstracts. He is frequently invited to speak at national and international meetings. Dr. Leng serves as the Associate Editor of the peer-reviewed journal, *Ophthalmic Surgery Lasers & Imaging Retina*.

Dr. Leng is a Fellow of the American Academy of Ophthalmology, the American College of Surgeons, and the American Society of Retina Specialists. He is also a member of the Association for Research in Vision and Ophthalmology, the Retina Society, the Macula Society, the Vit-Buckle Society, and is a board member of the Digital Ophthalmic Society. He volunteers his time as a Command Pilot for the Angel Flight West organization. Dr. Leng has served as the President of the Stanford Medicine Alumni Association to support its mission of reaching, inspiring, serving and engaging over 26,000 Stanford Medicine alumni.

### **CLINICAL FOCUS**

- Macular Degeneration, Diabetic Retinopathy, Retinal Vascular Disease, Retinal Detachment
- Macular Edema, Macular Hole, Epiretinal Membrane
- Branch and Central Retinal Vein Occlusion, Macular Pucker
- Ophthalmology

### **ACADEMIC APPOINTMENTS**

- Associate Professor - University Medical Line, Ophthalmology
- Associate Professor - University Medical Line (By courtesy), Anesthesiology, Perioperative and Pain Medicine
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

### **ADMINISTRATIVE APPOINTMENTS**

- Director, Clinical and Translational Research, (2015- present)
- Member, Committee for Ophthalmology Diversity Equity and Inclusion (CODE-I), (2022- present)
- Co-Founder and Co-Chair, Ophthalmic Artificial Intelligence Summit, (2021- present)
- Member, Ophthalmology Department Wellness Committee, (2022- present)
- Director, Ophthalmic Diagnostics, (2010- present)
- Founder and Medical Director, Stanford Ophthalmic Reading Center (STARC), (2016- present)
- Member, Stanford EPIC Provider SuperUser Network (SUN), (2016- present)
- IT Physician Advocate, Stanford Healthcare, (2015- present)
- Ophthalmology Department Liaison, Stanford Healthcare Main Operating Rooms, (2013-2017)

### **HONORS AND AWARDS**

- Top Doctor, Castle Connolly (2017 - 2022)
- Best of Palo Alto, Ophthalmologists, Palo Alto Business Award Program (2019)
- Honor Award, American Society of Retina Specialists (2019)
- Achievement Award, American Academy of Ophthalmology (2017)
- OSN Retina 150, Healio (2016)

- Certificate of Recognition for a Technical Innovation, NASA (2015)
- America's Top Ophthalmologists, Consumer's Research Council of America (2012 - 2014)
- Heed Fellowship, Heed Ophthalmic Foundation (2010)
- Mentoring Program in Ophthalmology Scholarship, Annenberg Center for Health Sciences at Eisenhower (2009)
- Paul Kayser International Travel Scholar, Pan-American Ophthalmological Foundation (2009)
- ARVO Travel Award, National Eye Institute (2003)
- Certificate of Recognition for Technical Innovation, NASA (2003)
- Certificate of Recognition for a US Patent, NASA (2003)
- Howard Hughes Medical Institute Research Training Fellowship, Howard Hughes Medical Institute (2003)
- Medical Scientist Research Fellowship, Stanford Medical Scholars Program (2003)
- AMA Travel Award, American Medical Association (2001)
- Baxter Foundation Scholar, Stanford Medical Scholars Program (2001)
- Kolos Scholar, Stanford Medical Scholars Program (2001)
- Award for Excellence in Teaching, Stanford Department of Biological Sciences (2000)
- Firestone Medal for Excellence in Research, Stanford University (1999)

#### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Founding Board Member, Digital Ophthalmic Society (2021 - present)
- Mentor, American Society of Retina Specialists Underrepresented in Retina Mentorship Program (2022 - present)
- Associate Editor, Ophthalmic Surgery, Lasers, and Imaging Retina (2016 - present)
- Editorial Board Member, Journal of Ophthalmology (2013 - 2022)
- Editorial Board Member, Asia-Pacific Journal of Ophthalmology (2019 - 2021)
- President, Stanford Medicine Alumni Association Board of Governors (2015 - 2017)
- Director, Stanford Medicine Alumni Association Board of Governors (2010 - 2020)
- Fellow, American Academy of Ophthalmology (2011 - present)
- Fellow, American College of Surgeons (2012 - present)
- Member, The Retina Society (2014 - present)
- Member, The Macula Society (2016 - present)
- Member, American Society of Retina Specialists (2009 - present)
- Member, Vit-Buckle Society (2012 - present)
- Life Member, Society of Heed Fellows (2012 - present)
- Member, Association for Research in Vision and Ophthalmology (2001 - present)
- Editorial Board Member, Ophthalmic Surgery, Lasers, and Imaging Retina (2012 - present)
- Editorial Board Member, American Society of Retina Specialists Retina Image Bank (2013 - present)
- Editorial Board Member, The Open Ophthalmology Journal (2014 - present)
- Editorial Board Member, Journal of Ophthalmic Research (2013 - present)
- Editorial Board Member, Journal of Clinical & Medical Case Reports (2013 - present)
- Member, Ophthalmology Innovation Network (2012 - present)
- Member, American Academy of Ophthalmology EyeWiki Retina/Vitreous Section Committee (2014 - 2021)
- Medical and Surgical Retina Section Editor, The Eye Handbook (2012 - 2021)

- Member, Howard Hughes Medical Institute Bay Area Alumni Network Steering Committee (2012 - 2021)
- Lead Faculty Member, WebMedCentral (2011 - 2021)
- Contributing Editor, OphthalmologyWeb (2008 - 2021)

## PROFESSIONAL EDUCATION

- Residency: Bascom Palmer Eye Institute (2009) FL
- Board Recertification, American Board of Ophthalmology , Ophthalmology (2021)
- Fellowship: Stanford University Retina and Vitreous Fellowship (2010) CA
- Board Certification: Ophthalmology, American Board of Ophthalmology (2010)
- Internship: Huntington Memorial Hospital (2006) CA
- Medical Education: Stanford School of Medicine (2005) CA
- MS, Stanford University , Biological Sciences (2000)
- AB/BS, Stanford University , Philosophy & Biological Sciences (1999)

## COMMUNITY AND INTERNATIONAL WORK

- Angel Flight West
- Veterans Airlift Command
- Arbor Free Clinic, Menlo Park
- Haitian Eye Initiative, Cap Haitian, Milot, Thomonde

## LINKS

- Leng Research Group: <http://med.stanford.edu/leng.html>
- LinkedIn: <https://www.linkedin.com/in/theodoreleng/>
- Twitter: <https://twitter.com/teidleng>

## Research & Scholarship

---

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Leng was the first surgeon in California to perform a subretinal transplant of adult neural stem cells into patients with macular degeneration and is actively researching cellular, biologic and laser-based therapies for macular degeneration. He also has an active program in imaging informatics and deep learning to perform big data analyses of retinal scans to identify patients who are at risk for retinal disease deterioration. The end goal is earlier detection and rapid treatment to maximize visual outcomes.

Dr. Leng is considered a leading expert on optical coherence tomography (OCT) and OCT-based angiography (OCTA), a non-invasive and non-contact imaging technique for the retina. He is also considered a key opinion leader in artificial intelligence and data science.

### CLINICAL TRIALS

- A Phase I Study of Episcleral Dexamethasone for Treatment of Macular Edema, Recruiting
- A Study Investigating the Safety and Efficacy of Lampalizumab Intravitreal Injections in Participants With Geographic Atrophy Secondary to Age-Related Macular Degeneration, Recruiting
- Efficacy and Safety Study of Squalamine Ophthalmic Solution in Subjects With Neovascular AMD, Recruiting
- Episcleral Dexamethasone for Treatment of Macular Edema and Inflammatory Disorders of the Posterior Pole, Recruiting
- Long-Term Follow-up Safety Study of Human Central Nervous System Stem Cells in Subjects With Geographic Atrophy of Age-Related Macular Degeneration, Recruiting

- Phase I Study of Episcleral Celecoxib for Treatment of Macular Edema and Inflammatory Disorders of the Posterior Pole, Recruiting
- Safety and Efficacy of Abicipar Pegol in Participants With Neovascular Age-related Macular Degeneration, Recruiting
- Study of Human Central Nervous System Stem Cells (HuCNS-SC) in Age-Related Macular Degeneration (AMD), Recruiting
- Endogenous Endophthalmitis in the Inpatient Setting, Not Recruiting
- Outcomes of Diabetic Macula Edema Patients Switched to Aflibercept From Bevacizumab and/or Ranibizumab, Not Recruiting
- Phase 2/3, Randomized, Double-Masked, Sham-Controlled Trial of QPI-1007 in Subjects With Acute Nonarteritic Anterior Ischemic Optic Neuropathy (NAION), Not Recruiting
- Rates of Apnea in Patients Undergoing Vitreoretinal Surgery, Not Recruiting
- Study Evaluating Intravitreal hi-con1™ in Patients With Choroidal Neovascularization Secondary to Age-related Macular Degeneration, Not Recruiting
- Study of Bimonthly VEGF Trap-Eye Compared to As-needed Administration or Other Therapy for Exudative Age-Related Macular Degeneration, Not Recruiting
- Study of HUCNS-SC Subretinal Transplantation in Subjects With GA of AMD, Not Recruiting
- Study of Pegcetacoplan (APL-2) Therapy in Patients With Geographic Atrophy, Not Recruiting
- Vision Outcomes Using Quantitative Optical Coherence Tomography Evaluation in Age Related Macular Degeneration, Not Recruiting

## PROJECTS

- Automated Analysis of Retinal OCT Images - Stanford University (2012 - present)

## Publications

---

### PUBLICATIONS

- **Predicting Systemic Health Features from Retinal Fundus Images Using Transfer-Learning-Based Artificial Intelligence Models.** *Diagnostics (Basel, Switzerland)*  
Khan, N. C., Perera, C., Dow, E. R., Chen, K. M., Mahajan, V. B., Mruthyunjaya, P., Do, D. V., Leng, T., Myung, D.  
2022; 12 (7)
- **A buoyant mass in the brain: Intraventricular migration of silicone oil.** *American journal of ophthalmology case reports*  
Guo, L. Y., Jamiolkowski, R. M., Hassan, M., Leng, T.  
2022; 25: 101399
- **Ophthalmology and COVID-19: The Impact of the Pandemic on Patient Care and Outcomes: An IRIS (R) Registry Study** *OPHTHALMOLOGY*  
Leng, T., Gallivan, M. D., Kras, A., Lum, F., Roe, M. T., LI, C., Parke II, D. W., Schwartz, S. D.  
2021; 128 (12): 1782-1784
- **Ocular adverse events following intravitreal brolocizumab for neovascular age-related macular degeneration at a single tertiary care center.** *European journal of ophthalmology*  
Nguyen, H. V., Li, A. S., Silva, A. R., Leng, T.  
2021: 11206721211059332
- **Artificial intelligence and ophthalmic surgery** *CURRENT OPINION IN OPHTHALMOLOGY*  
Mishra, K., Leng, T.  
2021; 32 (5): 425-430
- **Artificial intelligence and ophthalmic surgery.** *Current opinion in ophthalmology*  
Mishra, K., Leng, T.  
2021; 32 (5): 425-430
- **Foundational Considerations for Artificial Intelligence Utilizing Ophthalmic Images.** *Ophthalmology*  
Abramoff, M. D., Cunningham, B., Patel, B., Eydelman, M. B., Leng, T., Sakamoto, T., Blodi, B., Grenon, S. M., Wolf, R. M., Manrai, A. K., Ko, J. M., Chiang, M. F., Char, et al  
2021
- **Imaging and artificial intelligence for progression of age-related macular degeneration.** *Experimental biology and medicine (Maywood, N.J.)*  
Romond, K., Alam, M., Kravets, S., Sisternes, L. d., Leng, T., Lim, J. I., Rubin, D., Hallak, J. A.

2021: 15353702211031547

- **A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis.** *Diabetes care*  
Tang, F., Wang, X., Ran, A., Chan, C. K., Ho, M., Yip, W., Young, A. L., Lok, J., Szeto, S., Chan, J., Yip, F., Wong, R., Tang, et al  
2021
- **Ophthalmology and COVID-19: The Impact of the Pandemic on Patient Care and Outcomes-an IRIS Registry Study.** *Ophthalmology*  
Leng, T., Gallivan, M. D., Kras, A., Lum, F., Roe, M. T., Li, C., Parke, D. W., Schwartz, S. D.  
2021
- **Probabilistic Forecasting of Anti-VEGF Treatment Frequency in Neovascular Age-Related Macular Degeneration.** *Translational vision science & technology*  
Pfau, M., Sahu, S., Rupnow, R. A., Romond, K., Millet, D., Holz, F. G., Schmitz-Valckenberg, S., Fleckenstein, M., Lim, J. I., de Sisternes, L., Leng, T., Rubin, D. L., Hallak, et al  
2021; 10 (7): 30
- **AAO IRIS Registry data replicates VIEW 1 and VIEW 2 clinical trial outcome data**  
Leng, T., Xu, J., Kras, A., Wood, K., Doriswami, R., Shadra, C., Torres, A., Li, C., Lum, F.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **A Multi-Task Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multi-Center Analysis**  
Cheung, C., Tang, F., Ran, A., Tan, G., Ting, D. W., Chen, H., Ma, H., Tang, S., Leng, T., Kakavand, S., Mannil, S. S., Chang, R., Liew, et al  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Extending interoperability in ophthalmology through Fast Healthcare Interoperability Resource (FHIR)**  
Kras, A., Oliver, W., Gillies, M. C., Mair, M., Chu, S., Morlet, N., Mbagwu, M., Hwang, T. S., Roe, M., Leng, T.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Large Scale Cross-Vendor Linkage of Ophthalmic Imaging and American Academy of Ophthalmology IRIS (R) Registry Clinical Data**  
Mbagwu, M., Leng, T., Luthra, A., Borkar, D., Kras, A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Visual acuity and progression of macular atrophy in patients receiving intravitreal anti-VEGF for age-related macular degeneration.** *European journal of ophthalmology*  
Ji, M. H., Callaway, N. F., Ludwig, C. A., Vail, D., Al-Moujahed, A., Rosenblatt, T. R., Leng, T., Sanislo, S. R., Moshfeghi, D. M.  
2021: 11206721211001708
- **Management of repository corticosteroid injection therapy for non-infectious uveitis: a Delphi study** *ACTA OPHTHALMOLOGICA*  
Nguyen, Q., Anesi, S. D., Chexal, S., Chu, D. S., Dayani, P. N., Leng, T., Meleth, A. D., Sallam, A. A., Sheppard, J. D., Silverstein, S. M., Toyos, M., Wang, R. C., Foster, et al  
2021
- **Frequency of Urgent or Emergent Vitreoretinal Surgical Procedures in the United States During the COVID-19 Pandemic.** *JAMA ophthalmology*  
Breazzano, M. P., Nair, A. A., Arevalo, J. F., Barakat, M. R., Berrocal, A. M., Chang, J. S., Chen, A. n., Elliott, D. n., Garg, S. J., Ghadiali, Q. n., Gong, D. n., Grewal, D. S., Handa, et al  
2021
- **Automatic Identification of Referral-Warranted Diabetic Retinopathy Using Deep Learning on Mobile Phone Images.** *Translational vision science & technology*  
Ludwig, C. A., Perera, C., Myung, D., Greven, M. A., Smith, S. J., Chang, R. T., Leng, T.  
2020; 9 (2): 60
- **MS-CAM: Multi-Scale Class Activation Maps for Weakly-Supervised Segmentation of Geographic Atrophy Lesions in SD-OCT Images** *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*  
Ma, X., Ji, Z., Niu, S., Leng, T., Rubin, D. L., Chen, Q.  
2020; 24 (12): 3443–55
- **An integrated time adaptive geographic atrophy prediction model for SD-OCT images.** *Medical image analysis*  
Zhang, Y., Zhang, X., Ji, Z., Niu, S., Leng, T., Rubin, D. L., Yuan, S., Chen, Q.  
2020; 68: 101893

- **Rationale for American Society of Retina Specialists Best Practice Recommendations for Conducting Vitreoretinal Surgery during the COVID-19 Era.** *Journal of vitreoretinal diseases*  
Chao, D. L., Sridhar, J., Kuriyan, A. E., Leng, T., Barnett, B. P., Carlin, A. F., Wykoff, C. C., Gayer, S., Mruthunjaya, P., Yonekawa, Y., Fawzi, A. A., Berrocal, A. M., Yeh, et al  
2020; 4 (5): 420-429
- **Prediction of age-related macular degeneration disease using a sequential deep learning approach on longitudinal SD-OCT imaging biomarkers.** *Scientific reports*  
Banerjee, I., de Sisternes, L., Hallak, J. A., Leng, T., Osborne, A., Rosenfeld, P. J., Gregori, G., Durbin, M., Rubin, D.  
2020; 10 (1): 15434
- **Multilayer atrophy progression in eyes with geographic atrophy secondary to age-related macular degeneration**  
Pfau, M., von der Emde, L., De Sisternes, L., Hallak, J., Leng, T., Schmitz-Valckenberg, S., Holz, F. G., Fleckenstein, M., Rubin, D. L.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **The Machines Are Coming: Implications for Image Reading Centers of the Future** *OPHTHALMOLOGY*  
Leng, T.  
2020; 127 (6): 802–3
- **Two-year outcomes of patients receiving anti-VEGF treatment for neovascular age-related macular degeneration on a treat-and-extend regimen**  
Eng, V., Leng, T.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Fully-automated prediction of anti-VEGF treatment using imaging biomarkers in neovascular age-related macular degeneration**  
Hallak, J., Pfau, M., De Sisternes, L., Rupnow, R., Baker, J., Leng, T., Rubin, D. L.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Automated and Computer-Assisted Detection, Classification, and Diagnosis of Diabetic Retinopathy.** *Telemedicine journal and e-health : the official journal of the American Telemedicine Association*  
Abramoff, M. D., Leng, T., Ting, D. S., Rhee, K., Horton, M. B., Brady, C. J., Chiang, M. F.  
2020
- **Subthreshold laser therapy for macular oedema from branch retinal vein occlusion: focused review.** *The British journal of ophthalmology*  
Eng, V. A., Leng, T. n.  
2020
- **Progression of Photoreceptor Degeneration in Geographic Atrophy Secondary to Age-related Macular Degeneration.** *JAMA ophthalmology*  
Pfau, M. n., von der Emde, L. n., de Sisternes, L. n., Hallak, J. A., Leng, T. n., Schmitz-Valckenberg, S. n., Holz, F. G., Fleckenstein, M. n., Rubin, D. L.  
2020
- **Complete RPE and outer retinal atrophy in patients receiving anti-VEGF treatment for neovascular age-related macular degeneration.** *PloS one*  
Eng, V. A., Rayess, N., Nguyen, H. V., Leng, T.  
2020; 15 (5): e0232353
- **Rapid Fluctuation of Subretinal Fluid on Encorafenib and Binimetinib.** *Retina (Philadelphia, Pa.)*  
Li, A. S., Leng, T. n., Nagpal, S. n., Liao, Y. J.  
2020
- **Effect of Human Central Nervous System Stem Cell Subretinal Transplantation on Progression of Geographic Atrophy Secondary to Non Neovascular Age-Related Macular Degeneration.** *Ophthalmology. Retina*  
Nittala, M. G., Uji, A. n., Velaga, S. B., Hariri, A. H., Naor, J. n., Birch, D. G., Spencer, R. n., Leng, T. n., Capela, A. n., Tsukamoto, A. n., Ip, M. n., Sadda, S. R.  
2020
- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment** *BRITISH JOURNAL OF OPHTHALMOLOGY*  
Greven, M. A., Leng, T., Silva, R., Leung, L., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.  
2019; 103 (10): 161–64
- **Reply to Letter to the Editor: Preventing Progression in Nonexudative Age-Related Macular Degeneration With Subthreshold Laser Therapy: A Systematic Review** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Eng, V. A., Leng, T.

2019; 50 (9): 602–3

- **Imaging, Genetic, and Demographic Factors Associated With Conversion to Neovascular Age-Related Macular Degeneration: Secondary Analysis of a Randomized Clinical Trial** *JAMA OPHTHALMOLOGY*  
Hallak, J. A., de Sisternes, L., Osborne, A., Yaspan, B., Rubin, D. L., Leng, T.  
2019; 137 (7): 738–44
- **Reflectance adaptive optics scanning light ophthalmoscopy of epiretinal membranes**  
Razeen, M. M., Leng, T., Dubra, A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **A Comparison: Structural optical coherence tomography and angiography in diabetic retinopathy and diabetic macular edema**  
Huang, L. C., Shariati, A., Oh, A., Leng, T., Liao, Y.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Regression patterns of Retinopathy of Prematurity after intravitreal injection of Ranibizumab**  
Ji, M. H., Moshfeghi, D., Shields, R. A., Bodnar, Z., Ludwig, C. A., Callaway, N. F., Leng, T., Sanislo, S., Orazi, L., Amorelli, G., Lepore, D.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Preventing Progression in Nonexudative Age-Related Macular Degeneration With Subthreshold Laser Therapy: A Systematic Review** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Eng, V. A., Wood, E. H., Boddu, S., Karth, P. A., Leng, T.  
2019; 50 (3): E61–E70
- **Geographic atrophy segmentation in SD-OCT images using synthesized fundus autofluorescence imaging.** *Computer methods and programs in biomedicine*  
Wu, M. n., Cai, X. n., Chen, Q. n., Ji, Z. n., Niu, S. n., Leng, T. n., Rubin, D. L., Park, H. n.  
2019; 182: 105101
- **A MULTI-SCALE DEEP CONVOLUTIONAL NEURAL NETWORK FOR JOINT SEGMENTATION AND PREDICTION OF GEOGRAPHIC ATROPHY IN SD-OCT IMAGES**  
Zhang, Y., Ji, Z., Niu, S., Leng, T., Rubin, D. L., Chen, Q., IEEE  
IEEE.2019: 565–68
- **Automatically Determining the Confocal Parameters From OCT B-Scans for Quantification of the Attenuation Coefficients** *IEEE TRANSACTIONS ON MEDICAL IMAGING*  
Dwork, N., Smith, G. T., Leng, T., Pauly, J. M., Bowden, A. K.  
2019; 38 (1): 261–68
- **Thomas A. Swift's Electric Rifle Injuries to the Eye and Ocular Adnexa: The Management of Complex Trauma.** *Ophthalmology. Retina*  
Moysidis, S. N., Koullis, N. n., Rodger, D. C., Chao, J. R., Leng, T. n., de Carlo, T. n., Burkemper, B. n., Ediriwickrema, L. S., George, M. S., Jiang, Y. n., Bohm, K. J., Gulati, S. n., Torres, et al  
2019; 3 (3): 258–69
- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment.** *The British journal of ophthalmology*  
Greven, M. A., Leng, T., Silva, R. A., Leung, L. B., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.  
2018
- **Progressive Reductions in Acuity Occur even within the First Three Days After a Macula-Off Retinal Detachment**  
Greven, M., Leng, T., Leung, L., Moshfeghi, D. M., Sanislo, S., Silva, R., Schachar, I.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Micro-RNAs in the pathogenesis of epiretinal membrane (ERM) formation**  
Kaidonis, G., Stary, C. M., Leng, T.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Automatic identification of referral-warranted diabetic retinopathy using deep learning on mobile phone images**  
Leng, T., Greven, M., Smith, S., Ludwig, C., Chang, R., Gargeya, R.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Beyond Retinal Layers: A Deep Voting Model for Automated Geographic Atrophy Segmentation in SD-OCT Images** *TRANSLATIONAL VISION SCIENCE & TECHNOLOGY*



- Ji, Z., Chen, Q., Niu, S., Leng, T., Rubin, D. L.  
2018; 7 (1): 1
- **Automated detection of foveal center in SD-OCT images using the saliency of retinal thickness maps** *MEDICAL PHYSICS*  
Niu, S., Chen, Q., de Sisternes, L., Leng, T., Rubin, D. L.  
2017; 44 (12): 6390–6403
  - **Automated detection of foveal center in SD-OCT images using the saliency of retinal thickness maps.** *Medical physics*  
Niu, S., Chen, Q., de Sisternes, L., Leng, T., Rubin, D. L.  
2017; 44 (12): 6390-6403
  - **Valved 25-Gauge Cannula for Vitreous Tap and Injection** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Leng, T., Moshfeghi, D. M.  
2017; 48 (11): 916–17
  - **En Face Optical Coherence Tomography Angiography Imaging Versus Fundus Photography in the Measurement of Choroidal Nevi** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Lee, M. D., Kaidonis, G., Kim, A. Y., Shields, R. A., Leng, T.  
2017; 48 (9): 741–47
  - **The superficial and deep retinal capillary plexus in cases of fovea plana imaged by spectral-domain optical coherence tomography angiography.** *American journal of ophthalmology case reports*  
Kaidonis, G., Silva, R. A., Sanislo, S. R., Leng, T.  
2017; 6: 41–44
  - **Manual Removal of Intraocular Lens Silicone Oil Droplets and Dystrophic Calcifications Using a Nitinol Loop: A Case Series.** *Ophthalmic surgery, lasers & imaging retina*  
Moussa, K., Leng, T., Oatts, J. T., Bhisitkul, R. B., Hwang, D. G., Stewart, J. M.  
2017; 48 (5): 422-426
  - **Automated Identification of Diabetic Retinopathy Using Deep Learning.** *Ophthalmology*  
Gargeya, R., Leng, T.  
2017
  - **Automated intraretinal segmentation of SD-OCT images in normal and age-related macular degeneration eyes** *BIOMEDICAL OPTICS EXPRESS*  
de Sisternes, L., Jonna, G., Moss, J., Marmor, M. F., Leng, T., Rubin, D. L.  
2017; 8 (3): 1926-1949
  - **Automated intraretinal segmentation of SD-OCT images in normal and age-related macular degeneration eyes.** *Biomedical optics express*  
de Sisternes, L., Jonna, G., Moss, J., Marmor, M. F., Leng, T., Rubin, D. L.  
2017; 8 (3): 1926-1949
  - **Spectral Domain Optical Coherence Tomography Angiography in Stargardt's Macular Dystrophy.** *Ophthalmology. Retina*  
Lee, M., Kaidonis, G., Leng, T.  
2017; 1 (5): 452-454
  - **Individual Drusen Segmentation and Repeatability and Reproducibility of Their Automated Quantification in Optical Coherence Tomography Images.** *Translational vision science & technology*  
de Sisternes, L., Jonna, G., Greven, M. A., Chen, Q., Leng, T., Rubin, D. L.  
2017; 6 (1): 12-?
  - **Significant Bilateral Response in Diabetic Macular Edema After Single Unilateral Intravitreal Aflibercept Injection.** *Ophthalmic surgery, lasers & imaging retina*  
Rahimy, E., Nyong'o, O., Leng, T.  
2017; 48 (2): 167-169
  - **Retinotomy Closure Following Subretinal Stem Cell Transplant With a 30-Gauge Needle.** *Ophthalmic surgery, lasers & imaging retina*  
Ludwig, C. A., Leng, T.  
2016; 47 (9): 869-873

- **Fully Automated Prediction of Geographic Atrophy Growth Using Quantitative Spectral-Domain Optical Coherence Tomography Biomarkers.** *Ophthalmology*  
Niu, S., de Sisternes, L., Chen, Q., Rubin, D. L., Leng, T.  
2016; 123 (8): 1737-1750
- **En Face Imaging of Epiretinal Membranes and the Retinal Nerve Fiber Layer Using Swept-Source Optical Coherence Tomography.** *Ophthalmic surgery, lasers & imaging retina*  
Greven, M. A., Elkin, Z., Nelson, R. W., Leng, T.  
2016; 47 (8): 730-734
- **8 Questions with Dr. Moshfeghi.** *Ophthalmic surgery, lasers & imaging retina*  
Leng, T., Moshfeghi, D. M.  
2016; 47 (8): 786-788
- **PROSPECTIVE TRIAL OF ENDOGENOUS FUNGAL ENDOPHTHALMITIS AND CHORIORETINITIS RATES, CLINICAL COURSE, AND OUTCOMES IN PATIENTS WITH FUNGEMIA** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Paulus, Y. M., Cheng, S., Karth, P. A., Leng, T.  
2016; 36 (7): 1357-1363
- **Factors Associated With Poor Response to Aflibercept After Switching From Ranibizumab or Bevacizumab in Neovascular Age-related Macular Degeneration** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Cheng, S., Leng, T.  
2016; 47 (5): 458-465
- **Spectral-Domain Optical Coherence Tomography Angiography of Central Retinal Artery Occlusion** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Damento, G., Chen, M. H., Leng, T.  
2016; 47 (5): 467-470
- **Multi-Modal Longitudinal Evaluation of Subthreshold Laser Lesions in Human Retina, Including Scanning Laser Ophthalmoscope-Adaptive Optics Imaging.** *Ophthalmic surgery, lasers & imaging retina*  
Wood, E. H., Leng, T., Schachar, I. H., Karth, P. A.  
2016; 47 (3): 268-275
- **Mobile Health in the Retinal Clinic Population: Access to and Interest in Self-Tracking.** *Ophthalmic surgery, lasers & imaging retina*  
Ludwig, C. A., Callaway, N. F., Park, J. H., Leng, T.  
2016; 47 (3): 252-257
- **AFLIBERCEPT FOR THE TREATMENT OF RETINAL PIGMENT EPITHELIAL DETACHMENTS.** *Retina (Philadelphia, Pa.)*  
He, L., Silva, R. A., Moshfeghi, D. M., Blumenkranz, M. S., Leng, T.  
2016; 36 (3): 492-498
- **THINKING LEAN: Improving Vitreoretinal Clinic Efficiency by Decentralizing Optical Coherence Tomography.** *Retina (Philadelphia, Pa.)*  
Callaway, N. F., Park, J. H., Maya-Silva, J., Leng, T.  
2016; 36 (2): 335-341
- **Automated geographic atrophy segmentation for SD-OCT images using region-based C-V model via local similarity factor.** *Biomedical optics express*  
Niu, S., de Sisternes, L., Chen, Q., Leng, T., Rubin, D. L.  
2016; 7 (2): 581-600
- **Improving Vitreoretinal Clinic Efficiency by Decentralizing Optical Coherence Tomography** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Callaway, N. F., Park, J. H., Maya-Silva, J., Leng, T.  
2016; 36 (2): 335-341
- **Automated geographic atrophy segmentation for SD-OCT images using region-based C-V model via local similarity factor** *BIOMEDICAL OPTICS EXPRESS*  
Niu, S., de Sisternes, L., Chen, Q., Leng, T., Rubin, D. L.  
2016; 7 (2): 581-600
- **Noninvasive detection of microaneurysms in diabetic retinopathy by swept-source optical coherence tomography.** *Clinical ophthalmology (Auckland, N.Z.)*

- 
- Cheng, S., Leng, T.  
2016; 10: 1791-1795
- **Optical Coherence Tomography-Guided Short-Duration Positioning after Macular Hole Surgery.** *Ophthalmology. Retina*  
Greven, M. A., Cheng, S. n., Leng, T. n.  
2016; 1 (2): 176-78.e1
  - **Manual Removal of Dystrophic Calcifications From Silicone Intraocular Lenses Using a 27-Gauge Nitinol Loop With Concave Tines.** *Retina (Philadelphia, Pa.)*  
Schachar, I., Leng, T.  
2015; 35 (12): 2650-1
  - **Automated segmentation of optic disc in SD-OCT images and cup-to-disc ratios quantification by patch searching-based neural canal opening detection** *OPTICS EXPRESS*  
Wu, M., Leng, T., de Sisternes, L., Rubin, D. L., Chen, Q.  
2015; 23 (24): 31216-31229
  - **Intraocular Nematode Affixed to Posterior Lens Capsule.** *Ophthalmic surgery, lasers & imaging retina*  
Karth, P. A., Swinney, C. C., Moshfeghi, D. M., Yannuzzi, L. A., Pang, C. E., Leng, T.  
2015; 46 (10): 1066-1067
  - **Short-Term Outcomes of Aflibercept Therapy for Diabetic Macular Edema in Patients With Incomplete Response to Ranibizumab and/or Bevacizumab.** *Ophthalmic surgery, lasers & imaging retina*  
Wood, E. H., Karth, P. A., Moshfeghi, D. M., Leng, T.  
2015; 46 (9): 950-954
  - **Restricted Summed-Area Projection for Geographic Atrophy Visualization in SD-OCT Images** *TRANSLATIONAL VISION SCIENCE & TECHNOLOGY*  
Chen, Q., Niu, S., Shen, H., Leng, T., de Sisternes, L., Rubin, D. L.  
2015; 4 (5)
  - **Fabrication of healthy and disease-mimicking retinal phantoms with tapered foveal pits for optical coherence tomography.** *Journal of biomedical optics*  
Lee, G. C., Smith, G. T., Agrawal, M., Leng, T., Ellerbee, A. K.  
2015; 20 (8): 85004-?
  - **Fabrication of healthy and disease-mimicking retinal phantoms with tapered foveal pits for optical coherence tomography.** *Journal of biomedical optics*  
Lee, G. C., Smith, G. T., Agrawal, M., Leng, T., Ellerbee, A. K.  
2015; 20 (8): 85004-?
  - **Visual Prognosis of Eyes Recovering From Macular Hole Surgery Through Automated Quantitative Analysis of Spectral-Domain Optical Coherence Tomography (SD-OCT) Scans.** *Investigative ophthalmology & visual science*  
de Sisternes, L., Hu, J., Rubin, D. L., Leng, T.  
2015; 56 (8): 4631-4643
  - **Application of Improved Homogeneity Similarity-Based Denoising in Optical Coherence Tomography Retinal Images** *JOURNAL OF DIGITAL IMAGING*  
Chen, Q., de Sisternes, L., Leng, T., Rubin, D. L.  
2015; 28 (3): 346-361
  - **Experience With Aflibercept for the Treatment of Neovascular Age-Related Macular Degeneration.** *Ophthalmic surgery, lasers & imaging retina*  
He, L., Silva, R. A., Ayoub, N., Moshfeghi, D. M., Leng, T.  
2015; 46 (5): 542-549
  - **SUNDRP: six years of screening for retinopathy of prematurity with telemedicine.** *Canadian journal of ophthalmology. Journal canadien d'ophtalmologie*  
Wang, S. K., Callaway, N. F., Wallenstein, M. B., Henderson, M. T., Leng, T., Moshfeghi, D. M.  
2015; 50 (2): 101-106
  - **Acute Retinal Necrosis Secondary to Herpes Simplex Virus Type 2 in Neonates** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Venincasa, V. D., Emanuelli, A., Leng, T., Perlini, E., Villegas, V., Diaz-Barbosa, M., Gutierrez, M., Miller, D., Berrocal, A. M.  
2015; 46 (4): 499-501
  - **Risk factors for respiratory depression in patients undergoing retrobulbar block for vitreoretinal surgery.** *Ophthalmic surgery, lasers & imaging retina*  
Silva, R. A., Leng, J. C., He, L., Brock-Utne, J. G., Drover, D. R., Leng, T.
-

2015; 46 (2): 243-247

- **Stem cell treatments: What's happening in 2015** *Retinal Physician*  
Leng, T.  
2015: 48-50
- **West African Crystalline Maculopathy in Sickle Cell Retinopathy.** *Case reports in ophthalmological medicine*  
Kung, J. S., Leng, T.  
2015; 2015: 910713-?
- **Idiopathic pigmented vitreous cyst.** *Acta ophthalmologica*  
Ludwig, C. A., Leng, T. n.  
2015
- **A FALSE COLOR FUSION STRATEGY FOR DRUSEN AND GEOGRAPHIC ATROPHY VISUALIZATION IN OPTICAL COHERENCE TOMOGRAPHY IMAGES** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Chen, Q., Leng, T., Niu, S., Shi, J., de Sistiernes, L., Rubin, D. L.  
2014; 34 (12): 2346-2358
- **Quantitative SD-OCT imaging biomarkers as indicators of age-related macular degeneration progression.** *Investigative ophthalmology & visual science*  
de Sistiernes, L., Simon, N., Tibshirani, R., Leng, T., Rubin, D. L.  
2014; 55 (11): 7093-7103
- **Optic nerve pit-associated choroidal cleft.** *JAMA ophthalmology*  
Silva, R. A., Chang, R. T., Moshfeghi, D. M., Leng, T.  
2014; 132 (9): 1142-?
- **Multimodal imaging and multifocal electroretinography demonstrate autosomal recessive Stargardt disease may present like occult macular dystrophy.** *Retina (Philadelphia, Pa.)*  
Sisk, R. A., Leng, T.  
2014; 34 (8): 1567-75
- **An improved optical coherence tomography-derived fundus projection image for drusen visualization.** *Retina (Philadelphia, Pa.)*  
Chen, Q., Leng, T., Zheng, L. L., Kutzscher, L., de Sistiernes, L., Rubin, D. L.  
2014; 34 (5): 996-1005
- **Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDRP): five years of screening with telemedicine.** *Ophthalmic surgery, lasers & imaging retina*  
Fijalkowski, N., Zheng, L. L., Henderson, M. T., Wang, S. K., Wallenstein, M. B., Leng, T., Moshfeghi, D. M.  
2014; 45 (2): 106-113
- **Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDRP): Five Years of Screening With Telemedicine.** *Ophthalmic surgery, lasers & imaging retina*  
Fijalkowski, N., Zheng, L. L., Henderson, M. T., Wang, S. K., Wallenstein, M. B., Leng, T., Moshfeghi, D. M.  
2014; 45 (2): 106-113
- **Retinal breaks due to intravitreal ocriplasmin.** *Clinical ophthalmology (Auckland, N.Z.)*  
Silva, R. A., Moshfeghi, D. M., Leng, T.  
2014; 8: 1591-1594
- **Automated drusen segmentation and quantification in SD-OCT images.** *Medical image analysis*  
Chen, Q., Leng, T., Zheng, L., Kutzscher, L., Ma, J., de Sistiernes, L., Rubin, D. L.  
2013; 17 (8): 1058-1072
- **Semi-automatic geographic atrophy segmentation for SD-OCT images** *BIOMEDICAL OPTICS EXPRESS*  
Chen, Q., de Sistiernes, L., Leng, T., Zheng, L., Kutzscher, L., Rubin, D. L.  
2013; 4 (12): 2729-2750
- **Traumatic airbag maculopathy.** *JAMA ophthalmology*  
Kung, J., Leung, L. B., Leng, T., Liao, Y. J.  
2013; 131 (5): 685-687

- **Quantitative evaluation of drusen on photographs.** *Ophthalmology*  
Rubin, D. L., de Sistiernes, L., Kutzscher, L., Chen, Q., Leng, T., Zheng, L. L.  
2013; 120 (3): 644-644 e2
- **Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDROP): Four-years of Screening with Telemedicine** *CURRENT EYE RESEARCH*  
Fijalkowski, N., Zheng, L. L., Henderson, M. T., Wallenstein, M. B., Leng, T., Moshfeghi, D. M.  
2013; 38 (2): 283-291
- **Abundance of myelinated nerve fibers.** *JAMA ophthalmology*  
Leng, T., Nyong'o, O. L.  
2013; 131 (2): 245-?
- **Carbon nanotube bucky paper as an artificial support membrane for retinal cell transplantation.** *Ophthalmic surgery, lasers & imaging retina*  
Leng, T., Fishman, H. A.  
2013; 44 (1): 73-76
- **Management of suspected endogenous endophthalmitis** *Retina Today*  
Leng, T.  
2013; 8 (6): 32-33
- **Antibiotic controversies in vitreoretinal practice** *Retinal Physician*  
Karth, P. A., Leng, T.  
2013: 22-25
- **FOVEAL CAVITATION AS AN OPTICAL COHERENCE TOMOGRAPHY FINDING IN CENTRAL CONE DYSFUNCTION** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leng, T., Marmor, M. F., Kellner, U., Thompson, D. A., Renner, A. B., Moore, W., Sowden, J. C.  
2012; 32 (7): 1411-1419
- **Cannula-Based 25-Gauge Vitreous Tap And Injection: A New Surgical Technique** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Chan, A., Leng, T., Moshfeghi, D. M.  
2012; 32 (5): 1021-1022
- **Effect of Lidocaine Gel Anesthesia on Endophthalmitis Rates Following Intravitreal Injection** *OPHTHALMIC SURGERY LASERS & IMAGING*  
Lad, E. M., Maltenfort, M. G., Leng, T.  
2012; 43 (2): 115-120
- **REDUCING ORAL FLORA CONTAMINATION OF INTRAVITREAL INJECTIONS WITH FACE MASK OR SILENCE** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Doshi, R. R., Leng, T., Fung, A. E.  
2012; 32 (3): 473-476
- **The influence of medical school and residency training program upon choice of an academic career and academic productivity among otolaryngology faculty in the United States of America: Our experience of 1433 academic otolaryngologists** *CLINICAL OTOLARYNGOLOGY*  
Leng, T., Jaben, K. A., Zheng, L., Yang, J., Paulus, Y. M., Moshfeghi, A. A., Maltenfort, M. G., Campbell, P. G., Ratliff, J. K., Moshfeghi, D. M.  
2012; 37 (1): 58-62
- **Two cases of X-linked retinoschisis with different spectral domain optical coherence tomography findings.** *Clinical ophthalmology (Auckland, N.Z.)*  
Leng, T.  
2012; 6: 1563-1565
- **Intravitreal dexamethasone in the management of delayed-onset bleb-associated endophthalmitis.** *International journal of inflammation*  
Jacobs, D. J., Pathengay, A., Flynn, H. W., Leng, T., Miller, D., Shi, W.  
2012; 2012: 503912-?
- **Medical School and Residency Influence on Choice of an Academic Career and Academic Productivity Among US Neurology Faculty** *ARCHIVES OF NEUROLOGY*  
Campbell, P. G., Lee, Y. H., Bell, R. D., Maltenfort, M. G., Moshfeghi, D. M., Leng, T., Moshfeghi, A. A., Ratliff, J. K.  
2011; 68 (8): 999-1004

- **Medical school and residency influence on choice of an academic career and academic productivity among neurosurgery faculty in the United States** *Clinical article JOURNAL OF NEUROSURGERY*  
Campbell, P. G., Awe, O. O., Maltenfort, M. G., Moshfeghi, D. M., Leng, T., Moshfeghi, A. A., Ratliff, J. K.  
2011; 115 (2): 380-386
- **Povidone-Iodine Before Lidocaine Gel Anesthesia Achieves Surface Antisepsis** *Annual Meeting of the Retina-Society*  
Doshi, R. R., Leng, T., Fung, A. E.  
SLACK INC.2011: 346-49
- **SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Paulus, Y. M., Jain, A., Nomoto, H., Sramek, C., Gariano, R. F., Andersen, D., Schuele, G., Leung, L., Leng, T., Palanker, D.  
2011; 31 (2): 380-388
- **DELAYED-ONSET BLEB-ASSOCIATED ENDOPHTHALMITIS (1996-2008) Causative Organisms and Visual Acuity Outcomes** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leng, T., Miller, D., Flynn, H. W., Jacobs, D. J., Gedde, S. J.  
2011; 31 (2): 344-352
- **The vitreous trap: a simple, surgeon-controlled technique for obtaining undiluted vitreous and subretinal specimens during pars plana vitrectomy.** *Retina (Philadelphia, Pa.)*  
Moshfeghi, A. A., Albin, T. A., Kitchens, J. W., Leng, T., Moshfeghi, D. M.  
2011; 31 (2): 426-427
- **Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam** *JOURNAL OF BIOMEDICAL OPTICS*  
Sramek, C., Leung, L., Leng, T., Brown, J., Paulus, Y. M., Schuele, G., Palanker, D.  
2011; 16 (2)
- **Retinopathy of prematurity in an infant with Aicardi's syndrome** *EYE*  
Leng, T., Moshfeghi, D. M.  
2011; 25 (2): 257-258
- **Delayed-onset bleb-associated endophthalmitis: presentation and outcome by culture result.** *Clinical ophthalmology (Auckland, N.Z.)*  
Jacobs, D. J., Leng, T., Flynn, H. W., Shi, W., Miller, D., Gedde, S. J.  
2011; 5: 739-744
- **Endogenous Candida albicans endophthalmitis following spontaneous abortion and IUD removal.** *Ophthalmic surgery, lasers & imaging : the official journal of the International Society for Imaging in the Eye*  
Doshi, R. R., Wender, J. D., Jumper, J. M., Sanislo, S. R., Leng, T.  
2011; 42 Online: e132-4
- **Neovascularization in Purtscher's retinopathy.** *Clinical ophthalmology (Auckland, N.Z.)*  
Chan, A., Fredrick, D. R., Leng, T.  
2011; 5: 1585-1587
- **Photodynamic therapy rescue for subretinal fluid exacerbation after focal laser treatment in idiopathic central serous chorioretinopathy.** *The open ophthalmology journal*  
Leng, T., Sanislo, S. R., Jack, R. L.  
2011; 5: 6-9
- **Kinetics of central macular thickness reduction in patients with macular edema after intravitreal drug therapy.** *Clinical ophthalmology (Auckland, N.Z.)*  
He, L., Chan, A., Leng, T., Blumenkranz, M. S.  
2011; 5: 1751-1758
- **Focal periocular carboplatin chemotherapy avoids systemic chemotherapy for unilateral, progressive retinoblastoma.** *Retina (Philadelphia, Pa.)*  
Leng, T., Cebulla, C. M., Scheffler, A. C., Murray, T. G.  
2010; 30 (4): S66-8
- **Intraoperative Use of Three-Dimensional Spectral-Domain Optical Coherence Tomography** *OPHTHALMIC SURGERY LASERS & IMAGING*  
Ide, T., Wang, J., Tao, A., Leng, T., Kymionis, G. D., O'Brien, T. P., Yoo, S. H.

2010; 41 (2): 250-254

- **Retinal capillary hemangioma in von Hippel-Lindau disease** *Arch Ophthalmol*  
Leng T, Murray TG  
2010; 128 (4): 425
- **Branch retinal artery occlusion after septoplasty.** *Ophthalmic surgery, lasers & imaging : the official journal of the International Society for Imaging in the Eye*  
Leng, T., Moshfeghi, D. M.  
2010; 41 Online: e1-2
- **Descemet Stripping Automated Endothelial Keratoplasty Tissue Preparation With Femtosecond Laser and Contact Lens** *CORNEA*  
Ide, T., Yoo, S. H., Kymionis, G. D., Leng, T., Marini, C., Stanciu, N. A., O'Brien, T. P.  
2010; 29 (1): 93-98
- **Branch retinal artery occlusion after septoplasty.** *Ophthalmic surgery, lasers & imaging : the official journal of the International Society for Imaging in the Eye*  
Leng, T., Moshfeghi, D. M.  
2010; 41 Online: e1-2
- **ENDOPHTHALMITIS CAUSED BY PROTEUS SPECIES Antibiotic Sensitivities and Visual Acuity Outcomes** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leng, T., Flynn, H. W., Miller, D., Murray, T. G., Smiddy, W. E.  
2009; 29 (7): 1019-1024
- **SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY CHARACTERISTICS OF CUTICULAR DRUSEN** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leng, T., Rosenfeld, P. J., Gregori, G., Puliafito, C. A., Punjabi, O. S.  
2009; 29 (7): 988-993
- **Retinal Vascular Tumor and Peripheral Retinal Vasculitis in the Setting of Systemic Tuberculosis** *OPHTHALMIC SURGERY LASERS & IMAGING*  
Leng, T., Scheffler, A. C., Murray, T. G.  
2009; 40 (4): 409-412
- **Eyelid and orbital implant injury after enucleation** *OphthalmologyWeb*  
Leng T  
2009
- **Subconjunctival Air Leakage After Descemet's Stripping Automated Endothelial Keratoplasty(DSAEK) in a Post-Trabeculectomy Eye.** *The open ophthalmology journal*  
Ide, T., Yoo, S. H., Leng, T., O'Brien, T. P.  
2009; 3: 1-2
- **Three-dimensional spectral domain optical coherence tomography of a clear corneal cataract incision** *OPHTHALMIC SURGERY LASERS & IMAGING*  
Leng, T., Lujan, B. J., Yoo, S. H., Wang, J.  
2008; 39 (4): S132-S134
- **Glaucoma valves and shunts** *OphthalmologyWeb*  
Leng T  
2008
- **A model retinal interface based on directed neuronal growth for single cell stimulation** *BIOMEDICAL MICRODEVICES*  
Mehenti, N. Z., Tsien, G. S., Leng, T., Fishman, H. A., Bent, S. F.  
2006; 8 (2): 141-150
- **Full thickness retinal pigment epithelium explants proliferate into epithelial monolayers on synthetic Bruch's membrane substitutes** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Lombardi, L., Leng, T., Yeh, E., Molnar, F., Noolandi, J., Marmor, M. F., Fishman, H. A., Blumenkranz, M. S.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2005
- **Synthetic Bruch's membrane substitutes: Comparisons after subretinal transplantation with cultured iris pigment epithelium** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Molnar, F. E., Lombardi, L., Berker, N., Yeh, E., Yellachich, D., Leng, T., Dalal, R., Marmor, M. F., Fishman, H. A., Blumenkranz, M. S.

ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2005

- **Directed retinal nerve cell growth for use in a retinal prosthesis interface** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*  
Leng, T., Wu, P., Mehenti, N. Z., Bent, S. F., Marmor, M. F., Blumenkranz, M. S., Fishman, H. A.  
2004; 45 (11): 4132-4137
- **The chick chorioallantoic membrane as a model tissue for surgical retinal research and simulation** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leng, T., MILLER, J. M., Bilbao, K. V., Palanker, D. V., Huie, P., Blumenkranz, M. S.  
2004; 24 (3): 427-434
- **Fabrication and characterization of a carbon nanotube microelectrode array for retinal prostheses** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Wang, K., Dai, H., Leng, T., Mehenti, N. Z., Harris, J. S., Fishman, H. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2004: U379–U379
- **Retinal light processing using carbon nanotubes** *Official Gazette of the USPTO Patents*  
Loftus D, Leng T, Fishman HA  
2004; 1283 (5)
- **The artificial synapse chip: A flexible retinal interface based on directed retinal cell growth and neurotransmitter stimulation** *ARTIFICIAL ORGANS*  
Peterman, M. C., Mehenti, N. Z., Bilbao, K. V., Lee, C. J., Leng, T., Noolandi, J., Bent, S. F., Blumenkranz, M. S., Fishman, H. A.  
2003; 27 (11): 975-985
- **Wiggling subcutaneous lumps - Furuncular myiasis due to Dermatobia hominis larvae** *CLINICAL INFECTIOUS DISEASES*  
Leng, T., Smith, D. S.  
2003; 37 (4): 542-?
- **Wiggling subcutaneous lumps.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*  
Leng, T., Smith, D. S.  
2003; 37 (4): 542, 591-2
- **Cell demographics from full thickness retinal explant growth on micropatterned surfaces** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Wu, P., Mehenti, N. Z., Leng, T., Marmor, M. F., Blumenkranz, M. S., Fishman, H. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2003: U692–U692
- **A retinal interface based on neurite micropatterning for single cell stimulation** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Mehenti, N. Z., Peterman, M. C., Leng, T., Marmor, M. F., Blumenkranz, M. S., Bent, S. F.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2003: U704–U704
- **Microcontact printing on human tissue for retinal cell transplantation** *ARCHIVES OF OPHTHALMOLOGY*  
Lee, C. J., Huie, P., Leng, T., Peterman, M. C., Marmor, M. F., Blumenkranz, M. S., Bent, S. F., Fishman, H. A.  
2002; 120 (12): 1714-1718
- **A biodegradable matrix facilitates the use of lens capsule as a substrate for subretinal cell transplantation** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Bilbao, K. V., Leng, T., Fung, A. E., Huie, P., Sanislo, S. R., Marmor, M. F., Blumenkranz, M. S., Fishman, H. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2002: U972–U972
- **Directed ganglion cell growth and stimulation with microcontact printing as a prototype visual prosthesis interface** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Leng, T., Huie, P., Mehenti, N. Z., Peterman, M. C., Lee, C. J., Marmor, M. F., Sanislo, S. R., Beni, S. F., Blumenkranz, M. S., Fishman, H. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2002: U1279–U1279
- **The artificial synapse chip: A novel interface for a retinal prosthesis based on neurotransmitter stimulation and nerve regeneration** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Fishman, H. A., Peterman, M. C., Leng, T., Huie, P., Lee, C. J., Bloom, D. M., Sanislo, S. R., Marmor, M. F., Bent, S. F., Blumenkranz, M. S.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2002: U803–U803
- **Tissue engineered lens capsule as a substrate for IPE and RPE transplantation** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*



Fung, A. E., Lee, C. J., Leng, T., Bilbao, L. V., Peterman, M. C., Blumenkranz, M. S., Bent, S. F., Fishman, H. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2002: U973-U973

- **Novel interface to biological systems for retinal prosthetics** *Symposium on MEMS and BioMEMS held at the 2002 MRS Spring Meeting*  
Peterman, M. C., Lee, C., Leng, T., Huie, P., Fishman, H. A.  
MATERIALS RESEARCH SOCIETY.2002: 149-154
- **A real world lesson** *The Bulletin of the Santa Clara County Medical Association*  
Leng T  
2001; 7 (6): 6-7
- **Capillary electrophoresis coupled with RBL-2H3 cells as a single-cell biosensor** *Stanford University Department of Biological Sciences Honors Thesis*  
Leng T, Zare RN  
1999