

Curriculum Vitae

Andrew David Pucker, BS, MS, OD, PhD, FAAO, FSLs
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Professional Position Assistant Professor
University of Alabama at Birmingham
1716 University Boulevard
Birmingham, AL 35233

Career Goals

- To be a leading translational vision scientist in the areas of myopia development, contact lenses, and dry eye related conditions.
- To create a stimulating translational research training program and to develop educational materials that lead to the development of clinical, graduate, and postdoctoral students.

Education

2016 The Ohio State University College of Optometry
Columbus, OH
Doctor of Philosophy, Vision Science

- Supervised by Donald O. Mutti, OD, PhD
- Dissertation: Mechanotransduction in the Ciliary Muscle

2011 The Ohio State University College of Optometry
Columbus, OH
Doctor of Optometry

2011 The Ohio State University College of Optometry
Columbus, OH
Master of Science, Vision Science

- Supervised by Jason J. Nichols, OD, MPH, PhD
- Thesis: Collection, Quantification, and Analysis of Meibum and Tear Lipids

2005 University of Wisconsin-La Crosse
La Crosse, WI
Bachelor of Science, Biology Major, Cellular & Molecular Emphasis,
Chemistry Minor

- Biology Department Honors
- Supervised by Michael Abler, PhD
- Thesis: Investigation of Genetic Variations Potentially Associated with Crohn's Disease

Professional Experience

- 2018-Present Chief Medical Officer, Optikal Care Inc., Norcross, GA
- Provided advice related to general optometry and contact lens care and compliance.
- 2016-Present Assistant Professor, University of Alabama at Birmingham, Birmingham, AL
- Managed a NIH and industry funded laboratory focused on myopia development, contact lenses, and dry eye, taught optometric courses (didactic and clinical), and completed regular faculty duties.
- 2016-2018 Contributing Editor, Care Solution Corner, *Contact Lenses Today*, Ambler, PA
- Contributed bi-weekly e-newsletters related to contact lens care and compliance.
- 2016-Present Contributing Editor, Research Review (2019-Present), Contact Lens Design & Materials (2017-2018), Contact Lens Care & Compliance (2016-2018), *Contact Lens Spectrum*, Ambler, PA
- Contributed newsletters regularly related to contact lens materials and contact lens care and compliance.
- 2013-2016 Senior Research Associate, The Ohio State University, Columbus, OH
- Investigated topics related to ciliary muscle mechanotransduction, contact lenses, and dry eye.
- 2011-2013 Clinical Instructor, The Ohio State University, Columbus, OH
- Investigated topics related to ciliary muscle mechanotransduction, contact lenses, and dry eye, and taught in the contact lens and primary care clinics.
- 2011-2014 Contributing Author, *Contact Lens & Cornea Section Newsletter*, American Optometric Association, St. Louis, MO
- Contributed bi-monthly e-newsletters.
- 2011-2014 Independent Optometrist, Pearle Vision Polaris Parkway, Columbus, OH
- Administered direct patient care 12 to 24 hours per month.
- 2008-2009 Research Technologist, The Ohio State University, Columbus, OH
- Investigated protein and lipid associations with contact lenses and dry eye.
- 2009 Trainee, National Eye Institute Summer Research Program (T35), The Ohio State University, Columbus, OH
- Investigated protein and lipid associations with contact lenses and dry eye.
- 2006-2007 Research Technologist II, Rush University, Chicago, IL

- Investigated the genetic basis of rheumatoid arthritis and ankylosing spondylitis in BALBc mice.
 - 2006-2007 Research Technologist I, University of Chicago, Chicago, IL
 - Investigated the genetic basis of mouse susceptibility to mammary tumors induced by the Mouse Mammary Tumor Virus.
 - 2004 Trainee, Medical College of Wisconsin, Milwaukee, WI
 - Investigated c-FOS expression in Brown Norway and Dahl Salt Sensitive rats in response to hypoxic conditions.
 - 2003-2005 Undergraduate Researcher, University of Wisconsin-La Crosse, La Crosse, WI
 - Investigated genetic variations associated with Crohn's disease in an affected family.
- Teaching Experience**
- 2017-Present Clinic Chief
Myopia Control Clinic: Clinic 335
 - Served as the clinic chief and helped design course, clinic, and didactic materials.
 - 2017-Present Course Master
Ocular Microbiology: Optometry 228/122
 - Served as course master for this one credit course, selected new topics, and developed all new course materials.
 - 2016-Present Guest Lecturer
Basic Science and Clinical Optometry: Optometry & Vision Science 111
 - Annually delivered lectures related to dry eye, myopia, and infection control.
 - 2016 Clinical Attending
Cornea and Contact Lens Clinic: Clinic 412
 - Served as a clinical attending to fourth year optometry students in the contact lens clinic.
 - 2014 Teaching Assistant
Contact Lenses Lab: Optometry 7510
 - Helped the course master with the laboratory portion of the course.
 - 2013 Teaching Assistant
General and Histological Anatomy: Vision Science 6100
 - Helped the course master with the laboratory portion of the course.
 - 2011-2015 Clinical Attending
Contact Lenses & Primary Care: Optometry 7450.03
 - Served as a clinical attending to fourth year optometry students in the contact lens and primary care clinic.

Research Experience

Grant Activity

Ongoing Research Support 2018-2019

Direct Application of Systane Complete to Contact Lenses for the Treatment of Contact Lens Discomfort, Alcon

- Principal Investigator: Andrew D. Pucker, OD, PhD
- Award Amount: \$114,042.50
- Goal: To determine if direct application of Systane Complete is able to improve contact lens comfort.
- Role: I served as the Principal Investigator, and I managed all aspects of this research.

2018-2019

Evaluation of Systane Complete for the Treatment of Contact Lens Discomfort, Alcon

- Principal Investigator: Andrew D. Pucker, OD, PhD
- Award Amount: \$114,822.50
- Goal: To determine if application of Systane Complete before and after contact lens use is able to improve contact lens comfort.
- Role: I served as the Principal Investigator, and I managed all aspects of this research.

2016-2019

Investment Pool for Action (IMPACT) Funds, University of Alabama at Birmingham

- Principal Investigator: Andrew D. Pucker, OD, PhD
- Award Amount: \$450,000
- Goal: To develop an independent laboratory at the University of Alabama at Birmingham.
- Role: I served as the Principal Investigator, and I managed all aspects of this research.

Completed Research Support 2018-2019

Treating Contact Lens Discomfort with Orthokeratology, Euclid Systems

- Principal Investigator: Andrew D. Pucker, OD, PhD
- Award Amount: \$45,000
- Goal: To determine if orthokeratology can treat contact lens discomfort and to understand the initial orthokeratology wearing experience.
- Role: I served as the Principal Investigator, and I managed all aspects of this research.

2013-2019*

Mechanotransduction in the Ciliary Muscle, NIH/NEI: K08EY023264

- Principal Investigator: Andrew D. Pucker, OD, PhD
- Award Amount: \$688,635
- Goal: To characterize molecular and biomechanical changes related to mechanical stretch in the ciliary muscle during eye growth.

- Role: I served as the Principal Investigator, and I managed all aspects of this research.
- *Includes one year no-cost extension
- 2017-2018
- Etiological Role of Extracellular Vesicles and their Transcriptome in Inflammatory Dry Eye Disease, Vision Science Research Center Pilot Grant, University of Alabama at Birmingham
- Principal Investigators: Andrew D. Pucker, OD, PhD and Jason J. Nichols, OD, MPH, PhD
 - Award Amount: \$25,000
 - Goal: To characterize the tear transcriptome and to determine tear transcriptome differences between subjects with and without dry eye disease.
 - Role: I served as the Co-Principal Investigator, and I helped managed all aspects of this research.
- 2017-2018
- Tear Transcriptome Associations with Dry Eye Disease, Faculty Development Grant Program, University of Alabama at Birmingham
- Principal Investigator: Andrew D. Pucker, OD, PhD
 - Award Amount: \$10,000
 - Goal: To characterize the tear transcriptome and to determine tear transcriptome differences between subjects with and without dry eye disease.
 - Role: I served as the Principal Investigator, and I managed all aspects of this research.
- 2016-2018
- Clinical Factors Associated with Contact Lens Dropout, Alcon
- Principal Investigator: Andrew D. Pucker, OD, PhD
 - Award Amount: \$206,122
 - Goal: To determine if meibomian gland atrophy contributes to contact lens dropout.
- Role: I served as the Principal Investigator, and I managed all aspects of this research.
- 2016-2017
- Assessment of a Practitioner's Perception of Scleral Contact Lens Complications, Contamac, Bausch + Lomb, and American Academy of Optometry
- Principal Investigator: Carolina Kunnen, BOptom, PhD
 - Award Amount: \$8,500
 - Goal: To determine the practitioner's perceived frequency of scleral contact lens complications.
 - Role: I served as a Co-Investigator, collected and analyzed data, and wrote the first draft of the grant.
- 2015-2016
- Ethnic, Regional, and Lifestyle Associations with Meibomian Gland Atrophy, American Academy of Optometry Fellows Doing Research Booth
- Co-Chairs: Andrew D. Pucker, OD, PhD & Sruthi Srinivasan, PhD, BS Optom

- Award Amount: \$5,000
- Goal: To characterize associations with meibomian gland atrophy in an ethnically and regionally diverse population.
- Role: I served as the study's co-chair, and I managed all aspects of this research.

2013-2015

Impact of Meibomian Gland Atrophy on Contact Lens Comfort: A Pilot Study, Johnson & Johnson Services, Inc.

- Principal Investigator: Lyndon Jones, PhD, FCOptom
- Award Amount: \$95,000
- Goal: To determine how meibomian gland function is associated with contact lens comfort.
- Role: I served a Co-Investigator, meetings leader, and site coordinator for this five-site, international study.

2011-2013

Myopia Development in Children, NIH/NEI: U10 EY08893

- Principal Investigator: Karla Zadnik, OD, PhD
- Goal: To predict the onset of myopia and to describe normal eye growth in children.
- Role: Serving as a trainee, I developed *in vitro* and *ex vivo* methods aimed at understanding how the ciliary muscle is related to myopia progression.

2009-2010

Omega-3 Fatty Acid Regulation of Inflammatory Molecules Induced by Hyperosmolar Stress in Corneal Epithelial Cells, Beta Sigma Kappa Research Grant

- Principal Investigator: Jason J. Nichols, OD, PhD
- Award Amount: \$1,000
- Goal: To determine if prostaglandin E₂ and leukotriene B₄ are expressed in higher quantities in subjects who have contact lens-related dry eye.
- Role: I served as a Co-Investigator, and I was the primary author of the proposal.

Research Mentoring

2017-Present

Keyur Savla, Vision Science Graduate Program PhD Student, University of Alabama at Birmingham, Birmingham, AL

- Dissertation Project Title: Customizing Myopia Control with the Intelliwave Multifocal Toric Contact Lens
- Rotation Project Title: Ciliary Muscle Changes Associated with Induced Myopia
- Role: Primary Mentor

2017-2018

Mariana Dupont, Vision Science Graduate Program PhD Student, University of Alabama at Birmingham, Birmingham, AL

- Rotation Project Title: Ciliary Muscle Changes Associated with Induced Myopia
- Role: Rotation Mentor

- 2017 Kartik Patel, Summer Science Institute III, University of Alabama at Birmingham, Birmingham, AL
- Summer Project Title: Characterization of Guinea Pig Ciliary Muscle Fiber Types
 - Role: Summer Mentor
- 2014 Brad Kubis, National Eye Institute Summer Research Program (T35), The Ohio State University, Columbus, OH
- Co-Mentor
 - Thesis Title: Contact Lens Assessment in Neophyte
 - Role: Co-Mentor
- Grant Review*
- 2019 American Optometric Association, St. Louis, MO
- Reviewed one Career Development Award application
- 2018 American Academy of Optometry Foundation, Orlando, FL
- Reviewed two Career Development Award applications
- 2017 Center for Clinical and Translational Science, Birmingham, AL
- Pre-submission review for Timothy Gawne's R01 Grant
- 2017 Center for Clinical and Translational Science, Birmingham, AL
- Pre-submission review for Anna Ablamowicz's NIH K-Award
- 2017 University of Alabama School of Optometry, Birmingham, AL
- Pre-submission review for Jillian Ziemanski's NIH K-Award
- 2017 Center for Clinical and Translational Science, Birmingham, AL
- Pre-submission review for Stephanie Cox's NIH K-Award
- Service to Journals*
- 2018-Present Invited Reviewer, *Cochrane Eyes and Vision*
- 2018-Present Invited Reviewer, *Biomedical Optics Express*
- 2018-Present Editorial Board Member, *PLOS ONE*
- 2017-Present Invited Reviewer, *PLOS ONE*
- 2016-Present Invited Reviewer, *Clinical Ophthalmology*
- 2016-Present Invited Reviewer, *Contact Lens & Anterior Eye*
- 2016-Present Invited Reviewer, *Molecular Vision*
- 2016-Present Topical Editor, *Optometry & Vision Science*

2015-Present	Invited Reviewer, <i>Veterinary Ophthalmology</i>
2015-Present	Invited Reviewer, <i>Clinical Ophthalmology</i>
2015-Present	Invited Reviewer, <i>Eye and Vision</i>
2015-Present	Invited Reviewer, <i>International Journal of Molecular Sciences</i>
2015-Present	Invited Reviewer, <i>American Journal of Pathology</i>
2015-2016	Guest Editor, Feature Issue on Contact Lens Comfort, <i>Optometry & Vision Science</i>
2015-Present	Invited Reviewer, <i>Enliven: Clinical Ophthalmology and Research</i>
2013-Present	Invited Reviewer, <i>Eye & Contact Lens</i>
2012-Present	Invited Reviewer, <i>Investigative Ophthalmology & Visual Science</i>
2012-Present	Invited Reviewer, <i>Optometry & Vision Science</i>

Peer-Reviewed Publications

1. **Pucker AD**, McGwin, G, Franklin QX, Nattis A, Lievens C. Evaluation of Systane Complete for the Treatment of Contact Lens Discomfort. *Cont Lens Anterior Eye*. 2019; In press.
2. **Pucker AD**, Jones-Jordan LA, Kunnen CM, Marx S, Powell DR, Kwan JT, Srinivasan S, Sickenberger W, Jones L. Impact of Meibomian Gland Width on Successful Contact Lens Use. *Cont Lens Anterior Eye*. 2019; In press.
3. **Pucker AD**, Jones-Jordan LA, Marx S, Powell DR, Kwan JT, Sickenberger W, Jones L. Letter-to-the-Editor: The Role of Soft Contact Lens Wear on Meibomian Gland Morphology and Function. *Eye Contact Lens*. 2019;45:276-277.
4. **Pucker AD**, Jones-Jordan LA, Marx S, Powell DR, Kwan JT, Srinivasan S, Sickenberger W, Jones L. Clinical Factors Associated with Contact Lens Dropout. *Cont Lens Anterior Eye*. 2019; 42:318-324.
5. Ervin AM, Law A, **Pucker AD**. Punctal Occlusion for Dry Eye Syndrome: Summary of a Cochrane Systematic Review. *Br J Ophthalmol*. 2019; 103: 301-306.
6. Postnikoff CK, **Pucker AD**, Laurent J, Huisingh C, McGwin G, Nichols JJ. Identification of Leukocytes Associated with Midday Fogging in the Post-Lens Tear Film of Scleral Contact Lens Wearers. *Invest Ophthalmol Vis Sci*. 2019; 60: 226-233.
7. **Pucker AD**, Bickle KM, Jones-Jordan LA, Ticak A, Kwan JT, Kuhn J, Mathew J, Kunnen CM. Assessment of a Practitioner's Perception of Scleral Contact Lens Complications. *Cont Lens Anterior Eye*. 2019; 42:15-19.

8. **Pucker AD**, Dougherty BE, Jones-Jordan LA, Kwan JT, Kunnen CM, Srinivasan S. Psychometric Analysis of the SPEED Questionnaire and CLDEQ-8. *Invest Ophthalmol Vis Sci*. 2018; 59:3307-3313.
9. Ervin AM, Law A, **Pucker AD**. Punctal Occlusion for Dry Eye Syndrome. *Cochrane Database Syst Rev*. 2017; 6:CD006775.
10. **Pucker AD**, Ng SM, Nichols JJ. Over the Counter (OTC) Artificial Tear Drops for Dry Eye Syndrome. *Cochrane Database Syst Rev*. 2016; 2:CD009729.
11. **Pucker AD**, Jackson AR, Morris HJ, Fischer AJ, McHugh KM, Mutti DO. Ciliary Muscle Cell Changes During Guinea Pig Development. *Invest Ophthalmol Vis Sci*. 2015; 56:7691-7696.
12. **Pucker AD**, Jones-Jordan LA, Li W, Kwan JT, Lin MC, Sickenberger W, Marx S, Srinivasan S, Jones L. Associations with Meibomian Gland Atrophy in Daily Contact Lens Wearers. *Optom Vis Sci*. 2015 (Feature Issue on Dry Eye Disease); 92: e206-213.
13. **Pucker AD**, Haworth KM. Authors' Response. *Ocul Surf*. 2015; 13:179-180.
14. **Pucker AD**, Haworth KM. The Presence & Significance of Polar Meibum & Tear Lipids. *Ocul Surf*. 2015; 13:26-42.
15. **Pucker AD**, Carpenter AR, McHugh KM, Mutti DO. Ciliary Muscle Development in Guinea Pigs. *Optom Vis Sci*. 2014; 91:730-739.
16. **Pucker AD**, Sinnott LT, Kao CY, Bailey MD. Region-Specific Relationships Between Refractive Error and Ciliary Muscle Thickness in Children. *Invest Ophthalmol Vis Sci*. 2013; 54:4710-4716.
17. **Pucker AD**, Nichols JJ. Analysis of Meibum and Tear Lipids. *Ocul Surf*. 2012; 10:230-50.
18. **Pucker AD**, Nichols JJ. A Method of Imaging Lipids on Silicone Hydrogel Contact Lenses. *Optom Vis Sci*. 2012 (Feature Issue on Imaging and Measurement of the Anterior Eye); 89:E777-7787.
19. Kudryavtseva E, Forde TS, **Pucker AD**, Adarichev VA. Wnt Signaling Genes of Murine Chromosome 15 are Involved in Sex-affected Pathways of inflammatory Arthritis. *Arthritis & Rheumatism*. 2012; 64:1057-1068.
20. **Pucker AD**, Thangavelu M, Nichols JJ. In Vitro Lipid Deposition on Hydrogel and Silicone Hydrogel Contact Lenses. *Invest Ophthalmol Vis Sci*. 2010; 51:6334-6340.
21. **Pucker AD**, Thangavelu M, Nichols JJ. Enzymatic Quantification of Cholesterol and Cholesterol Esters from Silicone Hydrogel Contact Lenses. *Invest Ophthalmol Vis Sci*. 2010; 51:2949-2954.
22. **Pucker AD**, Nichols JJ. Impact of a Rinse Step on Protein Removal from Silicone Hydrogel Contact Lenses. *Optom Vis Sci*. 2009; 86:943-947.
23. Swanson I, Jude BA, Zhang AR, **Pucker A**, Smith ZE, Golovkina TV. Sequences Within the gag Gene of Mouse Mammary Tumor Virus Needed for Mammary Gland Cell Transformation. *J Virol*. 2006; 80:3215-3224.

Editor-Reviewed Publications

1. **Pucker AD.** Hot Topics in Scleral Lens Fitting. *Contact Lens Spectrum*. January 2020. In Press.
2. **Pucker AD.** Implementing Modern Myopia Management. *Review of Optometry*. January 2020. In Press.
3. **Pucker AD.** Soft Contact Lens-Based Myopia Management. *Review of Myopia Management*. July 2019. Available from: <https://reviewofmm.com/soft-contact-lens-based-myopia-management/>.
4. **Pucker AD.** Treating Dry Eye with Scleral Lenses. *Contact Lens Spectrum*. July 2019. Available from: <https://www.clspectrum.com/issues/2019/july-2019/research-review>.
5. **Pucker AD.** How to Build a Myopia Control Practice. *Optometry Times*. July 2019. Available from: https://www.optometrytimes.com/article/how-build-myopia-control-practice?qt-resource_topics_rightrail=1.
6. **Pucker AD.** Scleral Lenses Change Lives. *Birmingham Medical News*. June 2019. Available from: <https://www.birminghammedicalnews.com/mod/blogpress/2019/06/03/scleral-lenses-change-lives->.
7. **Pucker AD.** Meibomian Gland Atrophy in Contact Lens Wearers. *Contact Lens Spectrum*. January 2019. Available from: <https://www.clspectrum.com/issues/2019/january-2019/research-review>.
8. **Pucker AD.** Selecting GP Contact Lenses. *Contact Lens Spectrum*. December 2018. Available from: <https://www.clspectrum.com/issues/2018/december-2018/contact-lens-design-amp;-materials>.
9. **Pucker AD.** Bacterial Species Associated with Microbial Keratitis. *Contact Lens Spectrum*. November 2018. Available from: <https://www.clspectrum.com/issues/2018/november-2018/contact-lens-care-amp;-compliance>.
10. **Pucker AD.** Virtues of Daily Disposable Contact Lenses. *Contact Lens Spectrum*. September 2018. Available from: <https://www.clspectrum.com/issues/2018/september-2018/contact-lens-care-amp;-compliance>.
11. **Pucker AD.** Myopia Control for the Astigmatic Patient. *Contact Lens Spectrum*. August 2018. Available from: <https://www.clspectrum.com/issues/2018/august-2018/contact-lens-design-amp;-materials>.
12. **Pucker AD.** Don't Forget Backup Glasses! *Contact Lenses Today*. August 19, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/august-19,-2018>.
13. **Pucker AD.** Understanding Neophyte Contact Lens Wearer Success. *Contact Lenses Today*. August 5, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/august-5,-2018>.

14. **Pucker AD, Duong K.** Improving Contact Lens Comfort with Orthokeratology. *Contact Lens Spectrum*. July 2018. Available from: <https://www.clspectrum.com/issues/2018/july-2018/contact-lens-care-amp;-compliance>.
15. **Pucker AD.** Red Eye Risk by the Numbers. *Contact Lenses Today*. July 22, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/july-22,-2018>.
16. **Pucker AD.** Do You Trust Your Contact Lens Wearers? *Contact Lenses Today*. July 1, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/july-1,-2018>.
17. **Pucker AD.** Office Dispensing of Contact Lens Care Products. *Contact Lenses Today*. June 17, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/june-17,-2018>.
18. **Pucker AD.** Online Patient Education Resources. *Contact Lenses Today*. June 3, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/june-3,-2018>.
19. **Pucker AD.** The Essentials of Drug-Delivering Lenses. *Contact Lens Spectrum*. June 2018. Available from: <https://www.clspectrum.com/issues/2018/june-2018/contact-lens-design-amp;-materials>.
20. **Pucker AD.** Insurance's Influence on Vision Health. *Contact Lenses Today*. May 13, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/may-13,-2018>.
21. **Pucker AD.** Educating Millennials. *Contact Lens Spectrum*. May 2018. Available from: <https://www.clspectrum.com/issues/2018/may-2018/contact-lens-care-amp;-compliance>.
22. **Pucker AD.** The Good, Bad, and Ugly Red Eye. *Contact Lenses Today*. April 29, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/april-29,-2018>.
23. **Pucker AD.** Contact Lenses Can Change Lives. *Contact Lenses Today*. April 15, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/april-15,-2018>.
24. **Pucker AD.** Safety of Cosmetically Tinted Contact Lenses. *Contact Lenses Today*. April 1, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/april-1,-2018>.
25. **Pucker AD.** Invite a Friend to the Party. *American Academy of Optometry Newsletter*. Spring 2018. Available from: https://www.aaopt.org/docs/publications/newsletters/2018-spring-newsletter-web.pdf?sfvrsn=af2f2916_4.
26. **Pucker AD.** Unauthorized Overnight Contact Lens Use. *Contact Lenses Today*. March 18, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/march-18,-2018>.
27. **Pucker AD.** Standard Precautions in Eye Care Clinics. *Contact Lenses Today*. March 4, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/march-4,-2018>.
28. **Pucker AD.** The Myopia Control Clinic Puzzle (Feature Article). *Contact Lens Spectrum*. March 2018. Available from: <https://www.clspectrum.com/issues/2018/march-2018/the-myopia-control-clinic-puzzle>.

29. Savla K, **Pucker AD**. A Global Perspective on OTC Contact Lenses. *Contact Lens Spectrum*. March 2018. Available from: <https://www.clspectrum.com/issues/2018/march-2018/contact-lens-care-amp-compliance>.
30. **Pucker AD**. What about Hybrid Contact Lenses? *Contact Lens Spectrum*. February 2018. Available from: <https://www.clspectrum.com/issues/2018/february-2018/contact-lens-design-amp-materials>.
31. **Pucker AD**. Discussing Bad News with Patients. *Contact Lenses Today*. February 18, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/february-18,-2018>.
32. **Pucker AD**. Video Recorded Patient Education. *Contact Lenses Today*. February 4, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/february-4,-2018>.
33. **Pucker AD**. Contact Lens Recycling by the Numbers. *Contact Lenses Today*. January 21, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/january-21,-2018>.
34. **Pucker AD**. A New Year's Resolution. *Contact Lenses Today*. January 7, 2018. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/january-7,-2018>.
35. **Pucker AD**. Lenses Associated Corneal Neovascularization. *Contact Lens Spectrum*. January 2018. Available from: <https://www.clspectrum.com/issues/2018/january-2018/contact-lens-care-amp-compliance>.
36. **Pucker AD**. Ultraviolet Protective Contact Lenses. *Contact Lens Spectrum*. December 2017. Available from: <https://www.clspectrum.com/issues/2017/december-2017/contact-lens-design-amp-materials>.
37. **Pucker AD**. Contact Lens Prescription Verification. *Contact Lenses Today*. December 10, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/december-10,-2017>.
38. **Pucker AD**. Top Three Tips for Caring for Specialty Contact Lenses. *Contact Lens Spectrum*. November 2017. Available from: <https://www.clspectrum.com/supplements/2017/november-2017/contact-lens-spectrum-special-edition-2017-your-g/contact-lens-care-amp-compliance>.
39. **Pucker AD**. Environmental Impact of Soft Contact Lens Use. *Contact Lenses Today*. November 19, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/november-19,-2017>.
40. **Pucker AD**. Disinfecting Trial Contact Lenses. *Contact Lenses Today*. November 5, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/november-5,-2017>.
41. **Pucker AD**. Preventing Acanthamoeba Keratitis. *Contact Lens Spectrum*. November 2017. Available from: <https://www.clspectrum.com/issues/2017/november-2017/contact-lens-care-amp-compliance>.
42. **Pucker AD**, Laurent JM. Scleral Contact Lens Complications (Feature Article). *Contact Lens Spectrum*. October 2017. Available from:

- <https://www.clspectrum.com/supplements/2017/october-2017/scleral-lenses-advanced-fitting,-design,-and-trou/scleral-contact-lens-complications>.
43. **Pucker AD.** Controlling Myopia Progression. *Birmingham Medical News*. October 2017. Available from: <http://www.birminghammedicalnews.com/mod/blogpress/2017/10/23/controlling-myopia-progression>.
 44. **Pucker AD.** Maximizing Compliance by Improving Patient Recall. *Contact Lenses Today*. October 22, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/october-22,-2017>.
 45. **Pucker AD.** Halloween Costume Safety. *Contact Lenses Today*. October 8, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/october-8,-2017>.
 46. Fabrykowski MC, **Pucker AD.** Conjunctivochalasis Conundrum. *Optometry Times*. October 16, 2017. Available from: <http://optometrytimes.modernmedicine.com/optometrytimes/news/understanding-conundrum-conjunctivochalasis>.
 47. **Pucker AD.** Clinical Conditions Associated with High Modulus Soft Contact Lenses. *Contact Lens Spectrum*. September 2017. Available from: <https://www.clspectrum.com/issues/2017/september-2017/contact-lens-design-amp;-materials>.
 48. **Pucker AD.** Identifying Ocular Pathogens. *Contact Lens Spectrum*. September 2017. Available from: <https://www.clspectrum.com/issues/2017/september-2017/contact-lens-care-amp;-compliance>.
 49. **Pucker AD.** Surpassing the Disinfection Standard. *Contact Lenses Today*. September 24, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/september-24,-2017>.
 50. **Pucker AD.** Contact Lens Rewetting Drops. *Contact Lenses Today*. September 10, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/september-10,-2017>.
 51. **Pucker AD.** Contact Lens Replacement Reminders. *Contact Lenses Today*. August 20, 2017. Available from: <https://www.clspectrum.com/newsletters/contact-lenses-today/august-20,-2017>.
 52. **Pucker AD.** A Case of Lost and Found. *Contact Lenses Today*. August 6, 2017. Available from: <http://www.clspectrum.com/newsletters/contact-lenses-today/august-6,-2017>.
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 54. **Pucker AD.** Parental Permission for Contact Lenses. *Contact Lenses Today*. July 9, 2017. Available from: <http://www.clspectrum.com/newsletters/contact-lenses-today/july-9,-2017>.

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Continuing Education Lectures

1. **Pucker AD**. Bickle K. Implementing Myopia Control with Standard and Specialty Lenses. COPE Course ID: TBD. Optometry's Meeting, Washington, DC. (1 hr). Jun 2019.
2. **Pucker AD**. Hot Topics in Scleral Contact Lens Research. COPE Course ID: 62077-CL. Academy 2019 Orlando, Orlando, FL. (1 hr). October 2019.
3. **Pucker AD**. Building a Myopia Control Practice. COPE Course ID: 61812-GO. Optometry's Meeting, St Louis, MO. (1 hr). Jun 2019.
4. Brujic M, **Pucker AD**, Michaud L. Scleral Lens Workshop. COPE Course ID: 62421-CL. Optometry's Meeting, St Louis, MO. (2 hr). Jun 2019.

5. **Pucker AD.** Hot Topics in Scleral Contact Lens Research. COPE Course ID: 62077-CL. Optometry's Meeting, St Louis, MO. (1 hr). Jun 2019.
6. **Pucker AD.** The Practitioner's Perception of Scleral Contact Lens Complications: 60540-GO. University of Alabama at Birmingham School of Optometry, Birmingham, AL. (0.25 hr). Feb 2019.
*Event organizer
7. **Pucker AD.** Building a Myopia Control Practice. COPE Course ID: 57676-GO. Academy 2018 San Antonio, San Antonio, TX. (1 hr). Nov 2018.
8. **Pucker AD.** Rapid Fire Current Topics in Eye Care: Challenges and Learnings from Establishing a Myopia Control Practice. University of Alabama at Birmingham School of Optometry, Birmingham, AL. (0.25 hr). Feb 2018.
*Event organizer
9. Weise KK, **Pucker AD.** Controlling Nearsightedness: Headlines, Hyperbole, and Hypotheses vs. The Evidence. Pediatric Medical Grand Rounds, Children's of Alabama, Birmingham, AL. (1 hr). Jun 2017.
10. **Pucker AD.** Making Sense of Meibomian Gland Atrophy. Chicago College of Optometry, Downers Grove, IL. (1 hr). Feb 2017.
11. **Pucker AD.** Rapid Fire Current Topics in Eye Care: Making Sense of Meibomian Gland Atrophy. COPE Course ID: 52159-GO. University of Alabama at Birmingham School of Optometry, Birmingham, AL. (0.25 hr). Feb 2017
*Event organizer
12. Kading D, **Pucker AD.** What's New, What's Different: A Clinical and Research Perspective of Dry Eye and Contact Lens Wear. Global Specialty Lens Symposium, Las Vegas, NV. (1 hr). Jan 2017.
13. **Pucker AD.** Standardizing an Ocular Surface Exam. COPE Course ID: 49910-AS. Optometric Educators, Inc., Dublin, OH. (1 hr). Jul 2017.
14. **Pucker AD.** Making Sense of Meibomian Gland Atrophy. COPE Course ID: 47459-AS. Optometric Educators, Inc., Dublin, OH. (1 hr). Dec 2015.

Invited Lectures

1. **Pucker AD.** Burning to Understand Dry Eye. Sigma Xi, University of Alabama at Birmingham, Birmingham, AL. (1.0 hr). Oct 2019
2. Chalmers R, Caffery B, Nixon G, Leong D, Harthan J, Schornack M, **Pucker AD.** Fellows Doing Research SIG Symposium: The Importance of Observational Research in Optometry: Overview and Examples from the FDR SIG. Academy 2018 San Antonio, San Antonio, TX. (2.0 hrs). Nov 2018
3. **Pucker AD.** Treating Contact Lens Discomfort with Orthokeratology. Euclid Systems, Denver, CO. (0.5 hr). Jun 2018

4. **Pucker AD.** Designing Clinical and Translational Research. Southern College of Optometry, Memphis, TN. (6 hrs). Feb 2018
5. **Pucker AD.** Challenges and Learnings from Establishing a Myopia Control Practice. Global Specialty Lens Symposium, Las Vegas, NV. (0.5 hr). Jan 2018.
*Included panel discussion after lecture
6. **Pucker AD.** Incorporating a Myopia Control Clinic or Center of Excellence into a University Setting: My First 6 Months Experience from UAB. Paragon Vision Sciences, Las Vegas, NV. (0.5 hr). Jan 2018.
*Included panel discussion after lecture
7. **Pucker AD, Jackson AR, McHugh KM, Mutti DO.** Determining the Impact of Form Deprived Vision on Guinea Pig Ciliary Body Development. OSA Fall Vision Meeting, Washington, DC. (0.5 hr). Oct 2017.
*Included panel discussion after lecture
8. Walline JJ, Brennan N, Mutti DO, Read S, **Pucker AD**, Bullimore M, Aller T, Langis M, Bernsten D, González-Méjome JM. Final Debate and Discussion: Theory and Mechanisms. 16th International Myopia Conference, Aston University, Birmingham, England. (1 hr). Sept 2017.
9. **Pucker AD.** Ciliary Muscle's Role in Myopia Development. Vision Science Research Center, University of Alabama at Birmingham, Birmingham, AL. (1 hr). Apr 2017.
10. **Pucker AD.** Navigating Graduate School. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Nov 2015.
11. **Pucker AD.** Myopia's Relationship to the Ciliary Muscle. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Oct 2015.
12. **Pucker AD.** Myopia's Relationship to the Ciliary Muscle. University of Alabama at Birmingham School of Optometry, Birmingham, AL. (1 hr). Apr 2015.
13. **Pucker AD.** Understanding the NIH Career Development (K) Award Maze. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Jan 2015.
14. **Pucker AD.** Understanding the NIH Career Development (K) Award Maze. The Ohio State University, Center for Clinical & Translational Science, Columbus, OH. (1 hr). Dec 2014.
15. **Pucker AD.** Meibomian Gland Dysfunction, Contact Lenses, Tear Lipids, & Myopia Development. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Nov 2014.
16. **Pucker AD.** Understanding the Histological and Biochemical Links Between the Ciliary Muscle and Refractive Error. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Nov 2013.
17. **Pucker AD.** Contact Lens Lipid Deposition. The Ohio State University, College of Optometry, Columbus, OH. (1 hr). Jul 2012.

Conference Proceedings

1. Session Moderator, Contact Lens - Hydrogel I, Academy 2018 San Antonio, San Antonio, TX. Nov 2017.
2. Session Moderator, Accommodation and Binocular Functions – Poster Session 323, ARVO's 2018 Annual Meeting. May 2018.
3. Session Chair, Myopia Development, OSA Fall Vision Meeting, Washington, DC. Oct 2017.

Industry-Sponsored White Papers

1. **Pucker, AD.** Dossier for the Stannard Patient Evaluation of Eye Dryness (SPEED) Questionnaire in FDA Clinical Trials for Dry Eye Devices, EpiTech, 2019.
 - This report was created to justify to the FDA the use of the SPEED Questionnaire in device clinical trials.
2. **Pucker, AD.** Compatibility of Topical Ocular Comfort Drops with Contact Lenses, Alcon, 2019.
 - This was a 9,889-word review manuscript describing the safety of using eyedrops with contact lenses.
3. **Pucker, AD.** Summary of Stannard Patient Evaluation of Eye Dryness (SPEED) Questionnaire Studies, EyeGate Pharmaceuticals, Inc., 2019.
 - This report was created to justify to the FDA the use of the SPEED Questionnaire in device clinical trials.

Professional Service

2017-Present	Member, Association of Schools and Colleges of Optometry, Rockville, MD <ul style="list-style-type: none">• Member, Academic Research Committee, 2019-Present• Member, Biomedical Science Educators SIG, 2017-Present
2008-Present	Member, American Academy of Optometry, Orlando, FL <ul style="list-style-type: none">• Steering Committee Member, Fellows Doing Research Special Interest Group, 2017-Present• Member, Faculty-Student Liaison Committee, 2017-Present• Chair, Membership Committee, 2016-2018• Member, Membership Committee, 2014-2018
2009-Present	Member, The Association for Research in Vision and Ophthalmology, Rockville, MD <ul style="list-style-type: none">• Member, Member Communications Working Group, 2013-2014
2008-2016	Member, Graduate Organization for Vision Science, The Ohio State University, Columbus, OH <ul style="list-style-type: none">• President, 2012-2014• Treasurer, 2011-2012
2007-2016	Member, Ohio Optometric Association, Dublin, OH <ul style="list-style-type: none">• Member, Membership Committee, 2014- 2015

- 2007-2011 Member, American Optometric Student Association, St. Louis, MO
- National Liaison to the American Academy of Optometry, 2010-2011, National Office
 - President, 2009-2010, The Ohio State University
 - President-Elect, 2008-2009, The Ohio State University
- 2008-2010 Member, The Doctor of Optometry Private Practice Club, The Ohio State University, Columbus, OH
- Organization Founder / President, 2008- 2009
- 2004-2005 Member, Society for Undergraduate Research, Scholarly, and Creative Activities, University of Wisconsin-La Crosse, La Crosse, WI
- Organization Cofounder / President, 2004- 2005
- 2005-2008 Science Connections Volunteer, The Chicago Museum of Science and Industry, Chicago, IL
- 2003 Tutor, University of Wisconsin-Fond du Lac, Fond du Lac, WI
- University/School Service**
- 2016-Present Faculty Member, University of Alabama at Birmingham School of Optometry, Birmingham, AL
- Member, Instructor Search Committee, 2019
 - Member, Associate Dean for Research and Graduate Studies Search Committee, 2019
 - Optometry Liaison, Center for Teaching and Learning, 2019-Present
 - Co-Chair, Strategic Advisory Group - Research, Economic Development, and Innovation Subcommittee, 2019-Present
 - Member, Pediatric Faculty Search Committee, 2017
 - Infection Control Officer, Optometry Clinics, 2017-Present
 - Member, Vision Science Graduate Program Admissions Committee, 2017, 2019-Present
 - Member, Professional Program Curriculum Committee, 2017
 - Member, Continuing Education Committee, 2017-Present
 - Member, Faculty Advisory Committee, 2016-Present
- 2016-Present American Academy of Optometry Student Chapter, University of Alabama at Birmingham
- Faculty Advisor, 2016-Present
- 2012-2014 Graduate Student, Council of Graduate Students (CGS), The Ohio State University, Columbus, OH
- Executive Board Member, Senate Advisory Chair, 2013-2014
 - University Senator, Professional Biological Sciences Seat, 2013-2014
 - Delegate, 2012- 2014
 - Member, University Research Committee (URC), 2012- 2014

- Member, Committee on Academic Misconduct (COAM), 2013-2014

Community and Public Service

2016-Present

Volunteers for Optometric Service to Humanity, University of Alabama at Birmingham

- Served as an optometric clinical attending for a 2-day clinic in East Ridge, TN (~400 patients) in 2019.
- Served as an optometric clinical attending for a 2-day clinic in Evensville, TN (~175 patients) in 2019.
- Served as an optometric clinical attending for a 2-day clinic in Fentress County, TN (~200 patients) in 2018.
- Served as an optometric clinical attending for a 4-day clinic in Belmopan, Belize (~550 patients) in 2017.
- Served as optometric clinical attending for a 2-day clinic in Knoxville, TN (~300 patients) in 2017.
- Served as an optometric clinical attending for a 1-day clinic in Knoxville, TN (~80 patients) in 2016.

2012-2016

Usher, Columbus Association for the Performing Arts, Columbus, OH

- Served as a volunteer usher for over 425 hours.

2008-2010

Tour Guide, Optometry Ambassadors, The Ohio State University, Columbus, OH

- Acted as a campus tour guide for over 20 prospective optometry students.

2007-2010

Volunteers for Optometric Service to Humanity, The Ohio State University, Columbus, OH

- Website Manager, 2009-2010
- Volunteered over 100 hours locally doing fundraising and preparing for future medical missions.
- Served as an optometric clinical attending for a 4-day clinic in Lima, Peru (~550 patients) in 2009.

2007-2011

Member, Epsilon Psi Epsilon, The Ohio State University, Columbus, OH

- Regularly attending organizational meetings and service events.

Professional Honors and Awards

Awards

2019

Peter-Abel Award, Association of German Contact Lenses-Specialists and Optometrists

- Awarded \$2,000 for research

2019

Irvin M. and Beatrice Borish Award, American Academy of Optometry

- Awarded \$3,500 for trip to Orlando, FL to receive the award

2018

Rising Star Award, Associations of Schools and Colleges of Optometry

	<ul style="list-style-type: none"> • Awarded \$1,000 for professional development and a trip to Denver, CO to receive the award
2013-2014	<p>Arene T. Wray Fellowship, The Ohio State University</p> <ul style="list-style-type: none"> • Awarded \$1,500
2013-2014	<p>Ohio Lions Eye Research Foundation Fellowship</p> <ul style="list-style-type: none"> • Awarded \$10,000
2012-2013	<p>William C. Ezell Fellowship (Merton C. Flom Leadership), American Optometric Foundation</p> <ul style="list-style-type: none"> • Awarded \$8,000 and two \$750 travel grants
2011-2012	<p>Arene T. Wray Fellowship, The Ohio State University</p> <ul style="list-style-type: none"> • Awarded \$1,500
2011-2012	<p>William C. Ezell Fellowship (Cornea, Contact Lenses, and Refractive Technologies), American Optometric Foundation</p> <ul style="list-style-type: none"> • Awarded \$8,000 and two \$750 travel grants
2011	<p>The Vincent J. Ellerbrock Memorial Award, The Ohio State University</p> <ul style="list-style-type: none"> • Awarded \$200
2011	<p>Outstanding Professional Student Award, The Ohio State University</p> <ul style="list-style-type: none"> • Only Two Awards Conferred in 2011 at The Ohio State University
2010	<p>Carl Zeiss Vision Fellowship, American Optometric Foundation</p> <ul style="list-style-type: none"> • Awarded \$5,000 and two \$750 travel grants
2002	<p>Student of the Year for Outstanding Student Achievement in Chemistry, University of Wisconsin-Fond du Lac</p>
Honors	
2019	<p>Diplomate, Section on Cornea, Contact Lenses and Refractive Technologies, American Academy of Optometry</p>
2019	<p>Fellow, Scleral Lens Education Society</p>
2019	<p>Center for Teaching and Learning Teaching Certificate (Level 2, Platinum Certificate), University of Alabama at Birmingham</p>
2018	<p>Center for Teaching and Learning Teaching Certificate (Level 1, Gold Certificate), University of Alabama at Birmingham</p>
2017	<p>Summer Institute for Faculty Development, Association of Schools and Colleges of Optometry</p>
2016	<p>Emerging Vision Scientist, Alliance for Eye and Vision Research</p>

2012, 2014, 2016	Summer Invitational Research Institute, American Optometric Association & American Academy of Optometry
2011	Fellow, American Academy of Optometry
2008-2011	Member, Beta Sigma Kappa International Honor Society
2010	House of Delegates Delegate, American Optometric Association
2009	House of Delegates Alternate Delegate, American Optometric Association
2005	Outstanding Senior of the Year Nomination, University of Wisconsin-La Crosse
2004	Seven Rivers Undergraduate Research Symposium: Outstanding Student Presentation, Viterbo University
Travel Grants	
2016	Fellows Doing Research Special Interest Group 2016 Training Retreat, American Academy of Optometry <ul style="list-style-type: none"> • Awarded all-expenses-paid trip to Chicago, IL to plan a scleral contact lens research project
2015	Translational Science 2015 Travel Grant, Center for Clinical & Translational Science <ul style="list-style-type: none"> • Awarded \$2,000 to attend meeting in Washington, DC
2011	Travel Grant to ARVO's Annual Meeting, National Eye Institute <ul style="list-style-type: none"> • Awarded a \$750 travel grant
2010	Robert D. Newcomb Student Travel Fellowship Award for Leadership, American Academy of Optometry <ul style="list-style-type: none"> • Awarded a \$500 travel grant
2010	Travel Fellowship to ARVO's Annual Meeting, American Academy of Optometry <ul style="list-style-type: none"> • Awarded a \$750 travel grant
2009	Travel Fellowship to AAO's Annual Meeting, Vistakon <ul style="list-style-type: none"> • Awarded a \$750 travel grant
2009-2010	Congressional Advocacy Conference Travel Grant, American Optometric Association <ul style="list-style-type: none"> • Awarded two all-expenses-paid trips to Washington, DC to advocate for optometric rights
2009-2010	Inter-Professional Council Travel Grant, The Ohio State University <ul style="list-style-type: none"> • Awarded five times totaling \$1,650 to attend optometric meetings

- 2008-2009 East-West Eye Conference Student Leader Travel Grant, Vistakon
- Awarded two \$250 travel grants
- Scholarships
- 2012-2020 Loan Repayment Program, National Institutes of Health
- Awarded \$249,531.36 with an additional 39% allocated to federal tax payments (\$346,848.59 total)
- 2010 Distinguished Ohio Optometric Foundation Scholarship
- Awarded \$4,000
- 2009 Walman Optical Company Scholarship
- Awarded \$1,800
- 2009 Ohio Optometric Foundation Scholarship
- Awarded \$2,000
- 2008 Epsilon Psi Epsilon Alumni Binocular Indirect Ophthalmoscope Scholarship
- Awarded \$1,000 for optometric equipment
- 2007-2010 The Ohio State University Scholarship in Optometry
- Awarded \$6,000
- 2008 E. F. Wildermuth Foundation Scholarship, The Ohio State University
- Awarded \$8,000
- 2003-2004 Brunswick Foundation Scholarship
- Awarded \$4,000
- 2001 University of Wisconsin-Fond du Lac Foundation Scholarship
- Awarded \$1,000

Professional Affiliations/Organizations

- 2019-Present International Society for Extracellular Vesicles
- 2018-Present Scleral Lens Education Society
- 2017-Present Alabama Optometric Association
- 2011-Present Tear Film & Ocular Surface Society
- 2009-Present Association for Research in Vision and Ophthalmology
- 2008-Present American Academy of Optometry
- 2007-Present American Optometric Association

2007-2016 Ohio Optometric Association

Licensure/Certifications

2016-Present Alabama State Board of Optometry (#T-228-TA-A55)

2011-Present Ohio State Board of Optometry (#6064, #T2979-Therapeutic)

2011-2014 Drug Enforcement Administration Registration (#MP2415912)

References Available Upon Request