

## CURRICULUM VITAE

### **Mina B. Pantcheva, M.D.**

Associate Professor of Ophthalmology  
Department of Ophthalmology  
University of Colorado School of Medicine  
UCHealth Eye Center  
1675 Aurora Court, Mail Stop F731  
Aurora, CO 80045

**Appointments:      720-848-2020**

### **PREDOCTORAL EDUCATION**

1992 - 1998    Medical:      Bulgarian Ministry of Education & Science, Sofia, Bulgaria  
*Summa cum laude*

### **POSTDOCTORAL TRAINING**

1999 - 2003    Fellowship:    Post-doctoral Research Fellow in Glaucoma, Massachusetts Eye  
and Ear Infirmary, Harvard Medical School, Boston, MA  
Subject: Glaucoma: The Role of Apoptosis  
Advisor: Cynthia L. Grosskreutz, M.D., Ph.D.

2003 - 2004    Internship:    Internal Medicine, Roger Williams Medical Center, Boston  
University, Providence, RI

2004 - 2007    Residency:    Ophthalmology, Eye & Ear Institute, University of Pittsburgh,  
Pittsburgh, PA

2008 - 2009    Fellowship:    Glaucoma, Eye & Ear Institute, University of Pittsburgh,  
Pittsburgh, PA

### **ACADEMIC APPOINTMENTS**

2008 - 2008    Clinical Instructor, University of Pittsburgh Medical Center (UPMC), Eye & Ear  
Institute, Pittsburgh, PA

2009 - 2016    Assistant Professor, Department of Ophthalmology, University of Colorado  
School of Medicine, Aurora, CO

2015 -          Research Assistant Professor, Department of Chemical and Biological  
Engineering, Colorado School of Mines, Golden, CO

2016 -          Associate Professor, Department of Ophthalmology, University of Colorado  
School of Medicine, Aurora, CO

## **ADMINISTRATIVE APPOINTMENTS**

### **Department of Ophthalmology, University of Colorado**

- 2009 - Residency Selection Committee
- 2009 - Residency Education Committee
- 2010 - Glaucoma Fellowship Selection Committee
- 2011 - Director, Laboratory for Surgical Advancement
- 2012 - Chair, Quality Assurance Committee

## **SPECIALTY BOARD CERTIFICATION**

- 2009 - American Board of Ophthalmology

## **MEDICAL LICENSES**

- 2003 - 2005 Rhode Island (inactive)
- 2007 - 2010 Pennsylvania (inactive)
- 2009 - Colorado (active)

## **HOSPITAL STAFF MEMBERSHIP**

- 2009 - University of Colorado Hospital, Aurora, CO
- 2009 - Denver Health Medical Center, Denver, CO
- 2009 - Denver Veteran's Affairs Medical Center, Denver, CO
- 2009 - Children's Hospital Colorado, Aurora, CO

## **PROFESSIONAL MEMBERSHIP**

- 2006 - American Academy of Ophthalmology (AAO)
- 2006 - Association for Research in Vision and Ophthalmology (ARVO)
- 2011 - American Glaucoma Society (AGS)
- 2012 - Colorado Society of Eye Physicians and Surgeons (CSEPS)

## **HONORS, AWARDS & RECOGNITION**

- 1992 - 1998 Scholarship for Excellent Scholastic Achievement, Bulgarian Ministry of Education and Science
- 2002 Joseph M. and Eula C. Lawrence Travel Grant, ARVO/AFER/Retina Research Foundation
- 2010 Mentoring for Advancement of Physician-Scientists (MAPS) Award for Young Clinicians, American Glaucoma Society
- 2015 Grant Award for Controlled Delivery of Resveratrol for the Prevention of Post-Strabismus Surgery Fibrosis, Children's Hospital Colorado
- 2015 Pilot Award Program, University of Colorado/Colorado School of Mines
- 2017 Academic Faculty Teaching Award, Department of Ophthalmology, University of Colorado School of Medicine

## **EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS**

2010 - Reviewer, *Advances in Therapy*

## **COMMUNITY SERVICE**

2007 Participant, UPMC Eye Center Mission to provide comprehensive eye exams and surgical care to disadvantaged patients, Olancho, Honduras

2005 - 2008 Participant, UPMC Eye Center Guerrilla Eye Service at Verland Foundation, serving people with intellectual disabilities by providing annual comprehensive ophthalmic examinations, Pittsburgh, PA

2010 Coordinator and Ophthalmologist Team Leader, 8<sup>th</sup> Annual Health Fair, Center for African American Health, Denver, CO

2015 Volunteer cataract surgeon and mentor to senior residents, Denver Health Medical Center, Denver, CO

## **MENTORING ACTIVITIES**

### **Research Mentees**

2012 Valeria C. Baldivieso, MD: Visiting Research Fellow (Bolivia)

2014 Sarah Bernier, MS: Master's Student (Colorado School of Mines)

### **Clinical Fellows**

2011 - 2012 Leonard Seibold, MD (Assistant Professor, University of Colorado)

2012 - 2013 Sabita Ittoop, MD (Private Practice, Washington DC)

2013 - 2014 Jeffrey SooHoo, MD (Assistant Professor, University of Colorado)

2014 - 2015 Kevin Gamett, MD (Private Practice, Reno NV)

2015 - 2016 Jeffrey Kennedy, MD (Private Practice, Seattle WA)

2016 - 2017 Rebecca Epstein, MD (Private Practice, Beaufort SC)

2017 - 2018 Cara Capitena Young, MD (Assistant Professor, CUSOM, Aurora, CO)

2018 - Jordan Stanley, MD

## **RESEARCH INTERESTS**

- Neuroprotection in glaucomatous optic neuropathy
- Trabecular meshwork cell biology
- Wound modulation

## **RESEARCH SUPPORT**

### **Prospective Research Support**

1. **Allergan**, 192024-095, Barcelon (PI): "A Comparison of Bimatoprost SR to Selective Laser Trabeculoplasty in Patients with Open-Angle Glaucoma or Ocular Hypertension", Co-Investigator, 2016-2020.

### **Current Research Support**

1. **Hoffman-La Roche**, BP39863: "A Phase I, Multi-Center, Randomized, Adaptive, Investigator/Patient Masked, Multiple-Ascending Dose, Placebo and Active Comparator-Controlled Parallel Study to Investigate the Safety, Tolerability, Pharmacokinetics, and

- Pharmacodynamics of RO7058584 Following 7 Days of Topical Instillation of Eye Drops in Patients With Primary Open Angle Glaucoma or Ocular Hypertension”, Co-Investigator, 2017-2018.
2. **National Eye Institute (NEI)**, R01 EY022061-04, Nagaraj (PI): “Lens Capsule and Secondary Cataract”, Consultant (5%), 2015-2018.
  3. **Allergan**, 192024-092, Kahook (PI): “The Efficacy and Safety of Bimatoprost SR in Patients with Open-angle Glaucoma or Ocular Hypertension”, Co-Investigator, 2014-2018.
  4. **Glaukos**, GTS100-PAS2, Seibold (PI): “A Prospective, Randomized, Controlled, Parallel Groups, Multicenter Post-Approval Study of the Glaukos iStent Trabecular Micro-Bypass Stent System in Conjunction with Cataract Surgery”, Co-Investigator, 2013-2023.

### **Prior Research Support**

1. **Alcon**, GLT320a, Kahook (PI): “24-hr Intraocular Pressure Control with Brinzolamide 1% / Brimonidine 0.2% Ophthalmic Suspension vs Vehicle”, Co-Investigator, 2016-2017
2. **Children’s Hospital Colorado / Colorado School of Mines** Collaboration Pilot Award, Pantcheva, Krebs (Co-PI): “Controlled Delivery of Resveratrol for the Prevention of Post-Strabismus Surgery Fibrosis”, Co-Principal Investigator, \$15,000, 2015-2016.
3. **Alcon**, UL1TR001082, Kahook (PI): “The Diurnal and Nocturnal Effect of Simbrinza and Timolol on Intraocular Pressure and Ocular Perfusion Pressure”, Co-Investigator, 2014-2015.
4. **Bausch & Lomb**, 770, Seibold (PI): “A Randomized, Multicenter, Double-Masked, Parallel-Group Study Comparing the Safety and Efficacy of BOL-303259-X 0.024% (Latanoprostene Bunod) Ophthalmic Solution With Timolol Maleate Ophthalmic Solution 0.5% in Subjects With Open-Angle Glaucoma or Ocular Hypertension”, Co-Investigator, 2013-2015.
5. **Regeneron**, 12-1526, Kahook (PI): “Use of Intravitreal Aflibercept Injection for Neovascular Glaucoma”, Co-Investigator, 2012-2017.
6. **Sensimed**, 12-1078, Seibold (PI): “Tolerability and Functionality of a Wireless 24 Hour Ocular Telemetry Sensor in African-American Glaucoma Patients”: Co-Investigator, 2012-2015.
7. **Merck & Co**, 12-0209, Kahook (PI): “A Prospective Longitudinal Observational study to assess the development of OSD in treatment-naive glaucoma and OHT patients versus those without elevated IOP (SAHARA)”, Co-Investigator, 2012-2013.
8. **Merck Sharp & Dohme Corp.**, 2517807, Kahook (PI): “An Assessment of the Impact of Motivational Interviewing Via Glaucoma Educator on Glaucoma Treatment Adherence and Persistence”, Co-Investigator, 2011-2013.
9. **Alcon**, C-10-033, Pantcheva (PI): “Three Month Efficacy and Safety Study of a Fixed Combination of Brinzolamide 1%/Brimonidine 0.2% compared to Brinzolamide 1% and Brimonidine 0.2% All Dosed Three Times Daily in Patients with Open-Angle Glaucoma and/or Ocular Hypertension”, Principal Investigator, 2011-2012.

### Other Research Projects (unfunded)

1. **University of Colorado School of Medicine, Department of Ophthalmology**, 16-0683, Pantcheva (PI): “Human Tenon Fibroblasts culture for drug release studies”, Principal Investigator, 2016.
2. **University of Colorado School of Medicine, Department of Ophthalmology**, 15-1972, Seibold (PI): “The Diurnal and Nocturnal Effect of Pilocarpine on Intraocular Pressure and Ocular Perfusion Pressure”, Co-Investigator, 2015-2017.
3. **University of Colorado School of Medicine, Department of Ophthalmology**, 15-1809, Pantcheva (PI): “Assessment of Resident Proficiency in Cataract Surgery”, Principal Investigator, 2015.
4. **University of Colorado School of Medicine, Department of Ophthalmology**, 12-0328, Pantcheva (PI): “Effects and comparison of commonly used regimen of Prednisolone acetate 1% ophthalmic drops on blood glucose levels in non-diabetic and diabetic subjects”, Principal Investigator, 2012-ongoing.
5. **University of Colorado School of Medicine, Department of Ophthalmology**, 11-1197, Pantcheva (PI): “Comparison of retinal blood flow measurements between healthy individuals and patients with newly diagnosed normal tension glaucoma using Canon Laser Blood Flowmeter (CLBF) Model 100”, Principal Investigator, 2011-2014.
6. **University of Colorado, Denver**, 06-1251, Kahook (PI): “A Randomized Prospective Double-Masked Controlled Trial Comparing Ketorolac Tromethamine 0.4% and Prednisolone Acetate 1% in Reducing Post-selective Laser Trabeculoplasty Anterior Chamber Flare and Cells”, Co-Investigator, 2007-2014.

### PUBLICATIONS (Peer-Reviewed)

1. **Pantcheva MB**, Mukai S. Stem cells in ophthalmology. *Int Ophthalmol Clin*. 2001 Fall;41(4):241-54. PubMed PMID: [11698752](#).
2. Hänninen VA, **Pantcheva MB**, Freeman EE, Poulin NR, Grosskreutz CL. Activation of caspase 9 in a rat model of experimental glaucoma. *Curr Eye Res*. 2002 Dec;25(6):389-95. PubMed PMID: [12789547](#).
3. Zacks DN, Hänninen V, **Pantcheva M**, Ezra E, Grosskreutz C, Miller JW. Caspase activation in an experimental model of retinal detachment. *Invest Ophthalmol Vis Sci*. 2003 Mar;44(3):1262-7. PubMed PMID: [12601057](#).
4. Grosskreutz CL, Hänninen VA, **Pantcheva MB**, Huang W, Poulin NR, Dobberfuhr AP. FK506 blocks activation of the intrinsic caspase cascade after optic nerve crush. *Exp Eye Res*. 2005 May;80(5):681-6. PubMed PMID: [15862175](#).
5. Kahook MY, Noecker RJ, **Pantcheva MB**, Schuman JS. Location of glaucoma drainage devices relative to the optic nerve. *Br J Ophthalmol*. 2006 Aug;90(8):1010-3. PubMed PMID: [16613923](#).
6. **Pantcheva MB**, Kahook MY, Schuman JS, Noecker RJ. Comparison of acute structural and histopathological changes in human autopsy eyes after endoscopic cyclophotocoagulation and trans-scleral cyclophotocoagulation. *Br J Ophthalmol*. 2007 Feb;91(2):248-52. PubMed PMID: [16987899](#).

7. **Pantcheva MB**, Kahook MY, Schuman JS, Rubin MW, Noecker RJ. Comparison of acute structural and histopathological changes of the porcine ciliary processes after endoscopic cyclophotocoagulation and transscleral cyclophotocoagulation. *Clin Experiment Ophthalmol.* 2007 Apr;35(3):270-4. PubMed PMID: [17430515](#).
8. **Pantcheva MB**, Wollstein G, Ishikawa H, Noecker RJ, Schuman JS. Optical coherence tomography algorithm failure to detect nerve fibre layer defects: report of two cases. *Br J Ophthalmol.* 2009 Sep;93(9):1141-2, 1185. PubMed PMID: [19704038](#).
9. **Pantcheva MB**, Kahook MY. Ab interno trabeculectomy. *Middle East Afr J Ophthalmol.* 2010 Oct;17(4):287-9. PubMed PMID: [21180426](#).
10. Chang DT, **Pantcheva MB**, Noecker RJ. Corneal thickness and intraocular pressure in edematous corneas before and after Descemet stripping with automated endothelial keratoplasty. *Cornea.* 2010 Oct;29(10):1125-30. PubMed PMID: [20548237](#).
11. **Pantcheva MB**, Seibold LK, Awadallah NS, Kahook MY. Tafluprost: a novel prostaglandin analog for treatment of glaucoma. *Adv Ther.* 2011 Sep;28(9):707-15. PubMed PMID: [21858491](#).
12. SooHoo JR, Seibold LK, **Pantcheva MB**, Kahook MY. Aflibercept for the treatment of neovascular glaucoma. *Clin Experiment Ophthalmol.* 2015 May 28; PubMed PMID: [26016631](#).
13. Marando CM, Seibold LK, SooHoo JR, **Pantcheva MB**, Ramulu PY, Kahook MY. The Utility of Cap Color and Bottle Characteristics for Topical Glaucoma Therapy. *Ophthalmology.* 2015 Jun 12; PubMed PMID: [26077575](#).
14. SooHoo JR, Golas L, Marando CM, Seibold LK, **Pantcheva MB**, Ramulu PY, Kahook MY. Glaucoma Patient Treatment Preferences. *Ophthalmology.* 2016 Mar 3; PubMed PMID: [26948306](#).
15. Nahomi RB, **Pantcheva MB**, Nagaraj RH.  $\alpha$ B-crystallin is essential for the TGF- $\beta$ 2-mediated epithelial to mesenchymal transition of lens epithelial cells. *Biochem J.* 2016 May 15;473(10):1455-69. PubMed PMID: [26987815](#).
16. Roberts SJ, Mulvahill M, SooHoo JR, **Pantcheva MB**, Kahook MY, Seibold LK. Efficacy of combined cataract extraction and endoscopic cyclophotocoagulation for the reduction of intraocular pressure and medication burden. *Int J Ophthalmol.* 2016 May 18;9(5):693-8. PMID: [27275423](#).
17. Seibold LK, Gamett KM, Kennedy JB, Mulvahill MJ, Kroehl ME, SooHoo JR, **Pantcheva MB**, Kahook MY. Outcomes after combined phacoemulsification and trabecular microbypass stent implantation in controlled open-angle glaucoma. *J Cataract Refract Surg.* 2016 Sep;42(9):1332-1338. PMID: [27697252](#).
18. Osmond M, Bernier SM, **Pantcheva MB**, Krebs MD. Collagen and collagen-chondroitin sulfate scaffolds with uniaxially aligned pores for the biomimetic, three dimensional culture of trabecular meshwork cells. *Biotechnol Bioeng.* 2017 Apr;114(4):915-923. doi: 10.1002/bit.26206. Epub 2016 Nov 7. PMID: [27775151](#).
19. Edmiston AM, SooHoo JR, Seibold LK, Kahook MY, Palestine AG, Pantcheva MB. Post-operative Inflammation After Endoscopic Cyclophotocoagulation: Racial Distribution and Effect on Outcomes. *J Glaucoma.* 2018 Jan 19. doi:10.1097/IJG.0000000000000884. [Epub ahead of print] PubMed PMID: [29356715](#).

## OTHER PUBLICATIONS (Non Peer-Reviewed)

1. **Pantcheva MP**, Seibold LK, Kahook MY. Endoscopic Cyclophotocoagulation. *Glaucoma Today*. November 1, 2011.
2. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Girkin CA et al., *J Glaucoma* 2012, 21(3):160-3]. F1000Prime, 07 Mar 2012; DOI: 10.3410/f.13972961.15429064. F1000Prime.com/13972961#eval15429064
3. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Bozkurt E et al., *Am J Ophthalmol* 2011, 152(6):976-981.e2]. F1000Prime, 15 Jun 2012; DOI: 10.3410/f.715297832.792103207. F1000Prime.com/715297832#eval792103207
4. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Glanz K et al., *Arch Ophthalmol* 2012, 130(10):1252-8]. In F1000Prime, 12 Oct 2012; DOI: 10.3410/f.717950698.793462460. F1000Prime.com/717950698#eval793462460
5. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Ford BA et al., *J Glaucoma* 2011]. In F1000Prime, 22 Jan 2013; DOI: 10.3410/f.717970371.793468991. F1000Prime.com/717970371#eval793468991
6. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Kim KN et al., *Ophthalmology* 2013, 120(4):731-5]. In F1000Prime, 13 May 2013; DOI: 10.3410/f.717997059.793475845. F1000Prime.com/717997059#eval793475845
7. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Kocabeyoglu S et al., *Can J Ophthalmol* 2013, 48(2):110-4]. In F1000Prime, 21 Aug 2013; DOI: 10.3410/f.718027381.793481911. F1000Prime.com/718027381#eval793481911
8. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Christakis PG et al., *Ophthalmology* 2013, 120(11):2232-40]. In F1000Prime, 09 Dec 2013; DOI: 10.3410/f.718022668.793487633. F1000Prime.com/718022668#eval793487633
9. **Pantcheva M**, Kahook M. F1000Prime Recommendation of [Holló G et al., *J Glaucoma* 2014, 23(1):e6-e12]. In F1000Prime, 12 Mar 2014; DOI: 10.3410/f.718222414.793491890. F1000Prime.com/718222414#eval793491890
10. **Pantcheva MB**. Microinvasive Glaucoma Surgery—A New Chapter in Glaucoma Management. *US Ophthalmic Review*, 2016;9(1):30–1 DOI: <http://doi.org/10.17925/USOR.2016.09.01.30>

## ABSTRACTS

1. Luukkaa VA, **Pantcheva MB**, Poullin NR, Grosskreutz CL. Meeting Abstract: Effect of FK506 on caspase 3 and 9 after optic nerve crush in the rat. The Society for Neuroscience, San Diego, CA, November 2001.
2. **Pantcheva MB**, Poullin NR, Luukkaa VA, Grosskreutz CL. Meeting Abstract: Death Receptor Complex Formation after Optic Nerve Crush In Rats. *Invest. Ophthalmol. Vis. Sci.* 2002;43(13):4054.
3. Grosskreutz CL, Luukkaa VA, **Pantcheva MB**, Poullin NR. Meeting Abstract: Activation of Caspase 9 in a Rat Model of Experimental Glaucoma. *Invest. Ophthalmol. Vis. Sci.* 2002;43(13):4058.

4. Zacks DN, Hänninen VA, **Pantcheva MB**, Grosskreutz CL, Miller JW. Meeting Abstract: Caspase Activation in an Experimental Model of Retinal Detachment. *Invest. Ophthalmol. Vis. Sci.* 2003;44(13):2951
5. **Pantcheva MB**, Hanninen VA, Poulin NR, Dobberfuhr AP, Grosskreutz CL. Meeting Abstract: Phosphorylation of Akt and Activation of Caspase 9 After Optic Nerve Crush In Rats. *Invest. Ophthalmol. Vis. Sci.* 2003;44(13):3348.
6. Young TA, **Pantcheva MB**, Connolly EJ, Mandelcorn MS, Whiteside CI, Grosskreutz CL, Gragoudas ES, Miller JW. Meeting Abstract: Apoptosis in Acute Photodynamic Therapy of Choroidal Neovascularization in the Rat Model. *Invest. Ophthalmol. Vis. Sci.* 2003;44(13):3932.
7. **Pantcheva MB**, Yu JY, Kahook MY, Lathrop K, Schuman JS, Noecker RJ. Meeting Abstract: The Effect of Probe Placement on Endoscopic Cyclophotocoagulation Laser Energy Transmission. *Invest. Ophthalmol. Vis. Sci.* 2006;47(13):21.
8. Kahook MY, **Pantcheva M**, Schuman JS, Noecker RJ. Poster: Location of Glaucoma Drainage Devices Relative to the Optic Nerve. American Glaucoma Society, March, 2006.
9. **Pantcheva M**, Kahook MY, Schuman JS, Noecker RJ. Poster: A Light and Electron Microscopy Study of Human Ciliary Body Tissue after Endoscopic Cyclophotocoagulation and Transscleral Cyclophotocoagulation. American Glaucoma Society, March, 2006.
10. **Pantcheva M**, Kahook MY, Schuman JS, Noecker RJ. Poster: The effect of laser probe distance on treatment outcomes with endoscopic laser cyclophotocoagulation. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, 2006.
11. Corrales GA, **Pantcheva M**, Kahook MY, Schuman JS, Noecker RJ. Poster: A Descriptive Cross-Sectional Survey Assessing the Prevalence of Complementary and Alternative Medicine Use in Patients Visiting UPMC Eye Center. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, 2007.
12. **Pantcheva MB**, Kahook MY, Herceg MC, Noecker RJ. Poster: One year comparison in outcomes between suture and fibrin glue assisted glaucoma drainage device surgery. American Glaucoma Society, Washington, DC, March 2008.
13. **Pantcheva MB**, Kahook MY, Herceg MC, Camejo L, Schuman JS, Noecker RJ. Poster: A Descriptive Cross-Sectional Survey Assessing the Demographic Variations in the Prevalence of Complementary and Alternative Medicine Use in Patients visiting UPMC Eye Center. Association for Research in Vision and Ophthalmology, Washington DC, March 8, 2008.
14. **Pantcheva MB**, Morgan PV, Kahook, MY, Camejo L, Noecker RJ. Poster: Long term follow up of suture versus fibrin glue-assisted glaucoma drainage device surgery. American Glaucoma Society, San Diego, CA, March 2009.
15. Noecker RJ, Morgan PV, Herceg MC, **Pantcheva MB**, Camejo L. Poster: A comparative analysis of outcomes of Baerveldt glaucoma drainage device implantation alone or in conjunction with phacoemulsification. American Glaucoma Society, San Diego, CA, March 2009.



16. Morgan PV, Herceg MC, **Pantcheva MB**, Camejo, L, Noecker, RJ. Poster: Long-term clinical outcomes of Baerveldt glaucoma implant tube placement in the sulcus versus the anterior chamber. American Glaucoma Society, San Diego, CA, March 2009. [poster]
17. **Pantcheva MB**, Chang DT, Wu EC, Morgan PV, Noecker RJ. Poster: Comparison of conjunctival changes after dosing of Dorzolamide hydrochloride/Timolol maleate or Brimonidine tartrate/Timolol maleate alone or in conjunction with Cyclosporine 0.05%. Association for Research in Vision and Ophthalmology. Fort Lauderdale, FL, May 2009. [poster]
18. Chang DT, **Pantcheva MB**, Noecker RJ. Corneal thickness and intraocular pressure in edematous corneas before and after Descemet's Stripping with Automated Endothelial Keratoplasty. Association for Research in Vision and Ophthalmology. Fort Lauderdale, FL, May 2009. [poster]
19. **Pantcheva MB**, DeKosky ST, Bilonick R, Noecker RJ, Wollstein G, Schuman JS. Poster: Spectral domain OCT prevalence of thin retinal nerve fiber layer in Alzheimer disease. American Academy of Ophthalmology, San Francisco, CA, October 2009
20. Ittoop S, Johnson A, **Pantcheva MB**. Retinal Blood Flow as Measured by the Canon Laser Blood Flowmeter in Normal Controls. 17th Annual Resident, Fellow, Faculty and Alumni Research Day, University of Colorado School of Medicine, Aurora, CO. June 15, 2013.
21. SooHoo JR, **Pantcheva MB**, Kahook MY, Seibold LK. One-Year Results of Combined Phacoemulsification and Endoscopic Cyclophotocoagulation at a Tertiary Care Center. American Glaucoma Society Annual Meeting, Washington D.C., February 27-March 2, 2014. [poster 36]
22. Bernier SM, **Pantcheva MB**, Krebs MD. Uniaxially Aligned Porous Collagen-GAG Scaffolds for *in vitro* Modeling of Human Trabecular Meshwork. American Chemical Society, Denver, CO, March 2015. [poster]
23. Bernier SM, Krebs MD, **Pantcheva MB**. Presentation: 3D Natural Biopolymer Scaffold for *in vitro* Modeling of the Trabecular Meshwork. Association for Research in Vision and Ophthalmology, Denver, CO, May 2015. [podium]
24. Gamett K, Seibold L, Kahook M, **Pantcheva MB**, SooHoo JR. Efficacy of Combined Phacoemulsification and iStent Implantation. American Glaucoma Society Annual Meeting, Coronado, CA, February 26-March 1, 2015. [poster 77]
25. Kennedy JB, SooHoo JR, Seibold LK, **Pantcheva MB**, Kahook MY. Initial Clinical Experience with a Novel Dual Blade Device. 20th Annual Resident, Fellow, Faculty and Alumni Research Day, University of Colorado School of Medicine, Aurora, CO. June 18, 2016.
26. Osmond M, **Pantcheva MB**, Krebs MD. 3D Dynamic Culture of Trabecular Meshwork Cells. Society for Biomaterials Annual Meeting, Minneapolis, MN, April 5-8, 2017.
27. Capitena Young C, Corbett C, Cerda A, SooHoo J, **Pantcheva MB**, Kahook MY, Lynch AM, Seibold L. Omega Fatty Acid Levels In Primary Open Angle Glaucoma. American Glaucoma Society Annual Meeting, Coronado, CA, March 2-5, 2017. [poster 79]
28. Epstein R, SooHoo JR, **Pantcheva MB**, Kahook MY, Seibold L. Optimal Time for Visualization with Minimally Invasive Glaucoma Surgeries: Before or After

- Phacoemulsification? American Glaucoma Society Annual Meeting, Coronado, CA, March 2-5, 2017. [poster 98]
29. Edmiston A, SooHoo JR, Seibold L, Kahook MY, Palestine AG, **Pantcheva MB**. Postoperative Inflammation After Endoscopic Cyclophotocoagulation: Racial Distribution and Effect on Outcomes American Glaucoma Society Annual Meeting, Coronado, CA, March 2-5, 2017. [poster 108]
  30. Fischer NA, Torres JA, Seibold LK, **Pantcheva MB**, Kahook MY, SooHoo JR. A Survey of Patient Perceptions and Preferences for Glaucoma Treatment with Intravitreal Injections. American Glaucoma Society Annual Meeting, Coronado, CA, March 2-5, 2017. [poster 130]
  31. Osmond M, **Pantcheva MB**, Krebs MD. Dynamic Culture of Trabecular Meshwork Cells in 3D Biomimetic Scaffolds. American Institute of Chemical Engineers Annual Meeting, Minneapolis, MN, November 3, 2017. [podium]

#### CHAPTERS (invited)

1. **Pantcheva M**, Petropoulos P. Ferri's Clinical Advisor 2005: Instant Diagnosis and Treatment. Ferri FF, editor. St. Louis: Mosby, Inc; 2005. Behçet's Disease.
2. **Pantcheva M**, Mikolich D. Ferri's Clinical Advisor 2005: Instant Diagnosis and Treatment. Ferri FF, editor. St. Louis: Mosby, Inc; 2005. Cytomegalovirus.
3. **Pantcheva M**, Kahook MY. Essentials of Glaucoma Surgery. 1st ed. Kahook MY, editor. Thorofare, NJ: Slack, Inc; 2013. Chapter 41, Novel Approaches: Trabectome; p.337-342.
4. **Pantcheva MB**, Kahook MY. Chandler and Grant's Glaucoma. 5th ed. Kahook MY, Schuman JS, editors. Thorofare, NJ: Slack, Inc; 2013. Chapter 10, Imaging Devices for Angle Assessment; p.111-116.
5. **Pantcheva MB**, Kahook MY, Epstein DL. Chandler and Grant's Glaucoma. 5th ed. Kahook MY, Schuman JS, editors. Thorofare, NJ: Slack, Inc; 2013. Chapter 25, Angle-Closure Glaucoma: Evaluation and Treatment after Iridotomy; p.271-76.
6. **Pantcheva MB**, Schuman JS, Kahook MY, Epstein DL. Chandler and Grant's Glaucoma. 5th ed. Kahook MY, Schuman JS, editors. Thorofare, NJ: Slack, Inc; 2013. Chapter 37, Glaucoma after Penetrating Keratoplasty; p.347-50.
7. **Pantcheva MB**, Schuman JS. Chandler and Grant's Glaucoma. 5th ed. Kahook MY, Schuman JS, editors. Thorofare, NJ: Slack, Inc; 2013. Chapter 56, Cyclodestruction; p.511-22.
8. **Pantcheva MB**. Chandler and Grant's Glaucoma. 5th ed. Kahook MY, Schuman JS, editors. Thorofare, NJ: Slack, Inc; 2013. Chapter 44, Corticosteroid Glaucoma; p.423-30.
9. **Pantcheva MB**, Seibold LK. MIGS: Advances in Glaucoma Surgery. 1st ed. Kahook MY, editor. Thorofare, NJ: Slack, Inc; 2013. Chapter 8, Ab Interno Trabeculectomy (Trabectome); p.67-76.
10. **Pantcheva MB**, Seibold LK, Kahook MY. Atlas of Glaucoma. 3rd ed. Choplin NT, Traverso CE, editors. Boca Raton, FL: CRC Press; 2014. Chapter 16, Filtration Surgery; p.241-52.

## LECTURES (invited)

1. **Pantcheva MB**, Stem Cells in Ophthalmology. Annual Fellow's Course in Pediatric Ophthalmology, Massachusetts Eye & Ear Infirmary. Boston, MA. May 2000.
2. **Pantcheva MB**, Endoscopic Cyclophotocoagulation. Anterior Segment Update, Department of Ophthalmology, University of Pittsburgh Medical Center, Pittsburgh, PA. September 2008.
3. **Pantcheva MB**, Endoscopic Cyclophotocoagulation. Grand Rounds, Department of Ophthalmology, University of Colorado, Aurora, CO. January 9, 2009.
4. **Pantcheva MB**, Case report: Glaucoma Imaging. Wednesday Morning Case Conference, Department of Ophthalmology, University of Colorado, Aurora, CO. March 17, 2010.
5. **Pantcheva MB**, The Endless Journey: Trabeculectomy Bleb. Grand Rounds, Department of Ophthalmology, University of Colorado, Aurora, CO. May 21, 2010.
6. **Pantcheva MB**, Comparison of Retinal Nerve Fiber Layer Thickness using Time-Domain and Spectral-Domain OCT. Porter Adventist Hospital, Denver, CO. May 27, 2010.
7. **Pantcheva MB**, The role of diabetes mellitus in glaucoma: The effect of ophthalmic steroid use on blood glucose levels. Diabetes Conference, Department of Endocrinology, University of Colorado, Aurora, CO. May 16, 2011.
8. **Pantcheva MB**, Update on Ocular Biomechanics Influence on Intraocular Pressure Determination. 15th Annual Ophthalmology Symposium, University of Colorado School of Medicine, Aurora, CO. October 14, 2011.
9. **Pantcheva MB**, Imaging in Glaucoma: The Present and the Future. Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO) Continuing Education Program, Lakewood, CO. July 28, 2012.
10. **Pantcheva MB**, Blood Flow and Glaucoma. 16th Annual Ophthalmology Symposium, University of Colorado School of Medicine, Aurora, CO. October 12, 2012.
11. **Pantcheva MB**, Selective Laser Trabeculoplasty: Basic Principles and Pearls for Practice. American Academy of Ophthalmology, Instructional Course, Chicago, IL. October, 2014.
12. **Pantcheva MB**, Glaucoma Cases Potpourri. 19th Annual Ophthalmology Symposium, University of Colorado School of Medicine, Aurora, CO. September 19, 2015.
13. **Pantcheva MB**, Selective Laser Trabeculoplasty: Basic Principles and Pearls for Practice. American Academy of Ophthalmology, Instructional Course, Las Vegas, NV. November, 2015.
14. **Pantcheva MB**, Bioengineering in the Eye. Introduction in Bioengineering course, Colorado School of Mines, Golden, CO. November, 2015.
15. **Pantcheva MB**, Glaucoma Case Discussions. 20th Annual Ophthalmology Symposium, University of Colorado School of Medicine, Aurora, CO. September 24, 2016.
16. **Pantcheva MB**, Selective Laser Trabeculoplasty: Current Perspectives. 21st Annual Ophthalmology Symposium, University of Colorado School of Medicine, Aurora, CO. September 16, 2017.

17. **Pantcheva MB**, Selective Laser Trabeculoplasty: Basic Principles and Pearls for Practice. American Academy of Ophthalmology, Instructional Course, New Orleans, LA. November, 2017.

## **CLASSROOM INSTRUCTIONAL ACTIVITIES, DIDACTIC TEACHING**

### **Department of Ophthalmology, University of Colorado School of Medicine**

#### **Basic and Clinical Science Courses (BSCS): Residents**

1. Angle Closure Glaucoma, 2012
2. Blood Flow in Glaucoma, 2010
3. Glaucoma BSCS “flipped classroom course” 2017, 2018
4. Glaucoma Jeopardy, 2012
5. Glaucoma Landmark Studies, 2013, 2016
6. Glaucoma Review, 2013
7. Glaucoma Surgical Review, 2013
8. Glaucoma: Optic Nerve Evaluation, 2012
9. Glaucoma: Visual Fields, 2012, 2015
10. Introduction to Glaucoma, 2009
11. Ophthalmology Knowledge Assessment Program (OKAP) Review, 2009, 2013
12. Special OKAP Review: Ocular Perfusion Pressure, 2009
13. Surgical Therapy for Glaucoma, 2009

#### **Laboratory for Surgical Advancement: Resident, Fellow and Faculty Wet Lab**

1. Ahmed glaucoma valve, 2014, 2015
2. Alcon phaco lab, 2013, 2015, 2016, 2017, 2018
3. Abbott Medical Optics (AMO) phaco lab, 2011, 2012, 2015
4. Baerveldt shunt, 2011, 2013
5. Bausch+Lomb phaco lab, 2017
6. Ex-PRESS glaucoma filtration device lab, 2011, 2016, 2017, 2018
7. Johnson&Johnson phaco lab, 2017
8. Minimally invasive glaucoma surgery (MIGS) lab (KDB, Cypass, iStent), 2017
9. Surgical wet lab, 2012, 2014, 2015, 2016, 2017, 2018

#### **Journal Club: Faculty, Fellows, Residents**

1. Glaucoma Journal Club, 2009, 2011, 2015, 2016, 2017

#### **Glaucoma Conference: Faculty, Fellows, Residents**

1. Glaucoma Cases and Review, 2014, 2015, 2016, 2017