

## CURRICULUM VITAE

**Full Name:** Tarkan MUMCUOĞLU

**Date of Birth:** 1967

**Place of Birth:** Karşıyaka/İZMİR

**Foreign language:** English, German

### EDUCATIONAL STATUS

1985-1991: Gülhane Military Medical Academy and Military School of Medicine

1994-1997: Resident, Ophthalmology Department, GATA School of Medicine

2005-2006: Glaucoma Fellow, University of Pittsburgh, Department of ) Ophthalmology and Visual Science, Pittsburgh, U.S.A.

### JOB EXPERIENCE

**1994-1997:** Resident, Ophthalmology Department, GATA School of Medicine

1997-2000: Physician, Ophthalmology Clinic, Tatvan Military Hospital

2000-2003: Physician, Ophthalmology Clinic, Manisa Military Hospital

2003-2010: Assistant Professor, Ophthalmology Department, GATA School of Medicine

2005-2006: Glaucoma Fellow, University of Pittsburgh, Department of ) Ophthalmology and Visual Science, Pittsburgh, U.S.A.

2010-2019: Associate Professor, Ophthalmology Department, GATA School of Medicine

2019-2021: Professor, Ophthalmology Department, School of Medicine, TOBB ETÜ Hospital

### SCIENTIFIC ORGANIZATION MEMBERSHIPS

Turkish Ophthalmological Association

Active Member, TOD, Glaucoma Unit

- American Academy of Ophthalmology
- Association for Research in Vision and Ophthalmology

### **RESIDENCY DISSERTATION STUDY**

Comparing rigid and foldable intraocular lenses in patients with cataract who are undergone surgery with phacoemulsification technique

### **FIELDS OF RESEARCH - INTEREST**

- Glaucoma: Follow-up, Medical and Surgical Treatment
- Cataract Surgery and Treatment of Complications of Cataract Surgery
- Refractive surgery
- Ophthalmological Imaging
- Pediatric Ophthalmological Follow-up and Strabismus
- Eye traumas

### **SCIENTIFIC PUBLICATIONS:**

57 articles published in international peer-review journals.

55 article(s) published in national peer-review journals.

Author of chapters in books written in foreign language (2)

Editor of books written in native language (1)

Author of chapter (native language); translation of 15 chapters, author of 1 chapter

### **PROFESSIONAL COURSES**

- Basic Epidemiology Course, 2010
- Basic Statistics Course, 2011
- Basic Cell Culture and Stem Cell Course, 2011
- Animal Use in Scientific Research Course, 2011

## PROFESSIONAL AWARDS AND DEGREES

Second Prize, Best Investigation Contest by Turkish Ophthalmological Journal, “Comparing Efficiency of Subconjunctival Bevacizumab and Pegaptanib Sodium in and Experimental Corneal Neovascularization Model”.

Durukan, A.H. C. Evereklioglu, V.Hurmeric, H. Kerimog u, C. Erdumian, M Z Bayraktar ve Mumcuoglu T, “Ingestion of IH636 Grape Seed Proanthocyanidin Extract Prevents Selenite-induced Oxidative Stress in Experimental Cataract”, J Cataract Refract Surg, 32, 1041-1045 (2006). 2006-2007 Academic Year, GATA Surgical Sciences Research Award, 1<sup>st</sup> Prize

## PAPERS AND SCIENTIFIC ACTIVITIES

### Articles Published in International Journals:

1. Yılmaz, M.I. A. Sönmez, S. Kilic, T. Çelik, N. Bingöl, M. Pinar, **Mumcuoglu T** ve M. Ozata, “The association of plasma adiponectin levels with hypertensive retinopathy”, Eur J Endocrinol, 152, 233-240 (2005).
2. Durukan, A.H. C. Evereklioglu, V. Hurmeric, H. Kerimog u, C. Erdumian, M.Z. Bayraktar ve **Mumcuoglu T**, “Ingestion of IH636 Grape Seed Proanthocyanidin Extract Prevents Selenite-Induced Oxidative Stress in Experimental Cataract”, J Cataract Refract Surg, 32, 1041-1045 (2006).
3. Gundogan, F. A.H. Durukan, **Mumcuoglu T**, G. Sobaci ve M.Z. Bayraktar, “Acute Effects of Cigarette Smoking on Pattern Electroretinogram”, Doc Ophthalmol, **113**, 115-121 (2006).
4. **Mumcuoglu, T.** G. Wollstein, M. Wojtkowski, L. Kagemann, H. Ishikawa, M.L. Gabriele, V. Srinivasan, J.G. Fujimoto, J.S. Duker ve J.S. Schuman, “Improved visualization of glaucomatous retinal damage using high-speed ultrahigh-resolution optical coherence tomography”, Ophthalmology, 115, 782-789 (2008).
5. Manassakorn, A. H. Ishikawa, J.S. Kim, G. Wollstein, R.A. Bilonick, L. Kagemann, M.L. Gabriele, K.R. Sung, **Mumcuoglu T**, J.S. Duker, J.G. Fujimoto ve J.S. Schuman, “Comparison of optic disc margin identified by color disc photography and high-speed ultrahigh-resolution optical coherence tomography”, Arch Ophthalmol, 126, 58-64 (2008).

6. Hurmeric, V. **Mumcuoglu T**, C. Erdurman, B. Kurt, 0. Dagli ve A.H. Durukan, "Effect of subconjunctival bevacizumab (Avastin) on experimental corneal neovascularization in guinea pigs", *Comea*, 27, 357-362 (2008).
7. Kagemann, L. **Mumcuoglu T**, G. Wollstein, R. Bilonick, H. Ishikawa, K.A. Townsend, M. Gabriele, J.G. Fujimoto ve J.S. Schuman, "Sources of longitudinal variability in optical coherence tomography nerve-fibre layer measurements", *Br J Ophthalmol*, 92, 806-809 (2008).
8. Gundogan, F.C. Z. Isilak, C. Erdurman, **Mumcuoglu T**, A.H. Durukan ve M.Z. Bayraktar, "Multifocal electroretinogram in mild to moderate essential hypertension", *Clin Exp Hypertens*, 30, 375-384 (2008).
9. **Mumcuoglu, T.** K.A. Townsend, G. Wollstein, H. Ishikawa, R.A. Bilonick, K.R. Sung, L. Kagemann, J.S. Schuman ve Advanced Imaging in Glaucoma Study Group, "Assessing the relationship between Central corneal thickness and retinal nerve fiber layer thickness in healthy subjects", *Am J Ophthalmol*, 146, 561-566 (2008).
10. Mutlu, F.M. H.I. Altinsoy, **Mumcuoglu T**, H. Kerimoglu, S. Kiliç, M. Kul, S.U. Sarici ve F. Alpay, "Screening for retinopathy of prematurity in a tertiary care newborn unit in Turkey: frequency, outcomes, and risk factor analysis", *J Pediatr Ophthalmol Strabismus*, 45,291-298 (2008).
11. Bayer, A. U. Erdem, **Mumcuoglu T** ve M. Akyol, "Two-site phacotrabeculectomy versus bimanual microincision cataract surgery combined with trabeculectomy", *Eur J Ophthalmol*, 19, 46-54 (2009).
12. **Mumcuoglu, T.** A.H. Durukan, C. Erdurman, V. Hurmeric ve S. Karagül, "Outcomes of Nd:YAG Laser Treatment for Valsalva Retinopathy Due to Intense Military Exercise", *Ophthalmic Surg Lasers Imaging*, 40, 19-24 (2009).
13. Şahin A, Bayer A, Özge G, **Mumcuoglu T**: Corneal biomechanical changes in diabetes mellitus and their influence on intraocular pressure measurements. *Invest Ophthalmol Vis Sci*. 50, 4597-4604 2009.
14. Ceyhan D, Mumcuoglu T, Mutlu FM, Altinsoy H I: Comparison of TNO and titmus stereoacuity tests in healthy children. *Balkan Military Medical Review*. 12: 143-146,2009.
15. Erdurman FC, Durukan AH, **Mumcuoglu T**, Hürmeriç V: Intravitreal bevacizumab treatment of macular\* edema due to optic disc vasculitis. *Ocul Immunol Inflamm*. 17:56- 58, 2009.
16. Bayer A, **Mumcuoglu T**, Özge G, Uzar AI: An Unusual Case of Glaucoma: Traumatic Glaucoma Probably Caused by Shock Waves. *J of Trauma*. 68: 64-66, 2010.

17. **Mumcuoglu T**, Durukan AH, Erdurman C, Hurmeric V, Gundogan FC: Functional and **j** Structural Analysis of Partial Optic Nerve Avulsion Due To Blunt Trauma: Case Report. *J Indian J Ophthalmol* 58:524-526, 2010,
18. Karaca U, Durukan HA, **Mumcuoglu T**, Erdurman C, Hurmeric V. An unusual \ complication of blunt ocular trauma: A horseshoe-shaped macular\* tear with spontaneous | closure. *Indian J Ophthalmol*. 2014; 62(4): 501-503.
19. Gokce G, Ören NC, Ceylan OM, **Mumcuoglu T**, Hurmeric V. Scattered depressions with **j** temporal preponderance in visual field test coexisting with optic disc temporal atrophy in | cerebral arteriovenous malformation *Clinical Ophthalmology* 7: 2031-5; 2013
20. Erdurman CF, Ceylan MO, Acikel CH, Durukan HA, **Mumcuoglu T**: Outcomes of | vitreoretinal surgery in patients with closed-globe injury. *Eur J Ophthalmol*. 21(3): 296- **j** 302 2011
21. Ceylan OM, Türk A, Erdurman C, **Mumcuoglu T**, Erdem U, Gokce G, Dagli S Comparison of Oculus Pentacam and Stratus Optical Coherence Tomography for Measurement of Central Corneal Thickness. *Cornea*. 30: 670-674, 2011.
22. Ceylan OM, Can Demirdöğen B, **Mumcuoglu T**, Aykut O. Evaluation of Essential and Toxic Trace Elements in Pseudoexfoliation Syndrome and Pseudoexfoliation Glaucoma. *Biol Trace Elem Res*. 2013; 153(1-3): 28-34.
23. Ozgonul C, **Mumcuoglu T**, Gunal A. The Effect of Bevacizumab on Wound Healing Modulation in an Experimental Trabeculectomy Model. *Curr Eye Res*. 2014; 39(5): 451- 459.
24. Demirdöğen BC, Ceylan OM, Işikoğlu S, **Mumcuoglu T**, Erel O. Evaluation of oxidative stress and paraoxonase phenotypes in pseudoexfoliation syndrome and pseudoexfoliation glaucoma. *Clin Lab*. 2014;60(1):79-86.
25. **Mumcuoglu T**, Özge G, Soykut B, Erdem O, Gunal A, Acikel C. An Animal Model (Guinea Pig) of Ocular Siderosis: Histopathology, Pharmacology, and Electrophysiology. *Current Eye Research*, 2015; 40(3): 314-320,
26. Gokce G, Hurmeric V, **Mumcuoglu T**, Özge G, Başaran Y, Ünal HU, Bolu E, Mutlu FM. Effects of androgen replacement therapy on cornea and tear function in men with idiopathic hypogonadotropic hypogonadism. *Postgrad Med*. 2015;127(4):376-380.
27. Gokce G, Özge G, Mumcuoglu T, Durukan AH. Comment on Eliasdottir et al. Venous oxygen saturation is reduced and variable in Central retinal vein occlusion, *Graefes Arch Clin Exp Ophthalmol* 253 (8): 1407, 2015

28. Ozgonul C, Sertoglu E, Mumcuoglu T. Determination of Visual Impairment Associated with Alcohol Consumption. *Ophthalmic Epidemiology* ;22(2): 142-143, 2015
29. Ozgonul C, Gokce G, Mumcuoglu T, Ayyildiz O. The use of 30° test in nontrauma patients suspected of elevated intracranial pressure. *Am J Emerg Med.* 2015; 33(4): 595.
30. Gokce G, Özge G, Mumcuoglu T, Kucukevcilioglu M, Ayyildiz O, Ozgonul C. Comparison of Anchored Conjunctival Rotation Flap and Conjunctival Autograft Techniques İn Pterygium Surgery. *Cornea.* 2015 34(5): e13.
31. Gokce G, Durukan AH, Özge G, Mumcuoglu T, Koylu T, Ozgonul C: Comment on Bevacizumab Treatment for Acute Branch Retinal Vein Occlusion Accompanied by Subretinal Hemorrhage. *CUIT Eye Res.* 41(4); 574-5: 2016.
32. Ozgonul C, Sertoglu E, Özge G, Kucukevcilioglu M, Mumcuoglu T: Appropriate evaluation of ocular parameters in coronary artery bypass grafting surgery patients. *Perfusion.* 2015,31 (1); 89-90.
33. Özge G, Ayyildiz O, Ozgonul C, Kucukevcilioglu M, Mumcuoglu T. Comment on "Extraction of Iron from the Rabbit Anterior Chamber with Reverse Iontophoresis". *J Ophthalmol.* 2015;2015:212095. doi: 10.1155/2015/212095.
34. Özge G, Ayyildiz O, Kucukevcilioglu M, Mumcuoglu T: Comparison of intracameral dexamethasone and intracameral triamcinolone acetonide injection at the end of phacoemulsification surgery. *Indian J Ophthalmol.* 2015 Mar;63(3):287
35. Ozgonul C, Sertoglu E, Mumcuoglu T, Erdurman FC. Proper Evaluation Of Factors Affecting Oxidative Status. *Current Eye Research Curr Eye Res.* 2016 Aug;41(8):1 127- 1128 Epub
36. Özge G, Gundogan FC, Mumcuoğlu T. Comment on "The Success of Cataract Surgery and the Preoperative Measurement of Retinal Function by Electrophysiological Techniques" \ *Journal of Ophthalmology* Volume 2015, Article ID 139306, 1, 2015
37. Özge G, Gundogan FC, Mumcuoğlu T. Comment on "The Success of Cataract Surgery and the Preoperative Measurement of Retinal Function by Electrophysiological Techniques". *Journal of Ophthalmology* Volume 2015, Article ID 139306, 1, 2015
38. Özge G, Ayyildiz O, Mumcuoglu T. Comment on: Peripapillary RNFL thickness in nonexudative versus chronically treated exudative age-related **macular degeneratiön** *Can J Ophthalmol.* **51(1):50.2016**
39. Ozgonul C, Sertoglu E, Mumcuoglu T, Özge G, Gokce G. Prediction of Pseudoexfoliation Syndrome and Pseudoexfoliation Glaucoma by Using Neutrophil to Lymphocyte Ratio and Platelet to Lymphocyte Ratio. *Ocul Immunol Inflamm.* 2016; 24(6): 665-670.

40. Ozgonul C, Sertoglu E, **Mumcu ođlu T**, Kucukevcilioglu M. Neutrophil-to-Lymphocyte Ratio and Platelet-to-Lymphocyte Ratio as Novel Biomarkers of Primary Open-Angle Glaucoma. *J Glaucoma*. 25(10): e815-e820, 2016.
41. Özge G, Dođan D, Koylu MT, Ayyildiz O, Akincioglu D, **Mumcuoglu T**, Mutlu FM. Retina Nerve Fiber Layer and Choroidal Thickness Changes in Obstructive Sleep Apnea Syndrome. *PostgradMed*. 128(3): 317-322 2016
42. Özge G, Koylu MT, **Mumcuoglu T**, Gundogan FC, Ozgonul C, Ayyildiz O, Kucukevcilioglu M. Evaluation of Retinal Nerve Fiber Layer Thickness and Choroidal Thickness in Pseudoexfoliative Glaucoma and Pseudoexfoliative Syndrome. *Postgrad Med*. 128 (4): 444-8 2016.
43. Ayyildiz O, Kucukevcilioglu M, Özge G, Koylu MT, Özgönül C, Gökçe G, **Mumcuoglu T**, Durukan AH, Mutlu FM. Comparison of Peripapillary Choroidal Thickness Measurements via Spectral Domain Optical Coherence Tomography with and without Enhanced Depth Imaging. *Postgrad Med*. 128 (4): 439-43 2016
44. Ayyildiz O, Özge G, Kucukevcilioglu M, Ozgonul C, **Mumcuoglu T**, Durukan AH, Mutlu FM. Is there a relationship between outer retinal destruction and choroidal changes in cone dystrophy? *Arq Bras Oftalmol*. 2016 Sep-Oct;79(5):315-318.
45. Iyigun E, Tastan S, Ayhan H, Coşkun H, Köse G, Mumcuoglu T, Life Experiences of Patients With Glaucoma: A Phenomenological Study. *J Nurs Res*. 25(5);336-343, 2017.
46. Kucukevcilioglu M, Ayyildiz O, Aykas S, Gokce G, Koylu MT, Ozgonul C, Ozge G, **Mumcuoglu T**, Yumuşak E. Retinal Nerve Fiber Layer and Peripapillary Choroidal Thicknesses in Non-Glaucomatous Unilateral Optic Atrophy Compared with Unilateral Advanced Pseudoexfoliative Glaucoma. *Curr Eye Res*. 42(2): 302-306; 2017
47. Ozgonul C, Sertoglu E, Ayyildiz O, **Mumcuoglu T**, Kucukevcilioglu M, Gokce G, Durukan AH. Novel biomarkers for patients with idiopathic acute anterior uveitis: neutrophil to lymphocyte ratio and platelet to lymphocyte ratio. *Int J Ophthalmol*. 2017 18;10(2):262-266
48. Demirdögen B, Koçan Akçin C, Özge G, **Mumcuoglu T**. Evaluation of tear and aqueous humor level, and genetic variants of connective tissue growth factor as biomarkers for early detection of pseudoexfoliation syndrome/glaucoma. *Exp Eye Res*. 2019 Dec;189:107837. doi: 10.1016/j.exer.2019.107837. Epub 2019 Oct 15.

- 49.** Demirdöğen B, Demirkaya-Budak S, Özge G, **Mumcuoğlu T.** Evaluation of Tear Fluid and Aqueous Humour\* Concentration of Clusterin as Biomarkers for Early Diagnosis of Pseudoexfoliation Syndrome and Pseudoexfoliative Glaucoma. *Curr Eye Res.* 2020 Jul;45(7):805-813
- 50.** Karaca U, Özge G, **Mumcuoğlu T,** Usta G. No Relationship Between Visual Field Damage And Choroidal Thickness In Eyes With Primary Open Angle Glaucoma. *Ophthalmic Research.* 2020;63(5):491-496
- 51.** Karaca U, Dagli O, Özge G, Mumcuoğlu T, Bayer A. Comparison of structural and functional tests in primary open angle glaucoma. *Indian Journal of Ophthalmology* 2020,68(5), 805-811
- 52.** Ozulken, K, Ilhan, C, Yüksel, E, Mumcuoğlu, T. Preliminary effects of treating the half of high latent hyperopia on refractive and visual results of femtosecond laser-assisted in situ keratomileusis in subjects with hyperopia. *International Ophthalmology* 2020 40, Issue 9, 1 September 2020, Pages 2361-2369
- 53.** Güven, S, Koylu, M.T, Mumcuoğlu, T. Adherence to glaucoma medication, illness perceptions, and beliefs about glaucoma: Attitudinal perspectives among Turkish population. *European J Ophthalmology* 2020
- 54.** Ozulken, K, Aksoy Aydemir, G, Tekin, K, Mumcuoğlu, T. Correlation of Non-invasive Tear Break-Up Time with Tear Osmolarity and Other Invasive Tear Function Tests. *Seminars in Ophthalmology* 35, 1,2020, 78-85
- 55.** Tekeli O, Elgin U, Takmaz T, Ekşioğlu U, Baş Z, Yarangümeli A, Karakurt A, Kemer Ö, Mumcuoğlu T, Aktaş Z, Akman A, Bayer A. Characteristics of uveitic glaucoma in Turkish patients *Eur J Ophthalmol.* 2020 Aug 17; 1120672120950932. doi: 10.1177/1120672120950932. Online ahead of print.
- 56.** Kemal Ozulken, Haşan Kiziltoprak, Erdem Yüksel, Tarkan Mumcuoğlu Comparative Evaluation of Diffractive Trifocal and New Refractive/Extended Depth of Focus Intraocular Lenses for Refractive Lens Exchange *Curent Eye Research* 2020
- 57.** Gur\* Güngör S, Akman A, Bayer A, Elgin U, Tekeli O, Takmaz T, et al. The characteristics of pseudoexfoliation glaucoma in Ankara, the Capital of Turkey. *Eur Eye Res* 2021;1:6-12