



## Priv.-Doz. Dr. med. Andrey Zhivov

Facharzt für Augenheilkunde

### Ausbildung und Werdegang

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Seit 2018	Chefarzt OSG Augenklinik Schweinfurt Gerolzhofen
Seit 2016	Ärztlicher Leiter OSG Augenzentrum Bamberg
2011-2015	Oberarzt Universitäts-Augenklinik Rostock
2006-2014	Habilitation Experimentelle Arbeiten zum Thema: Morphological Aspects of Corneal Subbasal Nerve Plexus: Clinical Assessment of Degeneration and Regeneration
2009-2011	Facharzt Universitäts-Augenklinik Rostock
2002-2006	Promotion Experimentelle Arbeiten zum Thema: In vivo confocal microscopic evaluation of Langerhans cell density and distribution in human corneal epithelium
2004-2009	Assistenzarzt Universitäts-Augenklinik Rostock
2002-2004	Doktorand Universitäts-Augenklinik Rostock
2001-2002	Assistenzarzt Städtische Augenklinik Kirow
2000-2001	Studium der Humanmedizin Staatlich Medizinische Akademie Kirow (RU)

## Mitgliedschaften

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### Wissenschaftliche Preise

1. Sicca-Forschungspreis 2007 des Ressorts Trockenes Auge im Berufsverband der Augenärzte Deutschlands, Deutsche Ophthalmologische Gesellschaft
2. Meyer-Schwickerath Preis 2010, Deutsche Diabetische Gesellschaft

## Publikationen

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1. Zhivov A, Stave J, Vollmar B, Guthoff R. In vivo confocal microscopic evaluation of Langerhans cell density and distribution in the normal human corneal epithelium. *Graefes Arch Clin Exp Ophthalmol*. 2005 Oct;243(10):1056-61.
2. Zhivov A, Stachs O, Kraak R, Stave J, Guthoff RF. In vivo confocal microscopy of the ocular surface. *Ocul Surf*. 2006 Apr;4(2):81-93. Review.
3. Zhivov A, Stave J, Vollmar B, Guthoff R. In vivo confocal microscopic evaluation of Langerhans cell density and distribution in epithelium of healthy volunteers and contact lens wearers. *Cornea*, 2007 Jan;26(1):47-54.
4. Zhivov A, Stachs O, Kraak R, Guthoff R. [Cellular laser microscopy of corneal ulcer and infiltrate] *Klin Monbl Augenheilkd*. 2008 Jan;225(1):86-90.
5. Zhivov A, Beck R, Guthoff RF. Corneal and conjunctival findings after mitomycin C application in pterygium surgery: an in-vivo confocal microscopy study. *Acta Ophthalmol*. 2009 Mar;87(2):166-72.
6. Zhivov A, Stachs O, Stave J, Guthoff RF. In vivo three-dimensional confocal laser scanning microscopy of corneal surface and epithelium. *Br J Ophthalmol*. 2009 May;93(5):667-72.
7. Zhivov A, Guthoff R, Stachs O. [On-line mapping of corneal structures with in vivo laser scanning microscopy]. *Klin Monbl Augenheilkd*. 2009 Dec;226(12):980-3
8. Zhivov A, Kraak R, Bergter H, Kundt G, Beck R, Guthoff R. Influence of benzalkonium chloride on Langerhans cells in corneal epithelium and development of dry eye in healthy volunteers. *Curr Eye Res*. 2010 Aug;35(8):762-9.
9. Zhivov A, Blum M, Guthoff R, Stachs O. Real-time mapping of the subepithelial nerve plexus by in vivo confocal laser scanning microscopy *Br J Ophthalmol*. 2010 Sep;94(9):1133-5.
10. Zhivov A, Stachs O, Guthoff R. In vivo confocal microscopy of the ocular surface: from bench to bedside and back again. *Br J Ophthalmol*. 2010 Dec;94(12):1557-8.
11. Zhivov A, Stachs O. Re: „Increased Langerhan cell density and corneal nerve damage in diabetic patients: Role of immune mechanisms in human diabetic neuropathy“ by Tavakoli et al. *Cont Lens Anterior Eye*. 2011 Apr;34(2):98.
12. Allgeier S, Zhivov A (equally contribution), Eberle F, Koehler B, Maier S, Bretthauer G, Guthoff RF, Stachs O. Image reconstruction of the subbasal nerve plexus with in vivo confocal microscopy. *Invest Ophthalmol Vis Sci*. 2011 Mar 29. [Epub ahead of print].
13. Jacobi C, Zhivov A (equally contribution), Korbmacher J, Falke K, Guthoff R, Schlötzer-Schrehardt U, Cursiefen C, Kruse FE. Evidence of Endothelial Cell Migration After Descemet Membrane Endothelial Keratoplasty. *Am J Ophthalmol*. 2011 Jul 2. [Epub ahead of print]
14. Zhivov A, Winter K, Peschel S, Guthoff RF, Stachs O, Harder V, Schober HC, Koehler B. [Quantitative analysis of corneal subbasal nerve plexus with in vivo confocal laser scanning microscopy]. *Klin Monbl Augenheilkd*. 2011 Dec;228(12):1067-72
15. Zhivov A, Winter K, Hovakimyan M, Peschel S, Harder V, Schober HC, Kundt G, Baltrusch, Guthoff RF, Stachs O. Imaging and quantification of subbasal nerve plexus in healthy volunteers and diabetic patients with or without retinopathy. *PLoS One*. 2013;8(1):e52157.
16. Zhivov A, Winter K, Peschel S, Stachs O, Wree A, Hildebrandt G, Guthoff RF. Changes in the micromorphology of the corneal subbasal nerve plexus in patients after plesiobrachytherapy. *Radiat Oncol*. 2013 Jun 7;8:136.

17. Zhivov A, Peschel S, Schober HC, Stachs O, Baltrusch S, Bambi MT, Kilangalanga J, Winter K, Kundt G, Guthoff RF. Diabetic foot syndrome and corneal subbasal nerve plexus changes in congolese patients with type 2 diabetes. *PLoS One*. 2015 Mar 26;10(3):e0119842.
18. Bochert R, Zhivov A, Kraak R, Stave J, Guthoff RF. Contribution to comprehension of image formation in confocal microscopy of cornea with Rostock cornea module. *Br J Ophthalmol*. 2005 Oct;89(10):1351-5.
19. Stachs O, Zhivov A, Kraak R, Stave J, Guthoff R. In vivo three-dimensional confocal laser scanning microscopy of the epithelial nerve structure in the human cornea. *Graefes Arch Clin Exp Ophthalmol*. 2007 Apr;245(4):569-75
20. Erdelyi B, Kraak R, Zhivov A, Guthoff R, Nemeth J. In vivo confocal laser scanning microscopy of the cornea in dry eye. *Graefes Arch Clin Exp Ophthalmol*. 2007 Jan;245(1):39-44.
21. Stachs O, Knappe S, Zhivov A, Kraak R, Stave J, Guthoff RF. [Three-dimensional confocal laser scanning microscopy of the corneal nerve structure] *Klin Monatsbl Augenheilkd*. 2006 Jul;223(7):583-8.
22. Guthoff RF, Zhivov A, Stachs O. In vivo confocal microscopy, an inner vision of the cornea - a major review. *Clin Experiment Ophthalmol*. 2009 Jan;37(1):100-17.
23. Falke K, Büttner A, Schittkowski M, Stachs O, Kraak R, Zhivov A, Rolfs A, Guthoff R. The microstructure of cornea verticillata in Fabry disease and amiodarone-induced keratopathy: a confocal laser-scanning microscopy study. *Graefes Arch Clin Exp Ophthalmol*. 2009 Apr;247(4):523-34.
24. Stachs O, Zhivov A, Kraak R, Hovakimyan M, Wree A, Guthoff R. Structural-functional correlations of corneal innervation after LASIK and penetrating keratoplasty. *J Refract Surg*. 2010 Mar;26(3):159-67
25. Hovakimyan M, Guthoff R, Knappe S, Zhivov A, Wree A, Krüger A, Heisterkamp A, Stachs O. Short-term corneal response to cross-linking in rabbit eyes assessed by in vivo confocal laser scanning microscopy and histology. *Cornea*. 2011 Feb;30(2):196-203.
26. Knappe S, Stachs O, Zhivov A, Hovakimyan M, Guthoff R. Results of confocal microscopy examinations after collagen cross-linking with riboflavin and UVA light in patients with progressive keratoconus. *Ophthalmologica*. 2011;225(2):95-104
27. Knop E, Knop N, Zhivov A, Kraak R, Korb DR, Blackie C, Greiner JV, Guthoff R. The lid wiper and muco-cutaneous junction anatomy of the human eyelid margins: an in vivo confocal and histological study. *J Anat*. 2011 Apr;218(4):449-61
28. Falke K, Zhivov A, Zimpfer A, Stachs O, Guthoff RF. [Diagnosis of Conjunctival Neoplastic Lesions by Confocal in-vivo Microscopy.] *Klin Monbl Augenheilkd*. 2012 Mar 2.
29. Köhler B, Allgeier S, Eberle F, Guthoff R, Maier S, Stachs O, Zhivov A, Ziegler D, Brett-hauer G. [Image reconstruction of the corneal subbasal nerve plexus with extended field of view from focus image stacks of a confocal laser scanning microscope]. *Klin Monbl Augenheilkd*. 2011 Dec;228(12):1060-6.
30. Avgitidou G, Zhivov A, Heindl LM, Cursiefen C. [Pseudotumor of the cornea in childhood]. *Ophthalmologe*. 2014 Nov;111(11):1077-9
31. Ziegler D, Papanas N, Zhivov A, Allgeier S, Winter K, Ziegler I, Brüggemann J, Strom A, Peschel S, Köhler B, Stachs O, Guthoff RF, Roden M; German Diabetes Study (GDS) Group. Early detection of nerve fiber loss by corneal confocal microscopy and skin biopsy in recently diagnosed type 2 diabetes. *Diabetes*. 2014 Jul;63(7):2454-63.
32. Villani E, Baudouin C, Efron N, Hamrah P, Kojima T, Patel SV, Pflugfelder SC, Zhivov A, Dogru M. In vivo confocal microscopy of the ocular surface: from bench to bedside. *Curr Eye Res*. 2014 Mar;39(3):213-31.
33. Röhlig M, Luboschik M, Kundt G, Stachs O, Peschel S, Zhivov A, Guthoff RF, Winter K, Schumann H. [Visual analysis for an early detection of diabetic neuropathy]. *Klin Monbl Augenheilkd*. 2014 Dec;231(12):1162-9.

34. Lagali N, Poletti E, Patel DV, McGhee CN, Hamrah P, Kheirkhah A, Tavakoli M, Petropoulos IN, Malik RA, Utheim TP, Zhivov A, Stachs O, Falke K, Peschel S, Guthoff R, Chao C, Golebiowski B, Stapleton F, Ruggeri A Focused Tortuosity Definitions Based on Expert Clinical Assessment of Corneal Subbasal Nerves. *Invest Ophthalmol Vis Sci*. 2015 Aug;56(9):5102-9
35. Daas L, Szentmáry N, Eppig T, Langenbacher A, Hasenpus A, Roth M, Saeger M, Nölle B, Lippmann B, Böhringer D, Reinhard T, Kelbsch C, Messmer E, Pleyer U, Roters S, Zhivov A, Engelmann K, Schrecker J, Zumhagen L, Thieme H, Darawsha R, Meyer-Ter-Vehn T, Dick B, Görsch I, Hermel M, Kohlhass M, Seitz B. [The German Acanthamoeba keratitis register: Initial results of a multicenter study]. *Ophthalmologe*. 2015 Sep;112(9):752-6
36. Walter U, Heilmann E, Voss J, Riedel K, Zhivov A, Schäd SG, Gross GE, Benecke R, Trcka J. Frequency and profile of Parkinson's disease prodromi in patients with malignant melanoma. *J Neurol Neurosurg Psychiatry*. 2015 Mar 27. pii: jnnp-2014-310239. doi: 10.1136/jnnp-2014-310239. [Epub ahead of print]
37. Tavakoli M, Ferdousi M, Petropoulos IN, Morris J, Pritchard N, Zhivov A, Ziegler D, Pacaud D, Romanchuk K, Perkins BA, Lovblom LE, Bril V, Singleton JR, Smith G, Boulton AJ, Efron N, Malik RA. Normative values for corneal nerve morphology assessed using corneal confocal microscopy: a multi-national normative data set. *Diabetes Care*. 2015 May;38(5):838-43