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Brumm Eye Center
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Education and training

8/1999-5/2003: Duke University, Durham, N.C.

B.S. in biology with distinction (thesis) 5/11/2003

Summa cum laude

Concentration in genetics

Minors in history and chemistry

8/2003-5/2007: The Johns Hopkins University School of Medicine, Baltimore, MD
M.D. 5/17/2007

6/2007-6/2008: Wake Forest University Baptist Medical Center, Winston-Salem, NC.
House officer (internship), Department of Internal Medicine

7/2008-6/2011: University of Michigan Medical School, Ann Arbor, MI. House officer
(residency), Department of Ophthalmology and Visual Sciences, W.K.
Kellogg Eye Center

7/2011-7/2012: University of Michigan Medical School, Ann Arbor, MI. Clinical lecturer
(fellowship) in cornea, external diseases, and refractive surgery,
Department of Ophthalmology and Visual Sciences, W.K. Kellogg Eye
Center

Board certification

10/14/2012: Diplomate of the American Board of Ophthalmology

Surgical certification

3/2013: VISX Excimer Laser certification for PRK, LASIK, and CustomVue refractive
surgery

2/2014: WaveTec Vision ORA System certification for intraoperative wavefront
aberrometry

7/2014: CATALYS Precision Laser System certification for femtosecond laser cataract
surgery

1/2015: LenSx Laser certification for femtosecond laser cataract surgery

1/2015: Intralase femtosecond laser certification for bladeless LASIK

Licensure

6/2007-6/2008: North Carolina Resident Training License
7/2008-2/2011: Michigan Educational Limited License #4301091926
7/2010-present: Nebraska Medical License #25802
2/2011-1/2015: Michigan Medical License #4301091926
3/2012-present: Iowa Medical License #40169
5/2015-present: Iowa Controlled Substances License #1246838

Clinical appointments

7/2011-7/2012: University of Michigan Medical School. Clinical lecturer. Department of Ophthalmology and Visual Sciences, W.K. Kellogg Eye Center
7/2012-present: Ophthalmologist, Brumm Eye Center (Bruce H. Brumm, M.D., P.C.)

Honors and awards

2002: Phi Beta Kappa, Duke University
2003: Edward C. Horn Award for Excellence in Biology, Duke University
2003: Howard Hughes Undergraduate Research Forum in Biology, Duke University
2002-2003: Senior Editor, The Chronicle (daily newspaper at Duke University)
2012: Award for Best Resident Teaching by a Fellow, University of Michigan Department of Ophthalmology and Visual Sciences

Membership in professional societies

2008-2012: Member, American Academy of Ophthalmology
2013-present: Fellow, American Academy of Ophthalmology
2008-present: American Society of Cataract and Refractive Surgery
2009-2011: Association for Research in Vision and Ophthalmology
2011-2012: The Cornea Society
2012-present: Nebraska Academy of Eye Physicians and Surgeons
2012-present: Metro Omaha Medical Society
2012-present: Nebraska Medical Association
2014-present: Omaha Ophthalmology Network (Board of Directors)

Peer-review service

Cornea (Journal of the Cornea Society) 2013.

Community service

2003-2004: Mentor for the U.S. Dream Academy at Collington Square Elementary School, Baltimore, MD
2003: Volunteer at the Jefferson Street Free Clinic, Baltimore, MD
2012-present: Duke University Alumni Admissions Advisory Committee

Bibliography

Peer-reviewed journals and publications

E. Margalit, L.J. Kugler, **M.V. Brumm**, J.L. Meza, G.R. Christensen. The Safety of

Intraocular Ketorolac in Rabbits. Invest Ophthalmol Vis Sci 2006; 47: 2093-99.

M.V. Brumm, Q.D. Nguyen. The fluocinolone acetonide intravitreal implant for posterior uveitis. Int J Nanomedicine 2007; 2: 55-64.

K. Branham, M. Othman, **M.V. Brumm**, A.J. Karoukis, P Atmaca-Sonmez, B.M. Yashar, S.B. Schwartz, N.B. Stover, K. Trzupsek, D. Wheaton, B. Jennings, M. Ciccarelli, T. Jayasundera, R.A. Lewis, D. Birch, J. Bennett, P.A. Sieving, S. Andreasson, J.L. Duncan, G.A. Fishman, A. Iannaccone, R.G. Weleber, S.G. Jacobson, J.R. Heckenlively, A. Swaroop. Mutations in RP2 and RPGR Account for 15% of Males with Simplex Retinal Degenerative Disease. Invest Ophthalmol Vis Sci 2012; 53: 8232-7.

Book chapters

M.V. Brumm and S. I. Mian. Corneal Pachymetry. In: R. A. Copeland, Jr. and N. Afshari (eds.), Copeland and Afshari's Principles and Practices of Cornea: New Dehli, India, Jaypee Brothers Medical Publishers, 2013.

A.A. Farjo, **M.V. Brumm**, H.K. Soong. Corneal Anatomy, Physiology, and Wound Healing. In: M. Yanoff and J. Duker (eds.), Ophthalmology, 4th Edition: London, Elsevier, 2014.

Abstracts and poster presentations

M.V. Brumm, R. Wickert, T.C. Greiner. Factor V Leiden and Prothrombin 20210 Mutation Detection Using the HPLC-based Wave DNA Fragment Analysis System. Association for Molecular Pathology Annual Meeting abstract and poster. J Mol Diagn 2000 2:221.

L.J. Kugler, **M.V. Brumm**, G.R. Christensen, J.L. Meza, E. Margalit. Safety of Intraocular Ketorolac. Association for Research in Vision and Ophthalmology Annual Meeting abstract and poster presentation. Invest Ophthalmol Vis Sci 2005; 46: E-Abstract 1460.

M.V. Brumm, K. Branham, M. Othman, A.J. Karoukis, R.G. Weleber, A. Iannaccone, S.G. Jacobson, A. Swaroop, J.R. Heckenlively. X-linked Recessive Mutations in Simplex Males with Retinitis Pigmentosa. Association for Research in Vision and Ophthalmology Annual Meeting 2010 poster presentation. May 3, 2010. Invest Ophthalmol Vis Sci 2010 51: E-Abstract 1399.

M.V. Brumm, K. Branham, M. Othman, A.J. Karoukis, R.G. Weleber, A. Iannaccone, S.G. Jacobson, A. Swaroop, J.R. Heckenlively. X-linked Recessive Mutations in Simplex Males with Retinitis Pigmentosa. University of Michigan Kellogg Eye Center 26th Annual Research Day presentation. June 18, 2010.

M. Hussain, J.B. Greene, **M. Brumm**, N. Raval, S.I. Mian, R.M. Shtein. In vivo Corneal Confocal Microscopy (IVCM) and Ocular Surface Assessments in Patients with Mechanical Microkeratome vs. Femtosecond Laser-assisted LASIK. Association for

Research in Vision and Ophthalmology Annual Meeting 2013 poster presentation. May 6, 2013.

Undergraduate honors thesis

M.V. Brumm. Modifiers of the *wingless*^{NE2} phenotype in *Drosophila*. Honors thesis, Department of Biology, Duke University. May 2003. Mentor: Amy Bejsovec, Ph.D., Associate Professor of Biology, Duke University.