2500 E. BELTLINE SE STE C. GRAND RAPIDS, MI 49546 PHONE (616) 365-5775. EMAIL info@keillasik.com

EDUCATION

Physician CEO, Jan 2018-Oct 2018 Northwestern University, Kellogg School of Management, Evanston, IL

Board Certified in Ophthalmology, May 2006. Metropolitan Hospital, Grand Rapids, MI in consortium with Michigan State University Neuro-Ophthalmology, East Lansing, MI

Traditional Internship, June 2001-June 2002. GENESYS Regional Medical Center, Grand Blanc, MI

Doctor of Osteopathy, August 1997-May 2001. Michigan State University College of Osteopathic Medicine, East Lansing, MI

Bachelor of Science in Biology, September 1988-June 1991. Michigan State University, East Lansing, MI

Associate of Arts, August 1986-June 1988. West Shore Community College, Scottville, MI

PROFESSIONAL EXPERIENCE

Keil Lasik Vision Center. Sole owner/operator. Performed over 10,000 laser vision correction procedures. Performed the first corneal inlay in the State of Michigan in 2015. Grand Rapids, MI (Dec 2009-present)

Residency Director, Ophthalmology, University of Michigan MetroHealth Hospital, Wyoming, MI in consortium with Michigan State University (January 2012-Present)

Clinical Assistant Professor of Ophthalmology Michigan State University Department of Neuro-Ophthalmology, East Lansing, MI. (July 2005-Present)

Clinical Assistant Professor of Ophthalmology
Ohio University Heritage College of Osteopathic Medicine, Athens, OH. (January 2013-Present)

Clinical Adjunct Professor Michigan College of Optometry, Ferris State University, Big Rapids, MI (2016-Present)

Privileges at Metro Health Hospital, Grand Rapids, MI (July 2005-Present)

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LasikPlus Medical Director/Surgeon (June 2006-Dec 2009)

Independent Private Practitioner Ophthalmology (July 2005-Present)

Research Associate, University of Michigan, Department of General Surgery, VA Medical Center, Ann Arbor, MI. Human neutrophil biochemistry. Acted as Radiation Safety Officer and Lab Safety Officer. (May 1992-August 1998)

Research Assistant Plant Biology Research Laboratories, Michigan State University, Responsibilities included running experiments in the realm of plant molecular biology. (Summer 1991)

PUBLICATIONS

Stoddard, J., Marneris, N., Borr, M., Keil, M.L., Optimization of Femtosecond Lasers Using Porcine and Human Donor Corneas Prior to *In Vivo* Use. J Cataract Refract Surg (JCRS) 2018; 44:1018–1022.

Cleaveland, Nathan A., De Mann, Derek W., Carlson, Neil E., Keil, Michael L. Efficacy and perioperative timing of bromfenac in the management of ocular discomfort after femtosecond laser—assisted laser in situ keratomileusis. JCRS 2017; 43:183-188.

Cosgrove, R., Borr, M., Keil, M.L., Destruction of ingrown epithelium via Nd:YAG laser (DIEYAG) in post Lasik enhancement patients. Submitted for publication, 2018.

Rebbapragada, A., Keil, M.L., Solomon, N.L., Traynor-Kaplan, A., Omann, G.M. Lindane Stimulates Neutrophils by Selectively Activating Phospholipase C and Phosphoinositide-kinase. Environmental Pharmacology and Toxicology, March 2006 doi:10.1016/j.etap.2006.03.005.

Keil, M.L., Solomon, N.L., Lodhi, I.J., Stone, K.C., Jesaitis, A.J., Chang, P.S., Linderman J.J., Omann, G.M. Priming-induced localization of G(ialpha2) in high density membrane microdomains. Biochem Biophys Res Commun. 2003 Feb 21;301(4):862-72.

Rengan, R., Ochs, H. D., Sweet, L.I., Keil, M.L. Gunning, W. T., Lachant, N. A., Boxer, L. A., Omann, G.M. Actin Cytoskeletal Function is Spared, but Apoptosis is Increased in WAS Patient Hematopoietic Cells. Blood 2000; 95:1283-1292.

Hoffman, J.F., Keil, M.L., Riccobene, T.A., Omann, G.M., Linderman, J.J. Intercoverting Receptor States at 4 C for the Neutrophil N-Formyl Peptide Receptor. Biochemistry 1996; 35: 13047-13055.

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Model, M.A., Omann, G.M. Desensitization of the Actin Polymerization Response in Human Neutrophils at Low Cell Density. J. Leukocyte Biology September 1995, Volume 58(3), Pages 331-41.

Model, M.A., Omann, G.M. Cell polarization as a possible mechanism of response termination. Biochem Biophys Res Commun July 1996, Volume 224(2), Pages 516-21.

Model, M.A., Omann, G.M Experimental approaches for observing homologous desensitization and their pitfalls. Pharmacology Research July 1998, Volume 38(1), Pages 41-4.

Lerner, D.R., Raikhel, N.V. Expression and regulation of lectin genes in cereals and rice. Dev. Genetics December 1991, Volume 12(4), Pages 255-60.

Lerner, D.R., Raikhel, N.V. The gene for stinging nettle lectin (Urtica dioica agglutinin) encodes both a lectin and a chitinase J. Biol. Chem. November 1992, Volume 267(16), Pages 11085-91.

PROFESSIONAL MEMBERSHIPS

Refractive Surgery Alliance Society
American Osteopathic College of Ophthalmology
American Academy of Ophthalmology
American Osteopathic Association
American Society of Cataract and Refractive Surgeons
Sigma Sigma Phi National Osteopathic Honor Society

AWARDS AND ACTIVITIES

First surgeon in the State of Michigan to become certified in and perform the Raindrop $^{\text{TM}}$ inlay procedure to treat presbyopia 2016.

First surgeon in the State of Michigan to become certified in and perform the KamraTM inlay procedure to treat presbyopia 2015.

First surgeon in the West Michigan to become certified in and perform Topography Guided Lasik 2014.

Mercy Ships Yearly Sponsor 2009-Present

Special Olympics Holiday Sponsor 2009

Cub Scout Committee Chairman, Chartered Org., Den Leader, Cubmaster, Boy Scout Merit Badge Counselor, 2008-Present

Medical mission to Nicaragua associated with Partners in Health. Performed cataract surgery and eye exams for the underserved.

Puerto Cabezas, Nicaragua, February 2005

Poster award for "Myopic degeneration in a patient with glaucoma", Metro Hosp. 2004 U Matter Award, (Outstanding employee performance University of Michigan) 1997

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Outstanding Achievement Award, VA Medical Center 1993 and 1994 Anatomy Tutor Fall 1998 Special Olympics Volunteer 1998 Bone Marrow Program Volunteer 1998 and 1999 Big Brother Big Sisters Volunteer 1992-1997 Deans List, M.S.U., Winter term 1989 Eagle Scout 1985

LASIK CERTIFICATIONS

Nidek NAVEX Quest EC-5000 Topography Guided Eximer Laser
Alegretto Wavelight Eye Q Wavefront Optimized Excimer Laser
Ziemer Z4 Femtosecond Laser
Ziemer Femto LDV Femtosecond Laser
VISX Star S4 IR Excimer Laser
AMO Intralase Femtosecond Laser
Bausch & Lomb Technolas 217z Excimer Laser
Bausch & Lomb Hansatome
Alcon Ladarwave Excimer Laser

PRESBYOPIA CERTIFICATIONS

Acufocus Kamra[™] Corneal Inlay 2015 (1st in Michigan) Raindrop Corneal Inlay 2016 (1st in Michigan)