

## PERSONAL DATA

Birthplace: Cairo, Egypt

## EDUCATION

2019- now: Department of Biochemistry, Cairo University, Egypt

2014-2019: Ph.D. student at the Graduate Program of Cellular Biology and Anatomy, Augusta University, Augusta, GA, USA

2009-2014: Teaching and Research Assistant, Biochemistry Department, Faculty of Pharmacy, Egypt

2004-2009: Bachelor degree in Pharmaceutical Sciences, College of Pharmacy, Cairo University, Egypt

## HONORS & AWARDS

2018 Mr. and Mrs. Bob Richards Travel Award for ARVO at the James & Jean Culver Vision Discovery Institute of Augusta University

2017-2018 Graduate School Travel Award to the Annual Meeting of ARVO, Augusta University.

2009 Excellent degree with Honor, School of Pharmacy, Cairo University, Egypt.

## SOCIETIES

Member, Association for Research in Vision and Ophthalmology (ARVO)

Member, American Association for the Advancement of Science (AAAS)

## PUBLICATIONS

[1] **M.L. Khaled**, I. Helwa, M. Drewry, M. Seremwe, A. Estes, Y. Liu, Molecular and histopathological changes associated with keratoconus, BioMed Research International (2017) 7803029.

[2] I. Helwa, J. Cai, M.D. Drewry, A. Zimmerman, M.B. Dinkins, **M.L. Khaled**, M. Seremwe, W.M. Dismuke, E. Bieberich, W.D. Stamer, M.W. Hamrick, Y. Liu. A comparative study of serum exosome isolation using differential ultracentrifugation and three commercial reagents, PLoS One 12 (2017) e0170628.

[3] Y. Bykhovskaya, M. Fardaei, **M.L. Khaled**, M. Nejabat, R. Salouti, H. Dastsooz, Y. Liu, S. Inaloo, Y.S. Rabinowitz, TSC1 Mutations in Keratoconus Patients With or Without Tuberous Sclerosis, Invest Ophthalmol Vis Sci 58 (2017) 6462-6469.

[4] **M.L. Khaled** \$, Y. Bykhovskaya \$, S.E. Yablonski, H. Li, M.D. Drewry, I.F. Aboobakar, A. Estes, X.R. Gao, W.D. Stamer, H. Xu, Differential expression of coding and long noncoding RNAs in keratoconus-affected corneas, Invest Ophthalmol Vis Sci 59 (2018) 2717-2728. (\$ co-first authors with equal contribution)

[5] **M. L. Khaled** and Y. Liu. (2018). “Genetics of Keratoconus”. *Genetics and Genomics of Eye Disease*. Elsevier Book chapter. In press

[6] R. Sharif \$, **M. L. Khaled** \$, McKay T. B., Y. Liu\*, D. Karamichos\*. (2019). “Transcriptional profiling of corneal stromal cells derived from patients with keratoconus”. (\$ co-first authors with equal contribution, \* co-corresponding authors) *Under revision*

[7] **M. L. Khaled** \$, Y. Bykhovskaya \$, C. Gu, A. Liu, M. D. Drewry, X. Li, Z. Chen, B. A. Mysona, E. Parker, R. P. McNabb, X. Lu, J. Wang, A. Al-Muammar, A. Estes, M. A. Watsky, S. B. Smith, H. Xu, K. K. Abu-Amero, A. Kuo, S. B. Shears, J. I. Rotter, Y. S. Rabinowitz\*, Y. Liu\*. Two gene model in patients with familial Keratoconus due to mutations in PPIP5K2 and PCSK1 genes. (\$ co-first authors with equal contribution, \* co-corresponding authors). *Under Preparation*

## SELECTED ABSTRACTS

J. Cai, **M.L. Khaled**, Y. Liu, Proteomics Analysis of LOXL1-containing Exosomes Secreted by Len Epithelial Cells, Invest Ophthalmol Vis Sci 58 (2017) 4910-4910. (ARVO Annual Meeting, Poster Presentation)

**M.L. Khaled**, Z. Chen, M.A. Watsky, Y. Liu, Molecular characterization of MIR184 mutation in keratoconus using primary human corneal cells, Invest

Ophthalmol Vis Sci 58 (2017) 1403-1403. (ARVO Annual Meeting, Poster Presentation)

Y. Liu, **M.L. Khaled**, Y. Bykhovskaya, H. Li, W.D. Stamer, H. Xu, R.R. Allingham, M.A. Hauser, Y. Rabinowitz, Long Non-Coding RNAs in Keratoconus-affected Human Cornea, Invest Ophthalmol Vis Sci 59 (2018) 4391-4391. (ARVO Annual Meeting, Poster Presentation)

**M.L. Khaled**, K. Abu-Amero, A. Al-Muammar, Y. Bykhovskaya, X. Gao, M.A. Hauser, R.R. Allingham, Y. Rabinowitz, Y. Liu, Homozygous Mutation in the ELMO3 Gene with Keratoconus, Invest Ophthalmol Vis Sci 59 (2018) 743-743. (ARVO Annual Meeting, Oral Presentation)

Y. Liu, **M. L. Khaled**, Y. Bykhovskaya, K. Abu-Amero, S. B. Smith, M. Watsky, A. Estes, S. B. Shears, A. Kuo, Y. Rabinowitz. PPIP5K2 mutations and Keratoconus in Human Patients and Mouse Models. (2019) (ARVO Annual Meeting, Oral Presentation)