



Neelam Kumari Bhaskar

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Assistant Professor, Duke-NUS Graduate Medical School &
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Research Interests:

- Retinal Diseases and Degenerations
- Diabetic Retinopathy
- Myopic Macular Degeneration
- Age-related Macular Degeneration

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Biography

I obtained my undergraduate degree in Medicine and post-graduate degree in Ophthalmology from Delhi University, India. I was admitted as Fellow Royal College of Physicians and Surgeons of Glasgow in the year 2003 and was conferred PhD degree from the National University of Ireland in the year 2008 based on my thesis entitled “*Macular carotenoids in healthy and diseased retinae*”. I have 20% of the protected time for carrying out research related activities from RISE 2019 (Researcher-Investigator-Scientist Enabler Grant Scheme). I have published fifty-five articles in the peer reviewed scientific journals and have successfully supervised a student for the Master’s degree with thesis entitled “Macular pigment in multiethnic population of Singapore” from University of Manchester. Currently, I am holding few Science - Translational and Applied Research-I grants and supervising another student for MPhil program from Queensland University of Technology, Australia for “Omics study in myopic macular degeneration”. In addition, I am also involved in teaching medical students during their surgical rotations from NUS and LKC medicine.

Selective Publications

- Neelam K, Cheung G, Lai TTY, Ohno-Matsui K, Wong TY. Choroidal neovascularization in myopia. *Progress in Retina and Eye Research*. 2012; 31(5):495-525.
- Neelam K, Ho H, Yip CC, Wong WY, Au Eong KG. The spatial profile of macular pigment in subjects from a Singapore Chinese population. *Invest Ophthalmol Vis Sci*. 2014; 15(55):2376-83.
- Neelam K, Goendi C, Lun K, Yip CC, Au Eong KG. Putative protective role of lutein and zeaxanthin in DR. *Br J Ophthalmol*. 2017.
- Cheung CY, Sabanayagam C, Law AK, Neelam K, Ting DS, Tan G, Mitchell P, Cheng CY, Wong TY. Retinal vascular geometry and 6-year incidence and progression of diabetic retinopathy. *Diabetologia*. 2017; 60(9):1770-1781.
- Neelam K, Cher J, Chua E, Hamzah H, Wong TY, Cheung CY. Association of Serum Lutein and Zeaxanthin with Quantitative measures of Retinal Vascular Parameters. *PLoS*. 2018.
- Tan GS, Gan A, Sabanayagam C, Tham YC, Neelam K, Mitchell P, Wang JJ, Lamoureux EL, Cheng CY, Wong TY. Ethnic Differences in the Prevalence and Risk Factors of Diabetic Retinopathy: The Singapore Epidemiology of Eye Diseases Study. *Ophthalmology*. 2018; 125(4):529-536.
- Neelam K, Bhargava M, Nguyen QD, Gan A, Tan G, Cheung D, Tan N, Wong C, Wang JJ, Mitchell P, Lamoureux EL, Cheng CY, Wong TY, Sabanayagam C. Six-year Incidence and Progression of Diabetic retinopathy In Indian Adults: The Singapore Indian Eye Study. *Br J Ophthalmol*. 2019; 103(12):1732-1739.
- Neelam K, Dey S, Sim R, Lee J, Au Eong KG. Fructus lycii: A natural dietary supplement for amelioration of retinal diseases. *Nutrients*. 2021; 13(1):246. doi: 10.3390/nu1301024.

Notable Research Awards & Grants From Past 5 Years

Name of Awards & Grants	Year Obtained
Science-Translational & Applied Research Grant I for "Genetic determinants of macular pigment in subjects from a Singaporean population"	2017
Science-Translational & Applied Research Grant I for "Omics study in myopic macular degeneration"	2018
Researcher Investigator Scientist Enabler Grant (RISE)	2019