Suma Prabhu Shankar, M.D., Ph.D.

Philosophy of Care

Suma Shankar philosophy of care is

- To listen first and provide compassionate care.
- To provide personalized health care and facilitate precision medicine practice using state-of-the-art cutting edge genomic advances in everyday clinical practice.

Clinical Interests

Precision Genomics Program:
Dr Shankar has established "deep phenotyping" and "whole genome sequencing" for individuals with congenital disorders, autism spectrum disorders, developmental delays, and those facing the "Diagnostic Odyssey."
Precision Genomics for Nonverbal Autism Study (PGNA):
In the PGNA study, Dr Shankar has focused on individuals with "nonverbal autism & neurodevelopmental disorders."
Ophthalmic Genetics:
Dr. Shankar has special interest in ophthalmic genetic disorders such as retinal dystrophies, retinitis pigmentosa, microphthalmia, glaucoma and others.

Research/Academic Interests

Dr. Shankar serves as the director of precision genomic program and holds the Children's Miracle Network Endowed Chair in Pediatric Genetics at the MIND Institute. She is a fellow of the Royal College of Surgeons, Edinburgh, UK and is board certified in Medical Genetics from the American College of Medical Genetics. She holds a PhD in Molecular Biology from University of Iowa. The mission of UC Davis Precision Genomics program is to provide personalized health care and facilitate precision medicine practice using state-of-the-art whole genome sequencing to determine the underlying genetic etiology in patients with complex neurodevelopmental disorders. Further, she collaborates with Mouse Biology Program in developing animal models to perform functional studies and develop means for translational research.
She serves as editor for Genetics in Medicine, Journal of American College of Genetics and Genomics. She is very interested in advancing genomic education and involved in dedicated teaching of medical students, graduate students, residents and fellows.

Title

Associate Professor

Specialty

Genomic Medicine, Ophthalmology, Genetics

Department

Pediatrics
Ophthalmology & Vision Science

Division

Genomic Medicine

UCDAVIS HEALTH

Suma Prabhu Shankar, M.D., Ph.D.

Pediatric Ophthalmology

Center/Program Affiliation
UC Davis MIND Institute
UC Davis Children's Hospital

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UC Davis MIND Institute, 2825 50th St. Sacramento, CA 95817

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Languages
Kannada

Education
M.D., Bangalore Medical College, Bangalore India 1990
Ph.D., Molecular Biology, University of Iowa, Iowa City IA 2005
M.B.B.S., Bangalore Medical Collete, Bangalore, India 1989

Residency
Ophthalmology, Royal College of Ophthalmologists Affiliated Hospitals, Great Yarmouth, Northampton, England 1992-1995
Intensive and Coronary Care, St. John's Hospital, Bangalore, India 1990-1991
Medical Genetics, UC San Francisco, San Francisco CA 2007-2009

Fellowships
Pediatric Ophthalmology, University of Iowa, Iowa City IA 2006-2007

Board Certifications
American Board of Medical Genetics - Clinical Genetics (M.D.)

Professional Memberships
American College of Medical Genetics and Genomics
American Federation for Medical Research
American Society of Human Genetics

Honors and Awards
Best Poster Award, Genetic Syndromes of the Ras/MAPK Pathway: From Bedside to Bench and Back, Berkeley, CA, 2009
Henry Christian Award and Certificate of Excellence in Research, American Federation for Medical Research, Chicago, IL, 2009
Western Scholar, Western Society for Pediatric Research, Carmel, CA, 2009
Above and Beyond the Call of Duty, University of Iowa Hospitals and Clinics, Iowa City, IA, 2006

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Germain DP, Hughes DA, Nicholls K, Bichet DG, Giugliani R, Wilcox WR, Feliciani C, Shankar SP, Ezgu F, Amartino H, Bratkovic D, Feldt-Rasmussen U, Nedd K, Sharaf El Din U, Lourenco CM, Banikazemi M, Charrow J, Dasouki M, Finegold D, Giraldo P, Goker-Alpan O, Longo N, Scott CR,

Suma Prabhu Shankar, M.D., Ph.D.

Torra R, Tuffaha A, Jovanovic A,Waldek S, Packman S, Ludington E, Viereck C, Kirk J, Yu J, Benjamin ER, Johnson F, Lockhart DJ, Skuban N, Castelli J, Barth J, Barlow C, Schiffmann R. Treatment of Fabry's Disease with the Pharmacologic Chaperone Migalastat. N Engl J Med. 2016 Aug 11;375(6):545-55. PMID:27509102.

Shankar SP, Hughbanks-Wheaton DK, Birch DG, Sullivan LS, Conneely KN, Bowne SJ, Stone EM, Daiger SP. Autosomal Dominant Retinal Dystrophies Caused by a Founder Splice Site Mutation, c. 828+3A>T, in PRPH2 and Protein Haplotypes in trans as Modifiers. Invest Ophthalmol Vis Sci. 2016 Feb;57(2):349-59. doi:10.1167/iovs.15-16965. PMID:26842753.

Shankar SP, Birch DG, Ruiz RS, Hughbanks-Wheaton DK, Sullivan LS, Bowne SJ, Stone EM, Daiger SP. Founder Effect of a c.828+3A>T Splice Site Mutation in Peripherin 2 (PRPH2) Causing Autosomal Dominant Retinal Dystrophies. JAMA Ophthalmol. 2015 May;133(5):511-7. doi: 10.1001/jamaophthalmol.2014.6115. PMID:25675413.

Mistry PK, Lukina E, Ben Turkia H, Amato D, Baris H, Dasouki M, Ghosn M, Mehta A, Packman S, Pastores G, Petakov M, Assouline S, Balwani M, Danda S, Hadjiev E, Ortega A, Shankar S, Solano MH, Ross L, Angell J, Peterschmitt MJ. Effect of oral eliglustat on splenomegaly in patients with Gaucher disease type 1: the ENGAGE randomized clinical trial. JAMA. 2015 Feb 17;313(7):695-706. doi:10.1001/jama.2015.459. PMID:25688781.

Pierpont ME, Magoulas PL, Adi S, Kavamura MI, Neri G, Noonan J, Pierpont EI, Reinker K, Roberts AE, Shankar S, Sullivan J, Wolford M, Conger B, Santa Cruz M, Rauen KA. Cardio-facio-cutaneous syndrome: clinical features, diagnosis, and management guidelines. Pediatrics. 2014 Oct;134(4):e1149-62. doi:10.1542/peds.2013-3189. Epub 2014 Sep 1. PMID 25180280.

Shankar SP, Fingert JH, Carelli V, Valentino ML, King TM, Daiger SP, Salomao SR, Berezovsky A, Belfort R Jr, Braun TA, Sheffield VC, Sadun AA, Stone EM. Evidence for a novel x-linked modifier locus for leber hereditary optic neuropathy. Ophthalmic Genet. 2008 Mar;29(1):17-24. doi: 10.1080/13816810701867607. PMID:18363168.

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Suma Prabhu Shankar, M.D., Ph.D.

Daiger SP, Shankar SP, Schindler AB, Sullivan LS, Bowne SJ, King TM, Daw EW, Stone EM, Heckenlively JR. Genetic factors modifying clinical expression of autosomal dominant RP. Adv Exp Med Biol. 2006;572:3-8. doi:10.1007/0-387-32442-9_1. PMID:17249547.

Braun TA, Shankar SP, Davis S, O'Leary B, Scheetz TE, Clark AF, Sheffield VC, Casavant TL, Stone EM. Prioritizing regions of candidate genes for efficient mutation screening. Hum Mutat. 2006 Feb; 27(2):195-200. doi:10.1002/humu.20247. PMID:16395665.

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