CURRICULUM VITAE

Name	Dr.S.Sripriya
Degree	Ph.D
Designation/Department:	Senior Principal Scientist & Associate Professor SNONGC Department of Genetics and Molecular Biology

Experience: 23 years (1999 June till date)

(Pre and post genetic discussions with the patients that involve interaction with patients and family members take and interpret family histories,calculate the empirical risk of condition occurrence or recurrence, assess and advice the appropriate genetic tests, order genetic tests and arrange diagnostic testing of patients as well as testing of relatives, interpret genetic tests and explain them in easy to understand language to patients and their relatives, educate patients about inheritance patterns, testing, management, prevention, resources and research, supporting the clinicians in genetic diagnosis for inherited eye disorders and appropriate follow-up of patients)

- Professional Membership & Certifications

  Associate Genetic Counsellor (Board of Genetic Counselling);
  Membership number: BGC 2023-271

  QCI certified on Quality management Systems and Internal audit for NABL as per ISO 15189-2012 and ISO 15189:2022

  Member : Indian Eye Research Group

  Member: Indian Society of Human Genetics

- Research & Publications

Publications

Book Chapters

1. Natarajan S.N., Gnanasekaran H., Kandeeban S., Sundaramurthy S., Sripriya S. (2022) An Overview on the Genetic Etiology, Testing, and Therapeutic Options for Retinitis Pigmentosa. In: Nema H.V., Nema N. (eds) Genetics of Ocular Diseases. Springer, Singapore.
2. **Sripriya S**., Sharmila F., Kandeepan S., George R. (2019) Quantitative Trait for Glaucoma. In: Prakash G., Iwata T. (eds) Advances in Vision Research, Volume II. Essentials in Ophthalmology. Springer, Singapore.

3. SatyaPriya C, Srilekha S, Sudha K, **Sripriya S**, Soumittra N, Homozygosity Mapping for Autosomal Recessive Ocular Diseases, in : Advances in Vision Research, Volume I: Genetic Eye Research in Asia and the Pacific, Prakash, Gyan, Iwata, Takeshi (Eds), pp449-456, 2017.

4. **Sripriya S**, Raman R, Soumittra N, Pandian J; Current Research Perspectives in Understanding Diabetic Retinopathy, in : Advances in Vision Research, Volume I: Genetic Eye Research in Asia and the Pacific, Prakash, Gyan, Iwata, Takeshi (Eds), pp.259-274,2017

5. Sudha D, **Sripriya S**, Soumittra N , Pandian A J, Diagnostic procedures for Genetically Transmitted Eye Diseases (pp 388), In: Diagnostic Procedure in Ophthalmology (3rd edition), Nema HV, Neema N (Au), Jaypee Brothers Medical Publishers, New Delhi , 2014.

6. Kumaramanickavel G, **Sripriya S**, Soumittra N, Vinita K, Madhavan J, Ram Prasad VL, Genetics (pp114), In : Manual of Medical Laboratory Techniques, Eds: Ramakrishnan, K. N. Sulochana, Jaypee Brothers Medical Publishers, New Delhi, 2012.

Publications

1. Kandeeban S, Naresh Kumar N, Ishwarya S, Vaishaali G, Porkodi P, Shyam Sundar J, Rashima A, Sharada R, Sripriya A.V, Shantha B, Lingam, George R, **Sripriya S**. A study on the candidate gene association andinteraction with measures of UV exposure in pseudoexfoliation patients from India (*Current Eye Research,Under Review)* 2023 Aug 14:1-9 (Online ahead of print)

2. Harshavardhini G, Sathya Priya C, Kandeeban S, Porkodi P, Bhende M,

Khetan V, Gupta N, Kabra M, Namboothri S, Sen P, **Sripriya S**. Mutation profile of Bardet-Biedl Syndrome Patients from India – implicative role of multiallelic rare variants and oligogenic inheritance pattern (*Clinical Genetics, Accepted) C*lin Genet. 2023 Oct;104(4):443-460. doi: 10.1111/cge.14398. Epub 2023 Jul 11.

3. Sen, P., Srikrupa, N.S., Maitra, P., Srilekha, S., Porkodi, P., Gnanasekaran, H., Bhende, M., Khetan, V., Mathavan, S., Bhende, P., Ratra, D., Raman, R., Rao, C., **Sripriya, S.** Next generation sequencing based genetic testing and phenotype correlation in retinitis pigmentosa patients from India *Indian Journal of Ophthalmology (In press)*
4. Kandeeban K, Kandle K, Porkodi P, Bhende M, Bhende P, Sinnakaruppan M**, Sripriya S**. Genetic testing in 4 Indian families with suspected Sticklers syndrome *Indian J Ophthalmol*. 2022 Jul;70(7):2578-2583. doi: 10.4103/ijo.IJO_1833_21.PMID: 35791160
5. Sundaramurthy S, Selvakumar A, Dharani V, Soumittra N, Mani J, Thirumalai K, Periyasamy P, Mathavan S, Sripriya S. Prevalence of primary mutations in Leber hereditary optic neuropathy: A five-year report from a tertiary eye care center in India. Mol Vis. 2021 Dec 11;27:718-724.
6. Sundaramurthy S, SelvaKumar A, Ching J, Dharani V, **Sarangapani S**, Yu-Wai-Man P. Leber hereditary optic neuropathy-new insights and old challenges. Graefes Arch Clin Exp Ophthalmol. 2021 Sep;259(9):2461-2472
7. Sen P, Maitra P, Natarajan S, **Sripriya S**, Mathavan S, Bhende M, Manchegowda PT CERKL mutation causing retinitis pigmentosa(RP) in Indian population - a genotype and phenotype correlation study. Ophthalmic Genet. 2020 Dec;41(6):570-578.
8. Badrinarayanan L, Chitipothu S, Ramasubramanyan S, **Sripriya S**, Rishi P, Rishi E, George R, Lakshmi BS, Elchuri SV Assessment of single nucleotide polymorphisms associated with steroid-induced ocular hypertension. Int J Ophthalmol. 2020 Aug 18;13(8):1294-1305.
9. Srikrupa NN, **Sripriya S**, Pavithra S, Sen P, Gupta R, Mathavan S. Whole-exome sequencing identifies two novel ALMS1 mutations in Indian patients with Leber congenital amaurosis. Hum Genome Var. 2021 Mar29;8(1):12
10. Chekuri A, Guru AA, Biswas P, Branham K, Borooah S, Soto-Hermida A, Hicks M, Khan NW, Matsui H, Alapati A, Raghavendra PB, Roosing **S, Sarangapani S**, Mathavan S, Telenti A, Heckenlively JR, Riazuddin SA, Frazer KA, Sieving PA, Ayyagari R. IFT88 mutations identified in individuals with non-syndromic recessive retinal degeneration result in abnormal ciliogenesis. Hum Genet. 2018; 137(6-7):447- 458 PMID: 29978320

11. Screening for mutation hotspots in Bardet-Biedl syndrome patients from India. Chandrasekar SP, Namboothiri S, Sen P, **Sarangapani S.** Indian J Med Res. 2018;147(2):177-182.
12. Fan BJ, Chen X, Sondhi N, Sharmila PF, Soumittra N, **Sripriya S**, Sacikala S, Asokan R, Friedman DS, Pasquale LR, Gao XR, Vijaya L, Cooke Bailey J, Vitart V, MacGregor S, Hammond CJ, Khor CC, Haines JL, George R, Wiggs JL; Mexican American Glaucoma Genetic Study; International Glaucoma Genetics Consortium; and NEIGHBORHOOD Consortium. Family-Based Genome-Wide Association Study of South Indian Pedigrees Supports WNT7B as a Central Corneal Thickness Locus.Invest Ophthalmol Vis Sci. 2018 May 1;59(6):2495-2502. doi: 10.1167/iovs.17-23536.
13. Kumari Vinita, **Sarangapani Sripriya**, Ferdina Marie Sharmila Philomenadin, Kulothungan Vaitheeswaran, Rajiv Raman, Tarun Sharma. High order interaction analysis of SNPs in PEDF (rs12150053, rs12948385) and EPO (rs1617640) genes with clinical determinants of type 2 diabetic retinopathy patients from south India. Meta Gene,Volume 13,2017,Pages 92-98,ISSN 2214-5400.
14. Aung T, Ozaki M, Lee MC, Schlötzer-Schrehardt U, Thorleifsson G, Mizoguchi T, Igo RP Jr, Haripriya A, Williams SE, Astakhov YS, Orr AC, Burdon KP, Nakano S, Mori K, Abu-Amero K, Hauser M, Li Z, Prakadeeswari G, Bailey JNC, Cherecheanu AP, Kang JH, Nelson S, Hayashi K, Manabe SI, Kazama S, Zarnowski T, Inoue K, Irkec M, Coca-Prados M, Sugiyama K, Järvelä I, Schlottmann P, Lerner SF, Lamari H, Nilgün Y, Bikbov M, Park KH, Cha SC, Yamashiro K, Zenteno JC, Jonas JB, Kumar RS, Perera SA, Chan ASY, Kobakhidze N, George R, Vijaya L, Do T, Edward DP, de Juan Marcos L, Pakravan M, Moghimi S, Ideta R, Bach-Holm D, Kappelgaard P, Wirostko B, Thomas S, Gaston D, Bedard K, Greer WL, Yang Z, Chen X, Huang L, Sang J, Jia H, Jia L, Qiao C, Zhang H, Liu X, Zhao B, Wang YX, Xu L, Leruez S, Reynier P, Chichua G, Tabagari S, Uebe S, Zenkel M, Berner D, Mossböck G, Weisschuh N, Hoja U, Welge-Luessen UC, Mardin C, Founti P, Chatzikyriakidou A, Pappas T, Anastasopoulos E, Lambropoulos A, Ghosh A, Shetty R, Porporato N, Saravanan V, Venkatesh R, Shivkumar C, Kalpana N, **Sarangapani S**, etal., Genetic association study of exfoliation syndrome identifies a protective rare variant at LOXL1 and five new susceptibility loci. Nat Genet. 2017 Jul;49(7):993-1004
15. Genome-wide association study identifies five new susceptibility loci for primary angle
closure glaucoma. Khor CC, Do T, Jia H, Nakano M, George R, Abu-Amero K, Duvesh R, Chen LJ, Li Z, Nongpiur ME, Perera SA, Qiao C, Wong HT, Sakai H, Barbosa de Melo M, Lee MC, Chan AS, Azhany Y,

Dao TL, Ikeda Y, Perez-Grossmann RA, Zarnowski T, Day AC, Jonas JB, Tam PO, Tran TA, Ayub H, Akhtar F, Micheal S, Chew PT, Aljasim LA, Dada T, Luu TT, Awadalla MS, Kitnarong N, Wanichwecharungruang B, Aung YY, Mohamed Noor J, Vijayan S, **Sarangapani S**,et al., Nat Genet. 2016May;48(5):556-62.

16. Sudha D, Patric IRP, Ganapathy A, Agarwal S, Krishna S, Neriyanuri S, **Sripriya S**, Sen P, Chidambaram S, Arunachalam JP.Genetic studies in a patient with X-linked retinoschisis coexisting with developmental delay and sensorineural hearing loss. Ophthalmic Genet. 2017 May-Jun;38(3):260-266. doi: 10.1080/13816810.2016.1214972. Epub 2016 Sep 22.PMID:28574807
17. Gayathri R, Coral K, Sharmila F, **Sripriya S,** Sripriya K, Manish P, Shantha B, Ronnie G, Vijaya L, Narayanasamy A. Correlation of Aqueous Humor Lysyl Oxidase Activity with TGF-ß Levels and LOXL1 Genotype in Pseudoexfoliation.Curr Eye Res. 2016 Oct;41(10):1331-1338. Epub 2016 Apr 26.
18. Singh J, Mishra A, Pandian AJ, Mallipatna AC, Khetan V, **Sripriya S**, Kapoor S, Agarwal S, Sankaran S, Katragadda S, Veeramachaneni V, Hariharan R, Subramanian K, Mannan AU. Next-generation sequencing-based method shows increased mutation detection sensitivity in an Indian retinoblastoma cohort.Mol Vis. 2016 Aug 16;22:1036-47. PMID: 27582626
19. Shah PK, **Sripriya S**, Narendran V, Pandian AJ. Prenatal genetic diagnosis of retinoblastoma and report of RB1 gene mutation from India.Ophthalmic Genet. 2016 Dec;37(4):430-433. PMID: 26914665
20. Priya S, Nampoothiri S, Sen P, **Sripriya S**. Bardet-Biedl syndrome: Genetics, molecular pathophysiology, and disease management. Indian J Ophthalmol. 2016;64(9):620-627. PMID: 27853007
21. Sudha D, Patric IRP, Ganapathy A, Agarwal S, Krishna S, Neriyanuri S, **Sripriya S**, Sen P, Chidambaram S, Arunachalam JP.Genetic studies in a patient with X-linked retinoschisis coexisting with developmental delay and sensorineural hearing loss. Ophthalmic Genet. 2017 May-Jun;38(3):260-266
22. Srilekha S, Rao B, Rao DM, Sudha D, Chandrasekar SP, Pandian AJ, Soumittra N, **Sripriya S**. Strategies for Gene Mapping in Inherited Ophthalmic Diseases. Asia Pac J Ophthalmol (Phila). 2016 Jul-Aug;5(4):282-92. doi: 10.1097/APO.0000000000000228. Review. PMID: 27488070
23. AnandBabu K, Bharathidevi SR, **Sripriya S**, Sen P, Prakash VJ, Bindu

A, Viswanathan N, Angayarkanni N.Serum Paraoxonase activity in relation to lipid profile in Age-related Macular Degeneration patients. ExpEye Res. 2016 Nov;152:100-112. PMID: 27693409

24. Gayathri R, Coral K, Sharmila F, **Sripriya S**, Sripriya K, Manish P, Shantha B, Ronnie G, Vijaya L, Narayanasamy A. Correlation of Aqueous Humor Lysyl Oxidase Activity with TGF-ß Levels and LOXL1 Genotype in Pseudoexfoliation. Curr Eye Res. 2016 Oct;41(10):1331-1338 PMID: 27116380
25. Philomenadin FS, Asokan R, N V, George R, Lingam V, **Sarangapani S** (2015) Genetic Association of SNPs near *ATOH7*, *CARD10*, *CDKN2B*, *CDC7* and*SIX1/SIX6* with the Endophenotypes of Primary Open Angle Glaucoma in Indian Population. PLoS ONE 10(3)
26. Li Z, Allingham RR, Nakano M, Jia L, Chen Y, Ikeda Y, Mani B, Chen LJ, Kee C, Garway-Heath DF,**Sripriya S**, etal.,(2015) A common variant near TGFBR3 is associated with primary open angle glaucoma.Hum Mol Genet.,24(13):3880-92
27. Sathya Priya, C., Sen, P., Umashankar, V., Gupta, N., Kabra, M., Kumaramanickavel, G., Stoetzel, C., Dollfus, H. and **Sripriya, S**. Mutation spectrum in BBS genes guided by homozygosity mapping in an Indian cohort. Clinical Genetics. 2015; 87(2):161–166.PMID: 24400638

Conferences:

Poster and paper presentations: (ASIA-ARVO, Singapore Eye Research Institute International Meeting, Indian Society of Human genetics, Indian Eye research group, reotina Summit,)

Awards & Achievements

Fellowships

Duration	Fellowship
2012-2015	DST Fast Track fellowship (SERB),
2010	ICMR exchange visit to Universitaires de Strasbourg (INSERM lab), and Laboratoirede Cytogénétique Prénatale et Constitutionnelle - Hôpital de Hautepierre, Strasbourg, France
1999	Travel fellowship, IX Indian Eye Research Group Meeting, Hyderabad,

Awards

Year	Award details
2006	Young Scientist Award, 31st Indian Society of Human Genetics, New Delhi,
2004	Best Poster 29th Indian Society of Human Genetics,
2001	Young Investigator Award, Singapore Eye Research Institute InternationalMeeting,
2001	Chennai Willingdon Corporate Foundation PhD Fellowship,
1999	Bangalore Genie Best Outgoing Student Award for Clinical genetics

- Teaching Faculty for Human genetics and molecular biology under
  (i) off campus programme of Birla Institute of Technology, Pilani,Rajasthan, India (since 1999 -2014)
  (ii) currently as a part of TSNA Academy, registered under Dr MGRMedical University, Chennai for the following courses
  - Master of Science (Medical Laboratory Technology)
  - BS Optometry
  - BS Ophthalmic Assistant
- Mentor for BITS Practice School Students, Short term research project

- Recognised Guide / Mentored PhD students under (since 2009)

- Birla Institute of Technology, Pilani, Rajasthan, India: 2 (Completed)

- SASTRA, Tanjore, Tamil Nadu, India :

Teaching Faculty for Human genetics and molecular biology under

off campus programme of Birla Institute of Technology, Pilani,Rajasthan, India (since 1999 -2014)
currently as a part of TSNA Academyfor the following courses

Master of Science (Medical Laboratory Technology)
BS Optometry
BS Ophthalmic Assistant

Mentor for BITS Practice School Students, Short term research project students

Recognised Guide / Mentored PhD students under (since 2009)

- Birla Institute of Technology, Pilani, Rajasthan, India
- SASTRA, Tanjore, Tamil Nadu, India
- Completed : 3
  Pursuing : 3