

**Anuprita Ghosh**

**M.Sc., PhD.**

Email: [anupritaghosh@narayananethralaya.com](mailto:anupritaghosh@narayananethralaya.com)

Phone Number: +919663555998

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**Educational Qualifications:**

**Ph.D.** Molecular Microbiology and Immunology, University of Missouri, Columbia, MO, USA, 2009

**M.S.** Microbiology, Nagpur University, Nagpur, India, 2001

**B.S.** Chemistry, Microbiology, Zoology, Nagpur University, Nagpur, India, 1999

**Continuing professional education:**

1. Certified Mindfulness-based Meditation Teacher 2023 (MMTCP, Tara Brach and Jack Kornfield)
2. Diploma in Buddhist Philosophy, Nalanda Diploma Course in Buddhist Philosophy 2022

**Current position:**

**Genetic Counsellor** (2015-present) in Ophthalmology (Inherited Retinal Dystrophies and Retinoblastoma), Narayana Nethralaya, Bangalore, India

**PhD co-guide** (present), GROW Research laboratory, Narayana Nethralaya Foundation, Narayana Nethralaya (Eye Hospital), Bangalore, India

**Senior Scientist** (2015-May- present), GROW Research laboratory, Narayana Nethralaya Foundation, Narayana Nethralaya (Eye Hospital), Bangalore, India

**PhD Supervisor** (2018-May- present), Manipal Academy of Higher Education, India

**Academics Lead** (2018-May- present), GROW Lab, Narayana Nethralaya Foundation (coordinating doctoral study requirements, undergraduate/ graduate internship course work, graduate program orientation, moderate focused research groups)

**Research interests (GROW Lab, 2013-present):**

1. Genetic and molecular signaling in retinal degenerative conditions
2. Building a gene mutation database of Indian population for eye genetic disorders
3. Intracellular signaling associated with ocular surface conditions

### **Research experience:**

1. Scientist, GROW laboratory, Narayana Nethralaya Foundation, Nethralaya, Bangalore, India; 2013- May 2022
2. Doctoral Scholar, Molecular Microbiology & Immunology, School of Medicine, University of Missouri-Columbia, MO. Role of Sds22 in the regulation of Protein Phosphatase-1 in *Saccharomyces cerevisiae*; 2002-2009

### **Genetic counselling experience:**

- Head of Genetic Counselling Clinic, Gen-Eye, at Narayana Nethralaya, Bangalore, 2015-present
- Genetic Educator Training Course Certificate, Children's hospital of Pittsburgh, UPMC Eye Centre, Univ. of Pittsburgh; Aug 2013
- One of the organizers of the "Ophthalmic Genetics and Genetic Counselling for Clinicians and Basic Scientists Conference and Workshop". Jointly Organized by the Indo-UK Genetic Education Forum, Bangalore, India. Feb 2014
- Two weeks Observer-ship at the University of Minnesota, Minneapolis, USA; Observed different clinics; 2016
- Attended Conference; Manipal Genetics Update on Genetic Counselling, March 2017 at Manipal University, Manipal. March 2017

### **Invited Speaker:**

1. Global Eye Genetics Consortium (GEGC), Mumbai, India; Nov 2022  
Talk title: **Genetic Landscape and Genetic Counselling in Indian Inherited Retinal Disease patients**
2. Indian Eye Research Group (IERG), ARVO-India; Workshop on Gene Therapy, Oct 7<sup>th</sup> 2021; Talk Title: **Patient's perspectives: Genetic counselling for IRDs**
3. Blue Ribbon Rare Disease Symposium, Wednesday March 14<sup>th</sup> 2018, Bangalore, India. Talk title: **Gene Therapy, Genetic Counselling and Testing in Ophthalmology: Bridging the Gap**
4. Women Ophthalmologists Society, 25<sup>th</sup> to 26<sup>th</sup> November, 2017, Jaipur, India. Talk title: **Genetic Counselling and Testing in Ophthalmology: Bridging the Gap**

### **Research funding:**

- Received CESEM grant titled "Developing Curcumin and Vitamin D based natural product immunomodulators for treating blinding corneal disorders and

regeneration” from VGST (Vision Group on Science and Technology), Government of Karnataka; 2016-2019.

### **Publications:**

- Chitra Gopinath, Ramya Rompicherla, Grace Priyaranjini Mathias, Poornachandra B, Anand Vinekar, Rajeshwari Patil, Thirumalesh M B, Sherine Braganza, K Bhujang Shetty, Govindasamy Kumaramanickavel, **Anuprita Ghosh\***; Inherited Retinal Disorders: A Genotype-Phenotype Correlation from India and the Importance of Genetic Testing and Genetic Counseling (Corresponding Author) Graefes Arch Clin Exp Ophthalmol. 2023 Jan 17.
- Priyalakshmi Panikker, Shomereeta Roy, **Anuprita Ghosh**, Poornachandra B, Arkasubhra Ghosh; Advancing Precision Medicines for Ocular Disorders: Diagnostic genomics to tailored therapies. Front Med (Lausanne). 2022 Jul 15.
- Nallathambi Jeyabalan, Anuprita Ghosh, Grace P Mathias, Arkasubhra Ghosh; Rare eye diseases in India: A concise review of genes and genetics. Indian J Ophthalmol. 2022 Jul
- Himika Gupta, Sivasankar Malaichamy, Ashwin Mallipatna, Sakthivel Murugan, Nallathambi Jeyabalan, Vishnu Suresh Babu, **Anuprita Ghosh**, Arkasubhra Ghosh, Sam Santhosh, Somasekar Seshagiri, Vedam L. Ramprasad and Govindasamy Kumaramanickavel. Retinoblastoma genetics screening and clinical management. BMC Medical Genomics volume 14, Article number: 188 (2021)
- Yohe, Sophia; Sivasankar , Malaichamy ; **Ghosh, Anuprita**; Ghosh, Arkasubhra; Holle, Jennifer; Murugan, Sakthivel; Gupta, Ravi; Schimmenti, Lisa; Ramprasad, Vedam; Thyagarajan, Bharat. Manuscript accepted in November 2019; **Molecular Genetics & Genomic Medicine** Prevalence of mutations in inherited retinal diseases: a comparison between the United States and India
- **Ghosh A** and Cannon J F, Analysis of Protein Phosphatase-1 and Aurora Protein Kinase Suppressors Reveals New Aspects of Regulatory Protein Function in *Saccharomyces cerevisiae*. **PLoS One**. 2013 Jul 22;8(7). doi: 10.1371/journal.pone.0069133.