

The Members of the Vision Research Foundation

NOTICE

NOTICE IS HEREBY GIVEN TO THE MEMBERS OF VISION RESEARCH FOUNDATION THAT THE 31^{st} annual general meeting of vision research foundation will be held on, friday, the 25^{TH} september 2015 at 3.00 p.m. at the VRF board room in the 2^{ND} floor of Kamalnayan bajaj research centre, vision research foundation, NO.41/18, College ROAD, CHENNAI – 600 006. THE AGENDA FOR THE MEETING IS GIVEN BELOW:

<u>AGENDA</u>

- 1. To consider and adopt the Annual Report of the Hon. Secretary for the year 2014-15.
- 2. To consider and adopt the Audited Income and Expenditure Account for the year ended March 31, 2015 and the Balance Sheet as at that date together with the Report of the Auditors thereon.
- 3. To appoint statutory auditors for the financial year 2015–16 and to fix their remuneration.
- 4. To appoint the following Members to the Board of Management in the vacancies caused by their retirement, who are eligible for re-appointment.

Name

Category of Membership

Mr. R S Falor Mr. Homi C H Bhabha Donor Member Donor Member

Kindly make it convenient to attend the meeting.

DR TARUN SHARMA HONY. SECRETARY

Note:

Explanatory statement for Item 4 of the Agenda is attached.



Explanatory Statement

Refer Item No 4 of the Agenda

The following members were appointed to the Board of Management for a period of three years at the 28^{th} Annual General Meeting held on 27^{th} September 2012 :-

Name

Mr. R S Falor Mr. Homi C H Bhabha

Their term of appointment expires at the end of the Annual General Meeting on 25.09.2015. As per 16(xiv) of the Bye-laws of the Foundation read with Section 15 (5) of the Tamil Nadu Societies Registration Act 1975, they are eligible for reappointment to the Board of Management.



BOARD OF MANAGEMENT

Dr. Lingam Gopal	President
Dr Tarun Sharma	Honorary Secretary
Mr. R S Falor	Honorary Treasurer

Members of the Board

Member
Member

Administrative Committee

Dr. S. S. Badrinath (Chairman of Committee)
Mr. G. Ramachandran
Mr. Sugal Chand Jain
Mr. R. S. Falor
Dr. Tarun Sharma
Dr. S. Bhaskaran
Dr. T. S. Surendran
Dr. Pramod Bhende
Dr. K. S. Vasan (and in his absence Ms. Akila)

Chief Operating Officer Advisor Director – Research Deputy Director – Research Senior General Manager Deputy General Manager Manager

Auditors

Bankers

Registered Office

Dr. K. S. Vasan Dr. Rama Rajaram Dr. Ronnie Jacob George Dr. S Krishnakumar Mrs. Akila Ganesan Mrs. G Susila Mr. S Narayan

M/s S Viswanathan Chartered Accountants, Chennai

HDFC Bank, Chennai – 600 034 State Bank of India, Chennai –600 034 Indian Overseas Bank, Chennai – 600 006

New No.41, Old No.18, College Road Chennai – 600 006



ETHICS SUB-COMMITTEE MEMBERS

Justice Mohan S. Dr. Tarun Sharma Dr. T Santha Devi Dr. Bakulesh M. Khamar Dr. Manjula Dutta Dr. Ronnie Jacob George Prof. H N Madhavan Dr. S Krishnakumar Dr. Lingam Gopal Dr. T S Surendran Prof. N Vizheenathan Mrs. Radhika Krishnan Lion G V Raman Dr. Rama Shankar Verma Mrs. Sujatha Viswanath

RESEARCH SUB-COMMITTEE MEMBERS

Dr. Ronnie Jacob George Dr. Lingam Gopal Dr. Tarun Sharma Dr. J. Biswas Dr. S Krishnakumar Dr. T Santha Devi Prof. H N Madhavan Dr. Rama Shankar Verma

RESEARCH CELL COMMITTEE MEMBERS

Dr. Ronnie Jacob George Dr. Lingam Gopal Dr. Tarun Sharma Dr. H N Madhavan Dr. L Vijaya Dr. S Krishnakumar Dr. Sumita Agarkar Dr. J Biswas Dr. R R Sudhir Dr. Vikas Khetan Dr. Kalpathy R K Easwaran Dr. Prema Padmanabhan Dr. N Angayarkanni



STEM CELL RESEARCH ETHIC SUB COMMITTEE

Prof. Dr. Rama Shankar Verma Dr. Tarun Sharma Dr. H.N. Madhavan Mrs. Radhika Krishnan Dr. S Arumugam Prof. N. Veezhinathan Lion G V Raman Dr. N Pandiyan Dr. Ronnie George Dr. Rama Rajaram Dr. Rosy Vennila

INSTITUTIONAL BIOLOGICAL SAFETY COMMITTEE

Dr. H.N. Madhavan Dr. Gunasekar Dr. M Natarajan Mr. S Narayan Dr. S Krishnakumar



ANNUAL REPORT FOR THE YEAR 2014–15

Report of the Honorary Secretary to the Members of the Foundation

It gives me great pleasure to welcome you all to this 31st Annual General Meeting of our Foundation. I am pleased to present the Thirty First Annual report of the Vision Research Foundation. The thirtieth Annual General Meeting of the Foundation was held on 29th September 2014 in which the Annual Report and the Audited Accounts of the Foundation for the financial year ended 31st March 2014 were approved by the members and M/s. S Viswanathan, Chartered Accountants, were re-appointed as Auditors for the financial year 2014-15.

I am glad to inform you that our application for renewal of Vision Research Foundation as a Scientific Institution has been approved by the Department of Scientific & Industrial Research (DSIR), New Delhi and granted recognition as a Scientific Institution for a further period of three years from 1st Apr 2015 to 31st Mar 2018.

The donations received during the year under report were Rs.791.64 lakhs as compared to Rs.642.40 lakhs in the previous year. The gross total income for the year under review was Rs.1309.96 lakhs including research grants and interest on deposits. The total expenditure before providing depreciation was Rs.855.25 lakhs resulting in a cash surplus of Rs.454.71 lakhs. After considering depreciation for the year, there was a net surplus of Rs.186.72 lakhs, which was carried over to the capital fund account.

It was decided to condemn the equipments purchased prior to March 2010, which were technologically obsolete during the financial year ended 31st March 2015. The book value of the condemned assets as on 31st March 2015 was Rs.95.54 lakhs. The foundation received a sum of Rs.41.93 lakhs on sale of the condemned assets and net loss on condemned assets, after adjusting Rs.41.93 lakhs was Rs.53.61 lakhs.

Summary of Source and applications are as follows:



Sou	rces	Rupees in Lakh
1.	Cash Surplus	454.71
		454.71
Арр	lications of Funds	
1.	Increase in Fixed Assets	92.64
2.	Increase in Net Current Assets	362.07
		454.71

The foundation has received a sum of Rs.434.78 lakhs as research grants during the year under review as per the details given below :

	Rs. in Lakhs	
Research Grants – Basic Science	2014-15	2013-14
1. Council of Science & Industrial Research	29.18	21.10
2. Indian Council of Medical Research	74.48	125.94
3. Department of Biotechnology	204.69	137.73
4. Department of Science & Technology	30.89	47.05
5. Department of Atomic Energy	0.65	31.03
6. Life Sciences Research Board	6.40	11.30
7. National Programme on Micro & Smart Systems	2.29	7.24
8. Sumatichandra Mehta Charitable Trust	.00	0.14
9. Chect Foundation	11.21	0.09
10. Chennai Willingdon Corporate Foundation	22.83	31.15
Total	382.62	412.77
Clinical Science		
11. Allergan Pharmaceuticals Dev. Center (I) P. Ltd	0.21	0.65
12. Chiltern International Pvt. Ltd.	2.70	.00
13. Clinworld Pvt. Ltd.	0.30	.00
14. Excel Life Sciences Pvt. Ltd.	2.51	6.13
15. GVK Biosciences Pvt Ltd	.00	1.64
16. Indiana University	0.12	.00
17. Johnson & Johnson	30.48	86.73
18. Manipal Acunova Ltd.	0.30	.00
19. Novartis India Ltd	11.32	2.68
20. Quintiles Ltd	2.50	1.69
21. University of Pennsylvania	1.72	1.73
Total	52.16	101.25
Grand Total	434.78	514.02



Research Activities:

Research activities during the financial year were satisfying and encouraging. A large number of projects were submitted to the Department of Science and Technology, Department of Bio-Technology, Council of Scientific and Industrial Research and Indian Council of Medical Research.

The projects which were under consideration by these Govt. agencies as on date are as under:

Title of the Project	Funding Agency	Grant Amount for 2015-16 (Value in Rs.)
Design and Development of Novel Anti- Angiogenic molecules by targeting polysaccharide binding domain of Carbonic Anhydrase IX through structural bioinformatics methods and studies on Cell Culture Methods (P.I.: Dr. V Uma Shankar)	Indian Council of Medical Research	11,97,000
In silco drug target identification in Chlamydial species through systems biology and molecular modeling approaches pertaining to the development of potential drug molecules(P.I.: Dr. V Uma Shankar)	Dept. of Science & Technology	10,02,200
Genome wide association studies for Pharmacogenomics of steroid response in Eye (P.1: Dr. Srujana Chitipothu)	Indian Council of Medical Research	17,33,000
Regulation of LOX expression in Lens epithelial cells and trabecular endothelium (P.I.: Dr. N Angayarkanni)	Indian Council of Medical Research	12,78,024
To elucidate the role of Cystathionine beta synthase enzyme and hydrogen sulphide in retinal cells exposed to thiol compounds (P.I.: Dr. S R Bharathi Devi)	Dept. of Biotechnology	15,38,200
Proteomic analysis of Eales' disease: A biomarker identification(P.I.: Dr. J Biswas)	Indian Council of Medical Research	13,63,300
Identification of PIWI proteins/piRNA in human ocular tissues and dissecting their role in Diabetic Retinopathy (DR) (P.I.: Dr. A J Pandian)	Indian Council of Medical Research	16,49,750
Whole exome sequencing in Leber congenital amaurosis to identify novel gene(s) (P.I.: Dr. N Soumittra)	Dept. of Biotechnology	16,65,000
Exosomal miRNA as Biomarkers of early and late stage retinoblastoma (P.I.: Dr. S. Krishnakumar)	Dept. of Biotechnology	21,12,800
miRNA clusters in retinal cytokine producing glia which control inflammation during HIV1 Tat exposure: implications for immune recovery uveitis. (P.I.: Dr. Nivedita Chatterjee)	Dept. of Biotechnology	21,83,600
Investigating the effects of HIV-1 proteins in retinal blood brain barrier degeneration (P.I.: Dr. Nivedita Chatterjee)	Dept. of Biotechnology	29,83,800



Assessment of critical EpCAM mediated oncogenic signals in retinoblastoma: To valuable candidate for therapeutic intervention (P.I.: Dr. S. Krishnakumar)	Indian Council of Medical Research	12,00,000
Toxin-Antitoxin based targeting of retinoblastoma (P.I.: Dr. S. Krishnakumar)	Indian Council of Medical Research	28,99,000

During the year, five meetings of the Board of Management were held and Research & Ethics Sub-Committees met four times.

Manpower Details :-

Manpower	As on <u>31st Mar 2015</u>	As on <u>31st Mar 2014</u>
President	01	01
Directors	06	05
Advisor-Projects	01	01
Deputy Director	01	01
Head of the Department	03	03
Manager	01	01
Senior Research Fellows	17	18
Junior Research Fellows	05	11
Research / Project / Technical Asst	04	05
Research Associate	00	01
Lab Technician	00	01
Principal Scientist / Associate Professor	05	00
Senior Scientists	00	02
Senior Scientist / Assistant Professor	04	00
Scientists	01	00
Junior Scientists	10	08
Executives / Staff / Technicians	17	22
Professor	01	01
Lecturers	00	02
Readers	00	03
Post Doctoral Fellow	00	05
Research Coordinator	00	01
Asst. Professor	00	01
Bio-statistician	01	01
Part Time Scientists	90	58
Total	168	152



Conclusion:

I would like to take this opportunity to place on record my gratitude for all the guidance extended to me by Dr.Lingam Gopal, President; Mr. R S Falor, Hon. Treasurer; Emeritus Dr S S Badrinath, President & Chairman, Medical Research Foundation; Dr. Kris S. Vasan, Chief Operating Officer, Dr. Ronnie Jacob George, Director of Research and Dr. S Krishnakumar, Deputy Director of Research.

I would also like to place on record the resignation of the then President, Mr. R Rajagopal in December 2014 and his invaluable support to the foundation by way of donations, supporting various projects of the Foundation.

Dr. Lingam Gopal was then elected as the President of the Foundation in December 2014.

I would like to mention that the achievements and awards received by the scientists, details of completed projects and ongoing projects, conferences attended and the articles published in the national and internation journals are given separately.

My thanks are also due to the Auditors, M/s. S Viswanathan particularly to their partner Mr. Chella K Srinivasan for their active and invaluable support and our Bankers, HDFC Bank and State Bank of India for their support and co-operation.

I also thank the Internal Auditors, M/s. Sundar, Ranganath & Srinivasan, Chartered Accountants, for their active support in conducting internal audit of the Foundation.

Mr. S Narayan, Manager, played an active role in managing the finance and administrative activities of the Foundation. I thank him for his help and assistance. I also wish to thank Mr. N Sivakumar for his support, especially in completing the income tax assessment of the foundation upto the financial year ended 31st March 2012.

The Board of Management place on record their appreciation of the invaluable contribution made by the Research Scientists, Consultants, para-medics and other employees to the continued success of the institution.

Dr Tarun Sharma, MD, FRCSEd, MBA Hony. Secretary Vision Research Foundation



HONOURS & AWARDS

- Dr S S Badrinath and Dr Vasanthi Badrinath were felicitated at the meeting of the Advanced Vitreo Retinal Techniques and Technology 2014 (AVRT 2014), Ahmedabad for their valuable contributions to the development of "Retina Vitreous Specialty" in India and projecting the capabilities in the international arena.
- In its pursuit of excellence, Jagadguru Kanchi Sri Chandrasekarendra Nethra Nilayam, was awarded India's most coveted "Accreditation for Hospitals and Health Care Providers" by National Board of Accreditation for Hospitals (NABH).
- NABH recognition was renewed for Sankara Nethralaya for its outstanding compliance with the stringent national and international standards aimed towards patient safety and delivery of Quality Health Care.
- Dr. V. Umashankar was selected as a Member, Board of Studies for Bioinformatics, University of Madras, 2014.
- Sankara Nethralaya Referral Laboratory is the first private laboratory in Chennai to be recognized by Revised National Tuberculosis Control Programme (RNTCP) for performing TB culture and first line Drug susceptibility testing under Central TB Division, Government of India.
- Dr L Vijaya was selected as the Associate Editor of the BMC Ophthalmology Journal.
- Dr. Ronnie George was elected as the Member of Editorial Board, Asia Pacific Journal of Ophthalmology.
- Dr. Abhilasha Maheshwari, won the "Divya Chaturvedi Gold Medal Award' for the outstanding performance on the paper "Sub-speciality of uveitis and inflammatory diseases", in the Diplomate National Board of Examination held in April 2014
- Dr. C. Subbulakshmi was awarded the Travel grant from the Association for Research in Vision and Ophthalmology for attending the ARVO Conference, USA held on 6th May 14.
- Dr. Rajeswari Mahadevan received the International Association of Contact Lens Educators award of the year for the Asia pacific region at the 'British Contact Lens Association Clinical Conference & Exhibition at Birmingham, UK on 7th June 2014.
- Ms. A V Saijyothi was awarded the Ph.D. degree at BITS, Pilani on 11th June 2014 for the thesis entitled, "Proteomic profiling of tear fluid for potential biomarker discovery in Dry Eye Syndrome".
- The Fellow of the Royal College of Surgeons (FRCS) conducted its FRCS-Ophthalmology examinations in the country after a gap of 10 years and chose Sankara Nethralaya, Chennai as its preferred centre for conducting its examinations in India.



- Dr Pukhraj Rishi received the "Nataraj Pillai Best Free Paper Award 2014" in Sankara Nethralaya Alumni Silver Jubilee Meet held from 12th to 13th July 2014.
- Dr T S Surendran received the prestigious "Dr S.S. Badrinath Medal of Honor" for the year 2015, in recognition of his outstanding contribution to the field of Ophthalmology at the Tamil Nadu Ophthalmic Association -TNOA Conference, held at Madurai on 24th July 2014.
- Mr. N Murugan was awarded Travel fellowship for attending the IERG-ARVO Conference held at Hyderabad from 26th to 27th July 2014.
- Ms. A R Rajalakshmi was awarded Travel fellowship for attending the IERG–ARVO Conference held at Hyderabad from 26th to 27th July 2014.
- All India Management Association (AIMA), the apex body for Management Professionals, honoured Dr. S. S. Badrinath with the title 'Outstanding Institution Builder' in its highly prestigious 'Managing India Awards'- 2014 on 6th August 2014 at New Delhi.
- Dr. Bipasha Mukherjee received the Best Paper Award for "Efficacy of oral propranolol in periocular capillary hemangiomas of infancy" in the Tamil Nadu Ophthalmic Association Conference (TNOA) held at Coimbatore from 08th to 10th August 2014.
- Dr Geetha Iyer was listed as a "Distinguished Surgeon" in the Boston K Pro Magazine in recognition of her stupendous efforts.
- The Terry Fox Foundation of Canada conducts the 'Terry Fox Run- A Marathon of Hope' the world over to raise funds for cancer research and treatment. This august body chose Sankara Nethralaya as the beneficiary of its assistance for the year 2014.
- Dr. Rathini Lillian David received the "Best Paper Award" for the paper entitled "Trans Laminar Cribrosa pressure difference and glaucoma in a population based study" at the 24th Annual Conference of the Glaucoma Society of India held at Bhubaneswar from 12th to 14th September 2014.
- Dr S Sudharshan received the "Eye Health Leader Award 2014" for the recently developed Mobile Eye Surgical Unit (MESU) at the International Agency for the Prevention of Blindness (IAPB) Conference held at Paris between 19th and 23rd September 2014.
- Ms. D. Sudha received the Swarnalatha Punshi Award for Best Research in Basic Science for the year 2014 at the 26th Graduation Ceremony of Sankara Nethralaya held at Sri. V.D. Swami Auditorium on 3rd October 2014.
- Dr. M Sowmiya received the Prof. S. Krishnamoorthy Rao Gold Medal for the year 2014, for the Outstanding Ph.D Student Award at the 26th Graduation Ceremony of Sankara Nethralaya held at Sri. V.D. Swami Auditorium on 3rd October 2014.



- Ms. M. K. Janani received the Young Woman Scientist Award in memory of Smt. Sreerangamma N. Narayan and Smt. Radhamani N. Anantha for the year 2014 at the 26th Graduation Ceremony of Sankara Nethralaya held at Sri. V.D. Swami Auditorium on 3rd October 2014.
- Dr. K. Lily Therese received a medal for the Best Published Paper in Bacteriology entitled "Diagnostic appraisal of simultaneous application of two nested PCRs targeting MPB64 gene and IS6110 region for rapid detection of M. tuberculosis genome in culture proven clinical specimens" in the Indian Journal of Medical Microbiology for the year 2013, presented at the IAMM National Conference conducted at Jaipur from 17th to 19th October 2014.
- The highly prestigious "The Week-Nielsen" survey declared Sankara Nethralaya as the "Best Hospital in Ophthalmology" once again. The survey was conducted on stringent quality measures by experts, covering 15 cities from September to October 2014.
- Dr. S. Krishnakumar received the "10 years of Academic Partnership" Award on behalf of Sankara Nethralaya, from its Collaborative research partner Deakin University, Australia, on 9th November 2014, at New Delhi.
- Ms. M Sukanya received Best Poster award for "Spectroscopic characterization of G quadruplex structures in microRNA promoter region" in RSC Symposium Series held at IIT Madras in November 2014.
- Ms. Sarika Gopalakrishnan was honoured as a 'Fellow of the American Academy of Optometry' at the AAO Meeting 2014 held at Denver, USA from 12th to 15th November 2014. She received the prestigious award from Dr. Brett G. Bence, President, AAO.
- Ms. Jameel Rizwana received The Vision Care Institute's Student Travel Grant Award at the AAO Meeting 2014 held at Denver, USA from 12th to 15th November 2014.
- Dr Rupak Roy received the "Best Poster Award" for "Retinal detachment (RD) in Morning Glory Syndrome (MGS): Providing proof of concept", at the 45th Annual Conference of Ophthalmology Society of West Bengal held at Kolkata on 20th & 21st November 2014.
- Dr. S. S. Badrinath was honored with the "Life Time Achievement Award" at the Conference of Vitreo Retina Society of India (VRSI) held between 5th and 7th December 2014 at Agra.
- Dr. Parveen Sen received the Best Poster Award for "Treatment outcomes of reduced fluence photodynamic therapy with Intravitreal anti-vascular endothelial growth factor in Polypoidal choroidal vasculopa", at the Conference of Vitreo Retina Society of India (VRSI) held from 5th to 7th December 2014 at Agra.
- Dr. T. S. Surendran was honoured with the "Life Time Achievement Award" by the Strabismus & Pediatric Ophthalmic Society of India at the Annual Conference held on 14th December 2014 at Pushkar, Rajasthan.



- Dr. S Meenakshi received Prof. AK Khurana Award for the Best Publication of 2014 for the paper entitled "Results of Bilateral Medial Rectus Recession for Comitant Esotropia in Patients with Developmental Delay" at the Annual Conference of Strabismus and Pediatric Ophthalmology Society of India, held at Pushkar, Rajasthan on 14th December 2014.
- Dr L Vijaya received the LC Dutta Award 2015 for Best Publication in Ophthalmology at the All India Ophthalmic Society (AIOS) Conference at New Delhi held from 4th to 7th February 2015.
- Dr. Rajiv Raman received the Silver Award for the Best Paper entitled "Foveal slope measurements in subjects with high risk of age related macular degeneration" at the 73rd Annual Conference of All India Ophthalmological Society (AIOS) held at New Delhi from 3rd to 8th February 2015.
- Dr. Jyotirmay Biswas was awarded the "The best paper read at the UVEA session" for the paper entitled "Polymerase chain reaction of intraocular fluid for mycobacterium tuberculosis (MTB)" at the 73rd Annual Conference of All India Ophthalmological Society (AIOS) held at New Delhi from 3rd to 8th February 2015.
- Dr S.Ambika was awarded the "D. Athawale Award" for the paper entitled "Diffusion weighted imaging - A predictor of visual outcome in acute optic neuritis" at the 73rd Annual Conference of All India Ophthalmological Society (AIOS) held at New Delhi from 3rd to 8th February 2015.
- Dr. Nishat Bansal received the E.T Selvam Award for Best Poster presented on "Peripheral Polypoidal Choroidal Vasculopathy – A case series" at the 73rd Annual Conference of All India Ophthalmological Society (AIOS) held at New Delhi from 3rd to 8th February 2015.
- Dr. S. Ambika received the Best Poster Award at the ICTRIMS-2015 Seminar held under the aegis of the Indian Academy of Neurology and the Madras Neuro Trust on the 14th and 15th of February 2015.



RESEARCH PUBLICATIONS

PUBLISHED:

- Bhargava S, Choudhari NS, Vijaya L. Intra-bleb hematoma and hyphema following digital ocular compression. *Oman Journal of Ophthalmology*. Jan 2014; 7(1):22-24.
- Deepmala Mazumdar, JJ M Pel, Manish Panday, Rashima Asokan, L Vijaya, B Shantha, Ronnie George, J van der Steen. Comparison of saccadic reaction time between normal and glaucoma using an eye movement perimeter. *Indian Journal of Ophthalmology*. January 2014; 62(1):55-59.
- Sharmila F, Abinayapriya, Ramprabhu K, Kumaramanickavel G, R R Sudhir, Sripriya S. Genetic analysis of axial length genes in high grade myopia from Indian population. *Meta Gene*. February 2014;2:164-175.
- Gella L, Nittala MG, Raman R. Retinal sensitivity in healthy Indians using microperimeter. *Indian Journal of Ophthalmology*. March 2014;62(3):284-286.
- Iyer G, Srinivasan B, Agarwal S, Kamala Muralidharan S, Arumugam S. Comprehensive approach to ocular consequences of Stevens Johnson Syndrome - the aftermath of a systemic condition. *Graefe's Archive for Clinical and Experimental Ophthalmology*. March 2014;252(3):457-467.
- Surendran TS, Raman R. Teleophthalmology in Diabetic Retinopathy. Journal of Diabetes Science and Technology. March 2014;8(2):262-266.
- Balekudaru S, George R, Panday M, Singh M, Neog A, Lingam V. Prospective evaluation of early visual loss following glaucoma-filtering surgery in eyes with split fixation. *Journal of Glaucoma*. April 2014: 211-218.
- Gupta A, Raman R, Kulothungan V, Sharma T. Association of systemic and ocular risk factors with neurosensory retinal detachment in diabetic macular edema: a case-control study. *BMC Ophthalmology*. April 2014;14(1):47.
- Roy R, Panigrahi PK, Pal SS, Mukherjee A, Bhargava M. Post-traumatic Endophthalmitis Secondary to Keratomycosis Caused by Scedosporium apiospermum. *Ocular Immunology and Inflammation*. April 2014. PMID: 24724836
- Kuniyal L, Rishi E, Rishi P. Intraocular glass foreign body-Retained amiss! Oman Journal of Ophthalmology. Jan-Apr 2014;7(1):40-42.
- Iyer G, Srinivasan B, Agarwal S, Shanmugasundaram S, Rajan G. Structural & functional rehabilitation in eyes with lamina resorption following MOOKP--can the lamina be salvaged? *Graefe's Archive for Clinical and Experimental Ophthalmology*. May 2014; 252(5):781-790.
- Dhanurekha L, Umashankar V, Lily Therese, Gayathri R, Sridhar R, Madhavan HN, and Meenakshi N. Draft Genome Sequence of Multidrug-Resistant Mycobacterium tuberculosis Strain CWCFVRF MDRTB 670,



Isolated from the Sputum of a Patient from Chennai, India, with Clinically Suspected Tuberculosis. *Genome Announcements.* May 2014. 2(3): e00475-14.

- Choudhari NS, George R, Shantha B, Neog A, Tripathi S, Srinivasan B, Vijaya L. Ahmed glaucoma valve in eyes with preexisting episcleral encircling element. Indian *Journal of Ophthalmology*. May 2014 62(5):570-574.
- Radha Annamalai, Jyotirmay Biswas, Sudharshan S, Gayathri R, Lily Therese, Viswanathan S, Namitha Bhuvaneswari. Real time polymerase chain reaction (RT-PCR) for mycobacterium tuberculosis in serpiginous choroiditis- A study of 29 cases. *International Journal of Medical Research & Health Sciences*. May 2014; 3(3):530-534.
- Jasna JM, Anandbabu K, Bharathi SR, Angayarkanni N. Paraoxonase enzyme protects retinal pigment epithelium from chlorpyrifos insult. *PLoS One.* June 2014; 9(6):e101380.
- Lingam S, Beta M, Dendukuri D, Krishnakumar S. A focus on microfluidics and nanotechnology approaches for the ultra sensitive detection of microRNA. *MicroRNA* (Shāriqah, United Arab Emirates). June 2014; 3(1):18-28.
- Subramanian N, Sreemanthula JB, Balaji B, Kanwar JR, Biswas J, Krishnakumar S. A strain-promoted alkyne-azide cycloaddition (SPAAC) reaction of a novel EpCAM aptamer-fluorescent conjugate for imaging of cancer cells. *Chemical Communication (Cambridge)*. June 2014; 50(80):11810-11813.
- Roy R, Pal BP, Mathur G, Rao C, Das D, Biswas J. Acute retinal necrosis: clinical features, management and outcomes--a 10 year consecutive case series. *Ocular Immunology & Inflammation*. June 2014;22(3):170-174.
- Bhuvanasundar R, John A, Sulochana KN, Coral K, Deepa PR, Umashankar V. A molecular model of human Lysyl Oxidase (LOX) with optimal copper orientation in the catalytic cavity for induced fit docking studies with potential modulators. *Bioinformation.* July 2014; 10(7): 406-412.
- Lakshmipathy D, Vetrivel U, Ramasubban G, Kulandai LT, Madhavan HN, Sridhar R, Meenakshi N. Whole Genome Sequence of Polyresistant Mycobacterium tuberculosis CWCFVRF PRTB 19 Sputum Isolate from Chennai, India, Closely Clustering with East African Indian 5 Genogroup. Genome Announcements. July 2014;2(4).
- Vijaya L, Rashima A, Panday M, Choudhari NS, Ramesh SV, Lokapavani V, Boddupalli SD, Sunil GT, George R. Predictors for incidence of primary open-angle glaucoma in a South Indian population: the Chennai eye disease incidence study. *Ophthalmology*. July 2014; 121(7):1370-1376.
- Mohankumar A, Renganathan B, Karunakaran C, Chidambaram S, Konerirajapuram Natarajan S. Peptides derived from the copper-binding region of lysyl oxidase exhibit antiangiogeneic properties by inhibiting enzyme activity: an in vitro study. *Journal of Peptide Science*. July 2014; 20(11):837-849.



- Jeyalatha V, Malathi J, Padmanabhan P, Madhavan H. Apoptosis of Corneal Stromal Cells Induced by Telopeptides: An In vitro Study. *Ophthalmology Research*. August 2014; 2(6):440-447.
- Janani MK, Malathi J, Madhavan HN. A Correlative Study on Epstein Barr Virus Load Determined by Real Time Pcr With Cytokine Profiles in Pediatric Post Transplant Patients. *International Journal of Scientific Research*. Aug 2014; 3(8):413-416.
- Moses S, Jambulingam M, Madhavan HN. A pilot study on expression of toll like receptors (TLRs) in response to herpes simplex virus (HSV) infection in acute retinal pigment epithelial cells (ARPE) cells. *Journal Postgraduate Medicine.* August 2014 60(3):243-247.
- Mukherjee B1, Alam MS, Krishnakumar S. A rare case of bilateral orbital Castleman disease. *Informa Healthcare*. Aug; 33(4): 314-7.
- Venkatesan N, Deepa P, Vasudevan M, Khetan V, Reddy AM, Krishnakumar S. Integrated Analysis of Dysregulated miRNA-gene Expression in HMGA2silenced Retinoblastoma Cells. *Bioinformatics & Biology Insights*. September 2014;8:177-191.
- Mukherjee B, Adulkar N, Krishnakumar S, Biswas J. Orbital melanoma: Recurrence versus primary: A diagnostic dilemma. *Indian Journal of Cancer*. September 2014; 51(3):379-380.
- Revathy M, Therese KL, Bagyalakshmi R, Chandrasekar C, Kumar S, Madhavan HN. Application of real time polymerase chain reaction targeting kex 1 gene & its comparison with the conventional methods for rapid detection of Pneumocystis jirovecii in clinical specimens. *Indian Journal of Medical Research*. September 2014; 140(3): 406-413.
- Rajalakshmy AR, Malathi J, Madhavan HN, Srinivasan B, Iyer GK. Hepatitis C virus core and NS3 antigens induced conjunctival inflammation via tolllike receptor-mediated signaling. *Molecular Vision*. September 2014; 20: 1388-1397.
- Ramasubban G, Lakshmipathy D, Vetrivel U, Kulandai LT, Madhavan HN, Sridhar R, Meenakshi N. Whole-Genome Sequencing of Streptomycin-Resistant Mycobacterium tuberculosis Isolate VRFCWCF MRTB 180 Reveals Novel and Potential Mutations for Resistance. *Genome Announcments*. September 2014;2(5).
- Balarabe AH, Biswas J. Serpiginous choroiditis in a referral clinic in India: visual field changes and clinical correlates. *Ocular Immunolology & Inflammation*. October 2014; 22(5):379-383.
- Agarwal S, Angayarkanni N, Iyer G, Srinivasan B, Natarajan R, Charola S, Arumugam S, Padmanabhan P. Clinico-biochemical correlation of the effect of subconjunctival bevacizumab for corneal neovascularization. *Cornea*. October 2014; 33(10):1016-1021.
- Janani MK, Malathi J, Biswas J, Sridharan S, Madhavan HN. Genotypic Detection of Epstein Barr Virus from Clinically Suspected Viral Retinitis



Patients in a Tertiary Eye Care Centre, India. *Immunolology & Inflammation*. October 2014:1-8.

- Nair AG, Mukherjee B, Krishnakumar S, Biswas J, Mehta RA. Unilateral primary cutaneous amyloidosis of the eyelid masquerading as a chalazion. *Canadian Journal of Ophthalmology*. October 2014; 49(5):e112-e114.
- Bhavsar D, Subramanian K, Sethuraman S, Krishnan UM. EpCAM-targeted liposomal si-RNA delivery for treatment of epithelial cancer. *Drug Delivery*. Informa November 2014. 24:1-14.
- Kulandai LT, Lakshmipathy D, Ramasubban G, Vetrivel U, Madhavan HN, Rathinam S, Narasimhan M. Whole-Genome Sequencing and Mutation Analysis of Two Extensively Drug-Resistant Sputum Isolates of Mycobacterium tuberculosis (VRFCWCF XDRTB 232 and VRFCWCF XDRTB 1028) from Chennai, India. *Genome Announcements*. November 2014; 2(6):e01173-14.
- Rajalakshmy AR, Malathi J, Madhavan HN. HCV core and NS3 proteins mediate toll like receptor induced innate immune response in corneal epithelium. *Experimental Eye Research*. November 2014;128:117-128.
- Jyotirmay Biswas, Rajiv Raman, Deepak Bhojwani. Unilateral Punctate inner choroidopathy with choroidal neovascular membrane in a young male. *Indian Journal of Ophthalmology*. November 2014; 62(09): 949-950.
- Beta M, Khetan V, Chatterjee N, Suganeswari G, Rishi P, Biswas J, Krishnakumar S. EpCAM knockdown alters microRNA expression in retinoblastoma--functional implication of EpCAM regulated miRNA in tumor progression. *PLoS One*. December 2014; 9(12):e114800.
- Bhende M, Biswas J, Raman M, Bhende PS. Linguatula serrata in the anterior chamber of the eye. *Indian Journal of Ophthalmology*. December 2014; 62(12): 1159-1161.
- Roy R, Lobo A, Pal BP, Oliveira CM, Raman R, Sharma T. Automated diabetic retinopathy imaging in Indian eyes: a pilot study. *Indian Journal* of Ophthalmology. December 2014; 62(12):1121-1124.
- Sreenivasan S, Krishnakumar S. Synergistic Effect of Curcumin in Combination with Anticancer Agents in Human Retinoblastoma Cancer Cells Lines. Curr Eye Res. December 2014:1-13.
- Lakshmipathy D, Ramasubban G, Kulandai LT, Madhavan HN. Isolation of Mycobacterium massiliense from a corneal biopsy in India. *JMM Case Reports*. December 2014;1(4).
- Kanwar JR, Mahidhara G, Roy K, Sasidharan S, Krishnakumar S, Prasad N, Sehgal R, Kanwar RK. Fe-bLf nanoformulation targets survivin to kill colon cancer stem cells and maintains absorption of iron, calcium and zinc. *Nanomedicine (Lond)*. January 2015; 10(1):35-55.
- Bhende M, Appukuttan B, Rishi E. Epiretinal membrane removal in patients with Stargardt disease. Indian Journal of Ophthalmology. January 2015;63(1):66-68.



- Gomathy N, Sumantran VN, Shabna A, Sulochana KN. Tolerance of ARPE 19 cells to organophosphorus pesticide chlorpyrifos is limited to concentration and time of exposure. *Pesticide Biochemistry & Physiology*. January 2015; 117:24-30.
- Pauly M, Subramanian K, Anantharaman G, Anthony E. Pilomatrix carcinoma of the eyebrow. *Ophthalmic Plastic and Reconstructive Surgery*. January 2015 31(1):e9-e10.
- Rajalakshmy AR, Malathi J, Madhavan HN, Bhaskar S, Iyer GK. Patients with dry eye without hepatitis C virus infection possess the viral RNA in their tears. *Cornea.* January 2015;34(1):28-31.
- Gopinath K. Chatterjee N. Anandamide rescues retinal barrier properties in Müller glia through nitric oxide regulation. *Neuroscience*. January 2015; 284:536-45.
- Subramanian, Nithya, Jagat R. Kanwar, Prasannakumar Athalya, Narayanan Janakiraman, Vikas Khetan, Rupinder K. Kanwar, Sailaja Eluchuri, and Subramanian Krishnakumar. EpCAM aptamer mediated cancer cell specific delivery of EpCAM siRNA using polymeric nanocomplex. *Journal of Biomedical Science*. January 2015. 22:4.
- Madhavan HN, Bagyalakshmi R, Revathy M, Aarthi P, Malathi J. Optimisation and analysis of polymerase chain reaction based DNA sequencing for genotyping polyoma virus in renal transplant patients: a report from South India. *Indian Journal of Medical Microbiology*. February 2015; 33 Suppl: 37-42.
- Ambika S, Mahalakshmi B, Theresa L, Veeraputhiran Akila, Arjundas D. Aquaporin 4 antibody [NMO Ab] status in patients with severe optic neuritis in India. *International Ophthalmology*. February 2015. PMID: 25682013
- Subramanian N, Kanwar JR, Kanwar RK, Krishnakumar S. Blocking the maturation of OncomiRNAs using pri-miRNA-17~92 aptamer in retinoblastoma. Nucleic Acid Ther. February 2015;25(1):47-52.
- Srinivasan V, Sulochana KN. Effect of adiponectin on expression of vascular endothelial growth factor and pigment epithelium-derived factor: an in vitro study. *Indian Journal of Pharmacology*. February 2015; 47(1):117-120.
- Roy K, Kanwar RK, Krishnakumar S, Cheung CHA, Kanwar JR. Competitive inhibition of survivin using a cell-permeable recombinant protein induces cancer-specific apoptosis in colon cancer model. *International Journal of Nanomedicine.* February 2015; 10:1019-1043.
- Muthuvel B, Srinivasan V, Rishi P, Konerirajapuram SN. Increased Vitreous Heme Oxygenase Activity is Associated with Proliferative Diabetic Retinopathy. *Indian Journal of Clinical Biochemistry*. February 2015. DOI: 10.1007/s12291-015-0477-1.
- Srimany A, Jayashree B, Krishnakumar S, Elchuri S and Pradeep T. Identification of effective substrates for the direct analysis of lipids from cell lines using desorption electrospray ionization mass



spectrometry. *Rapid Communications in Mass Spectrometry.* February 2015. 29(4):349–356.

- John A, Umashankar V, Krishnakumar S, Deepa PR. Comparative Modeling and Molecular Dynamics Simulation of Substrate Binding in Human Fatty Acid Synthase: Enoyl Reductase and β-Ketoacyl Reductase Catalytic Domains. *Genomics Inform*. March 2015; 13(1):15-24.
- Bhavsar D, Subramanian K, Sethuraman S, Krishnan UM. Management of retinoblastoma: opportunities and challenges. *Drug Delivery*. 2015 March 11: 1-9.
- Subramanian N, Kanwar JR, Akilandeswari B, Kanwar RK, Khetan V, Krishnakumar S. Chimeric nucleolin aptamer with survivin DNAzyme for cancer cell targeted delivery. *Chemical Communications (Cambridge)*. March 2015; 51(32):6940-6943.
- Roy K, Kanwar RK, Antonio Cheung CH, et al. Locked nucleic acid modified bi-specific aptamer-targeted nanoparticles carrying survivin antagonist towards effective colon cancer therapy. *RSC Advances*. March 2015; 5(37):29008-29016.
- Sivasankar S, Lavanya R, Brindha P, Angayarkanni N. Aqueous and alcoholic extracts of Triphala and their active compounds chebulagic acid and chebulinic acid prevented epithelial to mesenchymal transition in retinal pigment epithelial cells, by inhibiting SMAD-3 phosphorylation. *PLoS One.* March 2015; 10(3):e0120512.
- Ramasubban G, Therese KL, Lakshmipathy D, Sridhar R, Meenakshi N, Madhavan HN. Detection of novel and reported mutations in the rpoB, katG and inhA genes in multidrug-resistant tuberculosis isolates: A hospital-based study. *Journal of Global Antimicrobial Resistance*. March 2015; 3(1):1-4.
- Philomenadin FS, Asokan R, N V, George R, Lingam V, Sarangapani S. 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*. March 2015; 10(3):e0119703.

ACCEPTED FOR PUBLICATION:

- Kanwar JR, Roy K, Maremanda NG, et al. Nucleic Acid-Based Aptamers: Applications, Development and Clinical Trials. Current Medicinal Chemistry.
- Li Z, Allingham RR, Nakano M, Ronnie George, et al. A common variant near TGFBR3 is associated with primary open angle glaucoma. Human Molecular Genetics.
- Murugan N, Malathi J, Therese KL, Madhavan HN. Antimicrobial susceptibility and prevalence of extended spectrum betalactamase (esbl) and metallo betalactamase (mbl) and its co-existence among pseudomonas aeruginosa recovered from ocular infections. International Journal of Pharmacy and Pharmaceutical Sciences.



- Rajalakshmy AR, Malathi J, Madhavan HN. Hepatitis C Virus NS3 Mediated Microglial Inflammation via TLR2/TLR6 MyD88/NF-κB Pathway and Toll Like Receptor Ligand Treatment Furnished Immune Tolerance. *PLoS One.*
- Singh N, Krishnakumar S, Kanwar RK, Cheung CHA, Kanwar JR. Clinical aspects for survivin: a crucial molecule for targeting drug-resistant cancers. *Drug Discov Today*.
- Vijaya L, David RL. Safety and Efficacy of Single-site Phacotrabeculectomy With Mitomicin C Using Nylon and Polyglactin Suture for Scleral Tunnel Closure. *Journal of Glaucoma*.
- Ayilam R R, J Malathi, Madhavan H N Mebiolgel, A Thermo reversible polymer as a scaffold for three dimensional culture of Huh 7 cell line with improved hepatocytic differentiation marker expression and HCV replication. Indian Journal of Medical Microbiology.
- Madhuravasal Krishnan Janani, Jambulingam Malathi, Andal A, Nishi Rani Sinha, Hajib N Madhavan. Molecular diagnosis of Epstein Barr virus in suspected Infectious Mononucleosis pediatric patients – A pilot study in hospital based Indian population. *Journal of infectious Diseases in Developing Countries*. March. 2015
- Gopinath K. Chatterjee N. Differential immune mechanism of HIV1 Tat variants and its regulation by AEA. Nature Scientific Reports. March 2015
- Murali Sowmiya, Jambulingam Malathi, Sen Swarnali, Jeyavel Padma Priya, Kulandai Lily Therese, Hajib N Madhavan. A hospital based study on the clinico - molecular characterization of Propionibacterium acnes isolated from ocular clinical specimens. *Indian Journal of Medical Research.*
- Sathya Priya C, Sen P, Sheela N, Sripriya S. Bardet-Biedl Syndrome: Genetics, molecular pathophysiology and Disease management. Indian Journal of Ophthalmology.
- M Bharathselvi M, Biswas S, Rajiv R, R Selvi, K Coral, N Angayarkanni, S Ramakrishnan, Sulochana KN. Homocysteine and its metabolite Homocysteine-Thiolactone and deficiency of copper in patients with Age Related Macular Degeneration. *Indian Journal of Medical Research.*
- Bharathidevii SR, Anand Babu K, Nishit J, Muthukumaran S, Umashankar V, Biswas J, Angayarkanni N. Ocular distribution of the Antioxidant enzyme Paraoxonase and its alteration in Cataractous Lens and Diabetic Retina. Indian Journal of Medical Research.
- Rupak R, Kumar S, Debmalya D Bilateral acute ophthalmic artery occlusion in a case of giant cell arteritis. Indian Journal of Medical Research.
- Rupak Roy, Kumar Saurabh, Muna P Bhende, Debmalya Das and Amit B Jain. Unusual peripapillary new vessels in eye with central serous chorioretinopathy. *Clinical and Experimental Optometry.*
- Shantha B. Outcomes of Ahmed glaucoma valve implantation in the management of pediatric glaucoma. *Journal of American Association for Pediatric Ophthalmology and Strabismus.*



- Bipasha M, Pummy R, Biswas J. Pilomatrix carcinoma of the eyelid. Krishnakumar S. Indian Journal of Cancer.
- Mukherjee B. A stitch in time. Journal of Ophthalmic Plastic and Reconstructive Surgery.

CHAPTERS IN BOOKS PUBLISHED:

- Vijaya L. "Glaucoma Care in South Asia" in Glaucoma 2nd Edition 2014. Edited by Tarek Shaarawy, Mark B Sherwood, Roger Hitchings and Jonathan G. Crowston by ELSEVIER.
- Ronnie George, A Parivadhini, A Narayanaswamy, L Vijaya. "Gonioscopy" in Diagnostic Procedures in Ophthalmology - JP Brothers, Medical Publishers Pvt Ltd. 2014. Page Nos.77-86.
- Rathini L David, Lingam Vijaya, Janvi Shah. "Management of Glaucoma Post Vitreoretinal Surgery" in ISGS Text Book of Glaucoma Surgery - JP Brothers, Medical Publishers Pvt Ltd. 2014. Page Nos.309-315
- Ronnie George. "Visual field interpretation" Glaucoma Evaluation Primer for AIOS 2014.



COMPLETED PROJECTS

- A Phase III, Multinational, Multicenter, Randomized, Double-Masked, Study Assessing the Safety and Efficacy of Intravitreal Injections of DE-109 (Three doses) for the Treatment of active, Non-Infections Uveitis of the Posterior Segment of the eye [Dr. J. Biswas]
- CR-5146: 1-month Daily wear Dispensing Clinical evaluation of Echo prototypes EC.0.2, EC.1.2 and EC.2.2 in a population of new and current contact lens wearers [Dr. M Rajeswari]
- Analysis of Trace Elements from donor eye balls with Age Related Macular Degeneration (ARMD) [Dr. K. Coral]
- Identification of interacting partners for Pigment epithelium derived factor (PEDF) in causing anti-angiogenesis [Dr. K. N. Sulochana]
- Screening of Age Related Macular Degeneration (AMD) for PON Polymorphism and its functional correlation at the levels of PON activity, OxLDL and Homocysteine in the blood. [Dr. N.Angayarkanni]
- To investigate the effect of Fatty Acid Synthease (FASN) siRNA in A FASN Expressing Cancer Cell Line [Dr.S.Krishana Kumar]
- Aptamer-toxin conjugates for imaging and dual targeting of (cancer stem cells) Tumor cells [Dr. J. Narayanan]
- Fabrication of PDMS based platform/Micro fluidics based microPCR for the detection of oncogenic miRNAs in retinoblastoma patients serum [Dr. J. Narayanan]
- Fabrication of MDm2 peptide conjugated Gold Nanoparticles for targeted therapy of Retinoblastoma [Dr.S.Krishana Kumar]
- A comprehensive analysis of microphthalmia and anaophthalmia candidate genes in Indian population [Dr. S. Sripriya]
- Molecular Genetic Profile of Congenital Stationary Night Blindness in India using arrayed primer extension technology (APEX) and direct sequencing to associate with disease phenotype [Dr. Praveen Sen]
- Fuch's Endothelial Corneal Dystrophy (FCD) Fine mapping and identifying candidate gene for the novel Loci 20p12.1- q13.2 in early onset family and study the association of TCF4 gene in sporadic late onset FCD cases in our population [Dr.N.Soumittra]
- Molecular diagnostics of LCA A chip based re-sequencing approach [Dr. N Soumittra]
- To Bio-engineer Self-assembled Collagen Fibres for Corneal Tissue Engineering [Dr. S Krishnakumar]



ONGOING PROJECTS

- Multicenter Phase II Study for International Intraocular Retinoblastoma Classification Groups B, C & D tumuors Treated with Carboplatin -Etoposide, Vincristine, and Cyclosporine - Focal Therapy Multimodality Protocol [Dr Vikas Khetan]
- A Multi-center, Controlled, Safety and Efficacy Study of a Fluocinolone Acetonide Intravitreal (FAI) Insert in Subjects with Chronic Non-Infectious Uveitis Affecting the Posterior Segment of the Eye [Dr. J. Biswas]
- Study to observe the effectiveness and safety of Lucentis through individualized patient treatment and Associated outcomes [Dr.Tarun Sharma]
- ✤ A Prospective, open label study to evaluate the Intraocular Pressure lowering effect of 0.15% w/v Forskolin solution in patients with Ocular hypertension or mild open angle glaucoma [Dr.Ronnie Jacob George]
- A 12-month, Phase IIIb, randomized, visual acuity assessor-masked, multicenter study assessing the efficacy and safety of ranibizumab 0.5mg in treat and extend regimen compared to monthly regimen, in patients with neovascular age-related macular degeneration [Dr. Muna Bhende]
- A 12-month, Phase III, randomized, double-masked, multicenter, activecontrolled study to evaluate the efficacy and safety of two individualized regimens of 0.5 mg ranibizumab vs. verteporfin PDT in patients with visual impairment due to choroidal neovascularization secondary to pathologic myopia (Brilliance) [Dr.Tarun Sharma]
- 2-Week dispensing cross-over evaluation of marketed silicone hydrogel contact lenses in an Indian population [Dr. M. Rajeswari]
- To train and develop infrastructure for Molecular Ophthalmic Pathology and Rapid Diagnosis of Ocular Infections in an Ophthalmic Institute in Assam [Dr. S. Krishnakumar]
- An in vitro study on the pathogenic role of Hepatitis C virus and its inflammatory response using human corneal and conjunctival cell line and a clinico molecular micro biological study on HCV associated with keratoconjunctivitis sicca and Sjogren's syndrome. [Dr. J. Malathi]
- Application of next generation sequencing technique to determine the whole Genome sequence of laboratory isolates of Pseudomonas aeruginosa (both sensitive and resistant strains) and application of bioinformatics approach to identify the vulnerable area of drug targets in the genome [Dr. J. Malathi]
- Effect of riboflavin/UVA in treating patients with infectious keratitis : A pilot study on human subjects [Dr. Prema Padmanabhan]
- An in-vitro study to understand the effect of different concentrations of lignocaine on the fibroblasts growth. [Dr. H. N. Madhavan]



- Biomarker pattern discovery of graded changes in the opacity of human lens in age-onset cataract: a proteomic approach [Dr. Ananthkumar Badrinath]
- Investigating the therapeutic potential of Lysyl Oxidase propeptide in angiogenesis and tumorogenesis [Dr. K. Coral]
- Regulation of SNARE exocytotic machinery under physiological and pathological conditions of Diabetes [Dr. C. Subbulakshmi]
- Contact lens wear induced changes in Keratoconus patients at the level of redox status [Dr. N. Angayarkanni]
- Understanding the effect of Adiponectin mediated signaling pathways on retinal degeneration using human retinal explant culture for designing efficient neuroprotective agent [Dr. C. Subbulakshmi]
- Anti-angiogenic potential of the plant derived polyphenols, Elagic, Gallic, Chebulagic and Chebilinic acids: an invitro study in retinal enodhtelial cells [Dr. N. Angayarkanni]
- Development of Anti-Fibrotic agents for potential use in the Glaucoma filtration surgery to prevent scar formation in cultured Human scleral Chondrocytes and Tenons Fibroblast [Dr. K Coral]
- Development of therapeutic molecules for diabetic retinopathy from studies on structure/function relationship of PON2 by cloning [Dr. S.R. Bharathi Devi]
- CTR1 (copper transporter 1) as atherapeutic target for angiogenesis; understanding its cellular and molecular signaling in retinal angiogenesis [Dr. S.R. Bharathi Devi]
- Peripheral Blood Gene Expression Profiling In Eales Disease [Dr. K Coral]
- Regulation of Lysyl oxidase expression in lens epithelial cells and trabecular endothelium [Dr. N. Angayarkanni]
- Development of modulators of ornithine decarboxylase (ODC) for the therapeutic application in Retinoblastoma. [Dr.V Umashankar]
- Molecular modeling and Docking simulation studies of functional domains of Toxoplasma.gondii RON-4, RON-2, and RON5 to understand the Moving Junction complex formation towards design of novel Peptide and Chemical inhibitors and validation through pilot invitro studies [Dr.V Umashankar]
- Molecular Analysis of ocular developmental anamolies in Indian population. [Dr S. Sripriya]
- Mutation Characterization Of Genes Frequently Implicated In BBS Patients From India [Dr. S. Sripriya]
- Confirmation of novel and reported mutations identified in Leber Congenital Amaurosis (LCA) families and an autosomal recessive retinitis pigmentosa (arRP) family by control screening and also to identify the causative gene/mutation in an arRP family [Dr. N Soumittra]



- Intervention of ciliopathy genes in the molecular pathology of BBS in Indian population [Dr. S. Sripriya]
- Proteomics based Identification and Validation of urinary biomarkers for Age-related Macular Degeneration [Dr. J Biswas]
- MiRNA in Retinoblastoma progression, biomarkers and novel AptamermiRNA therapeutics [Dr. S. Krishnakumar]
- To investigate the role of tumor microenvironment in RB progression [Dr. S. Krishnakumar]
- Identification of potential molecular inhibitors of all catalytic domains of Fatty Acid Synthase (FASN) at the enzyme activity and gene expression level [Dr. P.R. Deepa]
- To investigate the cross-talk between oxidative stress and cellular methylation processes and dissect the functional role of epigenetically silenced gene in RB [Dr. J. Biswas]
- Proteomics and phosphoproteomics by Mass Spectrometry and Flow Cytometry in Retinoblastoma [Dr. Sailaja Elchuri]
- Locked nucleic acid modified aptamer-siRNA chimeric conjugates for improved chemosensitivity and eradication of cancer stem cells [Dr. S. Krishnakumar]
- To engineer a Aptamer siRNA chimeric conjugates for targeting epithelial cancers [Dr. Sailaja Elchuri]
- Differentiation and Characterization of Dental Pulp Cells to Corneal Epithelial Cells [Dr. S. Krishnakumar]
- Use of Aptamer to increase the efficacy of HMGA2 targeted therapy in Retinoblastoma [Dr. S. Krishnakumar]



PARTICIPATION IN THE CONFERENCE

Dr. Biswas J, Dr. Vijaya L, Dr. Meeenakshi S, Dr Sudharshan S, Dr Mamta Agarwal, Dr Kavitha Kalaivani N and Dr Bipasha Mukherjee attended the World Ophthalmology Congress held at Tokyo from 2nd to 6th April 2014.

Dr Biswas J made presentations on "Fast Track Publishing", "Molecular diagnostic in ocular inflammatory diseases" and "Ocular Tuberculosis in AIDS". Dr. L. Vijaya made a video presentation on "Management of leaking blebs".

Dr. S. Meeenakshi made oral presentations on "Pediatric eye care making a difference in affordable high quality health care", "Program evaluation crucial for programmatic improvement in the IJCAHPA session on Allied Health personnel training using internet resources". Dr Sudharshan S made presentations on "Ocular lesions in pediatric HIV patients in India" and "Cataract surgery in patients with HIV/AIDS".

Dr Mamta Agarwal made a poster presentation "Ocular Tuberculosis – A diagnosis challenge" and gave a video presentation "Live intraocular dirofilaria causing multifocal choroiditis". Dr Kavitha Kalaivani N made poster presentations on "Cataract surgery with primary intraocular lens implantation in children less than 2 years" & "Management of pediatric ocular tutor cranial nerve palsies" and gave a video presentation on "Surgical management of bilateral absent medial rectos muscle".

Dr Bipasha Mukherjee made oral presentations on "IC: principles & practice of digital photography in ophthalmology" & "Caratico-cavernous fistula: clinical features and management outcome" and poster presentation on "Self expanding orbital implants in the reconstruction of Anophthalmic sockets".

- Dr Sumita Agarkar and Dr Mamta Agarwal participated in the conference of the Delhi Ophthalmological Society at New Delhi, from 11th to 13th April 2014. They made presentations on "Exotropic Duane retraction syndrome" and "Clinical challenges in uveitis-infections/Immune related" respectively.
- Dr Pukhraj Rishi and Dr Geetha Iyer Krishnan attended conference of the Delhi Ophthalmological Society at New Delhi, from 11th to 13th April 2014. Dr Pukhraj Rishi gave a presentation on "Masquerade syndrome in ocular oncology" and Dr Geetha Iyer on "SJS Do's & Donts", "Innovations in corneal surgery", and "Keratoprosthesis: Hope of the Hopeless".
- Dr. H. N. Madhavan participated in the 5th Paramedical day celebrated at Mehta Hospital, Chennai, on 25th April 2014 and gave a guest lecture on "An overview on molecular diagnosis in infectious diseases".
- Dr. C. Subbulakshmi attended the ARVO Conference on 6th May 14, at USA and she made an oral presentation on "Expression of Piwi/piRNA in human ocular tissues: Role in maintaining functional integrity of retinal pigment epithelial cells and implication in proliferative diabetic retinopathy".



- Dr B Shantha made presentations on "Medical management of glaucoma" & "POAG: Diagnostic dilemmas" and Dr Ronnie George on "Imaging in Glaucoma: A practical approach", "Narrow angles: to treat or not to treat" and "Recent advances in the management (Update on glaucoma)" in the CME Meeting held at Mangalore on 11th May 2014.
- Dr Sheila John attended the American Telemedicine Conference 2014, held at Baltimore, USA, from 17th to 20th May 2014 and made presentations on "Making the case for tele-health: engaging leadership around the strategic value of tele-health" and "Teleophthalmology design Success Factors: A Global Perspective".
- Dr Shantha B and Dr Ronnie George participated in the Symposium organized by Allergan Company at Chennai on 23rd May 2014. Dr Shantha made a presentation on "Medical management of glaucoma" and Dr Ronnie George gave a talk on "Case presentation".
- Dr Sudhir R R participated in the meeting of Quality Assurance in Eye Care Delivery– Vision 2020, at West Bengal, on 24th & 25th May 2014 and gave presentations on "Information system for effective management, monitoring & evaluation" and "Organization process for quality improvement".
- Dr Shantha B attended the European Glaucoma Society Meet at France, from 7th to 11th June 2014 and she made a poster presentation "Outcomes of late laser suturelysis following trabeculectomy with adjunctive antimetabolites".
- Dr Bhaskar Srinivasan attended the meeting of Bombay Ophthalmic Association at Bombay, from 20th to 22nd June 2014 and made presentations on "Chemical injury – Adequate management", "Ocular surface diseases – Potpourri of cases", "SJS – comprehensive management" and "Keratoprosthesis: Different types, indications, results and complications".
- Dr Surendran T S and Dr Rajiv Raman participated in the 10th Annual Conference of "Vision 2020 : The Right to Sight – India" at Kerala on 5th & to 6th July 2014. Dr Surendran made oral presentations on "Overview of Pediatric Eye care in the country", & "Squint Advance Techniques" and Dr Rajiv Raman made a presentation on "Screening of retinal problems in various levels of health care".
- Dr N. Angayarkanni gave an invited talk on "Role of Clinical Proteomics in Metabolic Disorders and or Toxicology" at the National Seminar on 'Clinical Proteomics for Veterinary and Allied Sciences' on 19th July 2014 at Rajiv Gandhi Institute of Veterinary Education and Research, Pondicherry.
- Dr Rajiv Raman participated in the Retina Interest Group Meeting held at Chennai, on 21st July 2014 and gave an oral presentation on "Diabetic macular edema".
- Dr Rajiv Raman attended the National Task Force Meeting at All India Institute of Medical Science, New Delhi on 24th July-2014 and gave a talk on "Diabetic Retinopathy".



Dr Nivetita Chatterjee, Dr. A J Pandian, Ms. Bhavana Rao, Mr. N Murugan and Ms. A R Rajalakshmy participated in the IERG ARVO Conference on 26th to 27th July 2014 held at Hyderabad.

Dr Nivetita Chatterjee made an oral presentation on "Endocannabinoids regulate innate immune response in Mueller glia during HIV1 Tat cytotoxicity". Mr. Murugan made a poster presentation on "Novel Carbapenemase gene(s), Genomic Islands and Integrons among corneal button and Vitreous aspirate isolates of *Pseudomonas aeruginosa* deciphered by Next Generation Sequencing (NGS) leads a way to identify multifactorial causative genes for corneal virulence" and Ms. Rajalakshmy gave an oral presentation on "Direct association of dry eye and hepatitis C virus: HCV core and NS3 proteins mediate innate immune response".

Dr. Pandian delivered an invited talk titled, "Genetic engineering and Molecular characterization of RS1 gene and its mutants implicated in X-Linked Retinoschisis (XLRS)" and Ms. Bhavna presented a poster titled, "Association of CTG Trinucleotide Repeat Expansions and SNPs in the Intron of TCF4 Gene with Sporadic Late Onset FECD – An Indian Cohort Study".

- Dr S. Sripriya attended the CME Programme titled "Impact of Genetics in Medicine" conducted by the Centre for Human Genetics, Tamilnadu Association – India chapter, at Chennai on 9th August, 2014.
- Dr J. Biswas, Dr Surendran T S, Dr Sripriya Krishnamoorthy, Dr. Bipasha Mukherjee, Dr Sudha K Ganesh, Dr Manish Panday, Dr Chetan Rao, Dr Shantha B, Dr Bhaskar Srinivasan, Dr Sudhir R R, Dr Meena Lakshmipathy, Dr Kavitha Kalaivani N, Dr Sudharshan S, Dr Pukhraj Rishi and Dr Shikha Bassi attended the 62nd Annual Conference of Tamil Nadu Ophthalmic Association (TNOA), at Coimbatore, from 8th to 10th August 2014.

Dr Biswas made an oral presentation on "Tubercular uveitis an update" and a video presentation on "Who is in the vitreous cavity" and Dr Sripriya gave an oral presentation on "SWAP". Dr Surendran made oral presentations on "Nystagmus capsule" and "Midas touch in strabismus surgery". Dr. Bipasha Mukherjee made oral presentations on "Why I choose to be in oculoplasty" and "Iatrogenic orbital trauma in non-orbital surgeries".

Dr Sudha K Ganesh and Dr Chetan Rao made oral presentations on "Viral Uveitis" and "Autofluorescence". Dr Manish Panday made oral presentations on "IC: Automated Perimetry" and "Interpreting the single field printout". Dr Shantha gave presentations on "IC: Pitfalls in automated perimetry wand", "IC: Encapsulated bleb" and "IC: Shunts and Valves".

Dr Bhaskar Srinivasan made oral presentations on "IC: Keratoconus paradigm – shift in management", "Algorithmic approach to Management" and "Ocular surface disorders & The dilemma" and Dr Sudhir R R on "Collagen cross linkage and its variations - When, Why, How"; "Changing from paper records to electronic medical records - challenges and guidelines"; "Why to choose EMR and how to Implement" and "Advantages of EMR implementation".



Dr Meena Lakshmipathy made oral presentations on "Blunt injury post deep anterior lamellar keratoplasty: descemets resistance"; "Experience of temporary keratoprosthesis in therapeutic keratoplasty with vitreoretinal surgeries" and participated in the instruction course on DALK.

Dr Sudharshan made oral presentations on "IC: HIV and the eye"; "SOP's of immature cataract" and "Top 10 mistakes in Uveitis". Dr Pukhraj Rishi made oral presentations on "Macular Disorders" and "IC: Imaging in Ophthalmology: Ultrasound" and Dr Shikha Bassi made a presentation on "Facial dystonias".

- Dr Rajiv Raman visited Sreedhareeyam Ayurvedic Eye Hospital & Research Centre Pvt Ltd at Koothattukulam, Kerala on 09th to 10th August 2014. He gave a presentation on "Ayurveda and eye diseases".
- Dr Parveen Sen, Dr Pramod Bhende, Dr Aditya Verma and Dr Rupak Roy participated in the conference of American Society of Retina Specialists at San Diego, California from 9th to 13th August 2014.

Dr Parveen Sen made a poster presentation "Combined Argon Laser Photocoagulation & Antivascular Endothelial Growth Factor for Management of Macular Polypoidal Choroidal Vasculopathy". Dr Pramod Bhende made presentations on "Vitrectomy for myopic tractional maculopathy. Intraopertaive findings & short term outcome" & "Management of post trauma endophthalmitis" and a case presentation on "Suprachoroidal silicone oil injection – How to manage".

Dr Aditya Verma made poster presentations on "Partial reversal of color vision impairment with oxygen therapy in type II diabetes mellitus associated with obstructive sleep apnea" & "Multimodal retinal imaging in electrocution injury" and Dr Rupak Roy on "Endophthalmitis: Microbiological trends and drug sensitivity patterns".

- Dr Pukhraj Rishi participated in the Retinoblastoma National Stakeholders & Statement of Interest Meeting, at New Delhi on 30th August 2014.
- Dr. Rajiv Raman attended the meeting of Retina Update, at Chitrakoot, on 30th to 31st August 2014. He made presentations on "Scissor-less Diabetic Vitrectomy" and "RAP and PCV, How to diagnose and treat".
- Dr Muna Bhende, Dr Pradeep S, Dr Sudipta Das, Dr Suganeswari and Dr Suchetana Mukherjee, attended the EURETINA Conference 2014, at London from 11th to 17th September 2014.

Dr Sudipta Das made poster presentations on "Clinical profile of posterior scleritis in a tertiary eye centre in Southern India", "Clinical profile & outcome of patients with complicated uveitis undergoing pars plana vitrectomy" & "Microbiological trends & drug sensitivity patterns in endophthalmitis in Eastern India" and gave a video presentation on "23g vitrectomy & removal of bow shaped copper foreign body from the eye using bimanual techniques".



Dr. Muna Bhende made an oral presentation on "Effect of ocular magnification on measurements made with OCT" and poster presentation "Subretinal abscess due to reseomonas mucosa in endogenous endophthalmitis"; Dr Pradeep gave an oral presentation on "Vitreoretinal Perspective of Scleral Fixated IOLs a Case Series" and poster presentation on "Surgical Management of culture proven Non-Keratitic Nocordia Infection".

Dr Suganeswari made an oral presentation on "Endophthalmitis in Full Term Neonates presenting as the Diagnostic Feature of Septicemia" and a poster presentation "Intraocular infection masquerading as Retinoblastoma clinically and in Magnetic Resonance imaging - Diagnostic challenge". Dr Suchetana Mukherjee made a poster presentation on "Spectral domain optical coherence tomography (SD-OCT) predictors of visual outcome in patients with macular oedema (MO) due to branch retinal vein occlusion (BRVO) treated with intravitreal ranibizumab injections".

Dr Rama Rajagopal, Dr Radhika N and Dr. Mona Bhargava, attended the Eucornea Conference at London, from 11th to 17th September 2014. Dr Mona Bhargava made an oral presentation on "Application of Scheimpflug imaging system to facilitate RGP fitting in patients with corneal scar" and made posters on "To report a case with corneal tear and giant retinal tear following obstetrics delivery"; "Progression on conjunctival papilloma to carcinoma in 10 years follow up"; "Managing a case of scleral staphyloma with rhinosporidiosis using sclera patch graft with modified box sutures" & "To report successful management of extensive recurrent conjunctival papilloma".

Dr Rama Rajagopal made oral presentations on "Lamellar Vs Penetrating keratoplasty in stromal dystrophies. (Comparison)" and "Mucoepidermoid variant of Squamous cell carcinoma, Dr Radhika made a poster presentation "Results of using Corneal cross linking for bullous keratopathy (category: cornea – surgical)", and gave an oral presentation on "Results of epi-lasik (flap on & off) for treatment of low + moderate myopia (category: keratorefractive)".

- Dr Sudha K Ganesh and Dr Parthapratim Dutta Majumder attended the Annual Meeting of Uveitis Society of India, from 21th to 24th September 2014 at New Delhi. Dr Sudha K Ganesh made an oral presentation on "Tips on cataract surgery in uveitis", "Pediatric uveitis – Indian perspective", Dr Parthopratim Dutta M made an oral presentation on "Posterior scleritis", "Classification of uveitis".
- $\dot{\mathbf{v}}$ Dr Pramod S Bhende, Dr Biswas J and Dr Muna Bhende participated in the International Symposium on Ophthalmology at Hong Kong from 26th to 28th September 2014. Dr Pramod Bhende made oral presentations on "Management of retinal detachment in diabetic retinopathy" & "Management of paediatric RD". Dr Biswas made presentations on "Eye as of Tropical Diseases", "Masquerade syndrome" а Mirror & "Clinicopathological, microbiological and molecular biological correlation in Tubercular Uveitis." Dr. Muna Bhende made oral presentations on "Peripheral PCV - often missed or misdiagnosed" & "RD due to GRT in pediatric age group - surgical results" and she was the Chairperson for the session on "Updates on AMD and PCV".



- Dr Ronnie George, Dr Shantha B attended the conference of the Glaucoma Society of India at Odisha between 12th and 14th September 2014. Dr Ronnie George made oral presentations on "Glaucoma clinical trials: has it changed our practice" and "Trabecular meshwork changes in POAG & PACG" and Dr Shantha B on "Can we assess the risk of visual loss after glaucoma surgery in advanced diseases" and "Glaucoma related to Sturge Weber Syndrome".
- Dr Nirmala Subramanian participated in the Annual conference of Oculoplastic Association of India from 26th to 28th September 2014 and she made an oral presentation on "Eyelid reconstruction".
- Dr Geetha Iyer attended the conference of European Association for Vision and Eye Research at France from 1st to 4th October 2014 and she made an oral presentation on "Indian Results of MOOKP".
- Dr. H.N. Madhavan delivered an invited talk on "Molecular Biological methods to identify the cause of neonatal sepsis" at the CME Programme conducted by Amma Infertility Centre on 5th October 2014 at ITC Grand Chola, Chennai.
- Dr Manish Panday participated in the meeting of Uttarakhand State Ophthalmic Society at Mussoorie from 3rd to 5th October 2014 and made oral presentations on "Target IOP" & "Guidelines to medial management of glaucoma".
- Ms.Ferdina Marie Sharmila, attended a workshop on "Use of SPSS tool for data analysis" hosted by National Institute of Epidemiology (NIE), ICMR Institute, Chennai, from 8th to 10th October 2014.
- Dr. H.N. Madhavan attended the Symposium of NCRM NICHE 2014, held at Chennai, on 11th October 2014 and gave a guest lecture on "Mebiol Gel, a thermoreversible polymer as a scaffold for three dimensional culture of Huh7 cell line with improved hepatocyte differentiation marker expression and HCV replication".
- Dr Sumita Agarkar attended the conference of Maharashtra Ophthalmic Society at Solapur on 10th & 11th October 2014 and made oral presentations on "Procedure on superior oblique muscle" and "Duane's retraction syndrome".
- Dr R R Sudhir attended the INAE NATF Technology & Healthcare Workshop at France on 15th & 16th October 2014 and made an oral presentation on "Enhancing Eye Care Services through Innovation technology and collaboration in India".
- Dr. K. Lily Therese, Dr. J. Malathi, Ms. M. Vimalin Jeyalatha, Ms. A R Rajalakshmy and Ms. Janani attended the Microcon 2014 - 38th National Conference of the Indian Association of Medical Microbiologists from 15th to 19th October 2014 at Jaipur.

Ms. Vimalin Jeyalatha made an oral presentation on "Response of Retinal Pigment Epithelial Cells towards Leptospiral Recurrent Uveitis Antigens".



Ms. Janani and Ms. Rajalakshmy made poster presentations on "Identification of novel immune regulatory pathway associated with Epstein Barr Virus (EBV) and the recombinant EBV protein mediated inflammation in Adult retinal pigment epithelium (ARPE-19) and "HCV replication in Astrocytes" respectively.

Dr Prema Padmanabhan, Dr Rajesh PS, Dr Tarun Sharma, Dr Meena Lakshmipathy & Dr Suchitra Pradeep attended the conference of American Academy of Ophthalmology at Chicago from 18th to 21st October 2014.

Dr Prema Padmanabhan made an oral presentation on "1st Global consensus on treatment of Keratoconus and ecstatic diseases". Dr Rajesh and Dr Tarun Sharma made poster presentations on "Mobile operation theatre on wheels in India: a novel approach to reach the unreachable" and "Four years incidence and progression of Diabetic Retinopathy of India" respectively. Dr Meena Lakshmipathy made a poster presentation "Pediatric therapeutic penetrating keratoplasty: challenges & outcomes in a tertiary care centre" and. Dr Suchitra Pradeep on "Utility of high resolution ultrasound biomicroscopy in the diagnosis & treatment of HLA B27 associated complicated cataracts".

- Dr Sudharshan S attended the Annual Meeting of Karnataka Ophthalmic Society at Mysore from 7th to 9th November 2014 and he made oral presentations on "Tips in surgical management of Uveitis" & "Surgery – free patient".
- Dr Sudharshan S attended the Asia-Pacific Association of Cataract & Refractive Surgeons (APACRS) Annual Meeting at Jaipur between 13th and 16th November 2014 and made an oral presentation on "Cataract surgery in HIV patients".
- Dr Parthapratim Dutta M participated in the Ophthalmological Society Meet at West Bengal on 20th & 21st November 2014 and he made oral presentations on "Posterior scleritis" & "Posterior uveitis".
- Dr. Sudha K Genesh attended the United Service Institution of India (USI) Meet at Delhi from 21st to 24th November 2014 and she made oral presentations on "Tips on cataract surgery in Uveitis" and "Paediatric Uveitis- Indian perspective".
- Dr Muna Bhende participated in the Baroda Ophthalmic Society CME at Baroda on 23rd November 2014 and made oral presentations on "Current management of retinal vein occlusion", "Choice of anti-VEGF/Steriods for retinal diseases" and "Clinical pearls in diagnosis of macular disease".
- Mr. Arun John & Mr. Muthu kumaran participated in the International Conference on Crystal Growth and Biomolecular Crystallography (ICCGBC-2014), held at SASTRA University from 28th to 29th November 2014. Mr. Arun John made an oral presentation on "Structure-function relationship studies on human fatty acid synthase thioesterase domain and its inhibitors: an *in silico* approach" and Mr. Muthukumaran made a poster presentation on "Ornithine Decarboxylase drug development".
- Dr. S Krishanakumar, Dr. J. Narayanan, Mr. Prasanna Kumar, Ms. Jayashree B attended 7th Bangalore India Nano Conference at Bangalore from 4th to 6th December 2014.



Dr. Narayanan and Mr. Prasanna Kumar made a poster presentation "Aptamer toxin conjugates for targeting EpCAM positive cancer cells; Ms. Jayashree B on "Targeted therapy in epithelial adhesive molecule by aptamer chimeras".

Dr Pukhraj Rishi, Dr Ekta Rishi, Dr Jaydeeb Avinas Walinjkar and Dr Sudipta Das participated in the conference of Vitreo Retina Society of India held at Agra from 5th to 7th December 2014. Dr Pukhraj Rishi made oral "Analysis of potential ischemic effect of intravitreal presentations on Bevacizumab (IVB) on normal retina in subjects with branch retinal vein occlusion(BRVO)"; "Intra-arterial chemotherapy for intraocular retinoblastoma: First Indian report" and "Partial lamellar sclerouvectomy for peripheral uveal". Dr Ekta Rishi made oral presentations on "Primary bevacizumab nonresponse in refractory diabetic macular edema" and "Endophthalmitis after keratoprosthesis: incidence, risk factors, causative organisms and outcomes".

Dr Jaydeeb Avinas Walinjkar made an oral presentation on "Correlation of fundus autofluorescence (FAF) patterns and Multifocal electroretinography (MFERG) in dry age-related macular degeneration (AMD)" and Dr Sudipta Das made a poster presentation on "Clinical profile of posterior scleritis in a tertiary eye centre in Southern India".

- Dr Sudhir R R, Dr Shweta Agarwal, Dr Geetha Iyer K attended the 4th Biennial Scientific Meeting of Asia Cornea Society, at Taiwan from 11th to 12th December 2014. Dr Sudhir made a poster presentation "Fishmouth compression suture in the management of corneal burn due to phacoemulsifcation", Dr Shweta Agarwal made an oral presentation on "Outcomes of COMET in surface reconstructive procedures" and a poster presentation "SLET in the management of acute chemical injury" and Dr Geetha Iyer made oral presentations on "Keratoprosthesis Challenges and modifications" and "A case of Stevens Johnsons Syndrom".
- Dr. Nivedita Chatterjee, Mr. R. Saravanan and Mr. R. Bhuvanasundar attended the Society of Biological Chemists Meeting at Bhubaneswar from 18th to 21st December 2014. Dr. Nivedita made an oral presentation on "HIV 1 clade specific regulation of the innate immune response in Müller glia". Mr. Saravanan and Mr. Bhuvanasundar made poster presentations on "Identification of serum Galectin-1 bound haptoglobin glycoforms and their differential expression in patients with the inflammation mediated ocular angiogenesis" and "Eales disease Characterization of human Lysyl Oxidase (LOX) and development of novel peptides to inhibit its activity" respectively.
- Dr. Geetha Iyer, Dr. N. Radhika, Dr. Bhaskar Srinivasan, Dr. Rama Rajagopal, Dr. Niveditha Narayanan and Dr. Shweta Agarwal attended the Keracon 2014 - the Society's Second National Meet at Chennai from 19th to 21st December 2014. Dr. Geetha Iyer, Dr. Radhika and Dr. Bhaskar Srinivasan made presentations on "Tumors of the ocular surface", "Combined procedures" and "Glaucoma in kpro" respectively.

Dr. Rama Rajagopal made an oral presentation on "Scleral involvement in OSSN"; Dr. Niveditha Narayanan on "Panelist - Corneal Infections Session: Bacterial" and Dr. Shweta Agarwal on "LID margin keratinisation in SJS".



- Dr Jaichandran V V, Dr Jagdeesh V and Dr Manonmani B attended the 62nd Annual National Conference of Indian Society of Anesthesiologist & Workshop in Regional Anesthesia, from 25th to 29th December 2014 at Madurai. They made oral presentations on "Pre-operative orbit-globe evaluation by anesthesiologist for regional block", "Monitored anaesthesia care for diabetics and hypertensive patients" and "Prevention of nausea and vomiting (PONV) following squint surgery" respectively.
- Dr S Krishnakumar participated in the IIT Nano Meet, at Mumbai on 17th January 2015 and he made oral presentation on "Aptamers & their application in cancer".
- Dr Prema Padmanabhan participated in the Dr. Noel Moniz Memorial Lecture at Cochin Ophthalmic Club, on 18th January 2015 at Cochin and she made an oral presentation on "Keratoconus – the familiar stranger".
- The Genetics department celebrated its 21st year of service by conducting * the 2nd SN Genetics Convention 2014, "A symposium on "Sanger to Next Generation Sequencing – The Genomics Era", on 30th & 31th January 2015. Sponsorship from Indian Council for Medical Research (ICMR), Department of Science and Technology (DST) and the Department of Biotechnology (DBT) was received Prof. T. Ramasami, Former Secretary, Department of Science and Technology, New Delhi, gave a motivating address to the gathering. After the plenary lecture by Prof. Samir Brahmachari on "NGS for India: New Genome Science", many eminent scientists presented their novel findings and their views on whole genome sequencing in eye disorders, cardiomyopathy, cancer and rare diseases. The list includes Prof. H N Madhavan, Dr. Subhabrata Chakrabati, Dr. Satish Kumar, Dr. Sridhar Sivasubby, Dr. Ramesh Hariharan, Dr. Vinod Scaria, Dr. Karthik Raman, Prof. K Dharmalingam, Dr. Sinnakaruppan Madhavan, Dr. Dwaipayan Bharadwaj, Prof. Suman Kapur, Dr. P Sundaresan, Dr. Bibhas Kar, Dr. Himanshu Sinha, Dr. Nageswara Rao Dunna, Dr. C Shanmuqapriya, Prof. M Parani and Dr. Thiagarajan Raman.
- Dr. K. Lily Therese participated in the National Seminar on "Emerging Infectious Diseases: Understanding the Challenges" held on 4th February 2015 at University of Madras and delivered a guest lecture on "Pythium insidiosum-The emerging fungal pathogen with special reference to corneal ulcers".
- Dr. Rajesh P S, Dr Manish Panday, Dr Mona Khurana, Dr Sudharshan S, Dr Muna Bhende, Dr Ambika S, Dr Meenakshi S, Dr Suganeswari G, Dr Geetha Iyer, Dr. Pramod S Bhende, Dr Vikas Khetan, Dr Mohammad Arif Mulla, Dr Mona Bhargava, Dr Trupti Patil, Dr Kavitha Kalaivani and Dr Pradeep S participated in the AIOS Conference from 4th to 7th February 2015 at New Delhi.

Dr Rajesh made a poster presentation "Eye care on wheels-Innovative pilot project to provide surgical eye care at patients' doorstep". Dr Manish Panday and Dr Mona Khurana gave oral presentations on "Demystifying dilemmas: assessing progression in perimetry" and "Introduction & principles assessing progression" respectively.

Dr Sudharshan, Dr Ambika and Dr Meenakshi made oral presentations on "DR cytokines & molecular diagnositics in Uveitis"; "Explaining unexplained vision loss" and "Evaluation of a patient with squint" respectively.



Dr Muna Bhende gave presentations on "Post intravitreal injection endophthalmitis", "Case series of unusual situations" & "Re-bleed following VR surgery". Dr Suganeswari made an oral presentation on "Masquerade syndrome" and a poster presentation "Giant RPE RIP in intraocular Lymphoma". Dr Geetha Iyer made oral presentations on "Managing Corneal complications following VR Surgery", "MOOKP – The SN Experience" and "IC- Surgical Skills Transfer– Kpro".

Dr. Pramod Bhende gave oral presentations on :

- Screening methodologies in the Indian context
- PVD induction in different scenarios
- Management of PVR
- Videos on management of suprachoroidalsil. Oil, problems related to FGE
- Post-operative inflammation following VR surgery

On behalf of Dr.Lingam Gopal, Dr.Pramod Bhende made oral presentations on :

- Assessment and management of retinal detachment following VR surgery
- The most common predicament in surgical diabetic retinopathy: tractional retinal detachment? Myth
- Post- traumatic endophthalmitis
- Extrapolating current evidence into clinical practice

Dr Vikas Khetan gave an oral presentation on "Genetics of adult retinal dystrophy"; Dr Mohammad Arif Mulla made poster presentations on "Retinal toxicity possibly associated with carbamazepine usage" and "An unusual case of central retinal artery occlusion – waxing and waning or visual acuity". Dr Mona Bhargava made poster presentations on "The role of microbiological assays of donor samples in determining clinical outcome in keratoplasty" and "Comparison of anterior chamber depth using oculyserli & orbscan 2 systems".

Dr Trupti Patil made an oral presentation on "What is trend and event based analysis", and a poster presentation "Surgical outcomes of supervised combined cataract and glaucoma surgery done by postgraduates fellows". Dr Kavitha Kalaivani made oral presentations on "Management of pediatric traumatic cataracts" and "IOL power calculation in pediatric cataract". Dr Pradeep made an oral presentation on "Toxic anterior segment syndrome and sterile endophthalmitis",

- Dr Prema Padmanabhan participated in the Asia-Australia Congress on Controversies in Ophthalmology from 5th to 8th February 2015 at Vietnam and she made an oral presentation on "Cross-linking".
- Dr. S Krishnakumar and Dr. J Narayanan participated in the India-UK workshop on "Affordable Healthcare Medical Technologies" on 11th February 2015



- Dr. K. Lily Therese, Dr. A. J. Pandian and Ms. Srilekha participated in the National Seminar on "An insight into our sight: Radiant Spectrum of molecular methods and diseases in ophthalmology" at Chennai on 12th February 2015. Dr. Lily Therese gave a guest lecture on "Molecular techniques for rapid diagnosis of ocular infection".
- Dr Ronnie George participated in the Kerala Ophthalmic Society Meeting at Trivandrum on 08th March 2015, and he gave a presentation on "Intraocular pressure in Glaucoma"
- Dr S. Ambika participated in the Shine 2015 Neurology Conference at Chennai on 8th March 2015 and she made an oral presentation on "Neuro-ophthalmology – Role in current specimen demyelination".
- Dr Pukhraj Rishi attended the Current Trends & Controversies in Retina and Uvea Conference, at Chandigrah, from 13th to 15th March 2015 and gave an oral presentation on "Multimodal treatment of retinoblastoma".
- Dr Biswas J participated in the PGIMER meeting at Chandigarh, from 14th to 15th March 2015 and gave a talk on "Current understanding in the pathogenesis of Eales' disease".
- Dr Ronnie George attended the Pediatric Glaucoma Conference at Aravind Eye Hospital, Madurai from 14th to 15th March 2015 and he made an oral presentation on "Ahmed glaucoma valve surgery".



DISTINGUISHED VISITORS

- Prof. Susana Marcos PhD, Professor of Research & Director from Visual Optics & Biophotonics Institute of Optics, CSIC Madrid, Spain, visited our Foundation on 12th April 2014 and delivered a lecture on "Imaging, Measuring and Restoring Crystalline Lens Accommodation".
- Dr. Deepak Edward from USA visited the Pathology lab on 12th April 2014.
- Prof. Tes Toop, Student Co-ordinator from Deakin University, visited Nano biotechnology lab on 16th April 2014 and interacted with the students.
- Dr. Anders Heijl M.D., PhD, Professor and Senior Consultant at the Dept of Ophthalmology, Malmo University Hospital, Lund University, Sweden visited Sankara Nethralaya and the research laboratories on 23rd May 2014 and gave a lecture on "Course on the Glaucoma Perimetry".
- Dr. Anushuya Ganguly, Assistant Professor, Department of Biological Science from BITS, Goa, visited the research laboratories on 30th May 2014.
- Dr Bala Murali Vasudevan, Asst. Professor, Midwestern University, Arizona College of Optometry visited our foundation on 4th June 2014 and gave a talk on "Near induced transient myopia-Research updates".
- Ms. Geetha Bali (W/o Mr. G. Madhavan Nair, Former Chairman, ISRO) visited the Microbiology lab on 13th June 2014.
- Dr. Mohan Rajan, Chairman & Managing Director, Rajan Eye Care Hospital, visited our foundation on 27th June 2014 and gave a talk on "Top Five Keys to Success".
- Dr. Usha H. Viyus M.S. (Ophth.), Medical Superintendent & Professor of Ophthalmology, Sheth C.H. Nagri Municipal Eye Hospital, Ahmedabad, visited the research laboratories on 11th July 2014.
- Dr. S P Srinivasan, Associate Professor from Indiana University, USA, visited the research laboratories on 15th July 2014.
- Mr. H D Malesra, Director of Ratan Tata Foundation, Mumbai visited the research laboratories on 16th July 2014 and interacted with our scientists.
- Prof S V Eswaran, Emeritus Scientist-CSIR, from St Stephen's College, University of Delhi visited the research laboratories on 21st July 2014 and gave a talk on "Interactions and Inspiration for Research".
- Ms. Mandy Engelsm, Proof Reader from Hand Fast Point, Netherlands, visited our foundation on 31st July 2014 and gave a lecture on "Writing a research paper in English a proof reader's perspective".
- Dr. David Springer, Mr. Scott, Dr. Lee Moored from University of Alabama visited our foundation on 12th August 2014 and 12th February 2015.



- Dr. T. Ramaswami from Department of Science and Technology (DST) visited the research laboratories on 19th August 2014 and interacted with the scientists.
- Dr. Vijaya Kumar Aradhye, Consulting Physician from 'Suvas', Jalna visited the research laboratories on 26th August, 2014.
- Dr. Suresh Viswanathan, State University of New York, Department of optometry from USA, visited the research laboratories on 3rd September 2014.
- Dr. Tamara S. Oechslin from the Ohio State University, College of Optometry, Columbus, visited our foundation on 17th September 2014 and gave a talk on "Kids and Glasses".
- Mr Shukbir Singh Badal, Deputy Chief Minister (CM) of Punjab visited our foundation on 18th September 2014.
- Dr. Lemij Hans, Glaucoma Specialist from Rotterdam Eye Hospital, Rotterdam, Netherlands, visited the Biochemistry lab on 22nd September 2014.
- Dr. Proteeti Bhattacharjee, Liaison Officer, India Office of the Max Planck Society, German House for Research and Innovation (DWIH), at New Delhi visited our foundation on 23rd September 2014.
- Dr. Agarwal, Ophthalmologist from Indore visited our foundation and interacted with the clinicians and scientists on 3rd October, 2014.
- Ms. Kimberley, Associate Director and Program Manager from ORBIS International visited our foundation on 4th October 2014.
- Dr. Shatina Pardhan from Anglia Ruskin University, United Kingdom (UK) visited Genetics lab on 31st October 2014.
- Prof. Peter Hodgson & Prof. Trevor Day from Deakin University, Australia visited the Pathology lab and interacted with the PhD students and faculty on 6th November 2014.
- Padma Shri Dr. V. Mohan, Eminent Diabetologist & Director from Dr. Mohan's Diabetes Specialties Centre, Chennai visited our foundation on 13th November 2014 and gave a guest lecture on "How to control the menace of diabetes in India?"
- Dr. V. Bhulakshmi from Gap Skills Company, Hyderabad visited the Genetics lab on 13th November 2014.
- Dr. M. A. Vijayalakshmi, Director, Vellore Institute of Technology, Centre for Bio-Separation Technology, visited our foundation and interacted with the scientists and students of Biochemistry and Cell Biology laboratory on 28th November 2014 and gave a presentation on "Gene to Vial".
- Dr. Bala Ramachandran, Medical Director from Kanchi Kamakoti Child Trust Hospital visited our foundation and made a presentation on "Medical Errors - A reality in medicine" at the 19th Sri V. Venugopal Endowment Lecture on 29th November 2014.



- Dr Yamuna, Vice Chancellor, HOD Management Studies, Hindustan University, Dr Susan Marthandan, Director, Hindustan Arts & Science College and Dr. G. Srikanth, Director from National Institute of Management Studies visited the research laboratories on 5th December 2014.
- Mr. T M Bhasin, Chairman & Managing Director, Indian Bank, visited the research laboratories on 5th December 2014.
- Dr Srinivas R Sadda, MD from David Geffen School of Medicine, University of California, Los Angeles visited our foundation on 22nd December 2014 and gave a lecture on "Retinal Imaging & Diabetic Macular Edema".
- Prof. A V Ramanan, Consultant Pediatric Rheumatologist from Bristol Royal Hospital for Children & Royal National Hospital visited our foundation on 23th December 2014 and gave a talk on "Immunomodulation of Pediatric Uveitis".
- Dr Sridevi Devaraj, Ph.D., DABCC Medical Director of Chemistry and POCT, Texas Children's Hospital, visited our research laboratories on 2nd January 2015 and gave a lecture on "Metabolic Syndrome: An update".
- Mr. John Miles from Guild Ford Rotary Eye Project, United Kingdom (UK) visited our foundation on 19th January 2015.
- Dr. T. Velpandian, Additional Professor & In-Charge Dept of Ocular Pharmacology and Pharmacy in Dr. R P Centre, All India Institute of Medical Sciences (AIIMS), New Delhi, visited our foundation on 21st January 2015 and gave a lecture on "Drug Transport Across Ocular Barriers- Implications in Therapeutics".
- Prof. K. Dharmalingam, Director-Research, Aravind Medical Research Foundation, Madurai, Dr. Dwaipayan Bhardwaj, Director - Indian BIOCHILD, IGIB, New Delhi, Dr Sridhar Sivasubbu, IGIB, New Delhi, Dr. Vinod Scaria, IGIB, New Delhi, Dr Satish Kumar, CCMB, Hydrabad, Dr. Himanshu Sinha, Reader, Biological Sciences, Tata Institute of Fundamental Research, Mumbai visited our research laboratories and interacted with the scientists on 31st January 2015.
- Ms. Ziaa Lalkaka from HDFC Bank, Mumbai visited the Microbiology lab on 09th February 2015.
- Prof. Shilpa Buch from Dept of Pharmacology and Neuroscience, University of Nebraska Medical Centre, Omaha visited the research laboratories and gave a presentation on "Neuro AIDS-A Tango of HIV and the Host" on 13th February 2015
- Dr. J. Radhakrishnan IAS, Secretary to the Government of Tamil Nadu, Dr Geethalakshmi S, Director of Medical Education, Health & Family Welfare Department, Government of Tamil Nadu and Dr. M Arulpitchai Narayanan, Chairman, Arma Medical Foundation, visited our foundation on 13th February 2015.



- Dr. M. Aravazhi Ammal, M.B.B.S., D.Ortho, AFIH, Orthopaedic Surgeon & Mr. K. Suresh, Quality Assurance Superintendent & Convener, Corporate Social Responsibility Committee from Nuclear Power Corporation of India Limited, Madras Atomic Power Station visited our foundation on 13th February 2015.
- Prof. Gerald Schultz, Associate Clinical Professor, Loma Linda School of Medicine, California visited the Genetics lab and interacted with the students on 14th February 2015.
- Dr. Ajay Khopade, Vice President, Dr Shravanti B, Associate Vice President-Clinical Research, Mr Narendra L, Associate Vice President – Business Development, Mr. Abhijeet H Joshi, Asst Manager – Clinical Research from Sun Pharma Advanced Research Company visited the research laboratories on 13th March 15.
- Dr. Philip A.Thomas, Associate Director (Research), Professor & Head Department of Ocular Microbiology from Institute Of Ophthalmology, Joseph Eye Hospital Tiruchirapalli visited the Microbiology lab on 27th March 2015.
- Dr Ajay, PhD from 3D Product Dev Pvt. Ltd, and Product Accelerator Pvt Ltd, visited the Pathology lab.