



VISION RESEARCH FOUNDATION

August 3, 2010

The Members of the Vision Research Foundation

NOTICE

NOTICE IS HEREBY GIVEN TO THE MEMBERS OF THE VISION RESEARCH FOUNDATION THAT THE 26th ANNUAL GENERAL MEETING OF VISION FOUNDATION WILL BE HELD ON, THURSDAY THE 26th AUGUST 2010 AT 5.00 P.M. AT THE VRF BOARD ROOM IN THE 2ND FLOOR OF THE NEW BUILDING, VISION RESEARCH FOUNDATION, 18, COLLEGE ROAD, CHENNAI – 600 006. THE AGENDA FOR THE MEETING IS GIVEN BELOW:

AGENDA

1. To consider and adopt the Annual Report of the Hon. Secretary & Treasurer for the year 2010-11.
2. To consider and adopt the Audited Income and Expenditure Account for the year ended March 31, 2010 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 2010–11 and to fix their remuneration.
4. To appoint a Member to the Board of Management in the vacancy caused by the retirement of Dr. T S Surendran, who is eligible for re-appointment.

Kindly make it convenient to attend the meeting.

**DR TARUN SHARMA
HON. SECRETARY & TREASURER**

Note:

Explanatory statement for Item 4 of the Agenda is attached.



VISION RESEARCH FOUNDATION

Explanatory Statement

Refer Item No 4 of the Agenda

Dr. T S Surendran was appointed to the Board of Management for a period of three years at the 23rd Annual General Meeting held on 29th September 2007.

His term of appointment expires at the end of the Annual General Meeting on 26th August 2010. As per 16(xiv) of the Bye-laws of the Foundation read with Section 15 (5) of the Tamil Nadu Societies Registration Act 1975, he is eligible for reappointment to the Board of Management.



VISION RESEARCH FOUNDATION

BOARD OF MANAGEMENT

Dr H N Madhavan	President
Mr. R Rajagopal	Vice President
Dr Tarun Sharma	Honorary Secretary & Treasurer

Members of the Board

Dr S S Badrinath	Member
Dr S Baskaran	Member
Mr V Vaidyanathan	Member
Dr S B Vasanthi	Member
Mr R Rajagopal	Member
Dr M S Swaminathan	Member
Dr D Balasubramanian	Member
Dr J Biswas	Member
Dr K Anji Reddy	Member
Dr L Vijaya	Member
Dr T S Surendran	Member
Mr Homi C H Bhabha	Member
Mr R S Falor	Member

Chief Operating Officer	Dr Kris S. Vasan
Chief General Manager	Mr. P R Ravindran
Manager	Mr S Narayan

Auditors	M/s S Viswanathan Chartered Accountants, Chennai
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Bankers	HDFC Bank, Chennai – 600 034 State Bank of India, Chennai –000 034
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Registered Office	New No.41, Old No.18, College Road Chennai – 600 006
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VISION RESEARCH FOUNDATION

ETHICS SUB-COMMITTEE MEMBERS

Justice Mohan S.
Dr. Tarun Sharma
Dr. K. V. Thiurvengadam
Dr. T Santha Devi
Dr. K. P. Misra
Dr. Bakulesh M. Khamar
Dr. Manjula Dutta
Dr. Lingam Gopal
Dr. T S Surendran
Prof. H N Madhavan
Mrs. Radhika Krishnan
Lion G V Raman
Dr. Rama Shankar Verma

RESEARCH SUB-COMMITTEE MEMBERS

Dr. Lingam Gopal
Dr. Tarun Sharma
Dr. J. Biswas
Dr. T. Rajkumar
Dr. T Santha Devi
Prof. H N Madhavan
Dr. Rama Shankar Verma

RESEARCH CELL COMMITTEE MEMBERS

Dr. Lingam Gopal
Dr. Tarun Sharma
Dr. H N Madhavan
Dr. L Vijaya
Dr. S Krishnakumar
Dr. Rajiv Raman
Dr. S Meenakshi
Dr. K N Sulochana
Dr. J Biswas
Dr. R R Sudhir
Dr. Ronnie George
Dr. Vikas Khetan
Dr. Kalpathy R K Easwaran
Dr. Prema Padmanabhan



VISION RESEARCH FOUNDATION

STEM CELL RESEARCH ETHIC SUB COMMITTEE

Hon. Justice Mohan S
Dr. Manjula Dutta
Dr. Lingam Gopal
Dr. Tarun Sharma
Dr. H.N. Madhavan
Mrs. Radhika Krishnan
Dr. S Arumugam
Prof. N. Vizhinathan
Dr. Rama Shankar Varma
Lion G V Raman



VISION RESEARCH FOUNDATION

ANNUAL REPORT FOR THE YEAR 2009–10

Report of the Honorary Secretary to the Members of the Foundation

It gives me great pleasure to welcome you all to this 26th Annual General Meeting of our Foundation. I am pleased to present the Twenty Sixth Annual report of the Vision Research Foundation. The twenty fifth Annual General Meeting of the Foundation was held on 29th September 2009 in which the Annual Report and the Audited Accounts of the Foundation for the financial year ended 31st March 2009 were approved by the members. During this year, Four Board Meetings were held. M/s. S Viswanathan, Chartered Accountants, were re-appointed as Auditors for the financial year 2009-10.

The donations received during the year was Rs 158.97 lakhs as compared to Rs 412.31 lakhs in the previous year. The gross total income for the year under review was Rs 738.70 lakhs including research grants and interest on deposits. The total expenditure before providing depreciation was Rs.1003.76 Lakhs resulting in a deficit of Rs 265.07 lakhs. After considering depreciation for the year, there was a net deficit of Rs.592.80 lakhs, which was carried over to the capital fund account.

Summary of Source and applications are as follows:

Sources

	Rupees in Lakhs
1. Decrease in the net Current Assets	435.13
2. Cash Deficit	(265.06)
	<hr/> 170.07 <hr/>

Applications of Funds

1. Increase in Fixed Assets	170.07
	<hr/> 170.07 <hr/>



VISION RESEARCH FOUNDATION

The foundation has received a sum of Rs 312.20 lakhs as research grants and Rs. 193.15 lakhs as project grants during the year under review as per the details given below

	Rs. in Lakhs	
Research Grants	2009-10	2008-09
1. Council of Science & Industrial Research	40.07	35.82
2. Indian Council of Medical Research	82.05	28.49
3. Department of Biotechnology	58.91	86.50
4. Department of Science & Technology	10.48	31.30
5. Kendle India Pvt. Ltd	15.45	13.72
6. Allergan Pharmaceuticals Dev. Center (I) P. Ltd	10.24	24.74
7. Quintiles Research (India) Pvt Ltd	1.28	2.91
8. Siro Clinpharma Pvt. Ltd.	4.51	7.54
9. Others	10.66	10.48
10. National Childhood Cancer Foundation	16.02	.00
11. Pharmaceuticals Research Association	12.54	.00
12. Pfizer Ltd.	.00	1.07
13. EliLilly and Company (India) Pvt Ltd	.00	0.40
14. University of Calgary Expense	.00	1.43
15. Cecht Foundation	2.37	.00
16. Omnicare Clinical Research India Ltd.	6.15	.00
17. Novartis India Ltd	2.82	.00
18. Johnson & Johnson	38.65	7.48
19. London School of Hygiene & Tropical Medicine	.00	21.06
Total	312.20	272.94
Project Grants		
20. World Diabetes Foundation	13.78	13.39
21. Chennai Willingdon Corporate Foundation	36.22	35.00
22. Jamsetji Tata Trust	143.15	41.00
Total	193.15	89.39
Grand Total	505.35	362.33



VISION RESEARCH FOUNDATION

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 2010-11 (Value in Rs.)
Development of a simple fluorescent assay for serum LOX activity (P.I: Dr. K N Sulochana)	Indian Council of Medical Research	4,04,060.00
Adiponectin as a "Therapeutic target" for ocular angiogenesis (P.I: Dr. K N Sulochana)	Indian Council of Medical Research	12,34,000.00
Development of siRNA by targeting copper regulators to control angiogenesis (P.I: Dr. K N Sulochana)	Indian Council of Medical Research	63,33,400.00
Molecular genetic profiling of ocular developmental anomalies in the Indian population (P.I.: Dr. J Madhavan)	Indian Council of Medical Research	27,34,000.00
Gene mapping for Ushers syndrome by micro-chip based whole genome scan. (P.I.: Dr. J Madhavan)	INDO US project	46,90,000.00
Characterization of consanguineous LCA families – a homozygosity based approach (P.I.: Dr. J Madhavan)	Indian Council of Medical Research	21,38,000.00
Molecular diagnostics of LCA - A chip based re-sequencing approach (P.I.: Dr. J Madhavan)	Dept. of Biotechnology	36,73,000.00
Molecular Genetic Profile of Congenital Stationary Night Blindness in India using arrayed primer extension technology (APEX) and direct sequencing to associate with disease phenotype (P.I.: Dr. J Madhavan)	Indian Council of Medical Research - INSERM	32,13,500.00
Ex Vivo Cultivation Of Autologous Limbal/Oral Epithelial Cells On Denuded Human Amniotic Membrane And Transplantation Of These Cells In Eyes With Unilateral/Bilateral Limbal Stem Cell Deficiency (LSCD): A Pilot Study (P.I: Dr. Geetha Krishnan Iyer)	Dept. of Biotechnology	34,07,200.00
A Novel Tissue Engineering Approach For Bioengineering Corneal Epithelial Cells From Non-Ocular Epithelial Cells (P.I.: Dr. S Krishnakumar)	DRDO	15,00,000.00
Assessment of The Suitability Of Chitosan Scaffolds Seeded With Limbal Explant Cells For A Corneal Tissue Engineering Approach (P.I.: Dr. S Krishnakumar)	Dept. of Science & Technology	18,66,800.00
Assessing Influence Of Different Scaffolds On Immunogenicity Of Corneal Epithelial Cells (P.I: Dr. Geetha Krishnan Iyer)	Indian Council of Medical Research	28,02,000.00
Standardization of Isolation and Culture Protocols For Growing Bulge Cells From Hair Follicles (Extra mural)	-	7,50,000.00



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Title of the Project	Funding Agency	Grant Amount for 2010-11 (Value in Rs.)
To train and develop infrastructure or Molecular Ophthalmic Pathology and rapid Diagnosis of Ocular Infectious in an Ophthalmic Institute in Assam (P.I.: Dr. S Krishnakumar)	Indian Council of Medical Research	9,00,000.00
A Clinico – Molecular biological study on infectious mononucleosis caused by Epstein – Barr virus and to study the genotype prevalence in Chennai (P.I. : Dr. H N Madhavan)	Indian Council of Medical Research	28,27,360.00
Prenatal diagnosis of viral infections and Toxoplasma gondii by application of quantitative real time polymerase chain reaction and postnatal diagnosis of congenital cataract. (P.I.: Dr. J Malathi)	Indian Council of Medical Research	22,45,880.00
To investigate the expression of MicroRNAs with deregulated host genes accompanying RNAi of EpCAM in Retinoblastoma (P.I.: Dr. S Krishnakumar)	Dept. of Biotechnology	45,00,000.00
Centre of Excellence for ocular stem cells (Retinal Progenitor/Stem cells) (P.I.: Dr. S Krishnakumar)	Dept. of Biotechnology	5,00,00,000.00
Targeted radioiodine therapy using EpCAM promoter guided sodium iodide symporter gene transfection in treating EpCAM positive cancers (P.I.: Dr. S Krishnakumar)	Board of Research in Nuclear Sciences (BRNS), Dept of Atomic Energy	25,00,000.00
Micro RNA in melanoma CAST (P.I.: Dr. S Krishnakumar)	Dept. of Science & Technology	35,00,000.00
Micro RNA in Retinoblastoma and MDR (P.I.: Dr. S Krishnakumar)	Dept. of Science & Technology	35,00,000.00
To standardize nanocarriers for p53 gene delivery to retinoblastoma cancer cells using Y79 cell line as a model. (P.I: Dr. R Judith)	Indian Council of Medical Research	25,55,200.00
Genomics studies on over expressed FASN promoter and its role on FASN gene expression in retinoblastoma cells (P.I. : Dr. D Indra)	Dept. of Biotechnology	25,00,000.00
Fabrication of Mdm2 peptide conjugated Gold Nanoparticles for targeted therapy of Retinoblastoma (P.I.: Dr. R Judith)	Dept. of Science & Technology	25,00,200.00

During the year, Research & Ethics subcommittee met four times.



VISION RESEARCH FOUNDATION

Manpower details as at 31st March 2010

Directors	04
Senior Research Fellows	15
Junior Research Fellows	12
Research Fellows	03
Lab Technicians	14
Senior Scientists	05
Junior Scientists	08
Staff / Technicians	44
Professors	04
Lecturers	02
Readers	03
Post Doctoral Fellow	01
Part Time Scientists	50

Conclusion:

I would like to take this opportunity to place on record my gratitude for all the guidance extended to me by the President Dr H N Madhavan, Vice President Mr. R Rajagopal, Dr S S Badrinath, President & Chairman Emeritus, Medical Research Foundation, Board Member and Chairman of Medical Research Foundation, Mr. V Vaidyanathan, Chief General Manager of Medical Research Foundation, Mr. P R Ravindran and Chief Operating Officer, Dr. Kris S. Vasan.

My thanks are also due to the Auditors, M/s. S Viswanathan particularly to their partners, Mr. C N Ramachandran and Mr. Chella K Srinivasan for their active and invaluable support and our Bankers, HDFC Bank and State Bank of India for their 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 firm and M/s SRS Management Services Pvt Ltd for preparing Accounting Manual 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, Academic Officer for his support.

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
Hon. Secretary & Treasurer
Vision Research Foundation



VISION RESEARCH FOUNDATION

HONOURS & AWARDS

- ❖ Dr. S S Badrinath received "Medical Excellence Award" from Priya Vison, Chennai, on 6th April 2009.
- ❖ Ms. H. Anusha, Senior Research fellow, won the "VRF - IAMM Best paper award" for her research paper entitled "Phylogenetic analysis of clinical Herpes Simplex Virus 1 isolates targeting 269 nucleotide region within glycoprotein G and 410 nucleotide region within glycoprotein I" in the TN IAMM Local Chapter Meeting on Hospital Acquired Infection at Madurai Medical College, Madurai (HAICON 2009).
- ❖ The First Patent Certificate for Vision Research Foundation has been granted to the patentee Vision Research Foundation by the Patent office Chennai, Government of India for an invention entitled "A Seminested Polymerase Chain Reaction (PCR) Method for Rapid Detection and Specific Identification of Mycobacterium fortuitum" on 29th May 2009. The inventors are Dr. K. Lily Therese, Ms. Jasmine Therese and Dr. H.N. Madhavan. This is the first patent received by scientists in Vision Research Foundation.
- ❖ Dr. S S Badrinath received the "V Krishnamurthy Award" for Excellence by Centre for Organization Development, Hyderabad, on 4th July 2009.
- ❖ Dr. L Vijaya received "Dr Samir Biswas Memorial Oration" by the Ophthalmological Society of West Bengal, Kolkata on 26 July 2009.
- ❖ Dr Ian Sunadaraaj, was felicitated on World Anaesthesia Day conducted by Stanley Medical college, Chennai.
- ❖ Special recognition award for M.Rajeswari at MRF on August 15th 2009.
- ❖ Ms. S. Barathi, was awarded "Swarnalatha Punshi Award" for her paper presentation on "Free amino acid Glycine and Glutamic acid inhibit angiogenesis in Bovine Retinal Endothelial cells" on 3rd September 2009
- ❖ Dr Jaichandran was awarded scholarship for the paper titled "Effect of lidocaine warming and alkalization on injection pain, motor and sensory nerve blockade in peribulbar anesthesia for cataract surgery" presented as a Poster, in the 23rd Annual Ophthalmic Anesthesia Society held at Chicago, Illinois, United states, Sept 11-13, 2009.
- ❖ Dr. K. Coral was awarded the Ph.D. Degree in the XXI Graduation ceremony (VIBS, BITS) on 12th Sep 2009.
- ❖ Dr. H. N Madhavan was presented with the International Medical Excellence Award by the former Deputy Prime Minister of Thailand, Mr. Korn Dabbaransi in at India Habitat Centre, New Delhi, on October 8, 2009. Dr. Madhavan was also presented with a "Certificate of Medical Excellence."
- ❖ Dr. Lingam Gopal was Elected as Fellow, National Academy of Medical Sciences and Conferred at the 49th Annual Conference of National Academy of Medical Sciences, NAMSCON – 2009, Lucknow on 31st October 2009.
- ❖ Dr Jagadeesh V was invited to give a guest lecture on "Ophthalmic Anaesthesia" to commemorate World Anaesthesia Day at Madras Medical College, Chennai, October 2009.



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- ❖ Ms. S. Barathi, received B.S. Narasinga Rao Award for a best poster presentation in 78th Annual meeting of Society of Biological Chemists(I) , at Pune on 30th October 2009
- ❖ The Second Patent Certificate for Vision Research Foundation has been granted to the patentee Vision Research Foundation by the Patent office Chennai, Government of India for an invention entitled "A Seminested Polymerase Chain Reaction (PCR) Method For Rapid Detection And Specific Identification Of Mycobacterium Chelonae" on 12th November 2009. The inventors are Dr. K. Lily Therese, Ms. Jasmine Therese and Dr. H.N. Madhavan.
- ❖ Dr. S S Badrinath received the Life Time Achievement Award from Madras City Ophthalmological Association on 29th November 2009
- ❖ Dr. S S Badrinath was the recipient of CNBC TV - 18 India Business Leader Awards at Durbar Hall, Taj Palace Hotel, S P Marg, Diplomatic Enclave, New Delhi, on 3rd December 2009.
- ❖ Dr Jagadeesh V was invited to moderate a Pediatric session at ISACON Conference at Chennai Trade Centre between Dec 26-29, 2009.
- ❖ Dr. T S Surendran gave a lecture on "Awareness on Eye Diseases", National University Hospital, Singapore on 7th January 2010
- ❖ Dr. T S Surendran gave lecture on "EMR", at Indian Chamber of Commerce, Hong Kong on 8th January 2010
- ❖ Dr. S S Badrinath received "Life Time Achievement Award", by Federation of Indian Chambers of Commerce and Industry, Chennai, on 20th February 2010
- ❖ Dr. T S Surendran gave lecture on strabismus at Shree Ganpathi Netralaya, Jalna on 27 February 2010
- ❖ Dr. K. Lily Therese was one of the recipients of "30 Women Alumni Award", for her contribution in "Molecular Microbiology", By Madras University, 8 March 2010
- ❖ Dr. Lingam Gopal elected as Member, Board of studies in Research, Dr. M.G.R. Medical University, Chennai.
- ❖ Dr. Tarun Sharma received the International Ophthalmologist Education Award from American Academy of Ophthalmology, USA.
- ❖ Dr.S.Sripriya has been recognized as a PhD guide in SASTRA University and BITS, Pilani.
- ❖ Ms. E. Anuradha successfully completed the NABL training programme and she is now eligible as an internal auditor for NABL.
- ❖ Dr.J.Madhavan completed Health Kids International Fellowship, Hospital for SickKids, Toronto. 2009-2010.
- ❖ Ms.Dharanija Madhavan ICMR-junior research fellowship 2009-2010.
- ❖ Ms.P. Ferdinamarie Sharmila has qualified the BITs PhD entrance examination



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- ❖ The doctoral degree was conferred upon Dr. G. Mamatha in the Convocation function, Ms.Dharanija Madhavan & Ms.N.N.Srikrupa has got their MS MLT graduation certificates.
- ❖ Dr. J. Biswas received "Dr. P. Siva Reddy Oration Award from All India Ophthalmological society for the year 2009.
- ❖ Dr. J. Biswas received AIOS – AWARD (GENERAL OPHTHALMOLOGY) Ophthalmic Telepathology: Concept and Practice-FP9-2010.
- ❖ Dr. L Vijaya received Achievement Award 2009 from The American Academy of Ophthalmology, USA.
- ❖ Dr. N. Angayarkanni selected for training in Animal model angiogenesis by "ICMR international fellowship" under young biomedical scientist to spend 3 months in Dr. Arup Das lab, University of New Mexico, Alberquerque USA from 18th Feb to 17th May 2010.



VISION RESEARCH FOUNDATION

RESEARCH PUBLICATIONS

- ❖ Combined PDT and intravitreal bevacizumab as primary treatment for SRNVM associated with type 2 IMT. *Pukhraj rishi, Ekta Rishi, Daraius Shroff*. Indian Journal of Ophthalmology 2009;57(3)241
- ❖ Agreement between two Goldmann type applanation tonometers. *Ronnie George, Hemamalini Arvind, M.Baskaran, S.Ve.Ramesh, Prema Raju, Lingam Vijaya*. Indian Journal of Ophthalmology 2009, Vol.56 No.6
- ❖ Comparison of Humphrey MATRIX and Swedish interactive threshold algorithm standard strategy in detecting early glaucomatous visual field loss. *Prema Raju, Ronnie George, Hemamalini Arvind, M.Baskaran, S.Ve.Ramesh, Lingam Vijaya*. Indian journal of Ophthalmology 2009; 57: 207-211.
- ❖ Prevalence of Retinitis Pigmentosa in South Indian Population Aged Above 40 years. *Parveen Sen, Arun Bhargava, Ronnie George, S.Ve.Ramesh, Arvind Hemamalini, Raju Prema, Govindasamy Kumaramanickavel and Lingam Vijaya*. Journal of Ophthalmic Epidemiology 2009, 15: 279-281
- ❖ Ratio of the vitreous vascular endothelial growth factor and pigment epithelial derived factor in Eales disease. *Angayarkanni N, Selvi R, Rishi P, Biswas J, Bhavesh SJ, Tink JT*. Journal of Ocular Biology, Diseases and Informatics 2009;2:20-28.
- ❖ Application of PCR based – RFLP technique for species Identification of ocular isolates of methicillin resistant *Staphylococci* (MRS). *J. Malathi, M. Sowmiya, K. Lily Therese, HN. Madhavan*. Indian Journal of Medical Research, July 2009, 130, 78-84
- ❖ Anemia in Diabetes Mellitus. *Rajiv Raman, Padmaja Kumari, RR Sudhir, K.Vaith, Tarun Sharma*. Journal of Association of Physicians of India
- ❖ Differences in outcomes of Cataract surgery among Rural & Urban South Indian Population. *L Vijaya et al*. Indian Journal of Ophthalmology
- ❖ Determinants of Glaucoma awareness and knowledge in Urban Chennai. *Ramesh Ve. Sathyamangalam, Pradeep G.Paul, Ronnie George, M. Baskaran, Hemamalini Arvind, Madan Raj V. J.Augustian, Prema Raju, Lingam Vijaya*. Indian Journal of Ophthalmology, 2009:57:355-360
- ❖ Homocysteine levels in vitreous of proliferative diabetic retinopathy and rhegmatogenous retinal detachment- its modulating role on lysyl oxidase activity. *Coral K, Angayarkanni N, Gomathy, Bharath selvi M, Rishi P, Roy R*. Investigative Ophthalmology and Visual Science.
- ❖ Distortion maps from preferential hyperacuity perimetry are helpful in monitoring functional response to Lucentis therapy. *Dr Radha Das et al*. Retina
- ❖ Refractive error in Diabetes Mellitus. *Rajiv Raman, Padmaja Kumari, R R Sudhir, K. Vaith, Tarun Sharma*. Ophthalmology
- ❖ CSME and Non – CSME. *Rajiv Raman, Padmaja Kumari, R R Sudhir, Vaith, Tarun Sharma*. Ophthalmology
- ❖ Is Neuronal damage an early sign of Diabetic Retinopathy? *A Verma, PK Rani, R Raman, SS Pal G Laxmi, M Gupta, C Sahu, K Vaitheeswaran and T Sharma*. Eye.2009; Vol.23:1824-30



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- ❖ Functional and anatomical outcomes after primary lens-sparing pars plana vitrectomy for Stage 4 retinopathy of prematurity. *Bhende P, Gopal L, Sharma T, Verma A, Biswas RK*. Indian Journal of Ophthalmology 2009;57:267-71.
- ❖ Aberrant wound –healing response in Mitomycin C–treated leaking blebs: A histopathologic study. *Elnor VM, Newman- Casey PA, Patil J, Flint A, Biswas J, Moroi SE, Pushparaj V, Edward DP*. Archives of Ophthalmology 2009;127 (8):1036-1042.
- ❖ Optical Coherence Tomography for Precise Localization of Inapparent Retained Foreign Body in Ocular Coats. *Rishi Pukhraj, Sharma Tarun, Rishi Ekta, Arora, Anshu*. Retinal Cases and Brief Reports 2009;3(3):275-278.
- ❖ Photodynamic Therapy for Childhood Choroidal Neovascular Membrane Associated With Best's Vitelliform Dystrophy. *Rishi Pukhraj, Sharma Tarun, Gopal Lingam*. Retinal Cases and Brief Reports 2009;3(3):288-292.
- ❖ Macular Infarction After Enterococcus Faecalis Endophthalmitis. *Rishi Ekta, Shroff Daraius, Rama Kumar G V N, Rishi Pukhraj*. Retinal Cases and Brief Reports 2009;3(3):247-250.
- ❖ A study on the incidence and microbiological analysis and investigations on the source of postoperative infectious endophthalmitis in a tertiary care ophthalmic hospital- An eight year study. *Malathi J, Madhavan HN, Margarita S, Parameswaran Suresh Kumar, Lysa Sagar*. Indian Journal of Ophthalmology 2010, 58:297 -302.
- ❖ CERKL Mutations Cause an Autosomal Recessive Cone-Rod Dystrophy With Inner Retinopathy. *Aleman T, Soumitra N, Cideciyan AV, Sumaroka A, Ramprasad V, Herrera W, Windsor EA, Schwartz SB, Russell RC, Roman AJ, Inglehearn CF, Kumaramanickavel G, Stone EM, Fishman GA, Jacobson SG*. Investigative Ophthalmology and Vision Science (2009)
- ❖ Diagnostic utility of Polymerase Chain Reaction on intraocular specimens to establish the etiology of infectious Endophthalmitis. *Sowmiya. P, Madhavan HN*. European Journal of Ophthalmology. 2009,19, 12-7
- ❖ Spontaneous Closure of A Posttraumatic Scleral Fistula in An Atypical Choroidal Coloboma. *Bhende Muna, Shroff Daraius, Nandi Krishnendu, Gopal Lingam, Susvar Pradeep*. Retinal Cases and Brief Reports
- ❖ Rhegmatogenous Retinal Detachment Associated With Myelinated Nerve Fibres: A Case Report. *Gopal Lingam, Paul Subhankarsri, Sen Parveen, Khetan Vikas*. Retinal Cases and Brief Reports 4(2):158-159, Spring 2010.
- ❖ Pregnancy Triggered Iatrogenic (Post-LASIK) Corneal Ectasia - A Case Report. *Prema Padmanabhan, Aiswaryah Radhakrishnan, Radhika Natarajan*. Cornea
- ❖ Modified Osteo-Odonto Keratoprosthesis - The Indian Experience - Results of the First 50 Cases. *Geetha K Iyer, Vinay Pillai, Bhaskar Srinivasan, Giovanni Falcinelli, Prema Padmanabhan, Sitalakshmi G*. Cornea
- ❖ Current approach in the diagnosis and management of posterior Uveitis. *Sudharshan S, Ganesh SK, Biswas J*. Indian Journal of Ophthalmology 2010;58(1):29-43.
- ❖ Current approach in diagnosis and management of anterior uveitis. *Agrawal RV, Murthy S, Sangwan V, Biswas J*. Indian Journal of Ophthalmology 2010;58(1):11-9.
- ❖ Intravitreal Cysticercosis presenting as Neovascular Glaucoma. *Dhanashree Ratra, Chekitaan Phogat, Maneesh Singh, Nikhil S Choudhari*. Indian Journal of Ophthalmology 2010;58(1):70-73.



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- ❖ Coats' disease: An India Perspective. *Pukhraj Rishi, Ekta Rishi, Mahesh Uparkar, Tarun Sharma, Lingam Gopal, Pramod Bhende, Muna Bhende, Pratik Ranjan Sen, Parveen Sen* Indian Journal of Ophthalmology 2010;58:119-124
- ❖ Intravitreal Bevacizumab for Choroidal Neovascular Membrane Associated with Best's Vitelliform Dystrophy. *Ekta Rishi, Pukhraj Rishi, S Mahajan.* Indian Journal of Ophthalmology 2010;58:160-162
- ❖ Eales' disease: diagnosis and management. *Das T, Pathengay A, Hussain N, Biswas J.* Eye(Lond)-2010:472-482
- ❖ Clinical profile treatment and visual outcome of ampicinuous choroiditis. *Jyotirmay B, Jafferji SS, Sudharshan S, Kalpana B.* Ocular Immunology and Inflammation 2010;18(1):46-51.
- ❖ Phacoemulsification with intraocular lens implantation in JIA. *Sudha K Ganesh, Sudharshan S.* Ophthalmic Surgery and Lasers Imaging 2010;41(1):104-108.
- ❖ Endophthalmitis in eyes presenting with orbital signs: A case control study. *Pukhraj Rishi, Ekta Rishi, Nandi K, Khan B.* Retina 2010; 30(3):491-4.
- ❖ Vitreoretinal surgery in eyes with Pintucci biointegrable keratoprosthesis. *Rishi P, Maskati QB, Ray R, Iyer GK, Srinivasan B, Pillai VS.* Retina 2010 Feb;30(2):287-93.
- ❖ First report on isolation of *Mycobacterium monacense* from sputum specimen in India. *Gayathri R, Therese KL, Thirupathi K, Madhavan HN.* Lung India
- ❖ Antibiotic Susceptibility Pattern Of Rapid Growers of Mycobacteria (RGM). *Gayathri R, Therese KL, Deepa P, Mangayarkarasi S, Madhavan HN.* Journal of Post Graduate Medicine
- ❖ Vitreoretinal surgery in eyes with pintucci biointegrable keratoprosthesis. *Pukhraj Rishi et al.* Retina
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VISION RESEARCH FOUNDATION

COMPLETED PROJECTS

- ❖ Evaluating the Rea Pan B27 Reagent for HLA-B27 Typing in the Context of Diagnosis of Uveitis at Sankara Nethralaya sanctioned by Reamatrix-Supply of Kits at free of cost.
- ❖ Effect of sedation on retained visual sensations in patients undergoing Phacoemulsification cataract surgery under topical anaesthesia (Dr. V V Jaichandran)
- ❖ Clinical Evaluation Of silicone Hydrogel lenses in 7-Day Extended wear (Mrs. M Rajeswari)
- ❖ Longitudinal study of progression of Keratoconus with contact lens (Mrs. M Rajeswari)
- ❖ To study the effect of FAS (Fatty acid synthase) inhibitors on Y79 retinoblastoma cell line (Dr. S Krishnakumar)
- ❖ To investigate the expression of Hypoxia-inducible factor in retinoblastoma and correlate with invasion and multidrug resistance protein (Dr. J Biswas)
- ❖ To bioengineer a corneal stromal substitute using a collagen matrix (Dr. S Krishnakumar)
- ❖ To study the biology of corneal stem cells (Dr. S Krishnakumar)
- ❖ Punctal Plug Extrusion Rates - Clinical Study (Dr. Ronnie Jacob George)
- ❖ Genetic Association Studies & Fine Mapping Of Critical Genomic Regions That Harbor Age Related Macular Degeneration (AMD) Susceptibility Loci/Genes (Dr.S.Sripriya)
- ❖ Reduction in the occurrence of center-threatening diabetic Macular edema with use of Rubid octrium (Dr. Tarun Sharma)
- ❖ A Phase 3 Safety and Efficacy study of Vitreosolve® for Ophthalmic Intravitreal injections for Inducing Posterior Vitreous Detachment in Retinopathy Subjects (Dr. Lingam Gopal)
- ❖ Efficacy and Safety of Posterior Juxtasclear Administrations of Anecortave Acetate for Depot Suspension (15 mg or 30 mg) versus Sham Administration in Indian patients at Risk for Progressing to Exudative Age-Related Macular Degeneration (AMD)
- ❖ A Phase 3, Prospective, Randomized, Double-masked, 12-week, parallel group study evaluating the efficacy and safety of Latanoprost and Timolol in Paediatric subjects with Glaucoma (Dr. B Shantha)
- ❖ Double-Masked, Placebo-Controlled, Multi-Center, parallel group, Dose Ranging Study with an optional extension to Assess the Efficacy and Safety of LX211 as Therapy in subjects with Active Sight threatening, Non-Infectious Uveitis (01 and 03) and Clinically Quiescent Sight Threatening, Non-Infectious Uveitis (02) (Dr. J Biswas)
- ❖ An 8-Week, Multicenter, Masked, Randomized Trial (with an 18-Week Masked Extension) to Assess the Safety and Efficacy of 700 µg and 350 µg LX211 Dexamethasone Posterior Segment Drug Delivery System (DEX PS DDS) Applicator System Compared with Sham DEX PS DDS Applicator System in the Treatment of Non-Infectious Ocular Inflammation of the Posterior Segment in patients with Intermediate Uveitis (Dr. J Biswas)



VISION RESEARCH FOUNDATION

ONGOING PROJECTS

- ❖ Prevalence of Multi-system disorders associated with Childhood Cataract and Squint: Anaesthetic Implications (Dr. V V Jaichandran)
- ❖ To study the modulation of multidrug resistant proteins expression, function and in vitro antitumor effect on Y79 retinoblastoma cells by curcumin longa derivative (Dr. S Krishnakumar)
- ❖ To evaluate the in vitro efficacy of PLGA-nanoparticles encapsulated with chemotherapeutic drugs to induce apoptosis in Y79 retinoblastoma cell line (Dr. S Krishnakumar)
- ❖ Efficacy of EpCAM-conjugated drug loaded biodegradable nanoparticles for drug therapy in Retinoblastoma (Dr. S Krishnakumar)
- ❖ To identify and characterize the Retinal stem/progenitor properties of Human Iris Pigment Epithelial (IPE) cells and Ciliary Epithelial (CE) cells in vitro (Dr. S Krishnakumar)
- ❖ Developing Molecularly Targeted Polymer Nanoparticles for Cancer Diagnostics and Therapeutics (Dr. S Krishnakumar)
- ❖ Emerging self-sustained patterns of intercellular calcium waves in co-cultures of neurons and glia: An experimental investigation (Dr. Nivedita Chatterjee)
- ❖ Investigating the regulation of cytokine profile in Muller glia by endocannabinoids (Dr. Nivedita Chatterjee)
- ❖ Functional coupling in a glial syncytium: investigating the immuno-modulatory effects of myelin protein-challenge (Dr. Nivedita Chatterjee)
- ❖ Targeted radioiodine therapy using ECAM promoter guided sodium iodide symporter gene transfection in treating EpCAM positive cancers (Dr. S Krishnakumar)
- ❖ Proteomic Profiling for Retinoblastoma progression: Different display analysis for the expression of intracellular proteins between non-invasive and invasive tumors and tumor cell lines (Dr. S Krishnakumar)
- ❖ Development of stealth nanoimmunoliposomes for si-RNA delivery against EpCAM expressing epithelial cancers
- ❖ National retinoblastoma registry
- ❖ To study the RNAi mediated HMGA2 gene expression profile of Y79 cells.
- ❖ Adiponectin as a "Therapeutic target" for ocular angiogenesis" (Dr. K N Sulochana)
- ❖ Role of Lysyl oxidase and homocysteine in the aqueous humor and plasma of patients with pseudoexfoliation syndrome (Dr. N Angayarkanni)
- ❖ Tear Proteomics profile in Rheumatoid arthritis patient associated with and without dry eye syndrome (Dr. N Angayarkanni)
- ❖ Studies on thiolation and homocysteinylation of serum proteins in the two retinal diseases – ARMD and ED (Dr. K N Sulochana/Dr. N Angayarkanni)



VISION RESEARCH FOUNDATION

- ❖ Experimental study on the potential anti-glycating effects of a novel mixture of amino acids on hyperglycemia induced retinal changes (Dr. N Angayarkanni)
- ❖ Identifying compounds which potently inhibit matrix metalloproteinases 2 and 9 : therapeutic application for retinal diseases. (Dr. N Angayarkanni)
- ❖ Effect of the pesticide chlorpyrifos on the proteome of human retinal pigment epithelial cell line (ARPE-19). Effect of cyto protective agents on chlorpyrifos induced cytotoxicity (Dr. N Angayarkanni)
- ❖ Investigation into the role of Lipids, Brain-Derived Neurotrophic Factor (BDNF) and Vascular Endothelial Growth factor (VEGF) in Diabetic Retinopathy (Dr. N Angayarkanni)
- ❖ Development of an in vitro model for ARMD using human ARPE – 19 cells. Testing the effects of selected pesticides in the model (Dr. K N Sulochana)
- ❖ Gene mapping for Myopia and identification of environmental risk factors for myopia progression in subjects with genetic susceptibility (Dr.S.Sripriya)
- ❖ India US Genetic Study of Ocular Quantitative Traits (Dr. Ronnie Jacob George)
- ❖ Molecular genetics of Corneal Dystrophy – Mutational Screening of SLC4A11 and COL8A2 gene in Fuchs Corneal Dystrophy (FCD) and Linkage analysis in FCD affected Families (Dr. Rama Rajagopal)
- ❖ Gene expression profiling and development of micro array based biomarkers for diabetic retinopathy - a pilot study. Functional genomic study of diabetic retinopathy (Dr. Lingam Gopal)
- ❖ Molecular genetic profiling of ocular developmental anomalies in the Indian population (Dr. Sripriya)
- ❖ Genome wide Association Studies of Diabetic Retinopathy. (In collaboration with LVPEI and Aravind Eye Hospital) (Dr. Tarun Sharma)
- ❖ Bardet-Biedl Syndrome: molecular epidemiology and identification of novel genes in the Indian cohort (Dr. S Sripriya)
- ❖ Characterisation of consanguineous LCA families- a homozygosity based approach (Dr. J Madhavan)
- ❖ Molecular Diagnostics of LCA - Achip based re-sequencing approach (Dr. J Madhavan)
- ❖ Gene mapping for Ushers syndrome by micro-chip based whole genome scan. (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. J Madhavan)
- ❖ CEDIS (Chennai Eye Disease Incidence Study) (Dr. L Vijaya)



VISION RESEARCH FOUNDATION

- ❖ A 24 Week Multicenter, Randomized, Double-masked, Placebo controlled study to assess the difference in the rate of recurrent exacerbations in Behcet's patients with posterior or panuveitis treated with AIN457 vs Placebo adjunctive to standard-of-care immunosuppressive therapy (Dr. J Biswas)
- ❖ Comparison of Taqman Probe Based Real-Time Polymerase Chain Reaction (RT-PCR) and pp65 antigenemia assay for quantitation of human cytomegalovirus (HCMV) in clinical specimens and a study on ganciclovir resistance of HCMV (Dr. H N Madhavan)
- ❖ Nucleic acid based amplification techniques for detection, identification, Quantitation and genotyping of Pneumocystis jiroveci and a study on drug resistance of Pneumocystis jiroveci targeting the Dihydropterate gene (Dr. K Lily Therese)
- ❖ Development of DNA Macro-chips for the Simultaneous Detection of Pathogens Causing Acute Encephalitic Syndrome (AES), Septicaemia and Antibiotic Resistance (Dr. H N Madhavan)
- ❖ Phylogenetic analysis of Human Herpes Simplex Virus(HSV) isolates based on DNA sequencing of genes coding for glycoproteins G, I and E,C regions and to determine novel targets to identify the genotypes of HSV (Dr. J Malathi)
- ❖ Evaluating the Rea Pan B27 Reagent for HLA-B27 Typing in the Context of Diagnosis of Uveitis at Sankara Nethralaya (Dr. K Lily Therese)
- ❖ A Pilot study on rapid detection of viable Mycobacterium tuberculosis and multidrug resistant (MDR) tuberculosis from clinically suspected tuberculosis patients in Chennai – A Major Public Health Problem in India (Dr. K Lily Therese)
- ❖ Ultrasound Biomicroscopy – Static and dynamic quantitative customized evaluation in primary angle closure disease – A Pilot study. (Dr. B Shantha)
- ❖ Measurement Ocular Pulse Amplitude by Dynamic Contour Tonometry in Glaucoma and Aphakia (Dr. Nikhil Choudhari)
- ❖ A randomized, investigator masked, parallel group study to compare the IOP lowering effect of Forskolin 2% QHS compared to Xalatan 0.0005%QHS and Forskolin 2% BID to Timolol 0.5% BID in patients with ocular hypertension or mild open angle glaucoma. (Dr. Ronnie Jacob George)
- ❖ Randomized, controlled, multicenter comparative trial to evaluate the SOLX Gold Shunt for the reduction of intraocular pressure (IOP) in glaucomatous eyes following failed medical and conventional surgical treatments (Dr. B Shantha)
- ❖ Clinical Evaluation of Punctum Size Changes Following Punctal Plug Use (Dr. Ronnie Jacob George)
- ❖ A Randomized, Double-Masked, Parallel Group, Multicenter, Dose-Finding Comparison of the Safety and Efficacy of ASI-001A 0.5 µg/day and ASI-001B 0.2 µg/day Fluocinolone Acetonide Intravitreal Inserts to Sham Injection in Subjects with Diabetic Macular Edema (Dr. Tarun Sharma)
- ❖ A 3-year, Phase 3, Multicentre, Masked, Randomized, Sham-Controlled Trial to Assess the Safety and Efficacy of 700 µg and 350 µg Dexamethasone Posterior Segment Drug Delivery System (DEX PS DDS) Applicator System in the Treatment of Patients with Macular Edema (Dr. Lingam Gopal)



VISION RESEARCH FOUNDATION

- ❖ A randomised, double masked, active controlled, phase 3 study of the efficacy, safety, and tolerability of repeated doses of intravitreal VEGF Trap-Eye in subjects with neovascular age –related macular degeneration (AMD) (Dr. Tarun Sharma)
- ❖ Telescreening for Diabetic Retinopathy (Dr. Rajiv Raman)
- ❖ Sankara Nethralaya Diabetic retinopathy epidemiology and molecular genetics study II (SNDREAMS II): Urban arm (Dr. Tarun Sharma)
- ❖ Sankara Nethralaya Diabetic retinopathy epidemiology and molecular genetics study III (SNDREAMS III): Rural arm (Dr. Tarun Sharma)
- ❖ A 12-Month Randomized, Pilot study to compare the efficacy and safety of PDT (Standard fluence) with intravitreal Lucentis versus of PDT (Reduced fluence) with intravitreal Lucentis. (Dr. Tarun Sharma)
- ❖ A Comparative Study of Functional Visual outcome in Eyes implanted with differently Designed Aspheric intraocular Lenses (Dr Prema Padmanabhan)
- ❖ Clinical Evaluation of an investigational contact lens in 7-day extended wear (Dr. Bhaskar Srinivasan)
- ❖ Comparison of Visual and Optical performance of soft toric and rigid gas permeable contact lenses. (Mrs M R Rajeswari)
- ❖ Modelling the need for Diabetic Retinopathy screening in India (Dr. R R Sudhir)
- ❖ Perceptual learning of stereopsis in adult amblyopes (Dr. L. Srinivasa Varadharajan)
- ❖ Visual functions in computer users with migraine. (Dr. L. Srinivasa Varadharajan)
- ❖ Impact of Low Vision Care in Children with Multiple Disabilities and Visual Impairment (MDVI) (Dr R Krishna Kumar)
- ❖ Symptom Survey among Hospital Based Pseudomyopic Subjects (Dr R Krishna Kumar)