



VISION RESEARCH FOUNDATION

August 24, 2012

The Members of the Vision Research Foundation

NOTICE

NOTICE IS HEREBY GIVEN TO THE MEMBERS OF THE VISION RESEARCH FOUNDATION THAT THE 28th ANNUAL GENERAL MEETING OF VISION RESEARCH FOUNDATION WILL BE HELD ON, THURSDAY THE 27th SEPTEMBER 2012 AT 5.00 P.M. AT THE VRF BOARD ROOM IN THE 2ND 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:

AGENDA

1. To consider and adopt the Annual Report of the Hon. Secretary for the year 2011-12.
2. To consider and adopt the Audited Income and Expenditure Account for the year ended March 31, 2012 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 2012–13 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
Dr. Anji Reddy	Honorary Member
Mr. Homi C H Bhabha	Donor Member
Mr. R S Falor	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.



VISION RESEARCH FOUNDATION

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 25th Annual General Meeting held on 29th September 2009 :-

Name

Dr. Anji Reddy
Mr. Homi C H Bhabha
Mr. R S Falor

Their term of appointment expires at the end of the Annual General Meeting on 27.09.2012. 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.



VISION RESEARCH FOUNDATION

BOARD OF MANAGEMENT

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

Members of the Board

Dr S S Badrinath	Member
Dr S Baskaran	Member
Mr V Vaidyanathan	Member
Dr S B Vasanthi	Member
Dr M S Swaminathan	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
Dr. Ronnie Jacob George	Director – Research
Dr. S Krishnakumar	Deputy Director – Research
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
Bankers	HDFC Bank, Chennai – 600 034 State Bank of India, Chennai –600 034 Indian Overseas Bank, Chennai – 600 034
Registered Office	New No.41, Old No.18, College Road Chennai – 600 006



VISION RESEARCH FOUNDATION

ETHICS SUB-COMMITTEE MEMBERS

Justice Mohan S.
Dr. Tarun Sharma
Dr. T Santha Devi
Dr. K. P. Misra
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. Rajkumar
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. K N Sulochana
Dr. J Biswas
Dr. R R Sudhir
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. Vizheenathan
Dr. Rama Shankar Varma
Lion G V Raman

INSTITUTIONAL BIOLOGICAL SAFETY COMMITTEE

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



VISION RESEARCH FOUNDATION

ANNUAL REPORT FOR THE YEAR 2011–12

Report of the Honorary Secretary to the Members of the Foundation

It gives me great pleasure to welcome you all to this 28th Annual General Meeting of our Foundation. I am pleased to present the Twenty Eighth Annual report of the Vision Research Foundation. The twenty seventh Annual General Meeting of the Foundation was held on 29th September 2011 in which the Annual Report and the Audited Accounts of the Foundation for the financial year ended 31st March 2011 were approved by the members and M/s. S Viswanathan, Chartered Accountants, were re-appointed as Auditors for the financial year 2011-12.

The donations received during the year under report was Rs.574.81 lakhs as compared to Rs.628.35 lakhs in the previous year. The gross total income for the year under review was Rs.1158.60 lakhs including research grants and interest on deposits. The total expenditure before providing depreciation was Rs. 1008.91 Lakhs resulting in a cash surplus of Rs.149.69 lakhs. After considering depreciation for the year, there was a net deficit of Rs.89.02 lakhs, which was carried over to the capital fund account.

Summary of Source and applications are as follows:

Sources	Rupees in Lakhs
1. Cash Surplus	149.69
2. Loss on sale of assets incl. Condemned Assets written off	6.97
3. Income on Sale of an Asset	1.00
	<hr/> 157.66 <hr/>
Applications of Funds	
1. Increase in Fixed Assets	26.01
2. Increase in Net Current Assets	131.65
	<hr/> 157.66 <hr/>



VISION RESEARCH FOUNDATION

The foundation has received a sum of Rs.501.37 lakhs as research grants and Rs.21.85 lakhs as project grants during the year under review as per the details given below

	Rs. in Lakhs	
Research Grants	2011-12	2010-11
1. Council of Science & Industrial Research	27.09	24.25
2. Indian Council of Medical Research	145.17	96.11
3. Department of Biotechnology	113.37	106.74
4. Department of Science & Technology	41.13	28.95
5. Department of Atomic Energy	16.97	19.88
6. Life Sciences Research Board	2.56	3.69
6. Kendle India Pvt. Ltd	7.36	22.58
7. Allergan Pharmaceuticals Dev. Center (I) P. Ltd	5.26	9.96
8. Allergan India Pvt Ltd	1.60	-
9. Siro Clinpharma Pvt. Ltd.	.00	2.24
10. Others	55.09	37.02
11. National Childhood Cancer Foundation	0.27	21.07
12. Alcon Laboratories India Pvt. Ltd	1.13	8.68
13. Cheet Foundation	3.63	2.48
14. Novartis India Ltd	20.89	5.80
15. Johnson & Johnson	56.75	43.07
16. Sumatichandra Mehta Charitable Trust	2.44	.00
16. World Health Organization	0.66	4.23
Total	501.37	436.75
Project Grants		
17. World Diabetes Foundation	2.30	4.59
18. Chennai Willingdon Corporate Foundation	19.55	36.63
19. Jamsetji Tata Trust	.00	34.14
Total	21.85	75.36
Grand Total	523.22	512.11



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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 2012-13 (Value in Rs.)
Application of next generation sequencing technique to determine the whole Genome sequence of laboratory isolates of <i>Pseudomonas aeruginosa</i> , (Both sensitive and resistant strains) and application of bioinformatics approach to identify the vulnerable area of drug targets in the genome (P.I : Dr. J Malathi)	Indian Council of Medical Research	36,00,000.00
To develop illumina based array system for the detection/genotyping and anticipate clinical response of Human Hepatitis C Virus (HCV) (P.I : Dr. J Malathi)	Indian Council of Medical Research	27,49,900.00
A laboratory surveillance based study to determine the antifungal susceptibility profile of clinical fungal isolates using WHONET software 5.6 and characterization of resistant fungal isolates targeting the drug resistant genes (P.I: Dr. Lily Therese)	Dept. of Biotechnology	41,38,200.00
An <i>in vitro</i> study model in the human corneal epithelial cell line on the pathogen associated molecular patterns (signaling cascade) involved with <i>Aspergillus flavus</i> and <i>Fusarium solani</i> (Dr. Bagyalakshmi)	Dept. of Biotechnology	60,38,200.00
An in vitro study on the pathogenesis of Non sporulating moulds (NSM) to understand the signaling cascade involved in the corneal epithelium and a study on the genetic mechanisms of sporulation in NSM (P.I : Dr. R Bagyalakshmi)	Dept. of Biotechnology	39,52,048.00
Development of point of care diagnostic test to rapidly detect the biomarkers of fungal endophthalmitis using genomic and proteomic approaches (Dr. R Bagyalakshmi)	Dept. of Biotechnology	41,38,200.00
A molecular mycological study targeting the ribosomal subunit and other sporulation genes to characterize the clinical and environmental fungal isolates in India (P.I : Dr. R Bagyalakshmi)	Dept. of Biotechnology	38,42,000.00
Investigating the therapeutic potential of LOX propeptide in angiogenesis and tumorigenesis (P.I : Dr. K Coral / Dr. K N Sulochanan)	Dept. of Science & Technology	6,80,000.00



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Regulation of SNARE exocytotic machinery under physiological and pathological conditions of diabetes and obesity. (P.I: Dr. J Subbulakshmi)	Dept. of Science & Technology	6,27,800.00
Understanding the effect of Adiponectin mediated signaling pathways on retinal degeneration using retinal explant culture (P.I: Dr. J Subbulakshmi/ Dr. K N Sulochana)	Dept. of Biotechnology	
Biomarker pattern discovery of graded changes in the opacity of human lens in age-onset cataract: a proteomic approach. (P.I : Dr. Ananthkumar Badrinath)	Indian Council of Medical Research	49,92,700.00
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 (P.I: Dr. N Soumitra)	Indian Council of Medical Research	28,79,544.00
Genetic and Molecular approach to unravel the pathobiology of type 2 Diabetic Retinopathy (P.I : Dr. Tarun Sharma)	Dept. of Biotechnology	10,00,00,000.00
Molecular modeling and Docking simulation studies of functional domains of T. 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 (P.I : Dr.V.Umashankar)	Dept. of Biotechnology	16,56,800.00
MiRNA in Retinoblastoma progression, biomarkers and novel Aptamer-miRNA Therapeutics (P.I.: Dr. S Krishnakumar)	Dept. of Biotechnology, Centre of Excellence	99,60,000.00
To investigate the role of tumour microenvironment in RB progression (P.I.: Dr. S Krishnakumar)	Dept. of Biotechnology, Centre of Excellence	35,65,000.00
Identification of potential molecular inhibitors of all catalytic domains of Fatty acid synthase (FASN) at the enzyme activity and gene expression level (P.I. : Dr. P R Deepa)	Dept. of Biotechnology, Centre of Excellence	33,67,000.00
To investigate the cross-talk between oxidative stress and cellular methylation processes and dissect the functional role of epigenetically silenced genes in RB (P.I.: Dr. J Biswas)	Dept. of Biotechnology, Centre of Excellence	35,81,000.00
Proteomics and Phosphoproteomics by Mass spectrometry and Flow cytometry in Retinoblastoma (P.I.: Dr. Sailaja Elchuri)	Dept. of Biotechnology, Centre of Excellence	68,08,000.00



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

Manpower Details :-

<u>Manpower</u>	<u>As on 31st Mar 2012</u>	<u>As on 31st Mar 2011</u>
President	01	01
Directors	04	03
Head of the Department	02	02
Senior Research Fellows	23	19
Junior Research Fellows	11	12
Research Fellows	01	01
Lab Technicians	05	08
Senior Scientists	02	04
Scientists	02	00
Junior Scientists	10	11
Executives / Staff / Technicians	31	34
Professors	01	03
Lecturers	04	01
Readers	04	03
Post Doctoral Fellow	05	03
Research Coordinator	01	01
Part Time Scientists	55	52
Total	162	158



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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, Hon. Treasurer Mr. R S Falor, Dr S S Badrinath, President & Chairman Emeritus, Medical Research Foundation, Board Member and Chairman of Medical Research Foundation, Dr. S Bhaskaran, Chief Operating Officer, Dr. Kris S. Vasan, Chief General Manager of Medical Research Foundation, Mr. P R Ravindran, Director of Research, Dr. Ronnie Jacob George and Deputy Director of Research, Dr. S Krishnakumar.

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.

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



VISION RESEARCH FOUNDATION

HONOURS & AWARDS

- ❖ Dr. S S Badrinath received the "Seva Rathna" Award from Srirangan Srimad Andavan Asramam on 10th April 2011. This award was presented in recognition of his relentless battle to eradicate blindness, his leadership and pioneering role in providing quality and affordable eye care and spearheading India-centric research in ophthalmology.
- ❖ Dr. Tarun Sharma received the International Scholar Award 2011 from The American Academy of Ophthalmology, USA.
- ❖ Dr S Bhaskaran received "Life-time Achievement Award" in medicine from the Tamil Nadu Dr M.G.R University, Chennai.
- ❖ Dr T S Surendran was awarded as "The Best Doctor" by The Tamil Nadu Dr M.G.R University Chennai.
- ❖ Dr J Biswas was presented Dr R V Rajam Gold Medal award by The National Academy of Medical Sciences.
- ❖ Dr. Shubhra Goel Co-authored Best Poster Presentation on Asthenopic Factors in Computer Users at the American Academy of Ophthalmology, Florida, USA, 2011
- ❖ Ms. M. Sowmiya, Junior Scientist, received the "VRF - IAMM Best paper award" for her research paper entitled "Prevalence of Extended Spectrum Beta-Lactamase (ESBL) producing and integrons carrying Gram negative bacilli belonging to Enterobacteriaceae among Ocular isolates - A hospital based study" during the CME programme on "Ocular infections 2011" conducted on 23rd July 2011 organised by Department of Microbiology, Aravind Eye Hospital, Madurai as part of IAMM - TN & Pondicherry chapter meet.
- ❖ Dr. V. Umashankar delivered an invited talk on "Genotype to phenotype analysis of SNPs" at IERG 2011 Conference held at Hyderabad from 29th to 31st July 2011.
- ❖ Ms. M. K. Janani received the travel fellowship grant to attend the Indian Eye Research Group (IERG) meeting to be held at L V Prasad Eye Institute, Hyderabad from 29th July - 31st July 2011.
- ❖ Dr. Angayarkanni received the Swarnalatha Punshi Award for the Best Research Paper in Basic Sciences on 5th September 2011.
- ❖ Dr B Shantha received the 'Ruby Banik Memorial Award' of Vision Research Foundation for the best research in clinical sciences in ophthalmology for the year 2010-11.
- ❖ Ms.S.Srilekha received Bangalore Genei Pvt. Ltd. Endowment award in September 2011.
- ❖ Ms.S.Srilekha received the Best outgoing student award along with six other awards for her outstanding academics in the BITS MSMLT course, in September 2011.
- ❖ Ms Rashima A received award for Best Paper in 10th Dr. E V Memorial Scientific Session Aug 2011.



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- ❖ Dr. KN Sulochana was awarded Prof Venugopal Manon Endowment Award by Annamalai University, Chidambaram in the year 2011.
- ❖ Dr. Parveen Rewri, Clinical & Research fellow in glaucoma got the first prize in the free paper session at GSI 2011, Oct at Mumbai
- ❖ Mr. Jagaveerapandiyan received the Best Poster Award, in Systems Biology at the, SBC(I) Conference held at CIMAP, Lucknow on 13th November 2011.
- ❖ Dr. B. Mahalakshmi was awarded the Dr. S.R. Sengupta – Dr. A.M. Saoji Memorial Prize for the Best paper in Immunology 2011, for the paper titled “Evaluation of in house Fluorescent Antinuclear Antibody (FANA) test Using Hep-2 Cells And Commercial ELISA for the detection of Antinuclear Antibodies in Uveitis patients” presented (Oral Presentation) at the XXXV National conference of the IAMM held at Varanasi between 23rd and 26th November 2011.
- ❖ Dr. H. N. Madhavan received the “Life time achievement award” for the year 2011 at the XXXV IAMM National Congress conducted at Lady Hardinge Medical College, New Delhi in November 2011.
- ❖ Dr. Vikas Khetan received the Travel & Best Paper Award on Anterior Chamber Invasion in RB at the APVRS Meet held at Hyderabad, from 1st to 3rd December 2011
- ❖ Dr T S Surendran gave a Guest Lecture on “Strabismus overview and Interesting Cases” at the Twintech University, Malaysia on 14th December 2011.
- ❖ Dr. H. N. Madhavan honored with “Dr. Habibullah Memorial Annual Oration Award” during the 8th Annual Conference of STEM - 2012 on Biotechnology - focusing on latest trend in Stem cells, Regenerative Medicine and Tissue Engineering) held at Hyderabad from 31st January - 1st February 2012.
- ❖ Dr. J. Biswas attended the AIOC conference at Cochin and received the Honorary Fellowship of All India Collegium of Ophthalmology award on 1st February 2012.
- ❖ Dr. S S Badrinath was presented “Life Time Achievement Award” by All India Ophthalmological Society at Cochin on 2nd February 2012.
- ❖ Dr L Vijaya received Platinum IJO Award for Best Paper published in IJO on “Outcome and cataract size in Chennai Glaucoma Study” at AIOS Conference, Cochin, on 2nd February 2012
- ❖ Dr Shikha Rajesh Bassi & Dr. Shweta S Agarwal received the Best Paper Award for “Optical Coherence Tomography in Papilledema and Pseudopapilledema with or without Optic disc drusen” & “The 8 year experience with MOOKP in India - Where do we stand?” respectively at the AIOS Conference held at Cochin on 4th February 2012.
- ❖ Dr J Biswas received Honorary Fellowship of All India Ophthalmological Collegium at AIOS, Cochin, 2-Feb-2012.



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- ❖ Dr Akila Ramkumar V received the Best Paper & Poster Award for “Amblyogenic risk factors in children with CNLDO & Axenfeld rieger anomaly – A rare association with nanophthalmos” in FUSION 2012 held at Hyderabad from 12th to 14th February 2012.
- ❖ Dr. Bipasha P Mukherjee co-authored the Best Paper presentation in the Pediatric Ophthalmology Session, Fusion, International Meeting – Pediatric Ophthalmology, Dacryology and Facial Aesthetics held at Hyderabad, 2012.
- ❖ Dr. Shubhra Goel was the chief author of Best Video – “No scar ptosis surgery” in the Pediatric Ophthalmology Session, Fusion, International Meeting – Pediatric Ophthalmology, Dacryology and Facial Aesthetics held at Hyderabad, 2012.
- ❖ Dr. J. Biswas received the “Bharath Jyoti” award from India International on 27th March 2012.



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RESEARCH PUBLICATIONS

Published:

- ❖ Profile of retinal vasculitis in a tertiary eye care center in Eastern India. *Saurabh K, Das RR, Biswas J, Kumar A* - Indian Journal of Ophthalmology 2011; 59(4):297-301. PMID:21666315
- ❖ Total antioxidant capacity in Eales' disease, uveitis & cataract. *Selvi R, Angayarkanni N, Biswas J, Ramakrishnan S*. Indian Journal of Medical Research 2011;134(1):83-90. PMID:21808139
- ❖ Photodynamic monotherapy or Combination treatment with Triamcinolone acetonide, Bevacizumab or Ranibizumab for choroidal neovascularization associated with pathologic myopia. *Rishi P, Rishi E, Gopal L, Sharma T, Bhende P, Bhende M, Sen PR, Sen P*. - Indian Journal of Ophthalmology. 2011; 59(3):242-6.
- ❖ Ocular Propionibacterium Acnes: A Study on Antibiotic Susceptibility Profiling and Their Epidemiological Pattern. *Sowmiya M, Malathi J, Madhavan HN, Priya P & Therese KL*. The Internet Journal of Microbiology ISSN: 1937-8289. Volume 9 Number 2.
- ❖ Rapid detection of viable M. tuberculosis directly from sputum by Reverse Transcriptase PCR targeting 85B Gene. *Gayathri R, Therese KL, Sridhar R, Durai Kannan, Madhavan HN, Meenakshi N*. - Journal of Communicable Diseases 43(2) 2011: 89-96
- ❖ Extensive herpes zoster involvement following mycophenolate mofetil therapy for sarcoidosis. *Hegde S, Annamalai R, Biswas J*. Journal of Ophthalmic Inflamm Infect. . 2012 Mar;2(1):47-8. Epub 2011 Sep 25. PMID:21947930.
- ❖ Bilateral Ocular Myiasis Interna Caused by Botfly (*Oestrus ovis*): A Case Report. *Parikh V, Biswas J, Vajjayanthi K, Das D, Raval V*. Ocul Immunol Inflamm.2011 Dec;19 (6):444-7 PMID:2210691.
- ❖ An unusual intraocular tongue worm in anterior chamber: a case report. *Saumya Pal S, Bhargava M, Kumar A, Mahajan N, Das S, Nandi K, Guha S, Raman M, Jeyathilakan N, Biswas J*. Ocul Immunol Inflamm. 2011 Dec;19 (6):442-3 PMID:22106914.
- ❖ Enhanced in vitro antiproliferative effects of EpCAM antibody-functionalized paclitaxel-loaded PLGA nanoparticles in retinoblastoma cells. *Mitra M, Misra R, Harilal A, Sahoo SK, Krishnakumar S*. Mol Vis. 2011;17:2724-37.2011 Oct 19 PMID:22065926.
- ❖ Does Neuronal Damage Precede Vascular Damage in Subjects with Type 2 Diabetes Mellitus and Having No Clinical Diabetic Retinopathy? *Verma A, Raman R, Vaitheeswaran K, Pal SS, Laxmi G, Gupta M, Shekar SC, Sharma T*. Ophthalmic Research 2011 Dec 16;47(4):202-207.
- ❖ Spectral domain optical coherence tomography and microperimetry in foveal hypoplasia. *Pal SS, Gella L, Sharma T, Raman R*. Indian Journal Ophthalmology 2011 Nov-Dec; 59 (6):503-5.
- ❖ Evaluation of in vivo human retinal morphology and function in myopes. *Gella L, Raman R, Sharma T*. Current Eye Research 2011 Oct;36 (10):943-6.



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- ❖ A 32 kb critical region excluding Y402H in CFH mediates risk for age-related macular degeneration. *Sivakumaran TA, Ramprasad VL, Sen P, Aarthi M, George R, Raman R, Das MK, Vijaya L, Kumaramanickavel G, Iyengar SK.* PLoS One. 2011;6 (10):e25598. Epub 2011 Oct 12.
- ❖ Delayed inflammation associated with retained perfluorocarbon liquid [pg.396] *S Pradeep, Jay K Chhablani, Bhavin Patel, Padmaja Rani.* Indian Journal of Ophthalmology 2011 Volume 59 | Issue 5
- ❖ Hemi-central retinal artery occlusion in young adults. *Pukhraj Rishi, Ekta Rishi, Tarun Sharma, Sheshadri Mahajan.* Indian Journal of Ophthalmology 2011;59(5): 408-409.
- ❖ Molecular screening of the CYP4V2 gene in Bietti crystalline dystrophy that is associated with choroidal neovascularization. *Gandra Mamatha, Vetrivel Umashankar, Nachiappan Kasinathan, Tandava Krishnan, Ravichandran Sathyabaarathi, Thirumalai Karthiyayini, John Amali, Chetan Rao, Jagadeesan Madhavan.* Molecular Vision 2011;17:1970-1977.
- ❖ Reversal of stathmin-mediated microtubule destabilization sensitizes retinoblastoma cells to a low dose of antimicrotubule agents: a novel synergistic therapeutic intervention. *Mitra M, Kandalam M, Sundaram CS, Verma RS, Maheswari UK, Swaminathan S, Krishnakumar S.* Investigative Ophthalmology and Visual Sciences 2011; Jul 23;52(8):5441-8 Print 2011 Jul. PMID: 21546534.
- ❖ Transpupillary Thermotherapy for Circumscribed Choroidal Hemangioma: Clinical Profile and Treatment Outcome. *Sharma T, Krishnan T, Gopal L, Nagpal A, Khetan V, Rishi P.* Ophthalmic Surgery and Lasers Imaging 2011;14:1-9.
- ❖ Chemosensitivity of medulloepithelioma. *Gupta A, Khetan V.* Ophthalmology. 2011; 118(7): 1488.
- ❖ Diffuse infiltrating retinoblastoma with central nervous system metastasis. *Khetan V, Al-Kharusi N, Ganesh A, Al-Futaisi A, Biswas J, Kumar K, Raja T.* Archives of Ophthalmology 2011;129(3):375-7.
- ❖ Diffuse anterior retinoblastoma with undetectable retinal involvement. *Khetan V, Sudrik S, Singh S, Gopal L, Krishnakumar S.* Journal of Pediatric Ophthalmology and Strabismus 2011;15; 48:e7-9.
- ❖ Strategies to manage retinoblastoma in developing countries. *Chantada GL, Qaddoumi I, Canturk S, Khetan V, Ma Z, Kimani K, Yeniad B, Sultan I, Sitorus RS, Tacyildiz N, Abramson DH.* Journal of Pediatric Blood Cancer 2011;56(3):341-8.
- ❖ Haemorrhagic Intraretinal Macrocyst: Differential diagnoses and report of an unusual case. *Rishi P, Rishi E, Sen PR, Sharma T.* Oman Journal of Ophthalmology 2011; 4: 28-31.
- ❖ Retinal pigment epithelial changes after trypan blue-assisted ILM peeling for idiopathic macular hole. *Rishi P, Rishi E, Kothari A.* Oman Journal of Ophthalmology 2011;4:37-38.
- ❖ 20 gauge sutureless vitrectomy: A review. *Rishi P, Sengupta S.* World Journal of Retina and Vitreous. 2011;1:37-42.



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- ❖ Vitrectomy and Internal limiting membrane (ILM) peeling for bilateral vitreous and sub-ILM hemorrhages associated with trauma. *Rishi P, Lahane S*. World Journal of Retina and Vitreous 2011;1:15-18.
- ❖ Optic Disc Dimensions & Cup-Disc Ratios among healthy South Indians, The Chennai Glaucoma Study. *Hemamalini Arvind, Ronnie George, Prema Raju, S.Ve.Ramesh, M.Baskaran, Prashanth Kannan, Lingam Vijaya*. Journal of Ophthalmic Epidemiology: 2011;189-197.
- ❖ Can Intraocular Pressure Asymmetry Indicate Undiagnosed Primary Glaucoma? The Chennai Glaucoma Study. *Choudhari NS, George R, Baskaran M, Ve RS, Raju P, Vijaya L*. Journal of Glaucoma 2011 (e-pub).
- ❖ Intraocular parasitic infections. *Rathinam SR, Annamalai R, Biswas J*. Ocular Immunology and Inflammation 2011 Oct; 19(5) : 327-36.
- ❖ Boston Keratoprosthesis in Silicone oil filled eyes: A new indication. *Iyer G, Srinivasan B, Gupta J, Rishi P, Sen PR, Bhende P, Gopal L, Padmanabhan P*. Cornea. 2011.
- ❖ Delayed inflammation associated with retained perfluorocarbon liquid. *S Pradeep, Jay K Chhablani, Bhavin Patel, Padmaja Rani*. Indian Journal of Ophthalmology 2011 Volume 59 | Issue 5.
- ❖ Assessing Framingham cardiovascular risk scores in subjects with diabetes and their correlation with diabetic retinopathy. *Deepali R Damkondwar, Rajiv Raman, Suganeswari G, Vaitheeswaran Kulothungan, Tarun Sharma*. Indian Journal of Ophthalmology January 2012 Vol.6 No.1
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COMPLETED PROJECTS

- ❖ Bardet - Biedel syndrome molecular epidemiology and identification of novel genes in the Indian cohort (Dr.S.Sripriya)
- ❖ Platelet activation : assessment and quantification in patients with retinal vascular occlusion by the use of molecular markers- CD62P and CD41- pilot study. (Dr.Doreen Gracias & Dr.S.B Vasanthi)
- ❖ Investigating the regulation of cytokine profile in Muller glia by endocannabinoids (Dr.Nivedita Chatterjee)
- ❖ 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 Dihydropteorate gene. (Dr. K. Lily Therese)
- ❖ Tear proteomics profile in Rheumatoid Arthritis patients associated with and without dry eye (Dr. N Angayarkanni)
- ❖ Studies on thiolation and homocysteinylation of serum proteins in the two retinal diseases - Age related macular degeneration and Eales' disease.(Dr. S Ramakrishnan)
- ❖ An Open-Label, Single Center Study of the Intraocular Pressure Lowering Effect of LUMIGAN (Bimatoprost Ophthalmic Solution) 0.03% in Treatment Naïve Subjects Compared to Subjects on Prostaglandin Monotherapy (Dr. Ronnie George)
- ❖ Effect of Contrast and Noise on Letter Legibility (Dr. L S Varadharajan)
- ❖ Design and validation of computer based visual acuity testing procedures (Dr. L S Varadharajan)
- ❖ Phase I Clinical Trial: Subconjunctival carboplatin in fibrin sealant in patients with advanced retinoblastoma. (Dr. Vikas Khetan)
- ❖ 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)



VISION RESEARCH FOUNDATION

ONGOING PROJECTS

- ❖ 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)
- ❖ A Clinico – Molecular Biological Study On Infectious Mononucleosis Caused By Epstein – Barr Virus And To Study The Genotype Prevalence In Chennai (Dr. H.N. Madhavan)
- ❖ A study on the effect of UV rays on riboflavin treated corneal limbal stem cells during the process of collagen cross linking. (Dr Prema Padmanabhan)
- ❖ Development of matrices using sel mel PHA produced of indigenous *pseudomonas* spLDC-5 (Dr. H. N. Madhavan)
- ❖ To Train and Develop Infrastructure for Molecular Ophthalmic Pathology and Rapid Diagnosis of Ocular Infections in an Ophthalmic Institute in Assam. (Dr.H.N.Madhavan)
- ❖ 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)
- ❖ Role of Lysyl oxidase and homocysteine in the aqueous humor and the plasma of patients with pseudoexfoliation syndrome. (Dr N Angayarkanni)
- ❖ 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)
- ❖ Adiponectin as a therapeutic target for ocular Angiogenesis. (Dr. K N Sulochana)
- ❖ Investigation into the role of Lipids, Brain-Derived Neurotrophic Factor (BDNF) and Vascular Endothelial Growth factor (VEGF) in Diabetic Retinopathy (Dr. N. Angayarkanni)
- ❖ Effects of pesticide chlorpyrifos on the human RPE cell line (ARPE-19). Effects of cytoprotective agents on chlorpyrifos induced toxicity. (Dr. N. Angayarkanni)
- ❖ Development of siRNA by targeting copper regulators to control angiogenesis. (Dr. K N Sulochana)
- ❖ Design and Development of small therapeutic peptide to target angiogenesis by regulating Lysyl Oxidase. (Dr. K N Sulochana)
- ❖ Role of Adiponectin on the integrity of Blood retinal barrier during Diabetic retinopathy by in vitro 3D cell culture model. (Dr. C Subbulakshmi)



VISION RESEARCH FOUNDATION

- ❖ Development of a simple fluorescent assay for serum lysyl oxidase activity. (Dr. K N Sulochana)
- ❖ Molecular cloning and characterization of a novel 88 kDa protein found in patients with Eales' disease, Uveitis, tuberculosis, leprosy and rheumatoid arthritis. (Dr. K N Sulochana)
- ❖ Development of therapeutic peptides from small proteoglycan leucine rich repeat family for the inhibition of tumor 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)
- ❖ Identification of interacting partners for PEDF in causing Anti-angiogenesis. (Dr. K.N. Sulochana)
- ❖ Emerging self-sustained patterns of intercellular calcium waves in co-cultures of neurons and glia: An experimental investigation. (Dr. Nivedita Chatterjee)
- ❖ Functional coupling in a glial syncytium: investigating the immuno-modulatory effects of myelin protein challenge (Dr. Nivedita Chatterjee)
- ❖ Targeted Gold Nanoparticle Conjugates for *RNAi*/Delivery (Dr.S.Krishnakumar)
- ❖ Developing tools for dynamical modeling of *C.elegans* neuronal network activity. (Dr. Nivedita Chatterjee)
- ❖ A Novel tissue engineering approach for Bio-Engineering corneal epithelial cells from Non-Ocular epithelial cells. (Dr. S. Krishnakumar)
- ❖ Targeted radioiodine therapy using EpCAM promoter guided sodium iodide symporter gene transfection in treating EpCAM positive cancers. (Dr. S. Krishnakumar)
- ❖ Assessing influence of different scaffolds on immunogenicity of corneal epithelial cells. (Dr. Geetha K Iyer)
- ❖ To investigate the expression of micro RNAs with deregulated host genes accompanying RNAi of EpCAM in Retinoblastoma. (Dr. S. Krishnakumar)
- ❖ Effect of Antioxidant Peptides In Modulating The Reactive Oxygen Species In Retinoblastoma Cell Line Through Nanoparticles. (Dr. S. Krishnakumar)
- ❖ To understand the role of Micro RNA in drug resistant, Retinoblastoma cells. (Dr. Vikas Khetan)
- ❖ Tissue specific cytotoxicity mediated by Nano particle delivered suicidal Gene therapy. (Dr S Krishnakumar)
- ❖ To study the influence of Self Assembling peptide nanofibre scaffolds in the cell growth and differentiation of human retinal Stem/progenitor cells. (Dr. S. Krishnakumar)



VISION RESEARCH FOUNDATION

- ❖ To study the role of miRNAs as molecular markers in Uveal melanoma and correlate it with monosomy 3. (Dr. Krishnakumar)
- ❖ Aptamer based radio pharmaceuticals for diagnostic imaging and targeted radiotherapy of epithelial cancers. (Dr. J. Biswas / Dr. S. Krishnakumar)
- ❖ Fabrication of MDM2 peptide conjugated Gold nanoparticles for targeted therapy of Retinoblastoma. (Dr. S. Krishnakumar)
- ❖ To investigate the effect of fatty acid synthase (FASN) siRNA in a FASN Expressing Cancer Cell Line. (Dr. S. Krishnakumar &Dr. P.R. Deepa)
- ❖ Aptamer-toxin conjugates for imaging and dual targeting of (cancer stem cells) tumor cells. (Dr. J. Narayanan)
- ❖ A comprehensive analysis of microphthalmia and anophthalmia 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. Parveen Sen)
- ❖ Characterisation of consanguineous LCA families- a homozygosity based approach (Dr. N Soumittra)
- ❖ Molecular and Histological analysis of neurological disorders associated with mitochondrial DNA mutations. (Dr. J Madhavan)
- ❖ Tissue-wide transcriptome profiling and development of comprehensive neuroinformatic repository in unravelling molecular pathways for glaucomatous neurodegeneration. (Dr. A J Pandian)
- ❖ Molecular Diagnostics of LCA – A chip based re-sequencing approach. (Dr. N.Soumittra)
- ❖ Molecular Basis of X-Linked Juvenile Retinoschisis: mutational screening of RS1 gene and functional characterization of the identified mutations. (Dr. A J Pandian)
- ❖ 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)
- ❖ Protocol No.192024-049 A Multicenter, Open-label Study to Evaluate the Safety and Efficacy of Twice –daily 0.01%Bimatoprost / 0.15Brimonidine / 0.5%Timolol Ophthalmic Solution(Triple Combination) in Patients in India, who have Glaucoma or Ocular Hypertension with Elevated IOP and are on Twice –daily 0.2%Brimonidine / 0.5%Timolol ophthalmic Solution(Dual Combination)Therapy. (Dr.B.Shantha)



VISION RESEARCH FOUNDATION

- ❖ 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 Muna Bhende)
- ❖ Protocol Number: MK-002-00: A Phase III, Randomized, Active Comparator-Controlled, Twelve-Week, Double-Masked Clinical Trial to Compare the Efficacy and Safety of Preservative-Free MK-2452 (0.0015%) and Preservative-Free Timolol Maleate (0.5%) in Patients with Open-Angle Glaucoma and Ocular Hypertension. (Dr. B Shantha)
- ❖ A study of Unilateral Retinoblastoma with and without histopathologic high-risk features and the role of adjuvant chemotherapy. Phase 3 study. (Dr Vikas Khetan)
- ❖ An international multicentric phase II single-agent study of periocular Topotecan for recurrent or progressive intraocular retinoblastoma. (Dr Vikas Khetan)
- ❖ Protocol CRFB002F2301- A 12 month, phase iii, randomized, double-masked, multi-center, active-controlled study to evaluate the efficacy and safety of two different dosing regimens of 0.5mg ranibizumab vs. verteporfin PDT in patients with visual impairment due to choroidal neovascularization secondary to pathologic myopia. (Dr Tarun Sharma)
- ❖ Clinical Evaluation of an investigational contact lens in 7-day extended wear. (Dr.Bhaskar Srinivasan)
- ❖ Clinical Evaluation Of Acuvue 2 Contact Lenses In 7-Day Extended Wear. (Dr. M.Rajeswari, Dr.Bhaskar Srinivasan)
- ❖ Protocol Number. CAIN457C2301. A 24-week multicenter, randomized, double-masked, placebo controlled, dose-ranging phase III study of AIN457 versus placebo for maintaining uveitis suppression when reducing systemic immunosuppression in patients with quiescent, non-infectious intermediate, posterior or panuveitis. (ENDURE Study) (Dr Jyotirmay Biswas)
- ❖ An eye tracker perimeter - an intuitive tool for affordable glaucoma diagnosis and screening. (Dr. Ronnie George)
- ❖ Impact of nepafenac 0.1% on reducing the risk of macular edema in diabetic patients (Dr. Prema Padmanabhan)
- ❖ Changes in Colour and Spatial Vision Following Cataract Surgery (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)



VISION RESEARCH FOUNDATION

- ❖ Characterization and Correction of foveal and parafoveal aberrations in human subjects with adaptive optics (Dr L S Varadharajan)
- ❖ Modeling Spatial Interactions in Amblyopia (Dr L S Varadharajan)
- ❖ Changes in cortical magnification factor with ageing (Dr L S Varadharajan)
- ❖ Detection and discrimination Gabor patterns (Dr L S Varadharajan)
- ❖ Efficacy of action videogame training as a treatment for adult amblyopes (Dr L S Varadharajan)



VISION RESEARCH FOUNDATION

PARTICIPATION IN THE CONFERENCE

- ❖ Dr. J Biswas attended the Uveitis Vijayawada Ophthalmic Association, Vijayawada on 3rd April 2011 and Diagnostic and Therapeutic Challenges in Uveitis & Quiz on Uveitis
- ❖ Dr. S.Krishnakumar attended the Indian Proteomics Conference and he gave an invited talk at Jawaharlal Nehru University, New Delhi on 4th April, 2011.
- ❖ Dr. N Angayarkanni and Ms. Saijyothi participated in the Indian Proteomics Conference - IPCON II, held at JNU, Delhi from 3rd to 5th April 2011. Dr. Angayarkanni presented poster entitled "Differential expression of tear fluid proteins in Dry eye syndrome: A proteomic Approach" at the conference.
- ❖ Dr. J. Biswas attended Delhi Ophthalmological Society meeting on 15th April 2011 where he delivered two lectures viz., Lab Investigations in Uveitis & How to write a scientific paper?
- ❖ Dr. Angayarkanni N gave an invited lecture "Sample preparation for 2D electrophoresis in proteomics", at the Proteomics Society of India meet on 16th April 2011 organized at Aravind Eye Hospital, Madurai.
- ❖ Ms. H. Manjula attended the "Pre Analytical variables Lab professional Day work shop" held at Lister Metropolis Laboratory on 23rd April 2011.
- ❖ Ms. S. Salma attended the Workshop based on "Device associated Infection and Surgical site Infection" organized by Baxter, held at Sandeep Hall, Hotel Savera on 28th April 2011.
- ❖ Dr. Sulochana KN, attended Sri Venugopal Menon Endowment Award Lecture organized at Annamalai University on 29th April 2011 and delivered a talk on "Retinal angiogenesis and Drug Development".
- ❖ Dr. J. Malathi attended and presented a poster entitled "Standardization of Polymerase Chain Reaction (PCR) for the detection of Leptospira recurrent Uveitis A (Lru A) and Lru B from intraocular specimens for uveitic patients" at ARVO 2011 Conference held at Fort Lauderdale, USA from 1st to 5th May 2011.
- ❖ Dr J Biswas gave an invited lecture on Ocular Pathology & Uveitis at Rajan Eye Care Hospital, Chennai on 4th May 2011
- ❖ Dr. T S Suredran, Dr. K Veena, Dr. M Ram Prakash, Dr. J Vijay Ananth & Dr. Sumita Agarkar attended the CME on Paediatric Ophthalmology at Chennai on 7th May 2011.
- ❖ Dr. J Biswas attended the Jaipur Ophthalmological Society Meeting at Ramada on 4th June 2011 and gave a lecture on Diagnostic and Therapeutic Challenges in Uveitis & Slide Quiz.
- ❖ Dr Tarun Sharma attended the AMAC ACUITY Advisory Board Meet in Serbia from 8th to 11th June 2011 and gave an Invited Lecture.



VISION RESEARCH FOUNDATION

- ❖ Dr. H. N. Madhavan attended the "Anti Infective Council Meeting for AFE" from 17th - 19th June 2011 at Hilton Hotel, Singapore organized by R&D division of Alcon Laboratories (Fort Worth, USA).
- ❖ A function for naming of the Kamal Nayan Bajaj Research Center was held on 04th July 2011. The Chief Guest of the function was Dr T Ramasami Secretary to the Government of India, Department of Science and Technology and the Guest of Honor was Padma Vibushan Sri. V Krishnamurthy, Chairman, National Manufacturing Competitiveness Council, New Delhi
- ❖ Dr L. Vijaya, Dr Ronnie George, Dr Aditya Neog participated in the meeting of World Glaucoma Association held at Paris in July 2011.
- ❖ Dr. S. Krishnakumar and Dr. J. Narayanan attended the International workshop on Microsystems for Health and Environmental applications in Bangalore from 15-16 July, 2011.
- ❖ Dr. H. N. Madhavan delivered a lecture entitled "Recent diagnostic techniques in Management of Infectious diseases" during the CME programme conducted on 16th July 2011 at Sri Ramachandra Medical College (SRMC), Porur. Ms. M. Sowmiya, Ms. M. K. Janani and Ms. M. Vimalin Jeyalatha attended the CME programme
- ❖ Mrs. K. Mohanasundari, Senior executive, Microbiology Department attended the training programme on "Quality Management system & internal audit" held in SRMC, Porur, Chennai from 20th to 23rd July 2011.
- ❖ Prof. S Venkateswaran Endowment was instituted on 23rd July 2011 and an MoU with The Missouri University signed. A Seminar on Collaborative Research in "Nano-Technology and Ophthalmology" was conducted on that day.
- ❖ Dr. J. Malathi delivered an invited lecture entitled "Viral Conjunctivitis" during the CME programme on Ocular infections conducted on 23rd July 2011 at LAICO - Auditorium (Aravind Medical Research Foundation), Aravind Eye Hospital, Madurai.
- ❖ Dr. Angayarkanni N. attended the Indian Eye Research Group Meet 2011 at Hyderabad on July 31, 2011 and gave an invited talk on "Paraoxonase in Diabetic Retinopathy".
- ❖ Dr. S. Krishnakumar participated in the IERG conference held from 30-31 July, 2011 at Hyderabad.
- ❖ Dr V Umashankar attended the Indian Eye Research Group Meet 2011 at Hyderabad on 30th & 31st July 2011 and made a presentation on "Genotype to Phenotype SNPs Annotation – An Insilico Approach".
- ❖ Dr Kaviarasan, Ms Bharathselvi & Ms Srilatha Jasty participated in the Indian Eye Research Group Meet 2011 at Hyderabad on 30th & 31st July 2011 and they made presentations on "Increased levels of oxidized LDL antibody (oxLDL-Ab) in Diabetic Retinopathy"; "Increased Thiolation & Homocysteinylation of Protein are responsible for pretein damage in ED" and "Neural potential and gene expression of the stem or progenitor cells isolated from ciliary pigment epithelium" respectively.



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- ❖ Dr. B. Mahalakshmi, Ms. L. Dhanurekha, Ms. M. K. Janani, Ms. M. Vimalin Jeyalatha attended the Indian Eye Research Group (IERG) meeting held at L. V. Prasad Eye Institute, Hyderabad from 29th to 31st July 2011. Dr. B. Mahalakshmi presented a poster entitled "Serotyping of *Toxoplasma Gondii* By ELISA in Ocular Toxoplasmosis Patients", Ms. L. Dhanurekha presented a poster entitled "*In vitro* antifungal susceptibility testing by disk diffusion method against amphotericin B and voriconazole on ocular isolates of non sporulating moulds", Ms. M. K. Janani presented a poster entitled "A Study On An Epidemic Of Acute Keratoconjunctivitis In Chennai: Isolation Of A Novel Human Adenovirus Identified Based On Phylogenetic Analysis", and Ms. M. Vimalin Jeyalatha presented a poster entitled "Study to evaluate the effect of UV rays on riboflavin treated cadaveric corneal limbal stem cells".
- ❖ Dr Tarun Sharma, Dr L Vijaya, Dr Sudharshan, Dr Rajiv Raman, Dr Kasinathan N, Dr Chetan Rao, Dr Dhanashree Ratra, Dr Pukhraj Rishi, Dr Veena, Dr Bipasha Mukherjee, Dr Sumita Agarkar, Dr S Meenakshi, Dr Amala Elizabeth George, Dr Ronnie George, Dr Ekta Rishi, Dr Pukhraj Rishi and Dr. A Parivadhini participated in the 59th Annual Conference of the Tamil Nadu Ophthalmic Association at Tirunelveli, from 5th to 7th August 2011.
- ❖ Dr. H. N. Madhavan, Dr. K. Lily Therese, Dr. J. Malathi and Research scientists attended the seminar on "Whole genome sequencing techniques on different platforms and Bioinformatics support" on 09th August 2011 at KNBIRVO Block.
- ❖ Dr. J. Biswas attended the "Investigators meeting" at Hyderabad on 25th August 2011.
- ❖ Dr. S. Krishnakumar attended the CME Programme in Tirunelveli Medical College, Tirunelveli and gave an invited talk on Nanomedicine in Ophthalmology on 26th August 2011.
- ❖ Our foundation organized the First Ophthalmic Forum of Indian Society of Anesthesiologists, at Chennai from 3rd to 4th September 2011.
- ❖ Dr. Nivedita Chatterjee attended Stem cell Hands-on course at NCBS on 4th to 6th September 2011.
- ❖ Our foundation organized the First Ophthalmic Forum of Indian Society of Anesthesiologists, at Chennai from 3rd to 4th September 2011.
- ❖ Dr J Biswas attended the meeting of Mysore Ophthalmic Association in Mysore on 18th September 2011 and gave a lecture on "Diagnosis & Therapeutic Challenges"
- ❖ Dr Muna P Bhende participated in the Japan Clinical Ophthalmology Congress in Tokyo from 7th to 9th October 2011 and made a presentation on "Polypoidal choroidal vasculopathy in Indians with special reference to our data and also results of anti Vegf monotherapy in PCV".
- ❖ Dr J Biswas participated in the Japan Clinical Ophthalmology Congress in Tokyo from 7th to 9th October 2011.



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- ❖ Dr Ronnie George, Dr Manish Panday, Dr Aditya Neog, Dr Maneesh Singh, Dr B Shantha and Dr L Vijaya attended the XXI Annual Meeting of Glaucoma Society of India at Mumbai from 7th to 9th October 2011. Dr Ronnie George made a presentation on "Assessing Visual Field Progression"; Dr Manish Panday on "Frequency Doubling Perimetry and Short Automated Perimetry"; Dr Aditya Neog on "Pitfalls in Perimetry: Cases" and conducted Slide Quiz; Dr Maneesh Singh made on "Comprehensive Eye Examination"; Dr B Shantha on "Newly diagnosed glaucoma patients should undergo" and "a primary surgery instead of medical therapy" and Dr L Vijaya made presentations on "TVT Study: Outcome and Implication for India".
- ❖ Dr Meenakshi S participated in the European Pediatric Ophthalmology Society Congress 2011 at Greece from 13th to 15th October 2011 and made a presentation on "Clinical profile and use of low vision care devices and vision enhancement techniques in children with rod-cone and cone-rod and cone dystrophy.
- ❖ Dr. J. Biswas attended Dr. R.V. Rajam Oration at National Academy of Medical Sciences Annual meeting at Bhubaneswar on 13th October, 2011.
- ❖ Dr Prema Padmanabhan attended the APACRS conference at Seoul, Korea from 13th to 16th October 2011 and gave a presentation on Clinical Evaluation of the Allegro Biometer.
- ❖ Ms. Gayathri attended the Proteomic workshop held at Water's India Ltd in Oct 2011.
- ❖ Ms. H. Manjula and Mrs. A. Joicehalitha attended the Autoimmune IVD workshop on "New advances for standardization" organized by Biosystems Diagnostics Pvt. Ltd. Factory on 19th October 2011 at Pleasant Days Resort, Chennai.
- ❖ Dr. K. Lily Therese delivered an invited lecture entitled "PCR based DNA SEQUENCING technique for detection of Drug resistance of *Mycobacterium tuberculosis* isolates for the First line antituberculous drugs" during the workshop on Molecular diagnostic techniques conducted under the banner of IAMM Tamilnadu & Pondicherry chapter on 2nd November 2011 at Aravind Eye hospital, Madurai.
- ❖ Dr. J. Biswas attended International Ocular Inflammation Society meeting at Goa on 12th November 2011.
- ❖ Dr. N Angayarkanni, Mr. R Bhuvanansundar, Mr. Sivasankar S, Ms. Jasna J.Mohan, Dr. Coral Miriam K, Mr. M Arun, Ms. Vidhya S and Mr. Jagaveerapandian.S participated in the 80th SBC(I) Annual meeting held at Central Institute of medical and Aromatic Plants, Lucknow from 12th -15th Nov. 2011.
- ❖ Dr. K. Lily Therese attended and delivered an invited lecture entitled "Conventional and current molecular investigations in Post operative Uveitis – Laboratory perspective" during the 11th International Ocular inflammation society congress and Annual meeting of Uveitis society of India held at Goa on 13th November 2011.
- ❖ Dr Pramod S Bhede attended The International Ocular Inflammation Society in Goa from 13th to 16th November 2011 and gave presentations on "Management of inflammation following VR surgery" and "Surgery for intraocular parasites".



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- ❖ Dr Biswas J participated in the Uveitis Society of India Conference in Goa from 13th to 16th November 2011.
- ❖ Dr. J. Biswas attended West Bengal Ophthalmological Society meeting in Kolkata on 24th November 2011.
- ❖ Dr. B. Mahalakshmi, Ms. R. Gayathri and Ms. M. Sowmiya attended the XXXV National conference of Indian Association of Medical Microbiologists organised by Department of Microbiology, Institute of Medical sciences, Banaras Hindu University (BHU) Varanasi on 23rd - 26th November 2011. The titles of their Presentations are Dr. B. Mahalakshmi - Evaluation of in-house Fluorescent Antinuclear Antibody (FANA) test using HEP-2 cells and commercial ELISA for the detection of antinuclear antibodies in uveitis patients, R. Gayathri - Detection of novel mutations and functional analysis using bioinformatics tools in pyrazinamide resistant *Mycobacterium tuberculosis* isolates targeting *pncA* gene for oral presentation and Ms. M. Sowmiya's full length paper competed for IAMM Junior Best paper award 2011 entitled "A hospital based study on microbiological and DNA based molecular analysis of *Propionibacterium acnes*" isolated from ocular specimens.
- ❖ Dr. J. Narayanan attended the IIT Bombay for a workshop on MEMS organized by Electronic and Communication Engineering Dept from 28th November till 6th December 2011.
- ❖ Mr. Saravanan and Ms. Barathselvi attended the Proteomic workshop held at Water's India Ltd from 29th November to 2nd December 2011.
- ❖ Dr Tarun Sharma, Dr Biswas J, Dr Muna Bhende, Dr Vikas Khetan, Dr S Pradeep, Dr Suganeswari, Dr Krishnendu Nandi and Dr Aditya Verma participated in the APVRS Conference held at Hyderabad between 30th November and 3rd December 2011. They delivered lectures viz., Dr Tarun Sharma – "Changing Surgical Principal of Diabetic Vitrectomy"; Dr Biswas J – "Fine Needle Aspiration Bipsy in Maquerade Syndrome" and Dr Muna Bhende – "Challenging Retinal Cases: What could this Be?" and others made poster presentations viz., Dr Vikas Khetan - "Eye wall resection for r/o tumors: Our experience" ; Dr S Pradeep – "Five Unusual Cases of Non Keratitic Nocardia Infection"; Dr Suganeswari – "OCT characteristics of CHR-RPE – An indian perspective"; Dr Krishnendu Nandi – "Abscess in Other Eye Caused by Seccosporium Apiospermum Fungus" and Dr Aditya Verma – "Demonstrating retinal damage in patients with DM having no DR".
- ❖ Dr. K. Lily Therese attended and delivered an invited talk in the session entitled "Quality Assurance in Molecular Microbiology and Virology" during the one day CME Programme on Quality assurance in Microbiology held on 3rd December 2011 at Andhra chamber of commerce, Nandanam, Chennai.
- ❖ Ms. M. Vimalin Jeyalatha, Junior Scientist and Ms. Faritha Banu attended the one day CME Programme on Quality assurance in Microbiology and Ms. Farithabanu attended the one day CME Programme on Infection control and accreditation held on 3rd and 4th December 2011 respectively at Andhra chamber of commerce, Nandanam, Chennai.



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- ❖ Dr Prema Padmanabhan participated in the 7th International Congress of Corneal Cross-Linking at Zurich, Switzerland on 9th & 10th December 2011 and gave a presentation on "Effect of CXL on Corneal Limbal Epithelial Cells".
- ❖ Dr. V. Umashankar delivered an invited talk on "Open source Software for Bioinformatics" at National Level Conference on Statistical Methods for Bioinformatics 2011 conducted by National Institute of Tuberculosis Research, Chennai.
- ❖ Dr. Nivedita Chatterjee participated at the 35th All India Cell Biology Meeting at Bhuvaneshwar on 15th December 2011.
- ❖ Dr Pramod S Bhende participated in the International Symposium on DRP & Retinal Vascular Disease at Madurai from 7th to 8th January 2012 and made presentations on "Anti-VEGF in diabetic vitrectomy" and "Surgery for ROP, functional & anatomical outcome-SN experience".
- ❖ Dr Biswas J attended the AIOS-Sun Pharma Post Graduate Refresher Course conducted at B J Medical College, Pune, on 20th & 21st January 2012 and gave a lecture on "Diagnostics and therapeutic challenges in uveitis".
- ❖ Dr. S. Krishnakumar delivered a lecture at the Symposium at Frontier Lifeline Hospital on 21st January 2012.
- ❖ Dr Biswas J attended the MCOA Retina Meet at Chennai held on 29th January 2012 and gave a talk on "Algorithm of management of non infectious posterior uveitis".
- ❖ Dr. H. N. Madhavan delivered a lecture on "Experiences on the Investigations on Corneal Limbal Stem Cultures at Vision Research Foundation, Sankara Nethralaya, Chennai" during the 8th Annual Conference of STEM - 2012 at Hyderabad from 31st January - 1st February 2012.
- ❖ Dr. J Biswas attended the AIOS conference in Cochin where he received the Honorary Fellowship of All India Collegium of Ophthalmology award on 1st February 2012.
- ❖ Dr Badrinath SS attended the AIOS Conference at Cochin between 2nd and 5th February 2012 and gave a lecture on "My views on ophthalmic practice & Future of Indian ophthalmology".
- ❖ Dr Tarun Sharma, Dr Dhanashree Ratra, Dr Parveen Sen, Dr Pukraj Rishi, Dr Amala Elizabeth George, Dr Ekta Rishi, Dr Chetan Rao, Dr Bipasha Mukherjee, Dr Jaichandran V V, Dr Suchitra Pradeep, Dr. B. Shantha, Dr Ronnie George, Dr Sripriya Krishnamoorthy, Dr Maneesh Singh and Dr Aditya Neog participated in the AIOS Conference at Cochin between 2nd and 5th February 2012.
- ❖ Dr Shikha Rajesh Bassi & Dr. Shweta S Agarwal participated AIOS Conference held at Cochin on 4th February 2012 and made paper presentation on "Optical Coherence Tomography in Papilledema and Pseudopapilledema with or without Optic disc drusen" & "The 8 year experience with MOOKP in India - Where do we stand?" respectively.



VISION RESEARCH FOUNDATION

- ❖ Dr Akila Ramkumar V attended the conference, FUSION 2012 at Hyderabad from 12th to 14th February 2012 and made presentations on Amblyogenic risk factors in children with CNLDO & Axenfeld rieger anomaly – A rare association with nanophthalmos.
- ❖ Dr Tarun Sharma, Dr. J Biswas, Dr Bipasha Mukherjee, Dr L Vijaya attended the World Ophthalmic Congress at Abu Dhabi from 15th to 20th February 2012. They made presentations in the conference, viz., Dr. Tarun Sharma – “IC: Eye Trauma and Emergencies”, “Controversies in Management of Ocular Trauma” & “Diabetic Retinopathy: Tackling the Global Giant”; Dr Biswas – “Tubercular uveitis”; “Fine needle aspiration biopsy” & “Indications of vitreous, retinal, retinchoroidal biopsy”; Dr Bipasha Mukherjee – “Sebaceous gland carcinoma” and Dr Vijaya – “NVG-retina & glaucoma perspective” and “Difficult glaucoma – clinical situations”.
- ❖ Ms. R. Gayathri, Senior Scientist and Mrs. Y. Faritha Banu, Laboratory technician from Microbiology department attended the NABL internal auditor training programme on “Quality Management system & internal audit” held in SRMC, Chennai from 22nd to 24th February 2012.
- ❖ Mr. Arun, Senior Research Fellow attended the National Level Instructional Workshop on “Bioinformatics and Computational Biology” from 21st to 25th February 2012 at Loyola College, Chennai.
- ❖ Dr. K Coral, CME programme cum Hands-On training Workshop titled “GUIDELINES ON METHOD VALIDATION” on 25th February 2012 at Madras Medical College.
- ❖ Dr. N. Angayarkanni and Mr. Sivasankar attended the Seminar and Workshop on “Applications of Confocal Microscopy” at Sri Ramachandra University, Chennai from 27th to 29th February 2012.
- ❖ Dr. Nivedita Chatterjee, Dr. KN Sulochana & Dr. Subbulakshmi attended the International Conference on Angiogenesis at Green Coconut Resort, Chennai from 1st to 3rd March 2012. Dr. Sulochana gave an invited lecture on “Copper transporter 1: a novel target for regulating angiogenesis” and Dr. Subbulakshmi made a poster presentation on “Synergistic action of PEDF and adiponectin in promoting anti-angiogenic effect in ocular pathologies”.
- ❖ Ms. N. Srikrupa, Ms. P. Ferdina Marie Sharmila, Ms. C.Sathyapriya & Ms. S. Srilekha participated in the International Conference on Genes, Genetics & Genomics: Today & Tomorrow- Human Concerns and XXXVII Annual Conference of The Indian Society of Human Genetics from 3rd to 5th March 2012, at Punjab University, Chandigarh. Ms Srikrupa made a presentation on “A Novel Mutation In SLC19A2 Gene In A South Indian Patient With Thiamine-Responsive Megaloblastic Anaemia (TRMA)”; Ms. Sharmila on “Genetic association study of MFRP and VSX2 genes with myopia and correlation of MFRP CGTCGG haplotype with decreased AXL in Indian population”; Ms. Sathyapriya on “Novel missense mutation in ARL6 gene causes Bardet-Biedl Syndrome in Indian families” and Ms. Srilekha on “Screening of Mitochondrial Genes for the three primary Mutations in suspected Leber Hereditary Optic Neuropathy (LHON) patients of Asian Indian origin”.
- ❖ Dr. V. Umashankar attended the talk given by Dr. Michael Lelivit, Director of Bioinformatics, Ion torrent Inc USA on “roadmap to \$1000 genome” on 7th March 2012 held at Bangalore.



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- ❖ Dr Sagar Bhargava participated in the West Bengal Conference in March 2012.
- ❖ Dr. J Biswas delivered a lecture on at Shroff Eye Centre on 24th March, 2012 in Delhi and at RP centre on 26th March. He received the "Bharath Jyoti" award from India International on 27th March 2012.
- ❖ Dr Sagar Bhargava and Dr Nirha Rao attended the Young Ophthalmologists Congress in Bangkok in March 2012.



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DISTINGUISHED VISITORS

- ❖ Mr. & Mrs. Natwar Singh, former Minister of External affairs of India visited our Foundation on 8th April 2011.
- ❖ Mr. Francisca Ghin, Regional Marketing Manager from Abbott Medical Optics visited our L & T Microbiology department on 20th April 2011.
- ❖ Mr. Rustin Floyd, Global Product Manager, Wavelight, Alcon laboratories Inc., visited our Microbiology & Genetics Labs on 11th May 2011.
- ❖ Dr. Ranindra D Bapat visited our foundation on 21st May 2011 and gave a lecture on "Ethics on Clinical Management".
- ❖ Mr. Roy Acostra, Vice President of Alcon Laboratories, Texas, USA, visited our Genetics Lab on 24th June, 2011.
- ❖ Dr. Raja Sri Birla, Aditya Birla Group of Companies visited on 25th June 2011.
- ❖ Dr. Vinay Nangia, Suraj Eye Hospital, Nagpur, visited Genetics Lab on 2nd July 2011 and he expressed his interest in collaborating with our foundation on ARMD studies.
- ❖ Dr. D. Ramamurthy, Chairman, Eye Foundation at Ooty visited on 3rd July 2011.
- ❖ Prof. D. Balasubramaniam, Research Director, L.V.Prasad Eye Institute, Hyderabad, visited our labs on 4th July 2011.
- ❖ Mr. Niraj Bajaj, Co-Chairman and Managing Director, Mukand Ltd., visited Genetics Lab on 4th July 2011
- ❖ A Team of Delegates from UFA Eye Institute & Research Center, (UFA), Russia visited Vision Research Foundation on 7th July 2011.
- ❖ Dr. Vidya, from Chennai Dental Research Foundation visited Pathology and Stem Cell Lab to initiate the collaborative work on dental pulp cells on 13th July 2011.
- ❖ Dr. Anil Tarigopala, Junior Consultant, and Ms. Varalakshmi, Senior Technical Officer, Apollo Hospitals visited Genetics lab on 17th August 2011.
- ❖ Prof. Theo Seiler, Md. Ph.D., Professor & Chairman, Department of Ophthalmology, University of Zurich, Switzerland, visited Sankara Nethralaya on 19th & 20th August 2011 and gave a Guest Lecture.
- ❖ Mr. A. B. Bhale Rao, Director and Mr. B. Mukundhan, DGM, Garware Polyester Ltd, visited on 23rd August 2011.
- ❖ The Kanoi group visited the stem cell lab on 31st August 2011.
- ❖ Mr. Raju Barwale and Ms. Usha Barwale visited on 2nd September 2011



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- ❖ Dr. Johannes van der Steen, Associate professor, Erasmus MC, Rotterdam and Director Research-Master of Neuroscience program and Dr. JJM Pel, Scientific Researcher, Erasmus MC, Rotterdam visited our foundation in September 2011, as a partner institute for our Indo-Dutch study "An eye tracker perimeter - an intuitive tool for affordable glaucoma diagnosis and screening". The potential role of the instrument being developed was discussed at length with inputs from both sides. This was followed by two interesting talks on the eye tracker for everyone and its use in areas beyond glaucoma as in CVI (Cerebral Visual Impairment) in children was demonstrated.
- ❖ Mr. R Gopi Kumar, Chief Finance Officer, FLEMING Asset Management and Vice President at India Botswana Chamber of Commerce & Industry and Shareholder at Kukara Capital (Pty) Ltd., Botswana, visited Genetics & Pathology labs on 18th October 2011.
- ❖ Prof. Narsing A Rao, Professor of Ophthalmology and Pathology at the Keck School of Medicine and Director of Uveitis Service at the Doheny Eye Institute gave a lecture on Spermigous Choroiditis, Pathogenesis and Management on 21st November 2011.
- ❖ Dr. Parthiban, Lab Director and Dr. K. Sathyavani, Asst. Lab Director, Prof. M. Viswanathan Diabetes Research Centre visited Genetics Lab on 21st November 2011.
- ❖ Prof. Survo Chatterjee from Anna University visited on 29th November 2011 and gave a talk on "Multiple roles of shear stress in Vascular functions: Nitric oxide is the key".
- ❖ Dr. Saman Senanayake from Teaching Hospital, Kandy, Srilanka, visited on 29th November 2011.
- ❖ Dr. Lokesh Gupta, Vitreo Retinal Specialist from Vision Welfare & Research Foundation, New Delhi, 6th December 2011
- ❖ Dr. Lokesh Gupta from Retina unit, ALNAHDA Hospital, Muscat, visited Genetics Lab on 7th December 2011.
- ❖ Dr. Harsha Bhattacharjee, Specialist in Ophthalmology Guwahati, Assam visited Pathology lab on 17th December 2011.
- ❖ Dr. Sujal Shah, D.N.B (Oph), Cornea & Refractive Surgeon (LASIK) from Samyak Drishti, Mumbai visited Genetics Lab on 27th December 2011.
- ❖ Dr. Sunil Shah, SN Alumni visited Pathology lab on 27th December 2011.
- ❖ Dr. Monica Chertes Gavris & Mr. Raluca Ophthalmologist from Alcon, Romania (Clinica private de oftalmologie) visited Genetics & Pathology Labs on 10th January 2012.
- ❖ Dr. Gopal Vaidyanathan, General Manager – Mass Spectrometry and Mr.S.Sivakumar, Product Executive – Mass Spectrometry, from Waters India Pvt Ltd. Bangalore, visited on 12th January 2012.



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- ❖ Dr. Shubhra Gangopadhyay, Co-Director of the MU International Center for Nano/Micro Systems and Nanotechnology and Dr. Keshab Gangopadhyay, Research Professor, Dept. of Electrical and Computer Engineering, University of Missouri visited our lab on 20 January, 2012.
- ❖ Dr Sohan Singh Hayreh delivered a guest lecture on Central Retinal Vein Occlusion (CRVO) on 9th February 2012.
- ❖ Dr. S. Srinivasan, MD, Medical Advisor, from Counsyl, CA visited Genetics Department on 17th February 2012, and discussed about the Universal Genetic Test which they offer.
- ❖ Dr. Raja Guru, Prof. of Biotechnology from Anna University of Technology, Tiruchirappalli visited Biochemistry & Cell Biology Lab on 18th Feb 2012
- ❖ Dr. Carel, Project Co-Ordinator, Extended Wear Silicone Oil Project, Johnson & Johnson Vision Care Inc., Florida visited Genetics Lab on 3rd March 2012.
- ❖ Dr. Debashis Sahoo, Instructor of Pathology and Siebel Fellow at Institute of Stem Cell Biology and Regenerative Medicine, Stanford University delivered a lecture on Boolean networks on 12th March, 2012.