NOTICE IS HEREBY GIVEN TO THE MEMBERS OF VISION RESEARCH FOUNDATION THAT THE 35TH ANNUAL GENERAL MEETING OF VISION RESEARCH FOUNDATION WILL BE HELD ON SATURDAY, THE 14TH SEPTEMBER 2019 AT 4.30 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


2. To consider and adopt the Audited Income and Expenditure Account for the year ended March 31, 2019 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 2019–20 and to fix their remuneration.

4. To appoint the following Member to the Board of Management in the vacancy caused by his retirement, who is eligible for re-appointment:

<table>
<thead>
<tr>
<th>Name</th>
<th>Category of Membership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. T S Surendran</td>
<td>Honorary Member</td>
</tr>
</tbody>
</table>

Kindly make it convenient to attend the meeting.

DR S BHASKARAN
HONY. SECRETARY

Note:
Explanatory statement for Item 4 of the Agenda is attached.
Explanatory Statement

Refer Item No 4 of the Agenda

The following member was appointed to the Board of Management for a period of three years at the 32nd Annual General Meeting held on 24th September 2016:

**Name**
Dr. T S Surendran

His term of appointment expires at the end of the Annual General Meeting on 14th September 2019. 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 Ronnie Jacob George  President
Dr S Bhaskaran  Honorary Secretary
Mr R S Falor  Honorary Treasurer

Members of the Board

Dr S S Badrinath  Member
Dr J Biswas  Member
Mr Homi C H Bhabha  Member
Dr H N Madhavan  Member
Dr Lingam Gopal  Member
Dr T S Surendran  Member
Dr M S Swaminathan  Member
Mr V Vaidyanathan  Member
Dr S B Vasanthi  Member
Dr L Vijaya  Member

Chief Operating Officer  Dr. K. S. Vasan
Director – Research  Dr. Ronnie Jacob George
Deputy Director – Research  Dr. S Krishnakumar
Manager  Mr. S Narayan

Auditors  M/s S Viswanathan LLP
Chartered Accountants, Chennai

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

Registered Office  New No.41, Old No.18, College Road
Chennai – 600 006
INSTITUTIONAL REVIEW BOARD
(ETHICS COMMITTEE) MEMBERS

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

RESEARCH SUB-COMMITTEE MEMBERS

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

RESEARCH CELL COMMITTEE MEMBERS

Dr. Ronnie Jacob George
Dr. H N Madhavan
Dr. L Vijaya
Dr. S Krishnakumar
Dr. Sumita Agarkar
Dr. J Biswas
Dr. R R Sudhir
Dr. Vikas Khetan
Dr. Kalpathy R K Easwaran
Dr. Prema Padmanabhan
Dr. N Angayarkanni
VISION RESEARCH FOUNDATION

INSTITUTIONAL COMMITTEE FOR STEM CELL RESEARCH

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

INSTITUTIONAL BIOLOGICAL SAFETY COMMITTEE

Dr. H.N. Madhavan  
Dr. Gunasekar  
Dr. M Natarajan  
Mr. S Narayan  
Dr. S Krishnakumar
Report of the Honorary Secretary to the Members of the Foundation

It gives me great pleasure to welcome you all to this 35th Annual General Meeting of our Foundation. I am pleased to present the Thirty Fifth Annual Report of Vision Research Foundation. The thirty fourth Annual General Meeting of the Foundation was held on 22nd September 2018 in which the Annual Report and the Audited Accounts of the Foundation for the financial year ended 31st March 2018 were approved by the members and M/s. S Viswanathan LLP, Chartered Accountants, were re-appointed as Auditors for the financial year 2018-19.

The donations received during the year under report were Rs.164.81 lakhs as compared to Rs. 258.02 lakhs in the previous year. The gross total income for the year under review was Rs.746.16 lakhs including research grants and interest on deposits. The total expenditure before providing depreciation was Rs.859.55 lakhs resulting in a cash deficit of Rs.113.38 lakhs. After considering depreciation for the year and loss on condemned assets, there was a net deficit of Rs.244.04 lakhs, which was carried over to the capital fund account.

Summary of Source and applications are as follows:

<table>
<thead>
<tr>
<th>Sources</th>
<th>Rs. in Lakhs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Decrease in Net Current Assets</td>
<td>174.70</td>
</tr>
<tr>
<td>2. Increase in Net Current Liabilities</td>
<td>5.60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>180.30</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applications of Funds</th>
<th>Rs. in Lakhs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Increase in Fixed Assets</td>
<td>66.92</td>
</tr>
<tr>
<td>2. Cash Deficit</td>
<td>113.38</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>180.30</strong></td>
</tr>
</tbody>
</table>
The foundation has received a sum of Rs.471.28 lakhs as research grants during the year under review as per the details given below:

<table>
<thead>
<tr>
<th>Research Grants – Basic Science</th>
<th>2018-19</th>
<th>2017-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Council of Science &amp; Industrial Research</td>
<td>7.46</td>
<td>11.72</td>
</tr>
<tr>
<td>2. Indian Council of Medical Research</td>
<td>69.79</td>
<td>55.75</td>
</tr>
<tr>
<td>3. Department of Biotechnology</td>
<td>159.54</td>
<td>135.20</td>
</tr>
<tr>
<td>4. Department of Science &amp; Technology</td>
<td>51.66</td>
<td>68.82</td>
</tr>
<tr>
<td>5. Bayer Pharmaceuticals Pvt Ltd</td>
<td>5.58</td>
<td>.00</td>
</tr>
<tr>
<td>6. NHS Foundational Trust</td>
<td>50.96</td>
<td>6.55</td>
</tr>
<tr>
<td>7. Indian Institute of Technology</td>
<td>6.07</td>
<td>2.74</td>
</tr>
<tr>
<td>8. Fellowship Programme</td>
<td>60.87</td>
<td>33.36</td>
</tr>
<tr>
<td>9. The Glaucoma Foundation</td>
<td>7.73</td>
<td>.00</td>
</tr>
<tr>
<td>10. Others</td>
<td>.00</td>
<td>2.60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>419.66</strong></td>
<td><strong>316.74</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinical Science</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Excel Life Sciences Pvt. Ltd.</td>
<td>5.09</td>
<td>5.31</td>
</tr>
<tr>
<td>12. Heads AS</td>
<td>.00</td>
<td>28.25</td>
</tr>
<tr>
<td>13. Indiana University</td>
<td>17.01</td>
<td>.00</td>
</tr>
<tr>
<td>14. Manipal Academy of Higher Education</td>
<td>5.86</td>
<td>.00</td>
</tr>
<tr>
<td>15. Microsoft India (R &amp; D) Pvt Ltd.</td>
<td>5.88</td>
<td>.00</td>
</tr>
<tr>
<td>17. Others</td>
<td>0.60</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>51.62</strong></td>
<td><strong>39.99</strong></td>
</tr>
</tbody>
</table>

**Grand Total** | **471.28** | **356.73**

**Research Activities:**

Research activities during the financial year were satisfying. A number of projects were submitted to the Department of Science and Technology and Department of Biotechnology.
The projects which were under consideration by the Govt. agencies as on date are as under:

<table>
<thead>
<tr>
<th>Title of the Project</th>
<th>Funding Agency</th>
<th>Grant Amount for 2019-20 (Value in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rational Design of novel peptide inhibitors targeting DNA-Topoisomerase-II-Beta through virtual screening of combinatorial peptide libraries and in vitro validation of anticancer efficacies [Dr V Umashankar]</td>
<td>Indian Council of Medical Research</td>
<td>17,89,110/-</td>
</tr>
<tr>
<td>RNA guided Nuclease based targeted genome editing for retinitis pigmentosa [Dr Sowmya Parameswaran]</td>
<td>Department of Biotechnology</td>
<td>26,61,000/-</td>
</tr>
<tr>
<td>Mesenchymal stem cell mitochondrial transfer effectively protects mutant Laber's Hereditary Optic Neuropathy (LHON) cells from mitochondrial damage: Molecular and epigenetic screening of LHON patients [Dr Mohana Devi]</td>
<td>Science &amp; Engineering Research Board</td>
<td>13,70,000/-</td>
</tr>
<tr>
<td>Screening of epigenetic markers in Leber hereditary optic neuropathy (LHON) cells for mitochondrial dysfunction [Dr Mohana Devi]</td>
<td>Indian Council of Medical Research</td>
<td>12,10,000/-</td>
</tr>
<tr>
<td>Analysis of protective effect of stem cells on mutant Leber's Hereditary Optic Neuropathy (LHON) in LCL cells [Dr Mohana Devi]</td>
<td>Council of Scientific &amp; Industrial Research</td>
<td>9,90,000/-</td>
</tr>
<tr>
<td>Ocular Biological senescence evaluation and science study (OBSESS) [Dr. Nivedita Chatterjee]</td>
<td>Indian Council of Medical Research</td>
<td>50,00,000/-</td>
</tr>
</tbody>
</table>

During the year, five meetings of the Board of Management were held and Institutional Review Board (Ethics Committee)/Research Sub-Committee met four times.
## VISION RESEARCH FOUNDATION

### Manpower Details :-

<table>
<thead>
<tr>
<th>Manpower</th>
<th>As on 31st Mar 2019</th>
<th>As on 31st Mar 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Directors</td>
<td>03</td>
<td>05</td>
</tr>
<tr>
<td>Deputy Director / Head of the Dept / Chief Scientist / Professor</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Head of the Department / Senior Director</td>
<td>01</td>
<td>00</td>
</tr>
<tr>
<td>Head of the Dept / Chief Scientist / Senior Professor</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Head of the Department / Chief Scientist / Professor</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>Head of the Department / Principal Scientist / Associate Professor</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Manager</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Senior Principal Scientist / Associate Professor</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>Principal Scientist / Associate Professor</td>
<td>06</td>
<td>05</td>
</tr>
<tr>
<td>Senior Scientist II / Assistant Professor</td>
<td>03</td>
<td>04</td>
</tr>
<tr>
<td>Senior Associate Professor</td>
<td>01</td>
<td>00</td>
</tr>
<tr>
<td>Senior Scientist / Sr Research Scientist</td>
<td>02</td>
<td>00</td>
</tr>
<tr>
<td>Post Doc. Fellow / Research Associate</td>
<td>03</td>
<td>02</td>
</tr>
<tr>
<td>Project Manager / Project Coordinator</td>
<td>05</td>
<td>00</td>
</tr>
<tr>
<td>Senior Research Fellows</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>Junior Research Fellows</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Social Workers / Field Workers</td>
<td>05</td>
<td>00</td>
</tr>
<tr>
<td>Research /Project / Technical Asst</td>
<td>05</td>
<td>05</td>
</tr>
<tr>
<td>Junior Scientist</td>
<td>07</td>
<td>05</td>
</tr>
<tr>
<td>Optometrist</td>
<td>03</td>
<td>01</td>
</tr>
<tr>
<td>Executives / Staff / Technicians</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>Bio-statistician</td>
<td>01</td>
<td>01</td>
</tr>
<tr>
<td>Part Time Scientists</td>
<td>61</td>
<td>77</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>162</strong></td>
<td><strong>159</strong></td>
</tr>
</tbody>
</table>
Conclusion:

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

I am pleased to inform you that at the request of Dr. G N Rao from Indian Eye Research Group (IERG), “Dr. S S Badrinath Oration for Research in Ophthalmic & Visual Science” was instituted at the 25th Meeting of the Indian Eye Research Group held during July 2018 and the 26th Annual Meeting of the Indian Eye Research Group for the year 2019 will be hosted by Vision Research Foundation in July 2019.

The sixth 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 “Amino Acid Compositions for the Treatment of Diabetic Retinopathy” on 27th October 2018. The Inventor is Dr. N Angayarkanni, Department of Biochemistry & Cell Biology.

The income tax demand of Rs. 233.99 lakhs for the AY 2016-17 and Rs. 196 lakhs for the AY 2015-16 received from the Income Tax Department are pending with the Hon'ble High Court, Chennai.

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

My thanks are also due to the Auditors, M/s. S Viswanathan LLP 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 in relation to the income tax assessment of the foundation.
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 S Bhaskaran
Hony. Secretary
Vision Research Foundation
VISION RESEARCH FOUNDATION

HONOURS & AWARDS

- ‘The Times of India’ honoured Dr. S S Badrinath and conferred with the ‘Lifetime Achievement Award’ for his exemplary commitment and impactful contribution to the healthcare, at a function held at Chennai on 5th May 2018.

- Dr. S. Srilekha was awarded the Developing Country Eye Research Fellowship (DCERF) Award from The Association for Research in Vision and Ophthalmology (ARVO) for attending the annual meeting of ARVO 2018 at Honolulu, Hawaii, USA from 29th April to 3rd May 2018. She made a poster presentation on “Genetic survey of the primary mitochondrial mutations along with clinical correlation in suspected Leber Hereditary Optic Neuropathy (LHON) patients from an Indian Cohort”.

- Dr. Sangeetha Srinivasan, Research Fellow received Travel Grant from Department of Biotechnology for attending the Annual Meeting of The Association for Research in Vision and Ophthalmology (ARVO) at Honolulu, Hawaii, USA from 29th Apr to 3rd May 2018 and made a poster presentation on “Changes in Corneal Endothelial Morphology Over Four Years In Subjects With Type 2 Diabetes: A population based study”

- Mr. N. Murugan, received the Ph.D degree at Sastra University, Thanjavur, for his thesis entitled “NGS based Study on Genome, Drug resistance, Virulence Mechanism of Multi Drug Resistant Pseudomonas aeruginosa & its molecular diagnosis to in silico drug discovery”, under the guide-ship of Dr. J Malathi, Department of Microbiology, on 20th April 2018.

- Mr. Sivashankar was awarded the Ph.D Degree at at Sastra University, Thanjavur, for his thesis entitled “Anti-EMT activity of the extracts of Triphala and its active constituents, Chebulagic acid, Chebulinic acid, Gallic acid in the Retinal Pigment Epithelium and their Anti-angiogenic activity in Retinal Capillary Endothelium: An in vitro study” under the guide-ship of Dr. N. Angayarkanni, Biochemistry Department, on on 25th June 2018.


- Dr.S.S.Badrinath received the Certificate of Appreciation Award at the IERG - ARVO Conference 2018 as a Founding Member and for ongoing service to the Indian Eye Research Group.

- Mr. Samdani A, Bioinformatics Department, cleared the highly competitive DBT-BINC-2018 (Bioinformatics National Certification) and also secured All India Rank 8th position.
Ms Rizza A N received the Travel Grant Award for attending the 25th Annual Meeting of the Indian Eye Research Group held from 27th to 29th July 2018 and she made a poster presentation on “Replication study of SNPs identified by GWAS for diabetic retinopathy in south Indian population with type 2 diabetes”.

Ms Srikrupa NN was awarded the Travel Grant for attending the 25th Annual Meeting of the Indian Eye Research Group held from 27th to 29th July 2018. She made a poster presentation on “Next Generation Sequencing in Predictive diagnosis of Syndromic LCA/EORP”.

Mr. Gokulraj Pandiyan received the Travel Grant Award for attending the 25th Annual Meeting of the Indian Eye Research Group held from 27th to 29th July 2018 and he made a poster presentation on “The effect of matrix on PCL melphalan nanoparticles for RB tumor cells”.

Ms Lakshmi Priyankka received the Travel Grant Award for attending the 25th Annual Meeting of the Indian Eye Research Group held from 27th to 29th July 2018 and made a poster presentation on “MicroRNA in Ocular Vasculopathies”.

The sixth 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 “Amino Acid Compositions for the Treatment of Diabetic Retinopathy” on 27th October 2018. The Inventor is Dr. N. Angayarkanni, Department of Biochemistry & Cell Biology.

Dr K. Lily Therese was conferred “Life Time Achievement Award” at the 16th Indian Association of Applied Microbiologist (IAAM) National Conference at the Department of Water & Health - Faculty of Life Sciences, JSS Academy of Higher Education and Research, Mysuru on 27th September 2018.

Dr S Krishnakumar became the Expert Committee Member in Genomics and Genetics Biomedical under the Chairman of Prof. Partha Majumdar.

Dr N N Srikrupa was the recipient of 2018 SGRF Genomics Project Grant Award and Gyan Scholarship Award (Traval Grant) to attend NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference 2018 at Jaipur from 30th September to 2nd October 2018.

Dr. Srilekha was awarded the NGBT GYAN scholarship to attend the NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) conference held in Jaipur from 30th Sep to 2nd October 2018.

Ms. Lakshmi Priyankka was awarded NGBT GYAN Scholarship award to participate in the NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) conference held in Jaipur from 30th Sep to 2nd Oct 2018.

Ms. K Suganya was awarded NGBT YUVA Scholarship award to participate at the NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) conference held in Jaipur from 30th Sep to 2nd October 2018.
Ms. Rizza was awarded NGBT GYAN Scholarship award to participate at the NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) conference held in Jaipur from 30th Sep to 2nd October 2018.

Mr S Muthukumaran received the Next Gen Genomics, Biology, Bioinformatics and Technologies (NGBT) GYAN scholarship to attend the 2018 NGBT conference from Sep 30 - Oct 2, 2018 held at Jaipur.

Dr A Prasannakumar received the Prof. S Krishnamoorthy Endowment Award for the year 2017 for the Best Outgoing Ph.D Student in the Graduation Ceremony held at Sri. V D Swami Auditorium on 3rd November 2018.

Ms.P.Karthikka, received Swarna Latha Punshi Award for the Best Research Worker 2018 in the Graduation Ceremony held at Sri. V D Swami Auditorium on 3rd November 2018.

Dr N Murugan received the Best Research Scientist Award in memory of Smt. Radhamani N. Anantha Endowment for the year 2018 in the Graduation Ceremony held at Sri. V D Swami Auditorium on 3rd November 2018.

Dr P Durgadevi received the Best Research Scientist Award in memory of Smt. Sreerangamma N. Narayana Endowment for the year 2018 in the Graduation Ceremony held at Sri. V D Swami Auditorium on 3rd November 2018.

Ms Jayashree received Ph.D. degree for her thesis entitled “EpCAM Aptamer siRNA Chimeras for Targeted Anti-Cancer Therapy: An In Vitro and In Vivo Investigation” at Anna University on 22nd Dec 2018 under the guide-ship of Dr. Sailaja Elchuri.

Ms S Suganya received the Ph.D. degree for her thesis entitled “A study on functional implications of PIWI-like proteins and PIWI-interacting RNAs in human somatic and cancer cells” at SASTRA University, Thanjavur on 25th January 2019. Dr. C. Subbulakshmi was her Supervisor.

Mr. S Muthukumaran was awarded first prize for Best Oral Presentation entitled “Dissecting the intermolecular interactions of Antizyme-Antizyme inhibitor complex reveals potential inhibitory peptides targeting synthesis in retinoblastoma cells” at International Conference on Emerging perspectives on Bioengineering and Biomedical Informatics with Special relevance to Ethnomedicine in Human Health” (ICBBI 2019) on March 25-27, 2019, conducted by Sathyabama University.

**Individual Fellowship Awards**

Mr.S.Muthukumaran was awarded SRF research fellowship for the project entitled “*Insilico* Design and *invitro* validation of naturally occurring compounds as anticancer moieties for targeting Ornithine decarboxylase paralog (ODCp) protein” by Indian Council of Medical Research.

Mr. Arun John was awarded SRF research fellowship for the project entitled “Virtual screening of natural compounds targeting human carbonic
Vision Research Foundation

Anhydrase IX validation of efficacy as anticancer agents through biochemical and in vitro assays” by Indian Council of Medical Research.

- Dr. Srilekha was awarded Research Associate fellowship for the project titled “Clinical phenotype guided selection and screening of candidate genes in Leber Congenital Amaurosis patients and Genetic Analysis of X-Linked Recessive Retinitis Pigmentosa families from India” by Indian Council of Medical Research.
VISION RESEARCH FOUNDATION

RESEARCH PUBLICATIONS

International Journals :


Murugan Nandagopal, Durgadevi Parthasarathy, Rajeswari Mahadevan, Padmapriya Jayavel, Hajib N Madhavan, Malathi Jambulingam “Meta-genomics study among four contact lens wearers from India” Gene Reports. Sep 1;12:208-17.

Shanmugananthan S, Angayarkanni N. “Chebulagic acid Chebulinic acid and Gallic acid, the active principles of Triphala, inhibit TNFa induced pro-angiogenic and pro-inflammatory activities in retinal capillary endothelial cells by inhibiting p38, ERK and NFkB phosphorylation”. Vascul Pharmacol. 2018 Sep;108:23-35.


- Shinmuganathan S, Angayarkanni N. “Chebulic acid and Chebulinic acid inhibit TGF-β1 induced fibrotic changes in the chorio-retinal endothelial cells by inhibiting ERK phosphorylation”. Microvasc Res. 2019 Jan;121:14-23.

VISION RESEARCH FOUNDATION


National Journals:

VISION RESEARCH FOUNDATION


VISION RESEARCH FOUNDATION

COMPLETED PROJECTS

- Development of Low Cost Sweep VEP System [Dr Ronnie George]
- Changes in corneal epithelial permeability upon chronic use of anti-glaucoma medications [Dr Prema Padmanabhan]
- Regulation of LOX expression in Lens epithelial cells and trabecular endothelium [Dr N Angayarkanni]
- Identification of ocular inflammatory Mediators in Steven johnsons syndrome [Dr G Srividya Mentor: Dr N Angayarkanni]
- CTR1 as a therapeutic target for angiogenesis; its understanding its cellular and molecular signaling in retinal angiogenesis [Dr S R Bharathi Devi]
- Insilco drug target identification in Chlamydia species through systems biology and molecular modelling approaches pertaining to the development of potential drug molecules [Dr V Umashankar]
- Exosomal microRNA as biomarkers of early and late stage Retinoblastoma. [Dr S Krishnakumar]
- Investigating the effects of HIV-1 proteins in blood brain barrier degeneration. [Dr Nivedita Chatterjee]
- Identifying miRNA clusters in retinal cytokine producing glia which control inflammation during HIV1 Tat exposure: implications for immune recovery uveitis [D. Nivedita Chatterjee]
- Whole exome sequencing in Leber congenital amaurosis (LCA) to identify novel gene(s) [Dr Parveen Sen]
- Macular diseases: microRNA signature discovery as potential biomarkers in patients with macular disease and genotype phenotype correlation [Dr S Mathavan]
- Intervention of ciliopathy genes in the molecular pathology of BBS in Indian population [Dr S Sripriya]

SRF FELLOWSHIP

- Monocyte to macrophage differentiation induced alterations in oxLDL uptake and Paraoxonase expression in Retinal Pigment Epithelium-Monocyte co-culture system [Mr Anand Babu; Guide: Dr N Angayarkanni]
- Effect of PIWI proteins on tight junctions in retinal pigment epithelial cells and its effect on diabetic retinopathy Date of initiation of fellowship [Ms Suganya; Guide: Dr C Subbulakshmi]
VISION RESEARCH FOUNDATION

ONGOING PROJECTS

- Corneal endothelial function in health and disease [Dr Prema Padmanabhan]
- Measurements of aqueous flare objectively using an ocular fluorometer [Dr Prema Padmanabhan]
- Protocol No:PSV-FAI-005 : A Multi-center, Controlled, Safety and Efficacy Study of a Fluocinolone Acetonide Intravitreal (FAI) Insert in Subjects with Chronic Non-Infectious Uveitis Affecting the Posterior Segment of the Eye [Dr J Biswas]
- A Phase 2/3, Randomized, Double-Masked, Sham controlled Trial of QPI-1007 Delivered by Single or Multi-Dose intra vitreal injection(s) to subjects with Acute No-Arteric Anterior Ischemic Optic Neuropathy (NAION) [Dr S Ambika]
- Effect of the Metabolites relevant to pathogenesis of Age Related Macular Degeneration on the phagocytic machinery of the Retinal Pigment Epithelial Cells and screening of therapeutic molecules: An in vitro study [Dr. Angayarkanni N]
- Functional Characterization of Lacrimal Proline rich 4protein (LPRR4). [Dr. Angayarkanni N]
- Clinical Correlation of the Tear Chemokines and the sphingolipids in children with vernal keratoconjunctivitis [Dr. Angayarkanni N]
- Cracking the code of NEDD8 conjugation pathway via Human Antigen R (HuR) signaling in ocular angiogenesis [Dr Sharada R]
- Indo US Genetic Study of ocular quantitative traits predisposing to glaucoma [Dr Ronnie George]
- Unraveling the genetic architecture of diabetic retinopathy in south India [Dr. Mathavan S]
- To identify circulating biomarkers for responders and non-responders to anti-VEGF therapy in proliferative diabetic retinopathy (PDR) [Dr. Mathavan S]
- A Novel Molecular Screening approach for clinical and molecular characterization of Usher Syndrome patients from India [Dr SriPriya S]
- Molecular pathogenesis of HIV in T cells and endothelial cells [Dr. Anand A R]
- Role of microenvironment in the pathogenesis of HCV and HCV/HIV-associated hepatocellular carcinoma [Dr. Anand A R]
- RCUK SIVS1033 : Increasing eye research capacity and capabilities to tackle the burden of blindness in India: a research-based UK-India Collaboration” [Dr Rajiv Raman]
WP1: SMART INDIA (Statistical Modelling and Risk Assessment of Type 2 diabetes complications in India) study. [Principal Investigator: Dr. Rajiv Raman]

WP3: Prospective multicentre discovery and validation of diagnostic circulating biomarkers to detect sight threatening diabetic retinopathy [Principal Investigator: Dr. S. Krishnakumar]

- Development of Cell based systematic evolution of ligands by exponential enrichment (Cell-SELEX) for Retinoblastoma [Dr. S. Krishnakumar]
- Nuclease resistant aptamer-nanoparticle conjugate against B7-H3 as targeted therapy and imaging in retinoblastoma [Dr. S. Krishnakumar]
- Biological Investigation and Degradation Behaviour of Bioglass based Artificial cornea material [Dr. S. Krishnakumar]
- Fluorescent Nanoprobes for Squamous cell carcinoma: A step towards developing a rapid tool for margin clearance [Dr. S. Krishnakumar]
- Self-assembling peptide nanofiber matrix for drug delivery to fungal keratitis [Dr Narayanan J]
- Mechanobiological effect of chemotherapeutic drugs on retinoblastoma cells [Dr Narayanan J]
- Smart Polycaprolactone (PCL) Peptide Composite nanofiber for sustained release of 5 Fluoro uracil to modulate wound healing in glaucoma surgery [Dr Narayanan J]
- 3D cancer tissue growth on graphene sponges for cancer drug therapy Dr Sailaja Elchuri]
- Generation of hypo-immunogenic retinal pigment epithelial cells for age related macular degeneration by targeted genome engineering approach [Dr Sowmya P]
- Patient derived induced pluripotent stem cells (iPSCs) for modeling retinoblastoma tumorigenesis [Dr Sowmya P]
- Generation of corneal endothelial cells from induced pluripotent stem cells [Dr Sowmya P]
- Injectable self-assembled Bruch’s membrane mimetic nanofibers for Retinal pigment epithelial cells [Dr Sowmya P]
- Development of a highly efficient and immunologically inert adeno-associated virus based vector system for retinal gene therapy [Dr Sowmya P]
- Genome wide association studies for pharmacogenomics of steroid response in eye [Dr Srujana Chitipothu]
VISION RESEARCH FOUNDATION

- In silico Design and Development of novel peptide inhibitors targeting CD147 through virtual screening and biopanning of peptide libraries and in vitro validation of anticancer efficacies [Dr Umashankar V]
- Genome wide transcriptome profiling of human retinal cells under diabetic milieu in the context of Egr-1 expression towards deciphering alternative pathways mediating diabetic complications of retina [Dr Umashankar V]
- Increasing eye research capacity and capabilities to tackle the burden of blindness in India: a research-based UK-India Collaboration [Dr. Rajiv Raman]

INDIVIDUAL FELLOWSHIP:

- A pilot study to evaluate the expression of tropoelastin intracellularly and its aggregation extracellularly to probe the disease mechanism of PXF [Ms Rebacca Manohar; Guide: Dr N Angayarkanni]
- Longitudinal assessment of retinal structural and functional changes in individuals with diabetes, with and without diabetic retinopathy. Wellcome Trust/DBT Early Career Fellowship [Dr Sangeetha Srinivasan; Guide: Dr Rajiv Raman]
- Design and Development of automated computational pipelines for intermolecular recognition of kinases pertaining to structure based drug design and validation [Mr. A Samdani; Mentor: Dr Umashankar V]
- Virtual Screening of Natural compounds targeting Human Carbonic anhydrase IX and validation of efficacy as anti-cancer agents through biochemical and in vitro assays. [Mr. Arun John; Mentor: Dr Umashankar V]
- Insilico design and invitro validation of naturally occurring compounds as anticancer moieties for targeting Ornithine Decarboxylase paralog (ODCp) protein. [Mr. S Muthukumaran; Mentor: Dr Umashankar V]
- Clinical phenotype guided selection and screening of candidate genes in Leber Congenital Amaurosis patients and Genetic Analysis of X-Linked Recessive Retinitis Pigmentosa families from India [Dr Srilekha S; Mentor: Dr. S Sripriya]
- To delineate the functional role of Paraoxonase 2 in regulating angiogenesis [Ms. Ramya; Mentor: Dr. Bharathi Devi SR]
VISION RESEARCH FOUNDATION

PARTICIPATION IN CONFERENCES

- Dr. V Umashankar gave an invited talk on “Computational drug target mining in Ocular infective Chlamydial serovars through integrative multiomics approach” at the International Conference on Genome Biology & Informatics in Health Sciences at SASTRA University, Thanjavur on 7th April, 2018.

- Dr. N Angayarkanni gave an invited talk on “American Diabetes Association Guidelines for Diabetes care: Role of Laboratory” at the International Lab Professional Week conducted by the Clinical Biochemistry Dept & the Clinical Biochemists Association at the Cancer Institute on Total Quality Management in Clinical Lab Practices on 21st April 2018.


- Dr. V Umashankar, Dr. S. R Bharathi Devi, Dr. S Srilekha and Dr. Sangeetha Srinivasan attended the ARVO (The Association for Research in Vision and Ophthalmology) meeting held at Honolulu, Hawaii, USA from 28th April to 3rd May 2018. Dr. Umashankar presented a poster titled “In silico comparison of Chlamydia trachomatis drug binding pocketome vs. Human and prioritization of potential drug targets”; Dr. Bharathi Devi on “Copper triggers mitochondrial biogenesis and helps in survival of RPE”; Dr. S. Srilekha on “Genetic survey of the Primary Mitochondrial Mutations along with Clinical Correlation in Suspected Leber Hereditary Optic Neuropathy (LHON) patients from an Indian Cohort” and Dr. Sangeetha on “Changes in Corneal Endothelial Morphology over four years in subjects with Type 2 Diabetes: A population based study”.

- Dr S Krishnakumar attended the CME programme on “Lysosomal Storage Disorder” organized by Fetal Care Research Foundation in Sanjeevi Auditorium, Voluntary Health Services (VHS), Taramani on 18th and 19th May, 2018.

- Dr. Mohana Devi delivered lectures and provided Hands-on Training on Epigenetic Techniques to the participants of the workshop on “Cytogenetic and Molecular Biology Techniques” in the Department of Human Genetics and Molecular Biology and Department of Zoology, Bharathiar University, Coimbatore from 28th May 2018 to 1st June 2018.

- Mrs. Ambily Vincent and Mrs. Suganya Anupadurai attended the scientific writing workshop at Elite school of Optometry, Chennai from 7th to 9th June 2018.

- Dr. Mohana Devi participated in the “Ocular TraumaCON 2018” International Conference at Chennai from 13th to 15th July 2018.

- Dr. P. Durgadevi attended the CME & State level Workshop on “Indirect Immunofluorescence in Hep2 cells” on 26th July 2018 at Madras Medical College, Chennai.
Dr. S Mathavan, Dr. N Angayarkanni, Dr. J. Narayanan, Dr. Nivedita Chatterjee, Dr. N N Srikrupa, Ms. Suganya, Ms. Lakshmi Priyankka, Mr. Gokulraj Pandiyan and Ms. Rizza, attended the 25th Indian Eye Research Group (IERG-ARVO 2018) Annual Meeting at L V Prasad Eye Institute, Hyderabad from 27th to 29th July 2018.

Dr. Mathavan presented a poster entitled “RNA biomarker discovery in Polypoidal Choroidal Vasculopathy: Pharmacogenomic approach”. Dr. Angayarkanni gave an oral presentation on “Delineating the pathophysiology of Elastosis Pseudoexfoliation Syndrome: ex vivo and in vitro studies in Lens Epithelium”. Dr. Narayanan made an oral presentation on “Corneal epithelial cell penetrating peptide with antifungal activity using hydrogel” and a talk on “Recent advances in mechanobiology: Regenerative medicine approach” at the pre-conference Workshop. Dr. Nivedita Chatterjee made a free paper presentation on “Differential expression of miRNA in HIV positive patients with ocular manifestation of IRIS”. Dr. Srikrupa made a poster presentation “Next generation sequencing in predictive diagnosis of syndromic LCA/EORP”; Ms. Suganya on “Promoter Methylation Status of cis eQTL genes in Primary Glaucomas”, Ms. Lakshmi Priyankka on “MicroRNA in ocular vasculopathy: review”; Mr. Gokulraj Pandiyan on “Effect of matrix on chemotherapeutic sensitivity of PCL melphalan nanoparticles on retinoblastoma tumor cells” and Ms. Rizza on “Replication study of SNPs identified by GWAS for diabetic retinopathy in south Indian population with type 2 diabetes”.

Dr. S Krishnakumar participated in the CME on Pathology at Sri Ramachandra Medical College and Research Institute, Chennai on 2nd August 2018.

Dr N Angayarkanni delivered an invited talk on “The Biochemistry of Diabetic Retinopathy” at Biochemistry Association (Bio Quest), Karpagam Academy of Higher Education, (Deemed University) Coimbatore on 3rd August 2018.

Dr. A. R. Anand attended “Quality Management System and NABL Internal Auditor’s Training Program” at Neuberg Ehrlich Laboratory, Chennai from 23rd to 26th August 2018.

Dr S Krishnakumar participated in the “Eye Cancer” meeting at LV Prasad Eye Institute, Hyderabad on 2nd September 2018.

Dr. S Mathavan and Ms Lakshmi Priyankka, attended the Biotechnology & Bio Pharma Skill Enhancement Program (B2SEP) at SCL Genome Research Foundation, Chennai, on 3rd September, 2018.

Dr. K. Lily Therese delivered lecture during the contact class ‘HIC Certificate Programme’ entitled “Control of Ophthalmic Infection” conducted at V D Swamy Auditorium on 21st September, 2018.

Dr. K. Lily Therese presented an invited lecture at the 16th National Conference of Indian Association of Applied Microbiology (IAMM) conducted at JSS Academy of Higher Education and Research, Sri Shivarathreshwara Nagara, Mysuru on 27th September 2018.
Dr. N Angayarkanni gave an invited talk on “Valorisation of Bio-active components from plants” at Academy –Industry Partnership, French Institute in India, French Embassy in India at Taj Lands, Mumbai, from 29th September to 3rd October 2018.

Dr. S Mathavan, Dr. V. Umashankar, Mr. S. Muthukumaran, Dr. S. Srilekha, Dr. Srikrupa, Ms. Suganya, Ms. Rizza, Ms. Lakshmi Priyanka attended the 7th Nextgen Genomics, Biology, Bioinformatics And Technologies Conference (NGBT-India) 2018 held from 30th September to 2nd October 2018, at Farmont, Jaipur. Dr. Mathavan delivered an invited talk on “Developmental Genomics” and chaired a session on “Genomics” in the conference. Dr. Umashankar and Mr. Muthukumaran presented poster titled “Design and Development of inhibitory peptides targeting Ornithine Decarboxylase and in vitro validation in Human Retinoblastoma Y79 cells”; Dr. S. Srilekha on “Molecular profiling of patients with Stargardts disease by Next Generation Sequencing Technology”; Dr. Srikrupa on “Whole exome sequencing of patients with Leber Congenital Amaurosis in an Indian Cohort”; Ms. Suganya on “Mutational Screening of Bardet Biedl Syndrome patients from India by targeted re-sequencing method”; Ms. Lakshmi Priyanka “MicroRNA profiling in Polypoidal Choroidal Vasculopathy (PCV) patients: Pharmacogenomics approach” and Ms. Rizza on “Validation of GWAS signals identified in Finnish and South Indian population with implication in diabetic retinopathy”.

Dr. N Angayarkanni delivered an invited talk on “Chebulagic acid Chebulinic acid and Gallic acid, the active principles of Triphala, inhibit TNFα induced pro-angiogenic & TGF-β1 induced fibrotic changes in the retinal barrier in vitro” at Dept. of Biochemistry and Indian Women Scientists Association and MS University, Baroda, on 1st October, 2018.

Dr. S Mathavan delivered an invited talk on “NGS and its application in Biology” at the Central University of Rajasthan, Jaipur on 4th October, 2018.

Dr. S Mathavan gave an invited talk on “Explorative Genomics” in Institute of Bioinformatics and Applied Biotechnology (IBAB) on 15th October, 2018 at Bangalore.

Dr. S Krishanakumar participated in the 3rd Annual Conference of Indian Society of Nanomedicine (NanoBioteck-2018) at All India Institute of Medical Science, New Delhi, from 24th to 27th October 2018. He has been invited as part of Nanomedicine Task Force.

Dr. Nivedita Chatterjee attended the XXXVI Annual Conference of Indian Academy of Neurosciences at Varanasi from 29th to 31st October 2018 and presented a poster on “Comparing Immuno-miRs in glial cells and HIV positive patients with ocular manifestation of Immune Reconstitution Inflammatory Syndrome”.

Dr. A. V. Kavitha attended training programme Laboratory Quality System & Internal Audit as per IS/ISO: 15189-2012 from 15th to 18th November, 2018 at Neuberg Ehlrich Laboratory, Royapettah, and Chennai.

Dr. J Narayanan and Dr. Sailaja Elchuri attended a one day workshop on “Recent Advance in Nanoscience and Technology” at Anna University on 7th December 2018. Dr. Narayanan gave a talk on “Nano materials for energy applications”.
Dr. V. Umashankar delivered an invited talk at the National Workshop on Cheminformatics in Modern Drug Discovery conducted by DBT BIF Center on 13th & 14th December 2018.

Dr. N Angayarkanni made a presentation on “2D based experiments using Mass spectroscopy for clinical applications” at the “3rd National Hands-on-Workshop” on “Advanced Bio-Analytical Techniques from Method Development to Data Interpretation” with a special reference to Metabolomics, Lipidomics and Proteomics at AIIMS, New Delhi from 17th to 19th December, 2018.

Dr. J. Narayanan participated in the 6th World Congress on Nano Medical Sciences at Vigyan Bhawan, New Delhi from 7th to 10th January, 2019 and delivered an invited talk on “Toxin Conjugates for epithelial tumors”.

Dr. S Krishnakumar and Dr. Sowmya P participated in the AICTE approved QIP Workshop on "Recent trends in Biotechnology related to Tissue Engineering” on 9th January 2019 in IIT, Madras. Dr. Krishnakumar presented a talk on “Where are we in corneal tissue engineering?” and Dr. Sowmya on “Induced Pluripotent Stem cells for therapy and disease modeling”.

Dr. S Krishnakumar delivered an invited talk on “Aptamer and cancer” at the Dr M. Malathy Madhavan Endowment Lecture at University of Madras, Taramani Campus on 24th January, 2019.

Dr S Krishnakumar attended International Conference on "Nanotechnology and its application to ocular drug delivery system" at Maliba Pharmacy College, Surat from 27th to 29th January 2019.

Mr. Ranjith Kumar and Mr. Hemanth attended the 4th International Conference on Bioenergy Environment and Sustainable Technologies (BEST 2019) at Arunai Engineering College, Thiruvannamalai on 30th January, 2019. Mr. Ranjith Kumar made a poster presentation on “Graphene Foam- A 3D scaffold for cancer cell growth” and Mr. Hemanth on “Small RNA Sequencing by NES - A Tool to compare MicroRNA Expression Pattern in Biological Samples”.

Ms. B Lakshmi made a poster presentation on “Single Nucleotide Polymorphisms associated with steroid induced ocular hypertension in Indian population: A pilot study” at the “Indian Society of Human Genetics (ISHG-2019)” from 30th January to 1st February 2019 held at National Institute of Biomedical Genomics and University of Kalyani, West Bengal.

Dr. S. Mathavan, Ms. K Suganya, Ms. A N Rizza, Ms. Lakshmi Priyankka & Ms. Harshavardhini attended the National Seminar cum Workshop on Genomics and Proteomics-2019 at Alagappa University, Karaikudi, from 6th to 8th February 2019. Dr. Mathavan gave an invited lecture on “NGS and its application on biomarker discovery”.

Ms. Suganya and Ms. Harshavardhini participated in the Conference on Advances in Clinical Genomics at Aravind Medical Research Foundation 9th February 2019.
Dr. S. Mathavan gave an invited lecture on “Bio-Bank and experience of operating Indo-US project” at the International Eye Genetic Consortium Meeting held at Bombay on 18th & 19th February 2019.

Dr. S. Mathavan and Dr. Umashankar attended the AQUATER Golden Jubilee International Conference on Genome Biology at Madurai Kamarajar University, Madurai on 27th February, 2019. Dr. Mathavan delivered “Prof. S. Krishnaswamy Endowment Lecture” entitled, “Transcriptome dynamics in ocular vasculopathy”.

Mr. Ranjith presented a student’s Seminar on 20th March 2019 at Anna University, Tharamani campus prior for MS by Research Synopsis submission.

Dr. S Mathavan delivered an invited talk on “Unexpected results are more interesting than expected results-Why?” at the School of Biosciences and Technology, Vellore Institute of Technology, at the invitation of Dr. Radha Saraswathi on 20th March, 2019.

Dr. N. Angayarkanni participated in the ICAMIB – 2019 International Conference on Advances in Medical and Industrial Biotechnology, Sathyabama Institute of Science & Technology, Chennai on 20th March 2019. She gave a presentation on “Molecular targets and therapeutic intervention for angio-fibrotic switching in Diabetic retinopathy : An in vitro study in microvascular endothelial cells”.

Dr. V. Umashankar and Mr. S. Muthukumaran attended the International Conference on “Emerging perspectives on Bioengineering and Biomedical Informatics with Special relevance to Ethnomedicine in Human Health” (ICBBI 2019) from 25th to 27th March 2019, Conducted by Sathyabama University. Dr. Umashankar chaired a session on “Drug Discovery” and Mr. Muthukumaran made an oral presentation entitled “Dissecting the intermolecular interactions of Antizyme-Antizyme inhibitor complex reveals potential inhibitory peptides targeting synthesis in retinoblastoma cells”.

Dr. K. Lily Therese and Dr. P. Durgadevi attended WHO-JAMM Network for Surveillance of Antimicrobial Resistance (WINSAR) AMR on 28th & 29th March 2019 at New Delhi.
VISION RESEARCH FOUNDATION

DISTINGUISHED VISITORS

- Mr. Jonathan Scollard, Mr. Rahul Kumar from Orbis, New York, visited our foundation and research laboratories on 12th April, 2018 and gave a guest lecture on “Orbis is an international NGO that transforms Lives through the prevention and treatment of blindness”.

- Mr. Sunny Virmani and Mr. Dushyant of Google team visited our biochemistry department on 4th May 2018.

- Dr K Balamurugan, Dr Sanjeev Kumar Singh & Dr A Arun from Alagappa University, Karaikudi visited our research laboratories on 14th May, 2018.

- Mr. Rama Krishnan from OM Trust USA visited L & T Microbiology Research Centre on 21st May 2018.

- Mr. Moe Kyau Aung and Mr Ranganathan Jayaraman, Union Minister of Myanmar, visited our foundation and microbiology laboratory on 28th May, 2018.

- Dr. Ranjana Mathur, Singapore National Eye Center, Singapore, visited our biochemistry and genetics laboratories on 11th July 2018.

- Dr. D. Aravind Prasanth, Dr. Meenu Chaudhary from Institute of Medicine in Kathmandu, Dr. Paisan Ruamviboonsuk & his team, Department of Ophthalmology, Rajavithi Hospital, Bangkok, Thailand, Prof. Graham E. Holder from National University of Singapore, Dr. Maris Colyer, Dr. Hunny Hamza & Team, Thailand and other participants of the Ocular Trauma Conference 2018 visited our foundation & research laboratories from 12th to 14th July 2018.

- Prof. James Wolffsohn, Aston University, Birmingham, UK visited our foundation and research laboratories on 25th July 2018.

- Dr. Leonard Andresa, from Italy visited our foundation and research laboratories on 28th July 2018.

- Dr. Mano Shanmugam and Dr. Uea Feng (Retina) from Malaysia visited our biochemistry laboratory on 17th August 2018.

- Post Graduate Students of Microbiology along with faculty from Periyar University, Salem visited our L & T Microbiology Research laboratory on 7th September 2018.

- Mr. Ram Babu from IIF visited our microbiology lab on 9th September 2018.

- Dr. Suba Rajinikanth, Pediatrician visited our genetics laboratory lab on 11th October 2018.

- Dr. Vasanth, Senior Scientist, SASTRA University visited our Ocular Pathology and Biochemistry research laboratories on 13th October, 2018.
Mr. Imran Virani, Carl Zeiss S.E. Asia, Medical Business Group, Regional Director, visited our Microbiology & Genetics research laboratories on 19th October, 2018

Ms. Georgina Kemlgisa, Dr. Kahnala Abubakar & Dr. Ssali Grace, Ophthalmologists from Mulago Hospital, Uganda visited our microbiology lab on 30th October, 2018.

Dr. Anmol Kumar, Scientist, Helsinki University Central Hospital, Finland, visited our foundation and research laboratories on 30th October and 1st November 2018 and gave a guest lecture on “Diabetic Retinopathy: A novel pathway to target?”

Prof Carlos Pavesio, Director of Uveitis, Moorfields Eye Hospital, UK and Dr. Andre Curi, Oswaldo Cruz Foundation, Brazil, visited our foundation and research laboratories on 14th November 2018 and Prof Carlos gave a guest lecture on “Local therapies - how good are they? And Cat Scratch”.

Dr. Yang Niao, Capital Medical University & Dr. Xu Wu, Wenzhon Medical University, China visited the research laboratories on 18th December 2018.

Dr. Sudha Iyangar, Dept of Genetics & Genome Sciences and Dept of Ophthalmology & Visual sciences from Case Western University, USA visited our foundation and research laboratories on 20th December 2018 and gave a guest lecture on “Multi-ethnic susceptibility to AMD: Lessons from the Million Veteran Program”

Lt. Col. Marian Mathew, Military Hospital, Chennai visited our biochemistry and genetics laboratories on 29th December 2018.

Prof. Joseph Irudayaraj, Founder Professor in Bioengineering, Associate Head of Graduate Programs, and University of Illinois at Urbana-Champaign, USA visited our foundation and research laboratories on 03rd January 2019.

Dr Merlyn Mathew and Ms. Christina Bence from Deakin University, Australia visited our research laboratories on 09th January 2019.

Dr. Narsing A Rao, Professor of Ophthalmology and Pathology at the Keck School of Medicine & Director of Uveitis Service, Los Angeles visited the Histopathology Laboratory on 11th January 2019. He delivered a guest lecture on “Approach to diagnosis and management of posterior and panuveitis”.

Ms. Soniz Phene and Mr. Dushyant of Google team visited our foundation and research facility on 29th January 2019.

Dr. Yasuo Yoshimi, Professor of Chemical Engineering from Shibaura Institute of Technology, Tokyo visited Microbiology laboratory on 26th March 2019 through Nichi-In Centre for Regenerative Medicine (NCRM) Chennai.