

**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA  
(MACFAST)**



**MACFAST**<sup>TM</sup>  
Igniting wisdom since 2001

**3.2.2.**

**Details of workshops/seminars conducted on Research Methodology,  
Intellectual Property Rights (IPR) and entrepreneurship from  
2016-17 to 2020-21**

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**Criteria 3: Research, Innovations and Extension**

**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)**

**Tiruvalla, Pathanamthitta, Kerala 689 101**

**2018-2019**



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA  
(MACFAST)

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Igniting wisdom since 2001

Details of workshops/seminars conducted on Research Methodology,  
Intellectual Property Rights (IPR) and Entrepreneurship

Sl. No.	Title of Workshop/Seminar	Number of participants	Start Date	End Date
C.	2018 - 2019			
Sl. No.	Title of Workshop/Seminar	Number of participants	Start Date	End Date
1	Workshop on Intellectual Property Rights, Patent Search and Filing jointly organised by Patent Information Centre, Kerala and Kerala State Council For Science, Technology and Environment	94	10/16/2018	10/16/2018
2	Hands-on training in plant tissue culture techniques and applications	2	1/16/2019	1/25/2019
3	Meet the Entrepreneur	49	5/9/2019	5/9/2019



**Fr. Dr. CHERIAN J KOTTAYIL**  
**PRINCIPAL**  
Mar Athanasios College For Advanced Studies  
Tiruvalla- 689101, Kerala

Workshop on

# INTELLECTUAL PROPERTY RIGHTS PATENT SEARCH AND FILING



16<sup>th</sup> October 2018

Jointly Organized by

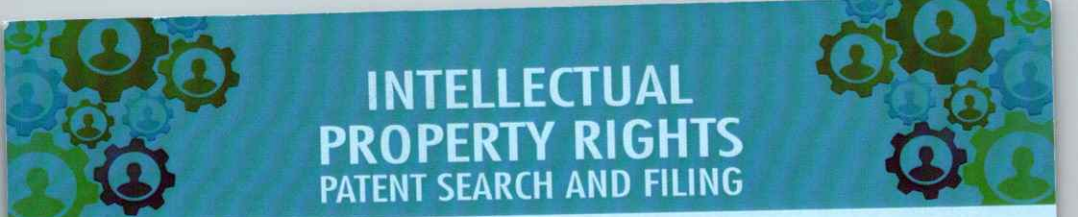


Patent Information Centre, Kerala  
Kerala State Council for Science,  
Technology & Environment



**MACFAST**  
THE TRENDSETTER IN EDUCATION

School of Biosciences  
Mar Athanasios College for Advanced Studies Tiruvalla,  
(Accredited by NAAC with 'A' Grade & Recognized by DSIR, Govt. of India)  
[www.macfast.org](http://www.macfast.org) [www.macfast.in](http://www.macfast.in)



# INTELLECTUAL PROPERTY RIGHTS PATENT SEARCH AND FILING

**T**he School of Biosciences,  
MACFAST in association with  
Patent Information Centre – Kerala/ KSCSTE is  
organizing a one day Workshop on  
**'INTELLECTUAL PROPERTY RIGHTS,  
PATENT SEARCH AND FILING'**  
at MACFAST auditorium on  
**16<sup>th</sup> October 2018.**

The technical sessions will be handled by  
**Dr. Bismi Gopalakrishnan,**  
Dean & Professor, School of Indian Legal Thought,  
M.G. University;  
**Adv. Febin James,**  
Trademark Attorney & Partner,  
Legalites IP Services, Thrissur; and  
**Shri. Vishnu V.A.,**  
PIC-Kerala, KSCSTE.

Registration is free and is open to all staff and  
students working in R&D institutions,  
Academic institutions and members from Industry.

For registration please contact  
**Mr. Biju Dharmapalam,**  
Programme Co-ordinator,  
E-mail: [biju@macfast.org](mailto:biju@macfast.org),  
Phone: 9447121718 / 8929452181.

**Fr. Dr. Cherian J. Kottayil**  
Principal



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA

(MACFAST)

Thiruvalla - 689101

A one day workshop on "Intellectual Property Rights (IPR), Patent Search and Filing" was organised by School of Biosciences-MACFAST in collaboration with Patent Information Centre Kerala and Kerala State Council for Science Technology and Environment on 16 October 2018. The programme was inaugurated by Dr. Bismi Gopalakrishnan, Dean & Professor, School of Indian Legal Thought, MG University. The inaugural session was presided by Prof Varghese Abraham, Administrator, MACFAST. Mr Biju Dharmapalan, welcomed the gathering. Shri. Vishnu V.A, PIC- Kerala, KSCSTE Prof Beena Cherian Dean School of Biosciences, MACFAST and Mr Stephen James, Assistant Professor also spoke during the occasion

In the technical session that followed Dr. Bismi Gopalakrishnan provided an outline on the importance of IPR She stressed the importance of Intellectual Property (IP) and the rights associated with it, to prevent duplication and replication. She explained how IPR offers ownership to the product of the human mind and prevents other people from using, manufacturing and distributing it. She also spoke about different types of IPR- Patents, trademarks, trade secrets, copyrights, industrial designs, geographical indication, layout & semiconductor ICs plant varieties and farmer rights.


Adv. Febin James, Trademark Attorney & Partner, Legalities IP Services, Thrissur discussed patent search and its relevance in finding out whether an invention is new patentable and in identifying competitors for the same technology. He explained that in the process of patent search identification of appropriate keywords is the most critical step. He introduced the students to various patent databases including Indian, European, U.S and Google databases. He also introduced the delegates to the stages involved in the filing a patent application through an attorney.

Shri. Vishnu V.A, PIC- Kerala, KSCSTE explained the role played by Patent Information Centre-Kerala in disseminating the information on patent search and filing. He explained the Do's and Don'ts that have to be followed while filing patents. He also discussed provisional patent filing and various myths associated with IPR. He introduced certain interesting facts that exist in the patent rules of different countries.

The technical session was followed by a brainstorming session where the participants posed questions to the resource person. Nearly 94 students and teachers from various colleges attended the workshop. The programme was sponsored and supported by Patent Information Centre, Kerala and Kerala State Council for Science Technology and Environment.

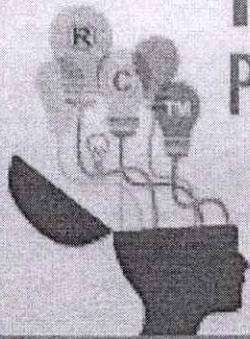
  
Fr. Dr. CHERIAN J KOTTAYIL  
PRINCIPAL  
Mar Athanasios College For Advanced Studies  
Tiruvalla- 689101, Kerala



Beni  
Tseesa Varghese  
Coordinator  
B.N. Ramachandran  
science  


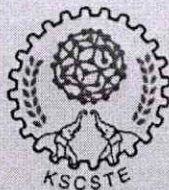
Workshop on

# INTELLECTUAL PROPERTY RIGHTS PATENT SEARCH AND FILING

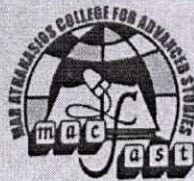


16<sup>th</sup> October 2018

Jointly Organized by



Patent Information Centre, Kerala  
Kerala State Council for Science,  
Technology & Environment

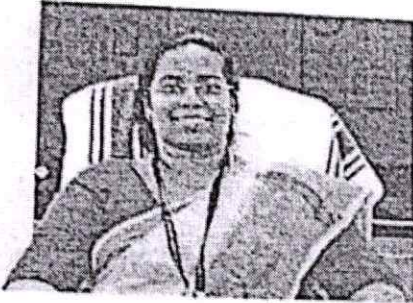


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## Prof.(Dr.)Bismi Gopalakrishnan



### Professor

BAL, LL.B.,LL.M., Ph.D

Dean, Faculty of Law

Professor and Head

School of Indian Legal Thought

Mahatma Gandhi University, Kottayam

Specialization :Health Care laws, Intellectual Property Rights and Public Law

### Ranks

Pre-Degree , Recipient of National Merit Scholarship

Kerala University Merit Scholarship

BAL First Rank

LL.B Fifth Rank

LL.M First Class with Distinction and First Rank

### International Fellowship

Alumni United States Department of State Bureau of educational and cultural affairs, International Visitor leadership programme (IVLP).

### Publications

#### Books

- Legal Aspects of Healthcare and Hospital Administration, Bloomsbury India(2016)
- Laws to ensure Gender Justice, Centre for Womens Studies and Cell to Combat Sexual Harassment, University of Kerala

Research Articles : 40



## Research Experience:

Produced 9 Ph.Ds

3 M.Phil

### Major Research Projects: Principal Investigator

Name of the project	Funding Agency
Major Research Project <i>On legal Regulation of Private Health Care Sector with Special Reference to Kerala.</i>	UGC

Teaching Experience : 22 years

### Administrative Experience

- Dean Faculty of Law, Mahatma Gandhi University Kottayam (2016 to 2018 August) (2018 to 2020 ) (2020 to continuing )
- Member Syndicate, Mahatma Gandhi University Kottayam (August 2018 to continuing )
- Head Department of Law, University of Kerala from 2016- May 2018
- Head, School of Indian Legal Thought, Mahatma Gandhi University from May 2018- till date
- Member Faculty of Law University of Kerala till 2020
- Chairperson Board of Studies , (PG)University of Kerala 2017 to 2020
- Member Board of studies in Human Rights and Duties Education, University of Madras (2021 to 2023)
- Member, Faculty of Law, Central University , Thiruvalla Campus from 2018 onwards
- Assistant Director , Centre for Global Academics, UOK till 2018
- Member Academic Council, NUALS from 2019 onwards
- Member, PG Board of Studies (Law) CUSAT , 2020 onwards
- Member Board of Studies (UG, Law) CUSAT, 2020 onwards
- Member ICC, Sree Chithra Thirunal Hospital for Health Sciences
- Member ICC, Regional Cancer Centre
- Member ICC, UST Global
- Member Ethics Committee, Government Dental College, Tvpm
- Member Ethics Committee HAP, Tvpm from 2013
- Member, Program Advisory committee for Science Research and Inventions in Schools for Technological Innovations (SRISHITI), Kerala State Council for Science, Technology and Environment, Government of

- drafted Scheme and syllabus for One year LL.M Programme IPR and Public law at University of Kerala 2014
- Introduced and drafted Scheme and syllabus for the following elective course(University of Kerala)
  - law, science and technology.
  - life science patents
  - biotechnology law
  - law and economics
- Introduced and drafted Scheme and syllabus for (2018)
- Intellectual property Rights (one year LL.M programme at MGU)
- Health care Law (one year LL.M programme at MGU)
- Introduced and Member , drafted Scheme and syllabus for BBA LL.B (Hons) C&SS programme at MGU(2019)
- OBE for LL.B five year and three year stream , University of Kerala.
- Shakthi- (a book on gender justice prepared for University of Kerala in the capacity of member Cell to Combat Sexual Harassment. The book is distributed during the induction for first year PG students wef 2014)
- Started E-Learning Grievance Cell at SILT 2020
- Started online classes for 2,3, 5,6,7,8, 9 LL.B five year and LL.M one year programme w e f April 7<sup>th</sup>. First law institution in State of Kerala to start full fledged online classes.
- Introduced and drafted scheme and syllabus for the following PG Diploma Courses
  - Medical Law Ethics and Human Rights (University of Kerala)
  - Cyber Law and Cyber Security (University of Kerala)
  - Human Rights ( University of Kerala)
  - Intellectual Property Rights ((University of Kerala)
  - Cyber Law and Cyber Security (Mahatma Gandhi University )
  - Intellectual Property Rights
- Started Justice V.R.KrishnaIyer National Legal Aid Clinic at SILT , 2019
- Coordinator of **Generation UK-India programme wherein** 46 graduates from the UK came to study at the University of Kerala, Trivandrum for a unique learning experience As part of the British Council's Generation UK-India programme, the students learned two week course on 'Contemporary India: Society and Culture' .The course gave students an insight into different aspects of Indian lifestyle, including history, values and multiculturalism

# Adv. Febin James

Home » About

Advocate Febin James began his career as an Associate Legal Editor of Malaysian Legal Magazine "Malaysian Legal Alert (MLA) and Special Correspondent (Asia-Pacific) of MLA "Friday Mail" (published by M Knowledge Management Services Malaysia Bhd). He is currently practicing civil and criminal lawyer at Thrissur Bar, having standing of fifteen years. He is a panelist Intellectual Property Rights Resource person and consultant of Kerala State Council for Science, Technology and Environment (KSCSTE), Patent Information Centre, Kerala (PIC Kerala) Government of Kerala, Kerala Startup Mission (KSUM), Centre For Advance Computing (C-DAC) and other reputed government and non-governmental institutions. He is also an accredited Mediator empaneled by The Indian Institute of Arbitration and Mediation (IIAM) He was honored by the Chief Justice of India, Honorable Justice KG Balakrishnan in the year 2004 for his contributions in field of Legal literature.



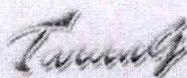
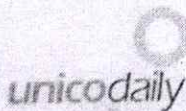
He completed his Masters in Business Law (MBL) from National Law School of India University, Bangalore. He also holds dual Masters in Intellectual Property Rights Law and Cyber Law from School of Indian Legal Thought, Department of Law, Mahatma Gandhi University, Kerala. He completed his Bachelors in Law, (LLB) from the University of Calicut and Diploma Course on Intellectual Property rights from Indian Law Institute, Deemed University, (September 2005). He completed Bachelor of Arts (Law) (BAL) from University of Calicut in May 2005.

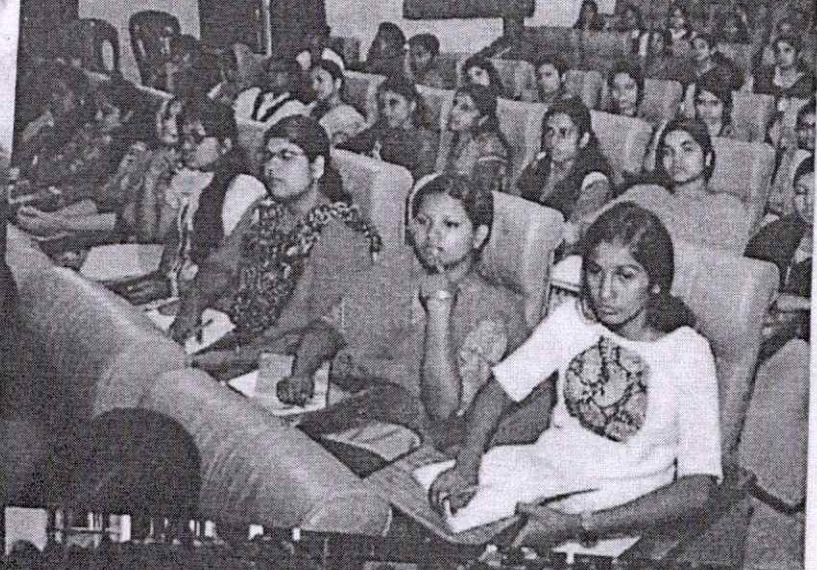
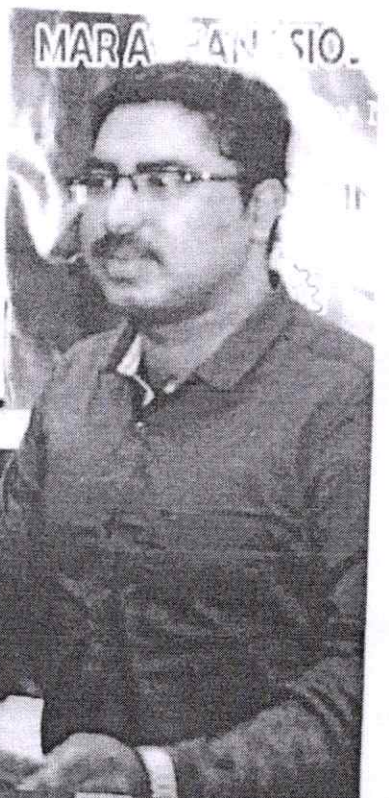
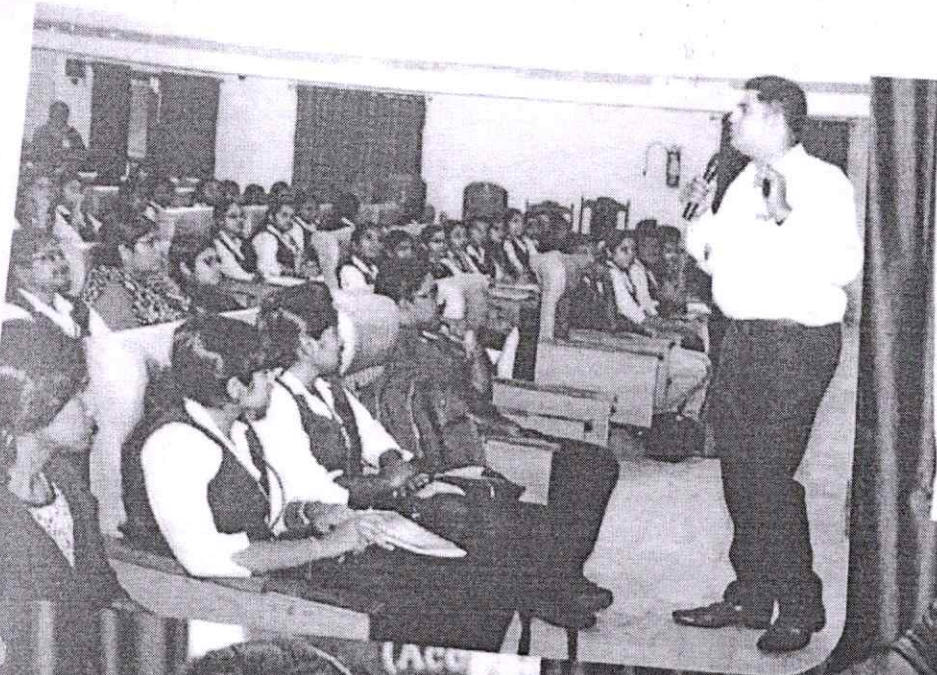
His area of specialization spans to Intellectual Property rights litigation, Civil & Criminal litigation, Consumer Court matters, Arbitration and Mediation.

He has also undertaken and published research works "Protection of Software under IPR Regime" and "Role of Intellectual Property Rights in Mergers and Acquisitions"

## Our Clients

Referral value of clients...







# MACFAST

## SCHOOL OF BIOSCIENCES

*Hands-on training in*

# **PLANT TISSUE CULTURE**

*Techniques and Applications*

**16<sup>th</sup>**  
to **25<sup>th</sup>**  
January  
2019

For details contact

Programme Coordinator

**Biju Dharmapalan**  
Phone :9447121617



## School of Biosciences, MACFAST Tiruvalla

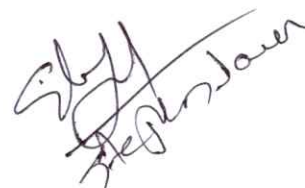
### Report on

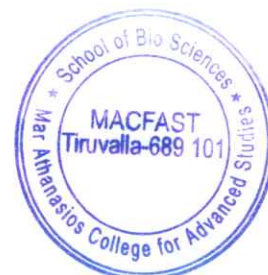
### Workshop on "Plant Tissue Culture techniques and Applications"

27th January 2019

The School of Biosciences MACFAST (Mar Athanasios College for Advanced Studies Thiruvalla) had organised a 10 day hands on training programme on *Plant Tissue Culture techniques and Applications* from 16<sup>th</sup> to 25<sup>th</sup> January 2019. The technical sessions were handled by faculty members from MACFAST. The programme was hosted due the enquiries which came after the success of the previous program in this same line. Many were attracted to take up this as an additional income along with their main line activities. The registration was free for the participants. The programme started with the welcome address by Mr. Biju Dharmapalan. The main sessions were handled by Mr. Biju Dharmapalan and Mr. Blessan Santhosh George, MACFAST. Other faculty members also actively took part in the training session. There were 2 participants who attended the workshop throughout the session. The registration was handled by Mr. Biju Dharmapalan.

  
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MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES  
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INDIA - 689101

TRAINING PROGRAMME IN PLANT TISSUE CULTURE TECHNIQUES,

16<sup>th</sup> TO 25<sup>th</sup> JANUARY 2019

Application form

Name : ELDHOSE-N. PAUL

Address for correspondence: NADUKKUDIYILCH)  
MULAVOOR P.O  
MUVATTUPAZHA  
ERNAKULAM DIST)

Email : eldhosepaul@gmail.com.

Tel No./Mobile No : 9034387000

Signature: Eldhose Paul

Received Rs. 5000/- as training fee

RS

[Signature]





MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES  
THIRUVALLA, KERALA  
(Accredited by NAAC with 'A' grade)  
INDIA - 689101

TRAINING PROGRAMME IN PLANT TISSUE CULTURE TECHNIQUES,  
16<sup>th</sup> TO 25<sup>th</sup> JANUARY 2019

Application form

Name

: Gink Joseph.

Address for correspondence:

Pandiparambil House  
AYOOR PO  
Alappuzha. PIN - 688534

Email

: ginkvakkajoseph@gmail.com

Tel No./Mobile No

: 9645831712

Signature:

Received Rs. 5000/- as training fee



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PERDORKADA POST, TRIVANDRUM-695005  
KERALA, INDIA  
+91 7025403827  
blessan.orion@gmail.com | blessan@macfast.org

# BLESSAN SANTHOSH GEORGE, PhD

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## PROFESSIONAL SUMMARY

Motivated teacher in Life Sciences with more than ten years of experience in University and college teaching and research.

Propensity for high quality education practices and for fundamental and society-centered research.

Experience in designing and revising post graduate programme syllabi, Chairperson of university PG programmes, Co-editor of quarterly science journal, Co-convenor of international conference, supervising postgraduate dissertation.

PhD degree awarded by FRI(Deemed)University, Dehradun

Qualified NET & GATE

## TEACHING EXPERIENCE

### **Mar Athanasios College for Advanced Studies Tiruvalla (MACFAST), Kerala – Assistant Professor**

FEBRUARY 2017 – PRESENT

- Postgraduate teaching - six M.Sc. programmes viz. Biochemistry, Biotechnology, Plant Biotechnology, Bionanotechnology, Bioinformatics and Phytomedical Science & Technology
- Member, PG Expert Committee in Biosciences, Mahatma Gandhi University, Kottayam
- Chairperson, M.Sc. Plant Biotechnology (2018-present), M.Sc. Phytomedical Science & Technology (2018-20)
- Co-editor, Journal of Science, Technology & Management (JSTM)
- Guest Editor, Indian Journal of Experimental Biology, Vol. 58(12)
- Co-convenor, International Conference on Advances in Food & Industrial Biotechnology, Biospectrum-2019
- Question paper setter for CUSAT, Kochi & MG University, Kottayam
- Additional and external & chief examiner of MG University
- Resource person, Online Hands on Training Programme in Primer Designing and Recombinant Vector Construction
- Resource person, Hands-on Training on Plant Tissue Culture Techniques sponsored by Kerala Biotechnology Commission
- Supervising student dissertations

## **MACFAST, Kerala – Guest Faculty**

OCTOBER 2016 – JANUARY 2017

- Postgraduate teaching

## **Central University of Kerala, Kasaragod – Guest Faculty**

SEPTEMBER 2014 – APRIL 2016

- Postgraduate teaching in Department of Biochemistry and Molecular Biology
- Question paper setter
- Supervised student dissertation

## **RESEARCH EXPERIENCE**

### **Institute of Forest Genetics and Tree Breeding (ICFRE institute), Coimbatore, Tamil Nadu – Senior & Junior Research Fellow**

NOVEMBER 2010 – MAY 2014

Primary goals of the assigned DBT-funded research project were gene isolation & functional characterization of recombinant protein using bacterial and plant systems.

### **National Institute of Plant Genome Research, New Delhi – Summer Research Fellow**

JULY – SEPTEMBER 2010

Recombinant protein expression

### **National Chemical Laboratory, Pune – Summer Internship**

MAY – JUNE 2009

Plant tissue culture and Phytochemical analysis

### **Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Kollam, Kerala – Summer Research Fellow**

APRIL – JUNE 2008

Phytochemical analysis

## **SKILLS**

- PCR based techniques: routine PCR, RACE, RT-PCR
- Gene isolation
- Data mining from Transcriptome Data for Gene Expression Analysis –real time PCR
- Molecular cloning & Microbial genetic transformation (*E. coli*)
- Recombinant protein production, purification & characterization
  - Qualitative estimation by SDS-PAGE, Silver staining, Western blotting
  - Purification by chromatographic methods
  - Purification of target protein formed as inclusion bodies
- Plant genetic transformation (Tobacco)
  - Vector construction
  - *Agrobacterium*-mediated transformation
  - Plant tissue culture techniques
- Fungal bioassays
- Insect bioassays

## EDUCATION

**Ph.D. in Forestry (Forest Biotechnology)** – *Forest Research Institute Deemed to be University, Dehradun*

2019

Institute of Forest Genetics & Tree Breeding (ICFRE Institute), Coimbatore

Thesis title: "Isolation and Functional Characterization of Recombinant Lectin from *Withania somnifera* (L.) Dunal"

Research guide: Dr. Modhumita Dasgupta, Scientist-F

**M.Sc. in Biotechnology** – *Bharathidasan University, Tiruchirappalli*

2010 | 81.2%

Department of Biotechnology, Bharathidasan University

Dissertation title: "Studies on Direct Organogenesis and Genetic Transformation in Indian Cultivar of Soybean [*Glycine max* (L.) Merrill] using Cotyledonary Node as Explant"

Research guide: Prof. (Dr.) A. Ganapathi

**B.Sc. in Botany & Biotechnology (Restructured)** – *University of Kerala*

2008 | 81.3%

Mar Ivanios College, Thiruvananthapuram

**Senior School Certificate Examination (Class XII)** – *CBSE*

2004 | 81.2%

Arya Central School, Thiruvananthapuram

## AREAS OF INTEREST

Gene expression analysis in plants during stress conditions and identifying relevant genes henceforth for plant improvement by genetic transformation

Prospect of insect microbiome in pest management strategies

Better understanding of genetic disorders for improved diagnosis

## AWARDS/ FELLOWSHIPS

Indian Academy of Sciences' Summer Research Fellowship -2010

Indian Academy of Sciences' Summer Research Fellowship -2008

## COMPETITIVE EXAMS QUALIFIED

CSIR-UGC Test under Eligibility for Lectureship (NET-LS) in Life Sciences - 2010

GATE in Life sciences - 2010

## PUBLICATIONS

### International Journal Publications (Peer-reviewed):

1. **George, B. S.**, Silambarasan, S., Senthil, K., Jacob, J. P., & Dasgupta, M. G. (2020). Ectopic expression of WsMBP1 from *Withania somnifera* in transgenic tobacco shows insecticidal activity against teak defoliator *Hyblaea puera* (Lepidoptera: Hyblaeidae). *Biologia*, 75, 2331-2339.
2. **George, B. S.**, Silambarasan, S., Senthil, K., Jacob, J. P., & Dasgupta, M. G. (2018). Characterization of an Insecticidal Protein from *Withania somnifera* against Lepidopteran and Hemipteran Pest. *Molecular Biotechnology*, 60(4), 290-301.
3. Ghosh Dasgupta M., **George, B. S.**, Bhatia, A. & Sidhu, O. P. (2014). Characterization of *Withania somnifera* Leaf Transcriptome and Expression Analysis of Pathogenesis - Related Genes during Salicylic Acid Signaling. *PLoS ONE*, 9(4): e94803. doi:10.1371/journal.pone.0094803 ISSN: 1932-6203

### Publications in International Conference Proceeding:

4. **George, B. S.**, Radha, V. & Ghosh Dasgupta, M. (2014). Isolation, Characterization and Expression Profiling of Glucanase from *Casuarina equisetifolia*. In: Nicodemus, A., Pinyopusarerk, K., Zhong, C.L., Franche, C. (Eds.), Proceedings of Casuarina Improvements for Securing Rural Livelihoods: Fifth International Casuarina Workshop, Chennai, India, 3-7 February 2014 (pp.152-157). Coimbatore, India: Institute of Forest Genetics & Tree Breeding. ISBN: 978-93-82387-12-1
5. Shanthi, A., Vikashini, B., **George, B. S.** & Dasgupta, M. (2014). Identification of Cinnomoyl CoA Reductase (CCR) Gene in *Casuarina equisetifolia*. In: Nicodemus, A., Pinyopusarerk, K., Zhong, C.L., Franche, C. (Eds.), Proceedings of Casuarina Improvements for Securing Rural Livelihoods: Fifth International Casuarina Workshop, Chennai, India, 3-7 February 2014 (pp.175-177). Coimbatore, India: Institute of Forest Genetics & Tree Breeding. ISBN: 978-93-82387-12-1

### Book Chapters:

6. Nambiar-Veetil, M., Selvaraj, P., **George, B. S.**, Ganesan, M., Raghunath, T. P. & Krishnakumar, N. (2015). Synchronous and Rhythmic Light Display by a Panoramic Congregation of Fireflies at Varagaliar, Anamalai Tiger Reserve. In K. P. Laladhas, O. V. Oommen & P.R. Sudhakaran (Eds.), *Biodiversity Conservation: Challenges for Future* (pp. 197-201) Bentham Science Publishers. ISBN: 978-1-68108-022-2.

### Other Publications in journals with ISSN number:

7. **George, B.S.** (2018). Plant Defense Arsenal against Insect Herbivores. *Journal of Science, Technology and Management*, 11(2), 133-144. (ISSN No. 0974-8334)
8. **George B. S.** & Dasgupta, M. G. (2017). How Do Plants Defend Themselves from their Natural Enemies? An Overview. *Journal of Science, Technology and Management*, 10(1), 28-41. (ISSN No. 0974-8334)

## CONFERENCES

1. George, B. S., Soumya, S., Vijayan K.K., & Prasanth, G.K. (2016). Differential action of a synthetic coumarin derivative on E2 responsive genes. Poster presented at the 2nd International Conference on Structural and Functional Genomics, SASTRA University, Tanjore, India, 19-20 August, 2016.
2. George, B. S., Ashna, O., Vijayan K.K., & Prasanth, G.K. (2016). BPA down-regulates *NR1P1* Gene. Poster co-presented at the 2nd International Conference on Structural and Functional Genomics, SASTRA University, Tanjore, India, 19-20 August, 2016.
3. George, B. S., Prem, S., & Biju, D. (2007). A Brief Study on the Ethnic Food Habits of 'Kattunaickans' of Appankappu Village of Malappuram District. Poster presented at Biospectrum '07: International Symposium on Advances in Food Biotechnology and Nutrition, MACFAST, Kerala, 30 Nov- 1 Dec, 2007.
4. Das, A. K., Blessan, S., Prem, S. & Biju, D. (2007). A Brief Study on the Ethnic Foods of Kani Tribes Settled in Puravimala of Western Ghats. Paper co-presented at Biospectrum '07: International Symposium on Advances in Food Biotechnology and Nutrition, MACFAST, Kerala, 30 Nov- 1 Dec, 2007.
5. Biju, D., Pradeep, D. P., Stalin & Blessan S. (2007). Effect of Media Strength in the Multiple Shoot Production of *Bacopa Monnieri* (L.) Pennell, an important medicinal plant. Paper co-presented at the National Seminar on Medicinal Plants, Govt. Ayurveda College, Thiruvananthapuram, Kerala, 14-15 March, 2007.

## SERVICE

Coordinator, Forestry Club, MACFAST  
Editor, *Bulbul*, the Forestry Club Newsletter  
Member, NAAC Documentation Committee  
Member, Enterprise Resource Planning (ERP) development committee  
Coordinator, orientation programme for first-year students  
Active participation in developing contents for college website  
Regular contribution to 'Conserve for Future' column in JSTM  
Member of conference & workshop committees organized by college  
Member, Warblers & Waders, Trivandrum  
Executive Member, Center for Advancement of Life Sciences (CFAL), Trivandrum

## REFERENCES

### Dr. Modhumita Dasgupta

Scientist F, Plant Biotechnology  
Division, Institute of Forest  
Genetics & Tree Breeding,  
Coimbatore-2  
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### Mr. Biju Dharmapalan

Science Communicator  
CSIR-NISCAIR, New Delhi  
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**Head of Department**  
 School of Biosciences  
 Mar Athanasios College For  
 Advanced Studies Tiruvalla, Kerala-689101  
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 Kerala, India  
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 09447121718 (Mob.)

## RESUME

### PERSONAL PROFILE

Full Name Biju Dharmapalan  
 Date of birth 24.03.1977  
 Passport No M8621905  
 Marital status Married  
 Fathers Name Sri. C. Dharmapalan

Educational Qualification :M.Phil. Life Science (Biochemistry specialization),  
 M.Sc. Botany (Biotechnology specialization)  
 Qualified NET and GATE Examination

### EXPERIENCE

Position held	Institution	Period		Nature of work
		From	To	
<b>Head of Department</b>	School of Biosciences, Mar Athanasios College for Advanced Studies, Tiruvalla. www.macfast.org	6 <sup>th</sup> July 2014	-	Leading the post graduate department of bioscience having 6 M.Sc. courses
<b>Assistant Professor</b>	MACFAST	1 <sup>st</sup> May 2010		Teaching for M.Sc. Plant Biotechnology, Phytomedical Sciences and Technology Project guidance
Lecturer	Mar Athanasios College for Advanced Studies	2 <sup>nd</sup> July 2007	30 <sup>th</sup> April 2010	Teaching for M.Sc. Plant Biotechnology, Biochemistry, Bioinformatics and Phytomedical sciences and technology
Guest Lecturer	Dept. of Botany Mar Ivanios College Trivandrum	11.06.2002 22.11.2006	18.11.2005 31.5.2007	Teaching for B.Sc Biotechnology and Botany courses.

Junior Research Fellow	Dept. of Biotechnology T.B.G.R.I, Palode	6.11.2000	10.06.2002	Guiding student projects Micro-propagation of Rattans
Senior Research Fellow	Division of Crop Improvement C.P.C.R.I., Kasargod	3.07.2000	3.11.2000	Germplasm collection of Coconut under NATP project

### EDUCATIONAL PROFILE

Name of the course	Area of specialization	Institution/ University	Year of passing	% of marks
M.Phil.	Life Sciences <b>(Biochemistry specialization)</b>	Department of Marine Biology, Microbiology & Biochemistry Cochin University of Science and Technology (CUSAT)	2007	70.8 %
M.Sc.	Botany <b>(Biotechnology specialization)</b>	University College Trivandrum (UGC - CPE Status & NAAC accredited) University of Kerala	1999	70.0 % <b>NINTH RANK</b>
B.Sc.	Botany (Main) Chemistry, Zoology (Sub.)	Mar Ivanios College (NACC accredited A grade) University of Kerala	1997	90.9% <b>FOURTH RANK</b>
Pre-Degree	Biology, Chemistry, Physics	Mar Ivanios College	1994	76%
S.S.L.C	Science, Maths, So cial Science, Eng., Hindi, Malayalam	Durga High School, Kanhangad Board of Public Exams Kerala	1992	85%

### OTHER EXAMINATIONS

- ✓ NPTEL (Ministry of HRD, Govt. of India) Online Certificate Course in Proteins and Gel-based Proteomics with 57%, 2015
- ✓ UGC sponsored Refresher Course in Bio-Sciences organized by UGC-ASC Himachal Pradesh University, Shimla from September 9<sup>th</sup> to 28<sup>th</sup> 2013 (Grade A).
- ✓ UGC sponsored first Refresher Course in Life Sciences organized by UGC-ASC Banaras Hindu University, Varanasi from May 12<sup>th</sup> to June 1<sup>st</sup> 2010 (Grade A).
- ✓ UGC sponsored Special Summer School for University teachers from 23<sup>rd</sup> July to 12<sup>th</sup> August 2008 [equivalent to one OP/ RC as per UGC order D.O. No. F24-1/2008 (Misc./ASC) dated 21 June 2008] at UGC-ASC University of Kerala (Grade A).
- ✓ Certificate course in Environmental Studies, IGNOU, 1999, First Class
- ✓ Honours Diploma in computer science, Lakhotia Computer center & Mar Ivanios computer center Trivandrum, 1997

### PROJECTS HANDLED

- Induction of multiple shoots from the cotyledonary node of *Aegle marmelose* (L.) Corr." sponsored by Kerala State Council for Science, Technology and Environment, 2015.
- Initiation of Somatic Embryos from the leaves of *Coleus vettiveroides* Jacob, sponsored by Kerala State Council for Science, Technology and Environment, 2015
- Establishment of a herbal garden for mass education and wide spread cultivation by raising herbal nursery" sponsored by National Medicinal Plants Board ( F.No.Z.18017/187/CSS/HG/KE-01/2014-15-NMPB).
- "In vitro regeneration from the nodes of Inflorescence peduncle of *Eryngium foetidum* L. ", sponsored by Kerala State Council for Science, Technology and Environment, 2014.
- "In vitro culture of *Gloriosa superba* L., an endangered medicinal plant, sponsored by Kerala State Council for Science, Technology and Environment, 2014.
- "Callus initiation from the immature flower buds of *Ensete superbum* Roxb." sponsored by Kerala State Council for Science, Technology and Environment, 2012.
- "Developing a protocol for in vitro propagation of screw pines", sponsored by Kerala State Council for Science, Technology and Environment, 2012.
- "Development of an *in vitro* protocol for rapid multiplication of *Rhizophora mucronata*, a vulnerable plant" sponsored by Kerala State Council for Science, Technology and Environment, 2010.
- Identification of conserved regulatory elements at the miRNA region of *Arabidopsis thaliana*, 2010
- ✓ "Evaluation of antioxidant activity of *Musa* cultivars" submitted to the Cochin University of science and Technology, 2007



- Phytochemical screening of *Alangium salviifolium* Wangerin, *Derris trifoliata* Lour. And *Premna cordifolia* J.Graham, 2007
- *In vitro* multiplication and biochemical studies of *Coleus vettiveroides* Jacob, 2007
- Standardization of *in vitro* media for recalcitrant seeds of *Castanospermum australe* A.Cunn & C.Fraser ex Hook. And *Derris trifoliata* Lour., 2007
- "Annotation of *Oryza sativa* L. ssp. *indica* ESTs", 2006
- "*In vitro* Multiplication And Biochemical Studies Of Selected herbals – *Cymbopogon flexuosus* (Steud.) Wats., *Piper longum* L., and *Bacopa monnieri* (L.) Pennell", 2006.
- Effect of various Plant Growth Regulators on the microclones of *Bambusa arundinacea* (Retz.) Willd., 2006.
- ✓ "Isolation and characterization of oligophilic endophytic bacteria from economically important plants using rDNA sequencing" submitted to Indian Academy of Sciences, Bangalore, 2005.
- Guided the project "Phytochemical investigation and antibacterial activity of selected medicinal plants", 2005
- Guided the project "*In vitro* studies on *Gymnemma sylvestre*, a vulnerable medicinal plant", 2005
- ✓ "Partial purification and characterization of invertase from the developing seeds of *Brassica campestris*, submitted to Indian Academy of Sciences, 2001.
- ✓ "Micropropagation and conservation of a rare medicinal plant *Aristolochia barcteata*, submitted to the University of Kerala, 1999.

#### MEMBERSHIP IN PROFESSIONAL BODIES

- President, Centre for Advancement of Life Sciences (CFAL), Trivandrum
- Life Member, Indian Science Congress Association, Kolkatta
- Life Member, Society of Marine Biologists, CUSAT, Cochin
- Life Member, Society for Biotechnologists, India
- Member, The Science Advisory Board (Membership Number: 87224)
- Member, WWF Nature Club, Trivandrum

#### AWARDS AND ACHIEVEMENTS

- **Chairperson, Institutional Ethics Committee, Pushpagiri Nursing College Tiruvalla,2016**
- **Listed in the Data Base of Science Communicators in India, published by Vignan Prasar, DST, Govt. of India, 2013**
- **Listed as Mentors/Resource persons for Summer/Winter Camps and other INSPIRE initiatives,DST**
- **Qualified ICAR-NET Examination in Agricultural Biotechnology (Roll No. 1090100209).**
- **Attended the Second Science Conclave with Nobel Laureates sponsored by MHRD,DST, Govt. of India at IIIT Allahabad as Invited Teacher Nominee,8<sup>th</sup> December to 14<sup>th</sup> December 2009.**
- **Attended the first Science Conclave with Nobel Laureates sponsored by MHRD,DST, Govt. of India at IIIT Allahabad as Invited Teacher Nominee,14<sup>th</sup> December to 21<sup>st</sup> December 2008.**
- **Attended the 74<sup>th</sup> Annual meeting of Indian Academy of Sciences, Bangalore held at IIT Delhi as an invited teacher delegate , 31<sup>st</sup> October to 2<sup>nd</sup> November 2008**
- **Attended the 19<sup>th</sup> Mid-Year meeting of Indian Academy of Sciences, Bangalore held at Indian Institute of Science as an invited teacher delegate, 4-5 July 2008**
- **Co-ordinated Two lecture workshop sponsored by Indian Academy of Sciences, Bangalore**
- **Qualified GATE examination in LifeSciences conducted by Indian Institute of Technology**
- **The profile has been listed in the Marquis Who's Who Science and Engineering 10<sup>th</sup> edition**
- **Attended the 73<sup>rd</sup> Annual meeting of Indian Academy of Sciences, Bangalore held at Thiruvananthapuram as an invited teacher delegate , 1-4<sup>th</sup> November 2007**
- **Attended the 18<sup>th</sup> Mid-Year meeting of Indian Academy of Sciences, Bangalore held at Indian Institute of Science as an invited teacher delegate, 13-14 July 2007**
- **Awarded the *Cochin University of Science and Technology Merit Scholarship* for M.Phil. Life Sciences programme 2006**
- **Availed the *Summer Visiting Teacher Fellowship* from Indian Academy of Sciences, Bangalore , 2005**
- **The research paper "Micropropagation of *Syzygium samarangense*, a medicinal plant" presented at National Symposium on recent trends in Biotechnology got third prize in the poster category,2005**
- **Availed the *Summer Visiting Student Fellowship* from Indian Academy of Sciences, Bangalore,2001**
- **Received *First Prize at the State level* Essay writing competition conducted by STEC, Govt. of Kerala,in connection with National Science Day Celebrations 2000**
- **Selected for *National Merit scholarship* 1999**

- Awarded Ninth Rank by *University of Kerala* for **M.Sc. 1999**
- Awarded the *University of Kerala Merit Scholarship* 1997-1999
- Awarded Second Rank by *University of Kerala* for **B.Sc. 1997**
- Awarded the *University of Kerala Merit Scholarship* 1994-1997
- Awarded The **Abdul Salam Memorial Prize** for the best outgoing student in Botany from Mar Ivanios College, 1997
- Third prize in **Research type project** presented at the Kasargod District Science Fair, 1992

### TRAINING PROGRAMMES / WORKSHOPS ATTENDED

- Training programme in Phytochemical Techniques organized by Department of Chemistry, Forest Research Institute Dehradun, 20<sup>th</sup> March 2016
- **ICAR sponsored Summer school on “Novel genomic tools and modern breeding approaches for enhancing productivity and nutritional quality of pulse crops” at ICAR-IIPR, Kanpur from 05-25 Sept., 2015**
- **ICAR Sponsored Training programme on –Evaluation of Transgenic Crop Plants for Drought Tolerance|| organized by the Department of Crop Physiology, University of Agricultural Sciences,GKVK,Bangalore from 6th to 11th October 2014.**
- **UGC sponsored Refresher Course in Bio-Sciences organized by UGC-ASC Himachal Pradesh University, Shimla from September 9<sup>th</sup> to 28<sup>th</sup> 2013**
- Workshop of VALUE virtual labs on Biotechnology and Biomedical Engineering organized by Amrita School of Biotechnology on 14<sup>th</sup> August 2013
- Workshop on “Introduction to GIS,GPS and remote sensing using Quantum GIS” organized by Foundation for ecological Research, advocacy and Learning (FERAL), Pondicherry from 1<sup>st</sup> July to 5<sup>th</sup> July 2013
- Attended the National Workshop cum Research Colloquium on APPLICABLE MATHEMATICS IN BASIC SCIENCE EDUCATION & RESEARCH organized by the Kerala State Council for Science ,Technology and Environment from 5<sup>th</sup> April to 7<sup>th</sup> April 2013.
- Attended the Science Communication and Journalism Workshop conducted by the Kerala State Council for Science ,Technology and Environment on January 7<sup>th</sup> 2013 at Trivandrum
- Attended the 5<sup>th</sup> Orientation Course for Programme Officers organized by ETI for National Service Scheme at Rajagiri College of Social Sciences from 8<sup>th</sup> to 14<sup>th</sup> August 2012.
- ISTE Workshop on "Introduction to Research Methodology" under the National Mission on Education through ICT Conducted by IIT Bombay from June 25<sup>th</sup> to July 4<sup>th</sup> , 2012

- **Attended the discussion meeting cum workshop on Individuals and Groups organized by the International Centre for Theoretical Science at Almora from 22<sup>nd</sup> May to 31<sup>st</sup> May 2012**
- Curriculum Review Workshop (P.G Biosciences) held at School of Biosciences, M.G.University from 10<sup>th</sup> to 12<sup>th</sup> April 2012.
- **Refresher Course on “Cell and Molecular Biology Techniques” organized by Indian Academy of Sciences, Indian National Science Academy, New Delhi ,The National Academy of Sciences and TIFAC , Manipal Life Sciences Centre, Manipal University from 23<sup>rd</sup> January to 4<sup>th</sup> February 2012.**
- **UGC-NRCBS Winter School on Plant Tissue Culture Applications organized by UGC-Networking Resorce Centre In Biological Sciences, Madurai Kamaraj university from 8<sup>th</sup> August o 22<sup>nd</sup> August 2011.**
- **DBT Sponsored Hands on training in Genomics** conducted by Centre for Education Research in Biology and Biotechnology (CREBB), University of Hyderabad from 16<sup>th</sup> May to 20<sup>th</sup> May 2011.
- Workshop on Academic writing organized by Kerala State Council for Science Technology and Environment on 12<sup>th</sup> and 13<sup>th</sup> May 2011.
- Workshop on Biodiversity Education organized in connection with the First Indian Biodiversity Congress, Thiruvananthapuram, 27<sup>th</sup> December 2010.
- **National Refresher Course On ‘RECENT ADVANCES IN CHEMICAL SCIENCE AND ITS TECHNOLOGICAL APPLICATIONS’ , 8–21 December 2010 *Sponsored by* Indian Academy of Sciences, Bangalore Indian National Science Academy, New Delhi ,The National Academy of Sciences, India, Allahabad at Sikkim Manipal Institute of Technology, Majitar, Rangpo, Sikkim**
- **UGC sponsored first Refresher Course in Life Sciences organized by UGC-ASC Banaras Hindu University, Varanasi from May 12<sup>th</sup> to June 1<sup>st</sup> 2010 (Grade A).**
- **DST SERC School on Chronobiology organized by Jawaharlal Nehru Centre for Advanced Studies (JNCASR), Bangalore from 25<sup>th</sup> December 2009 to 7<sup>th</sup> January 2010**
- **DST sponsored School on Advanced Biological Inorganic Chemistry held at Tata Institute of Fundamental Research (TIFR),Mumbai from Nov 2-4, 2009**
- **AICTE sponsored Staff Development Programme “Advanced Level Intensive Training Programme in I.T and Management” organized by MACFAST, Tiruvalla from Feb 11<sup>th</sup> to 25<sup>th</sup> 2009.**
- **UGC sponsored Special Summer School for University teachers from 23<sup>rd</sup> July to 12<sup>th</sup> August 2008 [equivalent to one OP/ RC as per UGC order D.O. No. F24-1/2008**

**(Misc./ASC) dated 21 June 2008] at UGC-ASC University of Kerala (Grade A).**

- National workshop on **Application of Radioisotopes in Biology**, organized by Board of Radiation and Isotope Technology, Dept. of Atomic Energy and Mangalore University, 7-10 March 2008
- Residential workshop for Development and Scrutiny of Text books for Std.XII Feb.2008
- Residential Workshop for the Development of Textbooks (Std XII)-Phase I ( based on pre-revised NCERT Syllabus) organized by State Council of Education Research And Training(SCERT) , January 2008
- Hands on practice in Molecular Visualization Software conducted by DBT (Govt. of India) sponsored Bioinformatics Facility, University of Kerala,2007.
- Training programme in "recombinant DNA technology" conducted by Shreedhar Bhat's Lab, Bangalore 13-27<sup>th</sup> June 2007.
- Kerala State Council for Science, Technology and Environment sponsored Workshop on Intellectual Property Right: Prospects and Procedure, 27<sup>th</sup> -28<sup>th</sup> September 2007.
- Workshop on instrumental methods of analysis, Organized by Western regional instrumentation center, Mumbai and STIC, CUSAT, 9<sup>th</sup> -13<sup>th</sup> Oct. 2006.
- UGC sponsored National workshop on Advanced Techniques in Biotechnology, 26-28<sup>th</sup> March 2005,Holy cross college, Nagarcoil
- Certificate program in Bioinformatics, Anna University, Chennai, Oct 2004
- Workshop on Microbial biotechnology and Bioinformatics, University of Madras, Chennai, July 2004
- **Attended as resource person in two orientation programmes conducted by SCERT, Govt. of Kerala for Plus two teachers,2003**
- "Orientation programme in new frontiers in plant taxonomy for plant diversity conservation" sponsored by **DST, Delhi**,1998

**ADMINISTRATIVE ASSIGNMENTS**

- SPOC, NPTEL Local Chapter MACFAST

- Visiting Faculty, Institute of Life Sciences, Ahmedabad University, 2014
- **Member , Panel of Experts for the Evaluation of Papers** for the 26th Kerala Science Congress to be held on the 28<sup>th</sup>- 31<sup>st</sup> January 2014 at Kalpetta, Wayanad organized by the Kerala State Council for Science Technology and Environment.
- **Associate Editor , Journal of Science Technology and Management (ISSN NO: 0974-8334),2013,2014**
- **Member Editorial Board Member, SAS Publishers**
- **Examiner for M.Phil. programme, Bharatiyar University ,Coimbatore,2012**
- **Programme Officer, National Service Scheme Unit No 124 , from 4<sup>th</sup> July 2012 onwards.**
- **Chairman, PG Board of Examiners ,M.G.University , M.Sc. Plant Biotechnology 2013 onwards**
- **Co-ordinator, AMRITA VALUE Virtual Lab Nodal Center,MACFAST,2014 ,2015**
- **Convener , Student Support and Progression and Research and Consultancy criterion UGC-NAAC Accreditation Committee MACFAST 2016**
- **Sole Examiner Genetic Engineering and Plant Tissue Culture of M.Sc. Plant Biotechnology, M.G. University, 2010-11**

#### CONFERENCES/TRAINING PROGRAMMES ORGANIZED

- **Co-ordinator, Seminar on "Seminar on Recent Innovations in Food Packaging Technology" by Dr Arunkumar P ,Scientist ,CFTRI,Mysoru,on 11th May 2016.**
- **Co-ordinator, Two day lecture workshop "Lecture Workshop on Recent Advances in Life Sciences" organized during 11<sup>th</sup> and 12<sup>th</sup> April 2016 sponsored by Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad**
- **Co-ordinator, Second CSP Iyer Memorial Lecture — "Bridging gap between Materials andBiology: An era of interdisciplinary research" by Dr. Bikramjith Basu,Professor, Indian Institute of Science, Bangalore, on 11<sup>th</sup> March 2016.**
- **Co-ordinator , Seminar on "Seminar on Recent Innovations In Biomaterial Research From India" organized as part of National Technology Day Celebrations 2016 sponsored by Kerala State Council for Science Technology and Environment,26<sup>th</sup> February 2016.**
- **Programme Co-ordinator, Hands-on training on Plant Tissue Culture techniques and Applications from 7<sup>th</sup> to 18<sup>th</sup> January 2016 sponsored by Kerala Biotechnology Commission**

- **Organizing Secretary, International Conference on Advances in Bioprocess Technology sponsored by DST, Govt. of India and KSCSTE, Govt. of Kerala during 26<sup>th</sup> to 28<sup>th</sup> Nov 2015**
- Co-ordinator, Symposium on Recent Innovations in Tissue Engineering & Nano Sciences Technical sessions by Dr. Nandakumar Kalarikkal, M.G. University and Dr. Ipsita Roy, University of Westminster, London at MACFAST Tiruvalla on 8<sup>th</sup> October 2015
- Co-ordinator, Seminar on “**Laser based non-invasive glucose monitor for people with diabetes**” by Prof. Gin Jose, University of Leeds, United Kingdom on 19<sup>th</sup> August 2015.
- Co-ordinator **IISER Pune** Lecture Workshop on Recent Trends in Life Sciences (IISER Pune outreach programme) organized by School of Biosciences, MACFAST on 26<sup>th</sup> June 2015
- Co-ordinator, Seminar on “**Technological Advances in Biomedical Research in India**” organized as part of National Technology Day Celebrations 2015 sponsored by Kerala State Council for Science Technology and Environment, 11<sup>th</sup> May 2015
- Co-ordinator, Seminar on '**Nanomaterials and Nanocomposites**' by Prof. (Dr.) Sabu Thomas, Hon. Director, International Inter University Centre for Nanoscience, MG University, Kottayam, 6<sup>th</sup> May 2015
- Co-ordinator, Seminar on “**Seminar on Recent Advances in Plant Science -Metabolic Engineering of Food Crops for the food Security of Nation**” organized as part of National Science Day Celebrations 2015 sponsored by Kerala State Council for Science Technology and Environment, 28<sup>th</sup> Feb 2015
- Co-ordinator, Seminar on '**Small RNAs and Epigenetics: The dark matter of genomes**' by Dr P.V. Shivaprasad, National Centre for Biological Sciences (NCBS) on 5<sup>th</sup> December 2014
- Co-ordinator, CSP Iyer Memorial Lecture Series, —**Membrane transport and its applications in medicine and agriculture** by Dr. M.K. Mathew, Professor at National Centre for Biological Sciences (NCBS) on 29<sup>th</sup> September 2014
- Co-ordinator, Two day lecture workshop “**Molecular Biology in the 21<sup>st</sup> Century**” organized during 28<sup>th</sup> and 29<sup>th</sup> March 2014 sponsored by Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad
- Co-ordinator, Seminar on “Fostering Scientific Temper for the Upliftment of Society” organized as part of National Science Day Celebrations 2014 sponsored by Kerala State Council for Science Technology and Environment, 28<sup>th</sup> Feb 2014
- Organizing committee member, *International* Symposium on “*Computational Biology and Drug Design*” held at MACFAST from 10<sup>th</sup> July to 12<sup>th</sup> July 2013..
- Co-ordinator, Seminar on “Relevance of GM Crops in Food Security” organized as part of National Science Day Celebrations 2013 sponsored by Kerala State Council for Science Technology and Environment, 28<sup>th</sup> Feb 2013

- Co-ordinator Bioscience Seminar Series , Special Lecture by Prof.S.Mahadevan, Indian Institute of Science Bangalore on 20<sup>th</sup> June 2012
- Joint Secretary, International Symposium and Congress on Advances in Herbal Science And technology, 25-27<sup>th</sup> November 2011.
- **Co-ordinator, Two day lecture workshop “Evolution and Natural Selection” organized during 29<sup>th</sup> and 30<sup>th</sup> January 2009 sponsored by Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad.**
- Organizing secretary, *International* Symposium. Second Green Revolution: Priorities, Programmes, Social and Ethical Issues organized during 2-4 July 2009 at Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram
- Convener, Two week certificate course in Bioinformatics organized by the School of Biosciences during 20<sup>th</sup> July -3<sup>rd</sup> August 2009
- Co-ordinator, “Chromosome Capping and Ribosome Mapping in the light of Nobel Prize 2009” –an interface between scientists, teachers and students, 20<sup>th</sup> October 2009
- Joint Secretary “National Symposium on Recent Trends in Algal Biotechnology” August 3-5,2010
- *Organizing committee member, International* Symposium on “*Food Biotechnology and Nutrition*” held at *MACFAST* on 31st Nov and 1st Dec 2008.
- **Co-ordinator ,Two day Lecture Workshop on ‘Gene Structure and Function – Concepts to New Developments’ organized during 31 January and 1 February 2008 sponsored by Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad.**

### Invited Talk

- Career Guidance session for B.A. and B.Sc. students of SN College for Women Kollam as part of A Day with Scholar Programme on 15<sup>th</sup> March 2016.
- Invited lecture on “Career Avenues in Botany” at Fatima Matha National College,Kollam as part of Botany Association Inauguration on 15<sup>th</sup> February 2016
- A session in Biological Sciences in “Wings of Hope”, a seminar on career guidance organized by YMCA Trivandrum in association with Metro Manorama on 30<sup>th</sup> May 2015
- “Excitements And Avenues In Life Science “ at Kerala Varma College Thrissur on 19<sup>th</sup> February 2015
- “Excitements And Avenues In Life Science “ at Govt.College Nattakom,Kottayam on 2<sup>nd</sup> February 2015
- Excitements And Avenues In Life Science “ at PazhassiRaja College ,Pulpally,Wayanad on 8<sup>th</sup> August 2014
- Your passion ,Your Life “ on 24<sup>th</sup> August 2013 at Sarvodya Central School Trivandrum
- “Excitements And Avenues In Life Science “ at Mar Ivanios College on 23<sup>rd</sup> August 2013



- Invited talk on " Can GM Crops provide Food Security?" given at School of Chemical Sciences, M.G.University Kottayam as part of National Science Day Celebration 2013 on 15<sup>th</sup> Feb 2013
- Invited lecture at Department of Botany St .Thomas College Kozhencherry as part of Botany Association Inauguration, December 2012
- Career guidance for B.Sc. students at Mar Ivanios College, Trivandrum, 2012
- Resource person for UGC sponsored CSIR coaching at Mar Ivanios College,2008 &,2009
- Resource person for UGC sponsored CSIR coaching at Mahatma Gandhi University,2011, 2010 & 2009.

## PUBLICATIONS

### Journals

1. Biju Dharmapalan, *Current science*, 2015,**109** (7), 1220-1221
2. Biju Dharmapalan, *Current science*, 2013,**105** (12), 1654
3. Biju Dharmapalan\*, Renuka S, Jisha, S and Somy Varghese. An Efficient Protocol for Large-Scale Plantlet Production from the Apical Meristem of *MusaParadisiaca* L. cv 'Nendran. International Journal of Agriculture, Environment & Biotechnology, 2013, **6**(3): 341-345.
4. Beesha S Kamal, Padmaja V, Biju Dharmapalan. Induction of callus from leaf and petiole of the plant *Coleus vettiveroids* Jacob. Scholars Academic Journal of Biosciences, 2013,**1**(6), 326-328
5. Biju Dharmapalan, *Current science*, 2012,102 (9), 1245-46
6. Biju Dharmapalan, *Current science*, 2011,**101** (10), 1265
7. Biju Dharmapalan *et al.* Establishment of Fast-Growing Normal Root Culture from the Leaves of *Coleus vettiveroides* Jacob. *Advanced Biotech*, 2011, **11** (3),16-18
8. Biju Dharmapalan, *Current science*, 2011,**100** (8), 1119
9. Biju Dharmapalan, Arun K Das & N.Stalin. An Efficient Protocol for Multiple Shoot Initiation in *Coleus vettiveroides* Jacob, Medicinally Important Plant. *Advanced Biotech*, 2011, **10** (9), 34-36.
10. Biju Dharmapalan, Pradeep,D.P. Sajan,J.S & Abhilash Babu. Isolation and characterization of essential from the leaves of *Cymbopogon flexuosus* (Steud.) Wats. Growing in Aryanad. *Journal of Science Technology and Management*, 2011, **3** (4), 5-8.
11. Biju Dharmapalan, *Current science*, 2008,**94**(11), 1350-51
12. Biju Dharmapalan, *Current science*, 2007,**93**(11), 1469

13. Biju Dharmapalan, *Current science*, 2006,**91**(9), 1125
14. Biju Dharmapalan, *Current science*, 2005,**88**(10)
15. Biju Dharmapalan, *Current science*, 2003,**85**, 561
16. Biju Dharmapalan, *Current science*, 2002,**82**, 904
17. Biju Dharmapalan, *Current science*, 2001,**81**, 629

#### Text Books /Chapters in Books

- Biju Dharmapalan (2016).*Plant Biochemistry- A introduction*. Narosa, Delhi
- Biju Dharmapalan et al. (2014). Elicitors as an inducer of secondary metabolites in plant cell cultures. **Recent Progress in Medicinal Plants-Biotechnology and Genetic EngineeringII, Vol 39,eds J.N.Govil &Ananda Kumar. Studium Press LLC, USA. pp 87-94**
- Arun K Das,Biju Dharmapalan, Stalin and Karpaga Raja Sundari. (2014). Analysis of Chemical composition leaf essential oil in *Toddalia asiatica* by GC/MS analysis. In **Recent Progress in Medicinal Plants-Biotechnology and Genetic EngineeringII, Vol 39,eds J.N.Govil &Ananda Kumar. Studium Press LLC, USA. pp 87-94**
- Biju Dharmapalan (2012).*Scientific Research Methodology*. Narosa, Delhi
- Biju Dharmapalan, Harinandanan,P.V. Jyothish,M.S. and Meganath,V.(2012) Initiation of multiple shoot Buds in *Clerodendron inerme*, a mangrove associate . In **Non-Timber Forest Products and Medicinal Plants-Conservation, improvement and sustainable utilization, eds Sanjay Singh and Rameshwar Da ICFRE ,Dehradun. pp 28-32**
- Biju Dharmapalan et al. (2012). Fermented Products from Mango. In **Mango Production and Processing Technology, Vol 1,eds Sudha G Valavi et al. Studium Press LLC, USA. pp 648-654**
- Vijayakumaran Nair & Biju Dharmapalan (2012). *Methodology of Plant Science*, 1<sup>st</sup> edition. Academic Thiruvananthapuram
- Vijayakumaran Nair & Biju Dharmapalan (2011). *Methodology and perspectives of Science-Botany*,. Academic Thiruvananthapuram
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### Radio Talk

- ❖ Interview with Dr Sreekumar, Scientist, JNTBRI on Radio MACFAST 90.4
- ❖ Interview with Dr Gin Jose, Professor, University of Leeds, UK on Radio MACFAST 90.4
- ❖ Interview with Dr M.K. Mathew, Professor, NCBS on Radio MACFAST 90.4
- ❖ Interview with Rev Dr Kuruvila, regarding Science and Religion on Radio MACFAST 90.4
- ❖ Interview with Rev. Dr Ignachumuthu, Former Vice Chancellor of Madras University on Radio MACFAST 90.4

Hobbies: Travelling, Reading and Philately

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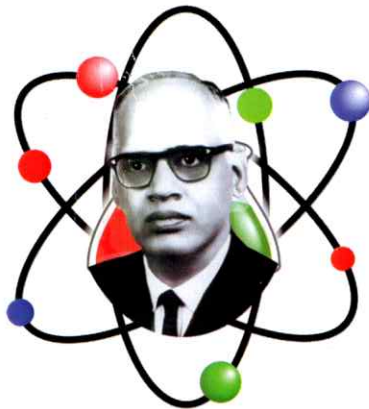
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MEET THE ENTREPRENEUR



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SAN FRANCISCO & MAGGENOME  
TECHNOLOGIES PVT. LTD., COCHIN, KERALA



# G.N.RAMACHANDRAN SCIENCE CLUB MACFAST TIRUVALLA

**MACFAST AUDITORIUM**  
**09<sup>TH</sup> MAY 2019 @ 10 A.M.**





## XPRESSDNA TISSUE KIT BY MAGGENOME TECHNOLOGIES



### ABOUT THE SPEAKER

Dr C. N. Ramchand is the President and CEO of Saksin life Sciences Pvt Ltd, a start-up biotech company as well as MagGenome labs Pvt. Ltd, Cochin. He is also a key Adviser to several companies including Scigenome labs, Medgenome Inc, and Director in Theragen lifesciences/Biologics, Thejo Engineering and Accel Limited, Chennai. Dr Ramchand has over 25 years of rich experience in the areas of teaching, basic research, drug discovery programmes and disease mechanisms, guiding M Sc. / Ph D. students and setting up research facilities. Dr. Ramchand has obtained his PhD in Biochemistry from MS University Baroda and also served as assistant professor (1982-84) at MS University. He has also won the Young Scientist award from Charing Cross and Westminster Medical School, UK for 3 times. Dr Ramchand was associated with Sun Pharmaceuticals for five years as its Vice President and Head of Drug Discovery Research (Biological Research Programme) where he was closely involved in the setting up of a multimillion drug discovery centre including its design and development of laboratories. Afterwards he was associated with KEMIN Pharma, India and Kemin Industries South Asia Pvt. Ltd., a part of Kemin Industries Inc, Desmoines, USA. Currently, Dr Ramchand is an Honorary Visiting Professor to European Nanotechnology consortium at University of Newcastle, UK. He is also an adjunct faculty, Visiting Professor and PhD guide at Swinburne University of technology, Australia. Dr. Ramchand has published over 70 peer-reviewed papers in international journals, edited 5 books, has more than 10 patents granted and has applied for over 40 patents. He has done over 100 research presentations at International conferences. He was a special invitee to give a talk at IIM Ahmedabad on Nanotechnology in September 07 and has been invited again by IIM to give a talk during the workshop on Strategic Management of Intellectual Capital and Organisational Knowledge in September 2010.

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For Registration Contact  
**Mr. Biju Dharmapalan**  
Co-ordinator  
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E-mail: [biju@macfast.org](mailto:biju@macfast.org)



**G.N. Ramachandran Science club,  
School of Biosciences,  
MACFAST  
Report on the Seminar "Meet The Entrepreneur"**

Dr. C. N. Ramachand, CEO, Saksin Lifesciences PVT. LTD, Chennai, San Francisco, and Maggenome Technologies PVT. LTD, Cochin, Kerala

G.N. Ramachandran Science club, School of Biosciences, MACFAST organized a seminar on "Meet The Entrepreneur" on 9 th May 2019 at 10.00 AM IST at MACFAST auditorium. Dr. C. N. Ramachand, CEO, Saksin Lifesciences PVT. LTD, Chennai, San Francisco, and Maggenome Technologies PVT. LTD, Cochin, Kerala was the resource person. Fr. Dr. Cherian J. Kottayil, Principal, MACFAST welcomed the resource person. The resource person shares his perspectives and experiences as an entrepreneur. He also provided an insights regarding how to initiate a start-up. 49 participants have attended the session. The talk was very aspiring and insightful. The event was coordinated by Prof. Biju D, HoD, School of Biosciences, MACFAST.



  
Fr. Dr. CHERIAN J KOTTAYIL  
PRINCIPAL  
Mar Athanasios College For Advanced Studies  
Tiruvalla- 689101, Kerala


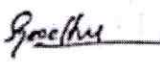
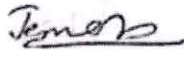
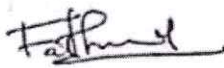

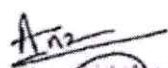




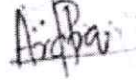

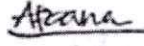

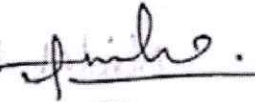

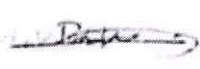
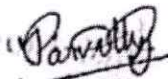
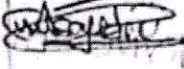
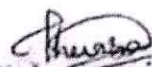
Biju  
Biju D  
co-ordinator  
C.N. Ramachandran  
Science club.



Invited Talk by Dr. C. N. Ramachand on  
"Meet The Entrepreneur"

Date: 9<sup>th</sup> May 2019

Venue: MACFAST Auditorium

Sr.No:	Name	Dept.	Signature
1.	MEJO GEORGE	BC	
2.	Geetha E.S	BI	
3.	Jemole Thomas	FST	
4	Fathima Salim	PBT	
5	Sisira Prasad	BI	
6	Anzia Areez	BI	
7	Hamecha M.A	BC	
8.	Salony K.S	BC	
9	Aleena Johnson	PBT	
10	Chunju Saji	FST	
11	Andrea A.P	BC	
12	Jemy Merin Jose	BI	
13	Aparna Tom	BT	
14.	Sajith S Nair	BS	
15.	Anjana Viswanadh	BE	
16.	Sonet D Thomas	BI	
17.	Bini Sam George	BT	
18.	Parvathy U.R	BC	
19.	Anulekshmi S	BC	
20	Theresa George	BI	



21	Chellira K.C.	FT	Chellira
22	Anu Vijayan	FT	Anu
23	Rahma Haniff	BT	Rahma
24	Angeli T	BT	Angeli
25	Aya Munimathian	BC	Aya
26	Gayana S	FST	Gayana
27	Reeshy N.S	FST	Reeshy
28	Anns K. Francis	FST	Anns
29	Gyopika S	FST	Gyopika
30	Freda Sebastian	BC	Freda
31	<del>Bina dan John George</del>	BT	<del>Bina</del>
32	AMIRA P.	FST	Amira
33	Anjana S	BC	Anjana
34	Revathi padmashree	FST	Revathi
35	Achish Samuel	PBT	Achish
36	Apu Pereira	FST	Apu
37	Strobal Jose vaughese	FST	Strobal
38	Devika Pradip	BT	Devika
39	Pavathi Suresh	BT	Pavathi
40	Nidal Ibrahima	FST	Nidal
41	<del>ANANDARYA SENARATHNATHAN</del>	<del>BT</del>	<del>Anandarya</del>
42	Devika B	BC	Devika
43	Anjali Munali	BC	Anjali
44	RYNE PEREIRA	FST	Ryne
		FST	Velgia

46 Baghaleks Rni

FST

Baghale

47. Divya Sara Varghese

BI

Divya

48 Sruthy M

BT

Sruthy

49 Devada P Nambir

FST

Devada

