MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)



3.2.2.

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

2016-17 to 2020-21

Criteria 3: Research, Innovations and Extension

MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)

Tiruvalla, Pathanamthitta, Kerala 689 101



2017-2018



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)

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

SI.		Number o	of s Start Dat	0 End 5
B.	2017 - 2018	participant	Start Dat	e End Dat
SI. No	T and the second	Number o		
1	Hands-on training programme in Plant Tissue Culture techniques sponsored by Kerala Biotechnology Commission	participants		
2	Meet The Entrepreneur : How to start a startup company	42	9,2,2017	
3	Training programme in Chocolate Making for Prospective Entrepreneurs	62	3.23.2011	
4	A Day with an Entrepreneur by Dr. Majeed Founder & MD, SAMI's lab, Bangalore		11/10/2017	
5	Training Program in Cake Making for Prospective Entrepreneurs	95	10/30/2017	10/30/2017
5	The power of 7i for Successful start-ups Mr.	8	12/7/2017	12/8/2017
	Neelakantan Padmanabhan (Gm (India) &Head) Global Operations LUCEP, Banglore	98	12/13/2017	12/13/2017
	Workshop on Research Methodology by Dr. Michael Sauer, Department of Biotechnology, BOKU University of Natural Resources and Applied Life Sciences, Vienna.			
	Training Program in Chocolate Making for Prospective Entrepreneurs	90	1/8/2018	1/8/2018
	Entrepreneurship Development - Government Schemes and Support	10	3/7/2018	3/8/2018
	- appoin	92	5/4/2018	5/4/2018



Fr. Dr. CHERIAN J KOTTAYIL
PRINCIPAL
Mar Athanasios Chillege

Tiruvalia- 600 10 1, 10, aid

9th August 201	7 (Day 7)
Time	Session title
09.00 - 10.30	Theory - In vitro flowering
	Seeni S.
10.30 - 11.00	Tea Break
11.00 - 12.30	Applications of In vitro flowering
	in crop improvement
	Seeni S.
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - In vitro flowering
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - In vitro flowering
	Biju Dharmapalan
10th August 20	
Time	Session title
09.00 - 10.30	Theory - Protoplast culture
	K. K. Sabu, TBGRI
10.30 - 11.00	Tea Break
1100 1000	
11.00 - 12.30	Somatic hybridization
11.00 – 12.30	Somatic hybridization K. K. Sabu, TBGRI
12.30 - 01.30	
	K. K. Sabu, TBGRI
12.30 - 01.30	K. K. Sabu, TBGRI Lunch Break Practical – Protoplast isolation and culture
12.30 - 01.30	K. K. Sabu, TBGRI Lunch Break Practical - Protoplast isolation
12.30 - 01.30	K. K. Sabu, TBGRI Lunch Break Practical – Protoplast isolation and culture

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Time	Session title
09.00 - 10.30	Theory - In vitro germplasm conservation
	William Decruz, TBGRI
10.30 - 11.00	Tea Break
11.00 - 12.30	Cryopreservation
	William Decruz, TBGRI

and culture

Biju Dharmapalan

12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical – Agrobacterium mediated transformation
	Blessan Santhosh George
03.00 - 03:30	Tea Break
03.30 - 04.45	Practical – Agrobacterium mediated transformation
	Blessan Santhosh George

12th A 2017 (Day 10)

12" August 20	17 (Day 10)
Time	Session title
09.00 - 10:30	Theory - Low Cost Tissue
	Culture Technic
	Hemanth Kumar, TBGRI
10:30 - 11.00	Tea Break
11.00 - 12:30	Issues in Commercial Tissue
	Culture of Floriculture and
	Horticultural Plants
	Hemanth Kumar, TBGRI
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Screening techniques
	for transgenics
	Blessan Santhosh George
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Screening techniques
	for transgenics
	Blessan Santhosh George

For Registration Biju Dharmapalan Co-ordinator

Hands-on training on Plant Tissue Culture techniques and Applications School of Biosciences, MACFAST, Kerala-689101 Phone:9447121718

Hands-on training on Plant Tissue Culture techniques and Applications

02nd to 12th August 2017



Sponsored by





School of Biosciences Mar Athanasios College for Advanced Studies Tiruvalla, Kerala-689101

he School of Biosciences MACFAST (Mar Athanasios College for Advanced Studies Tiruvalla) is organizing a Hands-on training programme in Plant Tissue Culture techniques sponsored by Kerala Biotechnology Commission from 2nd to 12th August 2017. Technical sessions will be handled by scientists from RGCB, Thiruvananthapuram, JNTBGRI, Palode and MACFAST. The programme is primarily meant for students and unemployed youth. Registration for the training programme is free and participation is limited to 30 members. Those interested in attending the workshop should send an email to the programme co-ordinator.

> Rev.Fr.Pradeep Vazhatharamalayil Principal

PROGRAMME SCHEDULE

2 nd August 201	7 (Day I)
Time	Session title
09.00 - 10.30	Theory – Introduction to Plant Tissue Culture
	Biju Dharmapalan
10.30 - 11.00	Tea Break
11.00 – 12.30	Theory – Media components, their role and significance
	Biju Dharmapalan
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical I- Media preparation
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical I - Media preparation
	Biju Dharmapalan

3rd August 2017 (Day 2)

Time	Session title
09.00 -10.30	Theory - Micropropagation
	Biju Dharmapalan
10.30 - 11.00	Tea Break
11.00 - 12.30	Theory - Micropropagation of
	Banana
	Seeni S.
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Micropropagation
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Micropropagation
	Biju Dharmapalan

4th August (Day 3)

Time	Session title
09.30 - 10.30	Theory - Haploid Production
	Arun K. Das
10.30 - 11.00	Tea Break
11.00 – 12.30	Applications of haploids in agriculture and biotechnology
	Arun K. Das
12.30 - 01.30	Lun <mark>c</mark> h Break
01.30 - 03.00	Practical - Anther Culture
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Anther Culture
	Biju Dharmapalan

5th August 2017 (Day 4)

Time	Session title
09.00 - 10.30	Theory - Plant Secondary Metabolites and their Importance
	Sreekumar S. JNTBRI
10.30 - 11.00	Tea Break
11.00 – 12.30	In vitro synthesis of Plant Secondary Metabolities
7 11 7 1	Sreekumar S. JNTBRI

12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Suspension Culture
	Arun K. Das
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Suspension Culture
	Arun K. Das

7th August (Day 5)

Time	Session title
09.00 - 10.30	Theory - Organogenesis and embryogenesis
	T. S. Preetha, University College, Trivandrum
10.30 - 11.00	Tea Break
11.00 - 12.30	Applications of Synthetic seeds
	T. S. Preetha, University College, Trivandrum
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Synthetic Seeds
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Synthetic seeds
	Biju Dharmapalan

8th August 2017 (Day 6)

Time	Session title
09.00 - 10.30	Theory - Basics in Transgenic Technology
	E.V. Soniya, RGCB
10.30 - 11.00	Tea Break
11.00 - 12.30	Transgenics in agribiotechnology
	E.V. Soniya, RGCB
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - DNA Isolation
	Blessan Santhosh George
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - DNA Isolation
	Blessan Santhosh George



Workshop on "Plant Tissue Culture techniques and Applications"

Thiruvalla:

12th August 2017

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 in collaboration with Kerala Biotechnology Commission. The hands on training is organised from 2nd to 12th August 2017. The technical sessions were handled by eminent scientists from RGCB, Thiruvananthapuram, JNTBGRI, Palode and MACFAST. The aim of the programme was to attract students and unemployed youth to the promising area of Tissue Culture. The registration was free and the participants were limited to 30 members. The programme started with the formal inauguration by Fr. Pradeep Vazhatharamalayil, Principal MACFAST. The programme in Day 1 was handled by Mr. Biju Dharmapalan. In the 2nd day, Dr. Seeni S joined along with Prof. Biju Dharmapalan to talk on the theory of Micro propagation. On 4th August Dr. Arun K. Das introduced the topic of Haploid Production along with Anther Culture by Mr. Biju Dharmapalan. Sreekumar S. of JNTBRI handled the theory on Plant Secondary Metabolities and their importance on Day 4. The Practical on Suspension Culture was taken by Dr. Arun K. Das. On 7th August, Theory of Organogenesis and embryogenesis was introduced by T.S. Preetha, University College Trivandrum. The Practical session on Synthetic Seeds tissue culture was handled on the 5th day by Prof. Biju Dharmapalan. The day 6 started with the session on the Transgenics in agribiotechnology by E.V Soniya, RGCB. The practical session on DNA Isolation was delivered by Mr. Blessan Santhosh George, MACFAST. In vitro flowering was the topic of flowers on Day 7 - 9th August 2017, which was

handled by Dr. Seeni S; practical sessions were handled by Mr. Biju Dharmapalan. On 10th August 2017, Protoplast culture was the topic of workshop by K. K. Sabu, TBGRI. The practical for the same was handled by Mr. Biju Dharmapalan. The 9th day started with the class on In vitro germplasm conservation by William Decruz, TBGRI. Cyropreservation and the practical sessions followed on the same date. In the final day Low Cost Tissue Culture Technicque was handled by Mr. Hemanth Kumar, TBGRI. There were also sessions on Issues in Commercial Tissue Culture handled by Mr. Hemanth Kumar, TBGRI. Mr. Blessan Santhosh George handled the practical session on screening techniques for transgenics. A total of 55 participants attended the workshop and the registration was handled by Mr. Biju Dharmapalan.

Athanasios College For Advanced Studies

Tiruvalla- 689101, Kerala



9th August 201	7 (Day 7)
Time	Session title
09.00 - 10.30	Theory - In vitro flowering
	Seeni S.
10.30 - 11.00	Tea Break
11.00 – 12.30	Applications of In vitro flowering in crop improvement
	Seeni S.
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - In vitro flowering
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - In vitro flowering
	Biju Dharmapalan

10th August 20	117 (Day 8)
Time	Session title
09.00 - 10.30	Theory - Protoplast culture
	K. K. Sabu, TBGRI
10.30 - 11.00	Tea Break
11.00 - 12.30	Somatic hybridization
	K. K. Sabu, TBGRI
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Protoplast isolation and culture
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04:45	Practical - Protoplast isolation and culture
	Biju Dharmapalan

11th August 20	17 (Day 9)
Time	Session title
09.00 - 10.30	Theory – In vitro germplasm conservation
	William Decruz, TBGRI
10.30 - 11.00	Tea Break
11.00 - 12.30	Cryopreservation

William Decruz, TBGRI

12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Agrobacterium mediated transformation
	Blessan Santhosh George
03.00 - 03:30	Tea Break
03.30 – 04.45	Practical - Agrobacterium mediated transformation
	Blessan Santhosh George

Time	Session title
09.00 - 10:30	Theory – Low Cost Tissue Culture Technic
	Hemanth Kumar, TBGRI
10:30 - 11.00	Tea Break
11.00 – 12:30	Issues in Commercial Tissue Culture of Floriculture and Horticultural Plants
	Hemanth Kumar, TBGRI
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical – Screening techniques for transgenics
	Blessan Santhosh George
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical – Screening techniques for transgenics
	Blessan Santhosh George

For Registration
Biju Dharmapalan
Co-ordinator

Hands-on training on Plant Tissue Culture techniques and Applications
School of Biosciences,
MACFAST, Kerala-689101
Phone:9447121718
E-mail: biju@macfast.org

Hands-on training on Plant Tissue Culture techniques and Applications

02nd to 12th August 2017



Sponsored by
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The School of Biosciences MACFAST (Mar Athanasios College for Advanced Studies Tiruvalla) is organizing a Hands-on training programme in Plant Tissue Culture techniques sponsored by Kerala Biotechnology Commission from 2nd to 12th August 2017. Technical sessions will be handled by scientists from RGCB, Thiruvananthapuram, JNTBGRI, Palode and MACFAST. The programme is primarily meant for students and unemployed youth. Registration for the training programme is free and participation is limited to 30 members. Those interested in attending the workshop should send an email to the programme co-ordinator.

PROGRAMME SCHEDULE

2nd August 201	7 (Day I)
Time	Session title
09.00 - 10.30	Theory - Introduction to Plant
	Tissue Culture
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	Biju Dharmapalan
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	Biju Dharmapalan

3rd August 2017 (Day 2)

Time	Session title
09.00 -10.30	Theory - Micropropagation
07.00 10.50	Biju Dharmapalan
10.30 - 11.00	Tea Break
11.00 - 12.30	Theory – Micropropagation of Banana
	Seeni S.
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Micropropagation
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Micropropagation
	Biju Dharmapalan

4th August (Day 3)

Time	Session title
09.30 - 10.30	Theory - Haploid Production
	Arun K. Das
10.30 - 11.00	Tea Break
11.00 – 12.30	Applications of haploids in agriculture and biotechnology
	Arun K. Das
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Anther Culture
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Anther Culture

5th August 201	
Time	Session title
09.00 – 10.30	Theory - Plant Secondary Metabolites and their Importance
	Sreekumar S. JNTBRI
10.30 - 11.00	Tea Break
11.00 – 12.30	In vitro synthesis of Plant
	Secondary Metabolities
	Sreekumar S. JNTBRI

Biju Dharmapalan

Lunch Break
Practical - Suspension Culture
Arun K. Das
Tea Break
Practical - Suspension Culture
Arun K. Das

7th August (Day 5)

Time	Session title
09.00 - 10.30	Theory - Organogenesis and embryogenesis
	T. S. Preetha, University College, Trivandrum
10.30 - 11.00	Tea Break
11.00 - 12.30	Applications of Synthetic seeds
	T. S. Preetha, University College, Trivandrum
12.30 - 01.30	Lunch Break
01.30 - 03.00	Practical - Synthetic Seeds
	Biju Dharmapalan
03.00 - 03.30	Tea Break
03.30 - 04.45	Practical - Synthetic seeds
	Biju Dharmapalan

8th August 2017 (Day 6)

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Time	Session title	
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	Blessan Santhosh George	
03.00 - 03.30	Tea Break	
03.30 - 04.45	Practical - DNA Isolation	
	Blessan Santhosh George	

Dr. K K Sabu

Senior Scientist

Biotechnology & Bioinformatics Division

a +91-9895211299

sabu@jntbgri.res.in

Research details

Dr. Sabu is educated in the field of Plant Sciences and has working experience in plant genetics, biotechnology and bioinformatics since 1995. He published several research articles in national/international journals. He has currently supervising five graduate students for their PhD programme and carrying out three externally funded research programmes.

Major Research Activities

- Analysis of genetic diversity and phylogeny in Calamus L. (Arecaceae)
- Analysis of genetic variability, association mapping and microRNA diversity of wild cardamom populations
- Estimation of genetic diversity in Centella asiatica and regulation of secondary metabolite production using miRNAs

R & D projects

Ongoing

Project Title: Community plant-pollinator interactions at the landscape level.
 Name of the PI & Co-PI(s): Dr. B. Sabulal, Dr. Mathew Dan, and Dr. K. K. Sabu (JNTBGRI); Mr. Deepak Mundkinajeddu (M/s Natural Remedies Pvt Ltd, Bangalore).

Funding agency and amount sanctioned: Department of Biotechnology, Government of India. 36.31 Lakhs.

Project period and date of commencement: 3 years from 14.05.2015.

Project Title: Identification of elite lines of Centella asiatica and Bacopa monnieri for commercially significant constituents for standardization of their extracts

Name of the PI & Co-PI(s): Dr. A. K. Sreekala, Dr. C. Anilkumar and Dr. K. K. Sabu (JNTBGRI); Dr. Hema Somanathan (IISER, Trivandrum), Dr. Deepak Barua (IISER, Pune), Prof. V. V. Belavadi (GKVK, Bangalore)

Funding agency and amount sanctioned: Department of Biotechnology, Government of India. 59.23 Lakhs.

Project period and date of commencement: 3 years from 14.05.2015

Project Title: Analysis of genetic variability and bioprospecting of wild cardamom populations.

Name of the PI & Co-PI(s): Dr. K. K. Sabu.

Funding agency and amount sanctioned: KSCSTE Plan (In-house). 24.84 lakhs (fund received till 4th year).

Project period and date of commencement: 5 year programme started in April 2012.

Completed

 Project Title: Assessment of Genetic Diversity and Identification of Gender Specific Markers of Important North-East and South Indian Rattan palms using SSR Analysis.
 Name of the PI & Co-PI(s): Dr. K.K. Sabu & Dr. A.S. Hemanthakumar.
 Funding agency and amount sanctioned: Department of Biotechnology, Government of India. 16.35 Lakhs.

Project period and date of commencement: Nov 2011 to Nov 2014

Project Title: Analysis of genetic diversity in selected rattan palms (Calamus sp.) using microsatellite markers.

Name of the PI & Co-PI(s): Dr. K.K. Sabu.

Funding agency and amount sanctioned: Kerala Biotechnology Commission,

KSCSTE, Fund received: 10.34 lakhs.

Project period and date of commencement: April 2012 to March 2014.

Major Achievements

- Organized a germplasm collection of Andrographis paniculata from South East Asia and analyzed intraspecific variations of the species.
- Six new rice varieties were developed and registered under PROTECTION OF NEW PLANT VARIETIES ACT 2004 in Malaysia in association with other researchers.
- · Developed mapping population of rice and conducted molecular breeding.
- Genome size of cardamom was determined for the first time.
- Micro RNA and transcriptome sequencing cardamom was carried out for the first time.

Publications

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- 2. Thomas, J. and K. Sabu. 2015. Development of a New Pipeline for Identification and Characterization of Micro RNAs from Plants. *International Journal of Computational Biology* 4(2) (Accepted).
- 3. Alireza Valdiani, Daryush Talei, Surrinder K. Lattoo, Jacqueline Batley, Rodomiro Ortiz, Mohd Yusop, Rafii, Mahmood Maziah, K. Sabu, Rambod Abiri, Suchirat Sakuanrungsirikul, Soon Guan Tan. 2015. Biotechnological and Conventional Advances of Plant Breeding in Andrographis paniculata: A Promising Breeding Platform for Autogamous Medicinal Plants. Critical Reviews in Biotechnology (Accepted).
- Princy, P. S., A. Gangaprasad and K. Sabu. 2015. In Vitro Propagation and Evaluation of Genetic Fidelity of Aegle marmelos (L.) Correa, a Highly Sought After Sacred Medicinal Tree. Phytomorphology 65 (1&2): 1-10.
- F., N. Anjali, A. Gangaprasad, K. K. Sabu. 2015. High quality RNA extraction from small cardamom tissues rich in polysaccharides and polyphenols. *Analytical Biochemistry* 485: 25-27. doi:10.1016/j.ab.2015.05.017
- Anjali, N., Sowmya S. Dharan, F. Nadiya and K. Sabu. 2015. Development of EST-SSR markers to assess genetic diversity in *Elettaria cardamomum* Maton. *International Journal of Applied* Sciences and Biotechnology, Vol 3(2): 188-192. doi: 10.3126/ijasbt.v3i2.12380
- Abdul Rahim H., Lim L.S., Sabu K.K, Saad A, Md. Atiqur Rahman B, Azhar M and Wickneswari R. 2012. Identification of quantitative trait loci for blast resistance in BC₂F₃ and

- BC₃F₅ advanced backcross families of rice. *Genetics and Molecular Research* 11 (3): 3277-3289 (Sept 2012).
- Wickneswari R., M.A.R. Bhuiyan, K. Sabu, L.S. Lim, M.J. Thomson, N.M. Kairudin and Abdullah M.Z. 2012. Identification and Validation of Quantitative Trait Loci for Agronomic Traits in Advanced Backcross Breeding Lines Derived from *Oryza rufipogon × Oryza sativa* Cultivar MR219. *Plant Mol Biol Rep* 30(4): 929-939, DOI: 10.1007/s11105-011-0404-4 (Published on 17 Jan 2012)
- 9. Ngu M.S., Sabu K.K., Lim L.S., Abdullah M.Z, Wickneswari R. 2010. Genetic structure of *Oryza rufipogon* natural populations in Malaysia: Implications for conservation and genetic introgression of cultivated rice. *Tropical Plant Biology* 3(4): 227-239.
- 10. Sabu K.K., Abdullah M.Z., Lim L.S. and Wickneswari R. 2009. Analysis of heritability and environmental variances in a rice cross. *Agronomy Research* 7: 97-102.
- 11. Sabu K.K., Abdullah M.Z., Lim L.S and Wickneswari R. 2006. Development and evaluation of advanced backcross families of rice for agronomically important traits. *Communications in Biometry and Crop Science* 1(2): 111-123
- 12. Sabu, K.K., Padmesh and S. Seeni. 2001. Estimation of active principle content and isozymes of *Andrographis paniculata*, an important medicinal plant of India. *Journal of Medicinal & Aromatic Plant Sciences* 23: 637-647.
- 13. Jacob, J.P., K.K. Sabu and T.K. Abraham. 2000. Genetic variability of mutant strains of *Pleurotus citrinopileatus* based on isozyme electrophoresis. *Mushroom Research* 9: 79-84.
- 14. Padmesh, P., K. Sabu, S. Seeni and P. Pushpangadan. 1998. The use of RAPD in detecting genetic variability in Andrographis paniculata Nees: a potent hepatoprotective drug. Current Science 76: 833-835.
- 15. Seeni, S., K. Sabu and P. Padmesh. 1998. Variable-Invariably: An introduction to intraspecific variations in medicinal plants. *Amruth* 2: 3-8.

Books/Book Chapters/Thesis

Sabu, K. K., Nadiya. F., and N. Anjali. 2016. miRNA isolation from plants rich in polysaccharides and polyphenols. In: Micro RNA Profiling: Methods and Protocols. Sweta Rani (Ed). Springer, New York. (Accepted)

Harinarayanan, P. & Sabu, K. K., (Eds.). 2009. Proceedings of National Seminar on Coastal Ecosystem Management & Evaluation Workshop of South Indian ENVIS Centres. ENVIS Centre, Kerala State Council for Science, Technology, & Environment, Thiruvananthapuram. 126 pages.

Sabu, K.K., N.S. Pradeep and P. Padmesh. 2003. Application of molecular markers for the analysis of genetic diversity and systematics of fungi. In Frontiers of Fungal Diversity in India (Prof. Kamal Festschrift) Ed. by G. P. Rao, C. Manoharachari, D. J. Bhat. Published by: International Book Distributing (Lucknow), xxiv, 906p. ISBN: 8185860920.

KK Sabu. 2002. Intraspecific variations in *Andrographis paniculata* Nees (PhD Thesis). Kerala University, Thiruvananthapuram, India

Seeni, S. and K.K. Sabu. 1998. Conservation and economic utilization of plant genetic resources through Biotechnological means. In: Conservation and Economic Evaluation of Biodiversity. Vol. I. pp. 239-249. Oxford University press, New Delhi.

Conference Papers

Binoy Kurian, Vishnu V. Nair, and K.K. Sabu. 2015. Paucity of genetic diversity in an important non-wood forest produce: *Calamus brandisii* Becc. – A dwindling species? Proceedings of the 27th Kerala Science Congress held at Alappuzha during 27th – 29th January 2015.

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Krishna R. Nair, Gangaprasad A. and K. K. Sabu. 2014. An efficient plant regeneration from nodal explant of Somalata [Sarcostemma acidum (roxb.) Voight] and assessment of genetic uniformity using ISSR markers. Proceedings of the 26th Kerala Science Congress held at Wayanad during 28th – 31st January 2014, pp. 316 (10-90).

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Binoy Kurian, Vanila Varghese, Vishnu V. Nair, Hemanth Kumar A.S. and K.K. Sabu. 2013. Analysis of genetic diversity in an economic rattan palm, *Calamus thwaitesii* Becc. using SSR and ISSR markers. Proc. National Seminar on Tree Biotechnology 2013 organised at the Institute of Forest Genetics and Tree Breeding, Coimbatore from 23-24 September 2013. (Eds.) Madhumita Dasgupta, Rekha R. Warrier and R. Yasodha. Page 226-228.

Ashitha J Prakash, Anija T Anto, Anjali, N and K K Sabu. 2013. Genetic diversity among cardamom germplasm accessions assessed by SSR and ISSR analysis. Proceedings of the 25th Kerala Science Congress held at Technopark at Thiruvananthapuram during 29th January to 1st February 2013, pp. 263-265 (03-27).

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Li Sze Lim; K. K. Sabu, Mee Siing Ngu; Md Atiqur Rahman Bhuiyan; Abdullah Mohammed Zain; Michael J. Thomson; Wickneswari Ratnam. 2009. Identification of quantitative trait loci for agronomic traits in an advanced backcross population between Oryza rufipogon Griff. and the Malaysian Oryza sativa I. cultivar MR219 and fine mapping. Proc. 8th Malaysia Congress on Genetics, 4-6 August 2009, Genting Highlands, Malaysia

Lim, L. S., Ngu, M. S., K. K. Sabu, Bhuiyan, M. A. R., Zain, A. M., Thomson, M. J., Wickneswari, R. 2009. Identification of quantitative trait loci for agronomic traits in an advanced backcross population between *Oryza rufipogon* Griff. and the Malaysian *Oryza sativa* L. cultivar MR219 and fine mapping. *Proceedings of 8th Malaysia Congress on Genetics*, 4-6 August 2009, Genting Highlands, Malaysia

Kokkal, K., P. Harinarayanan and K.K.Sabu. 2008. Wetlands of Kerala. In: *Proceedings of Taal* 2007: 12th World Lake Conference held at Jaipur. Pg.1889 to 1893

Ngu, M.S., Sabu K.K., Lim L.S. Abdullah M.Z., and Wickneswari R. 2007. Genetic structure of *Oryza rufipogon* Griff. in Malaysia. 6th Asian Crop Science Association Conference and 2th International Conference on Rice for the Future. November 5-9, 2007. Queen Sirikit National Convention Center in Bangkok, Thailand.

Sabu K.K., Abdullah M.Z., Lim L.S. and Wickneswari R. 2005. Heritability and genetic variance estimates for yield and yield related traits in *Oryza rufipogon/O. sativa* F, and BC_2F_2 families. 5 International Rice Genetics Congress held at International Rice Research Institute (IRRI), Manila in November 2005.

Lim, L.S., K.K. Sabu, R. Wickneswari and M.Z. Abdullah. 2005. Identification of QTLs for tillering ability in an inter-specific rice cross. *Plant & Animal Genomes XIII Conference*, January 15-19, 2005. Town & Country Convention Center, San Diego, USA.

Sabu, K.K. 2005. Using SAS Procedures to Estimate Genetic Variances and Heritability in a Rice Cross. Proc. of 19th Annual SAS User's Malaysia (SUM) Forum, Kuala Lumpur Convention Centre. 21 Sept 2005.

Geetha, B.S., K.K. Sabu and S. Seeni. 2003. Genetic variation in south Indian populations of *Phyllanthus amarus* Schum. & Thonn. (Euphorbiaceae) assessed using isozymes. Proceedings of the 15th Kerala Science Congress. 29-31 January 2003, Thiruvananthapuram, pp. 196-201.

Nadarajah, K., Song, B.K., Sabu, K.K. and Ratnam, W. 2003. The Use of microsatelite markers in physical and genetic mapping of Malaysian rice variety. *International Conference for Bioinformatics*, Penang Malaysia. Pg 111 (D003).

Lim L.S, Sabu K.K., Wickneswari R. and Abdullah M.Z. 2003. QTL identification of yield-related traits in a Malaysian rice cross. *Int Rice Conference*, 13-17 Oct 2003, Alor Setar, Malaysia

Wickneswari R., Lim L.S., Sabu K.K. and Abdullah M.Z. 2003. Improvement of grain yield using AB-QTL strategy in a Malaysian rice variety. Oral paper presented at the 14th National Biotechnology Seminar, 11-13 December 2003, Penang, Malaysia.

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Sabu, K.K. and Seeni, S. 2003. In situ and ex situ genetic diversity of Andrographis paniculata Nees populations from India. Int Genetics Congress 2003, 6-11 Jul 2003, Melbourne, Australia

Sabu, K.K. and S Seeni. 2001. PlantPack: a new software for analysis of diversity within *Andrographis paniculata*, an important medicinal plant, In: Proc. Kerala Science Congress (13th), January 2001, Thrissur pp. 688-690.

Sabu, K.K., S Seeni and G Sreekantan Nair. 2001. The application of Bioinformatics in bioprospecting of medicinal plant resources of Kerala. In: Proc. 13th Kerala Science Congress, January 2001, Thrissur. Theme Session: information Technology for Development – A Millennium Perspective, pp. 46-50.

Padmesh P., K.K. Sabu and S. Seeni. 1999. Analysis of genetic variations in *Andrographis* paniculata using isozyme and random amplified polymorphic DNA markers. Proc 11th Kerala Science Congress, 27 Feb.-1 Mar. 1999, Kasaragod- (India), pp. 95-100

Sabu, K.K. and S. Seeni. 1999. Development of a computer package for estimation of various plant molecules. *Symposium on Current Trends in Biology*, Indian Institute of Science, Bangalore. 27-28 Dec, 1999.

Sabu, K.K. and S. Seeni. 1998. Patterns of allozyme diversity in natural populations of *Andrographis paniculata* Nees. National Conference on Recent Trends in Spices and Medicinal Plant Research, Bose Institute, India, 2-4 April, 1998

Sabu, K.K. and S. Seeni. 1996. Biochemical characterization of intraspecific variations in *Andrographis paniculata* Nees. *International Symposium on Perspectives in Biochemistry and Molecular Biology*, Indian Institute of Science, Bangalore. 20-23 Nov, 1996.

Other Publications

- ENVIS Newsletter (Vol.1, Nos 1-4; Vol.2, Nos.1-2) (Member, Editorial Board)
- A handbook (in Malayalam) on water-related diseases prevalent in Kerala (Member, Project Team)
- Kalavastha Vyathianum (in Malayalam), a book on climate change (Member, Project Team)

 Proceedings of the ENVIS workshop held at Munnar on 2-3 April 2009 (Member, Editorial Board) Home (index.php) > Research Programs (disease_biology.php)

> Transdisciplinary Biology (interdis.php)

Soniya E.V, PhD

Scientist G

- About Me (scientist_bio.php?fid=43)
- Research (scientist_research.php?fid=43)
- Publications (scientist_publication.php?fid=43)
- Team (scientist_team.php?fid=43)
- Alumni (scientist_alumni.php?fid=43)
- Contact (scientist_contact.php?fid=43)



Profile

I am interested in understanding the molecular mechanisms working behind the interactions of plants with both biotic and abiotic factors, especially the plant-pathogen interactions and plant stress responses, and the molecular details of metabolic pathways for the production of secondary metabolites.

Academic Positions

Scientist G

Rajiv Gandhi Centre for Biotechnology

Education

PhD Botany 1995

Department of Botany, University of Kerala

Awards

2019

National Woman Bioscientist Award, DBT

Fellow, National Academy of Science India

2007-2008

INSA/DFG visiting Scientist in Max Planck Institute of Chemical Ecology, Jena, Germany

Fellow, National Academy of Biological Sciences

2017

Best Woman Scientist, National Academy of Biological Sciences

Fellow, Kerala Academy of Sciences

Patents

Primers for developing genotype specific marker in Piper nigrum. 3377/DEL/2005

Memberships

- Member, Indian Society of Cell Biology
- Member, Society for Plant physiology and Biochemistry
- Member, Kerala Academy of Sciences
- Member, Society for Biotechnologists (INDIA)
- Member, National Academy of Science India

CONTACT

Rajiv Gandhi Centre for Biotechnology (RGCB),

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(http://makeinindia.com/home/) | (http://incredibleindia.org/) data.

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Soniya E.V, PhD

Scientist G

- About Me (scientist_bio.php?fid=43)
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- Team (scientist_team.php?fid=43)
- Alumni (scientist_alumni.php?fid=43)
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Research Summary

Trans-Disciplinary Genomics Program

- Plant Genomics and Metabolomics (plant-pathogen interactions, plant stress response and metabolic pathways for production of secondary metabolites.
- India Genome Project (A Department of Biotechnology multi institute program on whole genome sequencing of Indian populations to create a detailed catalog of genetic variations.
- 3. Creation of an Indian DNA Fingerprint Database.

Research Programs



Characterization of the active molecular repertoire in the stress regulation of black pepper

Description of the study



Molecular characterization of plant type III polyketide synthase involved in the biosynthesis of medicinally important phenylpropanoids

Description of the study

Current Research Grants

2018

Characterization of key structural genes involved in flavonoid synthesis in Indian

2015

Gooseberry, (Emblica officinalis Gaertn)

Kerala State Council for Science, Technology and Environment [KSCSTE]

Department of Biotechnology [DBT]

Previous/ Completed Research Grants

1. Identification and functional validation of Type III PKS from A. marmelos involved in anthranilic acid derived alkaloid biosynthesis.

Department of Science & Technology [DST] 2012-2015

- 2. Evaluation of differentially expressed miRNAs during biotic stress in black pepper. Council of Scientific and Industrial Research [CSIR] 2011-2014
- 3. A database of Type III Polyketide Synthase protein structures with specific catalytic function utilizing structural bioinformatic methods.

Department of Information Technology, Government of India. 2008-2011

4. Genetic transformation of ginger to improve fungal resistance against Pythium aphanidermatum.

Department of Science & Technology, Government of India 2007-2010

- 5. Isolation and full length cloning of abiotic stress induced CDPK gene and its promoter. Kerala State Council for Science, Technology and Environment [KSCSTE] 2006-2009
- 6. Tissue specific expression of antifungal gene in Piper nigrum L. Department of Biotechnology [DBT] 2005-2008
- 7. Genetic transformation studies in Piper nigrum L. Department of Biotechnology [DBT] 2002-2005
- 8. Expression of Hepatitis B surface antigen in Cucumissativus L. Kerala State Council for Science, Technology and Environment [KSCSTE] 2002-2005
- 9. Improvement of spices crop by biotechnological intervention. Department of Biotechnology, Government of India (multi institutional)

10. Field evaluat of tissue cultured plants of spices and assessment of their genetic stability using molecular methods.

Department of Biotechnology, Government of India (Collaborative project with IISR) 2000-2003

11. Developmental techniques for the mass multiplication of rare medicinal plants through in vitromethods.

NATP 2001-2004

CONTACT

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Thycaud Post, Poojappura,

Thiruvananthapuram - 695 014, Kerala, India

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Biotechnology and Bioinformatics Division

Head of Division Mission and Vision



Conservation and sustainable utilization of plant genetic resources of the nation the biotechnological intervention, knowledge discovery and promoting lab-to-land programme.

View Brochure

Dr. Decruse

Major services offered

- Senior Scientist Facility for in silico drug discovery
 - · Genetic diversity / phylogency analysis
- **Scientists**
- · Training / Project guidance / internships in Plant Tissue Culture, Bioinformatics, Molecular Bio
- Dr. S Sreekumar Senior Scientist
- Supply of quality planting materials including seeds of vegetables, coconut seedlings, and sa of fruit plants etc.

Dr. K K Sabu

Senior Scientist

Dr. C K Biju Scientist

Dr. R K Radha Scientist

Mr. Raveendran Scientist

Area of Research

- Conservation through biotechnology intervention mainly focusing on in vitro propagation lead restoration and/or cultivation of prospective medicinal plants, insect repellent plants, orchid musa, cardamom, bamboos, etc; in vitro/cryobanking of endangered and endemic orchid medicinal plants of Western Ghats.
- Functional genomics and population genetics of rattans, cardamom, medicinal plants, etc.
- . Bioinformatics research focusing on validation of the efficacy of medicinal properties of se plants through in silico, in vitro and in vivo screening and identification of lead mole development of biodiversity databases. More>>

Technical Officers

List of important recent research findings

 The scientific validation of insect repellent properties of Etlingera fenzlii (an ethnobotanical repellent plant species of the Andaman Nicobar Islands) is being carried out.

Dr. Hemanthakumar

 Accomplished chemical profiling of 12 accessions of 'sweet flag' (Acorus calamus L.) germ from the Western Ghats.

Mrs. Shylajakumari

- Accomplished enhancement of anthocyanin production in suitable in vitro culture system root) of Ipomoea batatas (L.) Lam.
- . In vitro regeneration studies and bio prospecting of all accessions of Salacia species acro Western Ghats
- Supporting staff
- · Accomplished auxin induced root culture system in Rubia cordifolia Linn., an important me-

Ms. V. S. Sindhu Lab Assistant

Syamalakumari

Lab Attendant

S.

Mrs.

Secondary metabolite content in Centella asiatica has been enhanced through use of metastimulants which resulted in around 6-fold increase in madecassoside levels whereas expression analysis showed an upregulation of approximately 50-fold. These findings c explored for better understanding of the regulation of terpenoid biosynthesis and biotechnol application for the increased production of these bioactive molecules.

- Developed database application packages and organised two database (1) "Plants, phytochel opeutics, (2) Virtual herbarium of University of Kerala
- Eval and anti-tuberculosis activity of Anacardium occidentale. Passiflora edulis and Plectr. vettiveroides through in silico method.
- Identified leads against Dengue virus NS3 protease and host IMPDH2 from phytochemicals d from 5 anti-dengue herbs. The results are communicated for publication.
- Studied the anti-hepatitis-C activity of selected medicinal herbs and identified lead molecule results are communicated for publication.
- Digitized 5000 herbarium specimens' images and data on the virtual herbarium database Department of Botany, University of Kerala as part of a joint herbarium digitizing progr JNTBGRI and Department of Botany, University of Kerala.
- A total of 2374 phytochemicals from the selected nine plants viz. Aegle marmelos (L.) Ananas comosus (L.) Merr., Annona squamosa L., Artocarpus heterophyllus, Carica papaya L., limon (L.) Osbeck, Punica granatum, Syzygium aromaticum (L.) Merr. & L.M.Perry, and Tama indica L. were screened through in silico method against molecular targets of SARS-CoV-2 si main protease (Mpro), spike protein, RNA dependent RNA polymerase (RdRp) and Angic Converting Enzyme-2 receptor (ACE2) and identified potential lead molecules.

Major programmes initiated/conducted recently

- In silico evaluation of anti-SARS-CoV-2 activity in selected plant-derived nutraceuticals
- Virtual herbarium of the Department of Botany University of Kerala A technology s programme initiated with the University of Kerala.
- Landscaping and gardening at G.V. Raja Sports School An expertise sharing programme
- Species distribution modelling and bioprospecting of wild germplasm of Salacia species (high antidiabetic plants) across the Western Ghats (National Medicinal Plant Board, Govt of India)
- · Utility of Semiochemicals and screening of ethno botanical insect repellent plant species Andaman Nicobar Islands in pest/insect management and its popularization as an eco-fi Products (Plan funded program)
- Exploration of Banana Biodiversity and its Biotechnological Research in Nagaland (DBT, Green Company)
- Enhancement of anthocyanin production in suitable in vitro culture system (cell / root) of Ipo batatas (L.) Lam. (PDF program, DST, Govt. of India)

External funded projects on-going

Name of Project	Funding Agency	Amount
Species distribution modelling and bioprospecting of wild germplasm of Salacia species (high value antidiabetic plants) across the Western Ghats	NMPB, GOI	33.2304 (16.6152lakhs JNTBGRI and16.6152lak for IIHR)
Exploration of Banana Biodiversity and its Biotechnological Research in Nagaland	Dept. of Biotechnology, Govt. of India	27.63
Population structure and genetic variability analysis of Cullenia exarillata populations in Western Ghats	Science and Engineering Research Board, DST, Govt. of India	32.18

Analysis of genetic diversity, development of sex linked SCAR markers and marker-assisted selection of Asian Palmyra palm (Borassus flabellifer L., Arecaceae)		22.34
Digitization of Botanical Herbarium of the Department of Botany, University of Kerala	University of Kerala	10
Landscaping and Gardening in the G.V. Raja sports school campus	Directorate of Sports & Youth Affairs, Govt. of Kerala	49.98

Recent Papers in Journals

- 1. Sreeja Devi P S, Neethu S Kumar, K K Sabu. 2021. Phytochemical profiling and antioxidant activit different parts of *Artocarpus heterophyllus* Lam. (Moraceae): A review on current status of knowle Future Journal of Pharmaceutical Sciences 7, Article number: 30. Springer Nature Publishers. Publ 28 January 2021. https://doi.org/10.1186/s43094-021-00178-7
- 2. Shefin Basheera, S. Sivanandan* and B. C. Kamalan (2021). Anti-Tuberculosis Activity in *Punica granatum: In silico* Validation and Identification of Lead Molecules. *Indian J Pharm Sci* 2021;83(2): 321, DOI: 10.36468/pharmaceutical-sciences.778. IF 0.721
- 3. Goh W L, S Sungkaew, A Teerawatananon, D Ohrnberger, E A Widjaja, K K Sabu, B Gopakumar, K Koshy, N-H Xia, K M Wong. 2020. The phylogenetic position and taxonomic status of the Southeas South Asian bamboo genera Neohouzeaua and Ochlandra (Poaceae: Bambusoideae). Phytotaxa 4 (2): 107–122. https://doi.org/10.11646/phytotaxa.472.2.2
- Gouri, P. R., Jisha, S., and K. K. Sabu. 2020. Dataset on Discovery of MicroRNAs in *Centella asiat* (L.) Urb. Data in Brief 106451. Available online 22 October 2020. https://doi.org/10.1016/j.dib.2020.106451
- Arun R P, C T Riyas, K K Sabu. 2020. A review on the unexplored and underutilized *Arenga* specie India. Current Botany. 11: 226-232. Published online: 2 December 2020. https://doi.org/10.25081/cb.2020.v11.6252
- 6. Sreeja Devi P S, Neethu S Kumar and K K Sabu. 2020. Total phenolics, flavonoid contents and antioxidant potential by DPPH scavenging activity in different varieties of *Artocarpus heterophyllus* (Jackfruit) from southern districts of Kerala. Journal of Advanced Scientific Research 11 (4) Suppl
- 7. Siju S. and K. K. Sabu. 2020. Genetic resources of Asian Palmyrah palm (Borassus flabellifer L.): comprehensive review on diversity, characterization and utilization. Plant Genetic Resources. Publi online: 08 January 2021. https://doi.org/10.1017/S1479262120000477
- 8. Seeja G and Sreekumar S (2020) A review on cybrids: An approach for plant improvement. Crop 55(1&2):48-56. DOI:10.31830/2454-1761.2020.011. IF:1.2
- Seeja G and Sreekumar S (2020) Doubled haploids in genetic improvement: A review. Internation Journal of Recent Scientific Research 11(1):36941-36949. DOI:

http://dx.doi.org/10.24327/ijrsr.2020.1101.5029. IF: 7.383



Recent Book chapters published:

- Shefin B, Sreekumar S and Biju C.K. In silico Evaluation of Anti-SARS CoV-2 Activity of i granatum L. Phytochemicals Chukwuebuka Egbuna (ed) in Coronavirus Drug Discovery, Elsev press)
- In Vitro Multiplication and Conservation of Threatened Medicinal Plants of Western Ghats of India (RADHA RK). 2020. In: Rajasekharan PE., Wani S. (eds) Conservation and Utilization of Threa Medicinal Plants Springer, Cham. https://doi.org/10.1007/978-3-030-39793-7_7
- 3. Satheesan, J., & Sabu, K. K. (2020). Endophytic Fungi for a Sustainable Production of Major Bioactive Compounds. In Plant-derived Bioactives (pp. 195-207). Springer, Singapore.
- 4. Anjali N & Sabu K K (2020). Role of miRNAs in biotic and abiotic stress management in crop
 In: Sustainable Agriculture in the Era of Climate Change. Edited by R. Roychowdhury (Springer Nev USA). Pp. 513-532. https://doi.org/10.1007/978-3-030-45669-6_22
- 5. Jisha S & Sabu K K (2020). Endophytic Fungi for a Sustainable Production of Major Plant Bic Compounds. In: Plant-derived Bioactives: Production, Properties and Therapeutic Applications. Edited by Dr. Mallappa Kumara Swamy. https://doi.org/10.1007/978-981-15-1761-7_8. First Onli May 2020.
- Nadiya F & Sabu K K (2020). Small RNA manipulation in plants: Techniques and recent developr In: Plant Small RNA: Biogenesis, Regulation and Application. https://doi.org/10.1016/B978-0-12-81 7.00018-3

Recent Awards/Honours:

Keerthi Sugathan has bagged the best poster presentation award in Biotechnology for the paper e "In silico evaluation of anti-SARS COV-2 activity in Aegle marmelos." in the 33rd Kerala Science Coi held from 25 to 30 January, 2021.

Recent Ph. Ds. awarded

Name of Candidate	Title of Thesis	University
Anju Sudhakaran	Ex situ conservation and Chemical characterization of Etlingera fenzlii (Kurz) Skronick.& M.Sabu (Zingiberaceae) - The honey bee repellent endemic plant species of the Andaman Nicobar Islands	University of Kerala
Deepa V	Bioprospecting of selected medicinal plants for viper anti- venom drug	University of Kerala

You are here: Home > Research > Biotechnology and Bioinformatics Division







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Contact www.linkedin.com/in/dr-preethats-5a02071b9 (LinkedIn)

Dr Preetha TS

Assistant Professor at University College, Thiruvananthapuram Thiruvananthapuram

Experience

University College, Thiruvananthapuram Assistant Professor

Kerala Biotechnology Commission Sponsored Hands-on training on Plant Tissue Culture techniques and Applications 2^{nd} to 12^{th} August 2017

Attendance Sheet

1,

Date: 8-8-2017

Sl.No	Name	Signature
1	Deepak v	
2	Saikrishna	Jan Va
3	Sona S	RI
4	Krishna Priya	
5	Neeraja Suresh	Nuet
6	Shahanas Basheer	A share
7	Sruthimol C Bhasi	Southand
8	Aiswarya S	Aisolanda
9	LekshmiSanthosh	Joken A.
10	Aswathy Mohan	Adm
11	Surya B S	3-10
12	NehaLukose	Scholak
13	NidhisaSali S	Nidradia
14	Meenu D Pillai	Meane Dilla.
15	Aparna K V	Apano.
16	Greeshma Radhakrishnan	CAVOUR VICE
17	C Charankumar	Column
18	V Prabhu	Chaffe !

1,

19	Chandhni Jagadeesan	Chandri
20	Dinu P S	Dinu
21	Melna E S	Here .
22	ShriramNath V L	Raisen
23	Sreelakshmi R	gnelebulus.
24	Lekshmi R	Man
25	Amal Anand	Amal
26	Parvathy Nandakumar	Pary
27	Lekshmi S Kumar	Lephons
28	Parvathy J	Pawaithy
29	Athira Rajan	Cellens
30	Anaswara Syam	Amy-
31	Anjumol K P	Angust
32	Maria Joy	Maria
33	Gayathri U	Brayather
34	Litty Thomas	July.
35	Elma Susan Reji	Shuk.
36	Ambili M Thomas	Jakili.
37	Aleena T Mathews	Sheam
38	Boby George	Aleen.

39	Athira Krishnan R	Auth
40	Kavya Krishna	X
41	Preena S Parvathy	Quina St.
.42	Swathika Ajith	Smith
43	Remya L	Remyai
44	Sneha S Nair	Snoher.
45	Rahmath Khadin	Rhuth
46	Veniraj	Herly
47	Krishna R Pillai	KRPion.
48	Likhitha L	Lithita.
49	Neema R Soman	Neems
50	Aswathy Viswam	Armity
51	Athira K S	Africa
52	Semina Haneef	As
53	Anu Sathyan	Dans.
54	Arya S Vijayan	Axys
53	Fathima Beevi S	Thines.
55	Gayathri R Chandran	Comethin
-		
		X.
-		



GN Ramachar Tran Science Club, School of Biossiences, MACFAST organizes



Meet The Entrepreneur:
How to start a startup company

Resource Person

Dr. C.N Ramachand
CEO, Saksin Lifesciences Pvt. Ltd,
Chennai, Tamilnadu

20th September 2017 TIME: 10 AM



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA (MACFAST)

Thiruvalla - 689101

GN Ramachandran Science club, School of Biosciences

Report on Seminar on Meet the Entrepreneur

Dr. C.N. Ramchand

20th September 2017

The G N Ramachandran Science Club, MACFAST organized a seminar "Meet the entrepreneur" by Dr. C.N. Ramchand, CEO, Saksin Lifesciences Pvt. Ltd, Chennai, Tamilnadu, on 20th September 2017 at 10 am IST at MACFAST auditorium. Rev. Fr. Pradeep Vazhatharamalayil welcomed the resource person. The resource person gives a description on how to start a startup company. The talk highlighted the importance of starting a business and being a young entrepreneur. It was a highly participatory event in which 63 individuals participated and were able to get answers to their queries and concerns. Dr. Ramchand appreciated the awesome response received from the participants for this seminar. Prof. Biju D, HoD, School of Biosciences expressed vote of thanks to the resource person and appreciated this mind blooming session.

QUERIAN J KOTTAYIL

Mar Athanasios College For Advanta



Boosa Vorghese C.N. Romachandsan





1 message

Biju Dharmapalan

biju@macfast.org>

Sat, Sep 16, 2017 at 2:54 PM

To: faculty <faculty@macfast.org>, bioscience <bioscience@macfast.org>, Abraham Mulamoottil <principal@macfast.org>, Abraham Mulamoottil <a.mulamoottil@gmail.com>, Sanesh Pv <sanesh@macfast.org>

Dear Sir/Madam

The invited talk of Dr CN Ramchand ,Chief Executive Officer,Saksin Lifesciences Pvt Ltd organized by G N Ramachandran Science Club MACFAST is rescheduled to 20th September 2017 at MACFAST auditorium from 2pm to 4 pm.

All are cordially invited

Biju

Biju Dharmapalan

Head

School of Biosciences

Mar Athanasios College For Advanced Studies Tiruvalla (MACFAST)

(Accredited (First Cycle) by NAAC with 'A' grade)

Kerala, India-689 101

www.macfast.ac.in / www.macfast.in

E-mail:biju@macfast.org / biju_dharmapalan@yahoo.co.uk

Mob: 09447121718

Office: 0469 2730310 Fax: 0469 2730317

Name: Dr. CN Ramchand

- CEO, Saksin lifesciences Pvt. Ltd. Chennai, San Francisco and MagGenome technologies Pvt. Ltd., Cochin, Kerala
- Advisor, Scigenom labs Pvt. Ltd, Cochin, Kerala, Medgenome Inc., Bangalore, Karnataka, Theragen Biologics, Chennai, India, Theragen LifeSciences, Chennai, India
- Director, Thejo Engineering Limited, Accel Transmatic Limited, Accel Limited, Accel Media Ventures Limited



Title of the talk:

- Drug discovery with special reference to NCE and Biologics (10 minutes)
 - Development of Anti VEGF antibodies Fab for Age related Macular dystrophy (20 minutes)
 - Development of magnetic nanoparticles based technologies for biomedical applications (20 minutes)
- How to start a "start-up" (10 minutes)

Drug discovery with special reference to NCE and Biologics

Developing a new drug (NCE) from original idea to the launch of a finished product is a complex process. Typically it takes about 12–15 years and costs in excess of \$1 billion. The process for development of NCE is complex and time taking. However the recent advancements in Biotechnology based products has become a potent source of new drugs. These drugs include Biologics and Biosimilars.

Development of Anti-VEGF antibodies Fab against Age related Macular destrophy

Age-Related Macular Degeneration, often called AMD, is the leading cause of vision loss and blindness among people with age 60 and above. Age-related Macular Degeneration (AMD) affects an estimated 14 million people worldwide. We are developing an Anti-VEGF antibody Fab for treatment of AMD. Our approach for includes selection of high affinity Fabs using Phage display Technique. Phage display technology enables displaying of antibody libraries on phage particles that also encapsulate the encoding DNA.

Development of naked magnetic nanoparticles based strategies for industrial applications

Magnetic nanoparticles have generated considerable research and commercial interest due to their unique properties and wide applicability. The unique properties include susceptibility to external magnetic field and biocompatibility. We have developed a number of technologies specifically with bare magnetic nanoparticles which are technically proficient and industrially viable.

How to start a "startup"

Scientific and technical discoveries can reap rich dividends if they are executed wisely in the commercial space. Current market promotes young entrepreneurs and scientists to start ventures. However it is advisable to follow certain paths to success to attain higher efficiency. Various aspects like team building, seeking right advisers and looking for sources of funding are some crucial aspects herein. Having been associated with several startups; we can explain several critical aspects of "How to build a startup.

Dr. CN Ramchand: Brief CV

Dr CN Ramchand, a British Citizen, is currently 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, Theragen lifesciences/Biologics and Director in Thejo Engineering and Accel Limited, Chennai. He earlier was the Director, at KEMIN Pharma, India (A subsidiary of Kemin Pharma Belgium BVBA) and was holding a simultaneous position as Director of Research and Development, Kemin Industries South Asia Pvt. Ltd., a part of Kemin Industries Inc, Desmoines, USA. Dr.Ramchand also was a WW executive team member at Kemin Industries. Prior to the assignment at Kemin Industries, Dr Ramchand was with Sun Pharmaceuticals, currently the largest Pharma company in India (as per OR G marg) as its Vice President and Head of Drug Discovery Research (Biological Research Programme) (1999-2004). He was closely involved in the setting up of a multimillion Drug Discovery centre including design and development of laboratories. 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 along with Prof. Ajay Kapoor. Dr. Ramchand is currently also involved in development of a extensive PhD programmes for students in collaboration with Swineburne University and IIT Chennai through Scigenom labs, Cochin.

Dr.Ramchand is a PhD in Biochemistry from MS University Baroda. He also served as assistant professor (1982-84) at MS University. He has also obtained his M Phil from the same university. He did his Bachelors degree in Chemistry at S.D College, Alleppey from 1972 -75. He holds a Masters degree in Chemistry from the University of Kerala. He has also won the Young Scientist award from Charing Cross and Westminster Medical School, UK for 3 times, for the work in the role of membrane pathology in schizophrenia and the development of EPA as a therapy for schizophrenia. He has extensive experience in basic research activities, having handled prestigious projects in the US&UK, both Universities and in the Pharma Industry. He has over 25 years of rich experience in the areas of teaching, basic research, Drug discovery programme and disease mechanisms, guiding M Sc. / Ph D. students and setting up Research facility.

Dr.Ramchand has published over 70 peer-reviewed papers in international journals, edited 5 books, has 3 patented products and has applied for over 15 patents. He has done over 100 research presentations at International conferences worldwide and was also a senior Visiting fellow at University of Sheffield and University of New Castle Upon-Tyne, UK, and at Slovakian Academy of Sciences, Slovak Republic. He has a very close research association with State University of New York at Buffalo, USA, Florida International University and also is an adjunct faculty and PhD guide at the MS University of Baroda. Dr Ramchand was the special invitee at the Vibrant Gujarat

organized by Chief Minister Narendra Modi, to give a special lecture on nano biotechnology to over 2000 select CEOs and business leaders(2006) and later on 2008 on role of nutrition in disease prevention. He was an invitee to chair and present a plenary talk at the 11th International conference on magnetic fluid at Slovak Republic. 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 10.

Seminar by Dr CN	Ramchand on	the tone
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A Day with an Entrepreneur



Dr. Muhammed Majeed

Founder and Managing Director Sami Labs Limited, Bangalore

Date: 30th October 2017

Organised By GN Ramachandran Science Club, School of Biosciences, MACFAST



GN Ramachandran Science club, School of Biosciences

Report on "A Day with an Entrepreneur"

Dr. Muhammed Majeed 30 October 2017

The G.N Ramachandran Science club conducted an invited lecture on "A Day with an entrepreneur" on 30th October 2017 at the college auditorium. Dr. Muhammed Majeed, Founder and Managing Director of Sami Labs Limited, was the distinguished speaker of the day. Sami Labs Ltd, is a research oriented multinational health science company, which is a leading producer of nutraceuticals, cosmeceuticals, standardised herbal extracts, fine chemicals, specialty chemicals and probiotics, based in Bengaluru and having many International patents to their credit.

Dr. Muhammed Majeed was born and raised in the state of Kerala. His desire to establish himself not just as a scientist but also as an entrepreneur drove him to venture outside of his home country. So in 1975, after obtaining his degree in pharmacy, he proceeded to USA where he completed his MS in Industrial Pharmacy from Long Island University, New York after which he took his doctorate in the same field from St John's University, New York. Then he gained valuable experience working in Pfizer Inc, Carter-Wallace and Paco Research.

Dr. Muhammed Majeed's talk was attended by approximately 95 students. The talk emphasised the necessity of starting a business and being an entrepreneur. He also guided students to the subject of medicines and fine chemicals research. It was a highly participatory event in which individuals were able to get answers to their questions and concerns.

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Fr. Dr. CHERIAN J KOTTAYIL
PRINCIPAL
PRINCIPAL
Tiruvalla- 689101, Kerala





Resource Person Profile

Dr. Muhammed Majeed

Founder and Managing Director

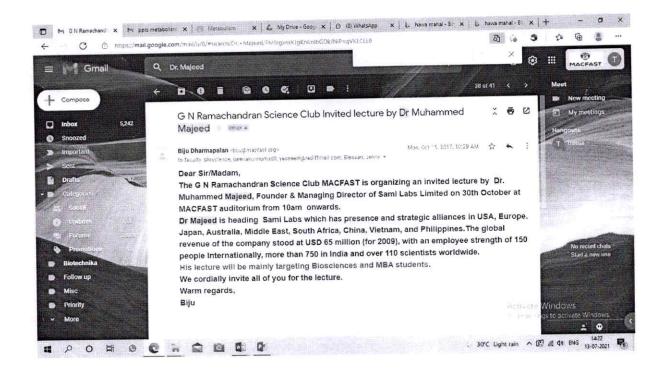
Dr. Muhammed Majeed Founder and Managing Director of Sami Labs Ltd. was born and brought up in Kerala (India) till his undergraduate studies in pharmacy. He earned B.Pharm. in 1975, and proceeded to U.S. for higher studies. He earned M.S. in Industrial Pharmacy from Long Island University, NY, U.S.A. and doctorate from St. John's University, NY, U.S.A. After working for some leading companies in U.S. like Pfizer Inc., Carter-Wallace and Paco Research, he became an entrepreneur in 1988 by establishing Sabinsa Corporation in U.S.A.

Dr. Muhammed Majeed realized the importance of manufacturing Nutraceuticals and Cosmeceuticals and started Sami Labs Ltd. in Bangalore, India in 1991 to fulfill this ambition. While this company was growing up as a global leader, he started Organica Aromatics in Bangalore, India in 1999 for manufacturing Fragrance and Flavors.

Dr. Muhammed Majeed set up world class R&D laboratories in Peenya Industrial Area, Bangalore in 1998 to make innovative products in Nutraceuticals, Cosmeceuticals, Aroma chemicals and Spcialty chemicals.

Synthetic chemistry, Phytochemistry, Cosmetics R&D, Analytical R&D, Bioresearch, Tissue culture, Biotechnology, Food technology, Nanotechnology and Formulation labs support these product development efforts.

Having established our expertise in Extractions, Purification of natural products, Total synthesis of natural products and their analogues, Chiral intermediates, Biotransformations, new Analytical and Bio-analytical method developments, we now float Sami Specialty to cater to the needs of customers all over the world to supply compounds of their interest from our library of compounds.



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School of Biosciences Organizes Training Programme on



Chocolate Making for Prospective Entrepreneurs

Resource Person

Ms. PINCHU ELIZABETH

10th November 2017 - 11th November 2017







MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA (MACFAST)

Thiruvalla - 689101

Workshop on "Chocolate making for prospective entrepreneurs"

School of Biosciences

10th and 11th November 2017

As per the study reports of 2016, more than two hundred thousand tonnes of chocolate have been consumed in a year and highlights the possibility of exploiting this passion for chocolate into a rewarding business opportunity. The market value for chocolate opens up an ideal opportunity for women entrepreneurs and to those who wish to start a low-investment small-scale business. Taking this into account MACFAST has conducted a training program on chocolate making on the 10th and 11th of November 2017 to encourage and guide and inspire aspiring entrepreneurs for getting into the chocolate-making business. MACFAST has conducted a training program on Chocolate making on the 10th and 11th of November 2017. The hands-on training was coordinated by Mrs. Pinchu Elizabeth Thomas, School of Biosciences. Mr. Biju Dharmapalan gave a small introductory talk on the opportunity of using chocolate in business start-ups. Students from the department worked as volunteers during the workshop. A total of 6 participants attended the training program to start chocolate making as a business venture. At the end of the training program, a feedback form was circulated among the participants and we received positive

feedback from all the participants.

thanasios College For Advanced Studies

Tiruvalla- 689101, Kerala

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RESUME

PINCHU ELIZABATH THOMAS

Onattu Thenadil Perumpanachy P. O. Changanacherry- 686536 Kerala, India

Mobile: +91 9446401391

E-mail: pinchuthomas@gmail.com

CAREER OBJECTIVE

To work in an organization that simultaneously enriches my professional knowledge, living and contributes towards achieving the goals of the employer.

AREAS OF INTEREST

Teaching, Research and Product development, Bakery & confectionery, Quality Assurance and Process & Technology

PROFESSIONAL & ACADEMIC QUALIFICATIONS

- Diploma in Sugar Paste, ICCA (International Center for Culinary Arts), Dubai, UAE, City & Guilds Accredited Certified Programme, 2018
- Qualified National Eligibility Test (ICAR-NET) in Food Technology for lectureship, 2016
- Master of Science in Food Science & Technology, 2005-2007, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, First Rank
- Bachelor of Science in Food Science & Quality Control, 2002-2005, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, Second Rank

PROFESSIONAL SKILLS

- Laboratory: Physico- chemical, nutritional, microbial and sensory analysis of food
- Engineering skills: experience in handling food processing equipment
- Quality Assurance: Food safety, GMPs, SSOPs and HACCP prerequisites, auditing, documentation and ISO standards in food industries
- Computer: MS Word, MS Excel, MS Power Point
- Baking technology- new product development, baking, designing and decorating cakes, experienced in handling fondant and sugar paste.
- Chocolate making- experienced in manufacturing various homemade chocolates, tempering techniques, filling, enrobing and designing

PROFESSIONAL EXPERIENCE

Assistant Professor

Associated with the School of Biosciences, MACFAST (Mar Athanasios College for Advanced Studies Tiruvalla), Mahatma Gandhi University, Kottayam, Kerala, India, January 2008- Till

Duties and Responsibilities:

- Curriculum in-charge of Food Science & Technology Post Graduate Programme, till
- Faculty in-charge of Post Graduate Diploma in Food Technology, till 2015
- Additional, Chief and external examiner for various Food Science Courses under Mahatma Gandhi University, Kottayam, Calicut University and IGNOU, Delhi
- Visiting Faculty, Department of Food Science & Quality Control (Undergraduate Programme), BCM College, Kottayam, Mahatma Gandhi University, Kerala, India
- Guiding external student projects and small-scale entrepreneurs
- Member of the syllabus proposal and revision committee, Mahatma Gandhi University,
- Member of the Inspection commission, Mahatma Gandhi University, Kottayam, Kerala,
- Question paper setter for various university exams

Facilitator, Training programme in chocolate making and cake decoration for prospective

Chocolatier

- Experienced in chocolate making, tempering, enrobing, molding and framing techniques
- Modern chocolate decorations using texture sheets, transfer sheets and pralines
- Experienced in manufacture of various chocolate products like truffles, rochers, barks, toffees, French bonbons, truffle shells, chocolate salami, lollipops and chocolate dessert
- Experience of decorating confectionery products and baked foods with chocolate
- Use of food colours in designing chocolates
- Storage and packaging of products
- Quality evaluation of chocolates

Cake Baker, Designer & Decorator

- Bake cakes in accordance with customer's specifications
- Decorate cakes using different types of icings and mixing of colors
- Designing novelty cakes based on customer's requirements
- Experienced in fondant and sugar paste techniques
- Assembling special occasion cakes
- Experienced in covering, crimping, and embossing
- Skilled in doing fabric effects, textured drapes, frills, ribbons, roses, bows and sugar
- Modeling Fun Figures, textures, inlay & applique & overlay

- Design and handling, presentation of multi-tiered cake (dowelling & stacking)
- Designing Celebration Cakes & Color Balance

TRAINING EXPOSURE

- Training programme on "Role of HPLC in Food Analysis", CFTRI, Mysore, 26th -27th
- Training programme on Phytochemical techniques, FRI, Dehradun, April 2019
- Training programme in Safety of Food in Metal and Plastic Packaging, CFTRI (Central Food Technological Research Institute), Mysore, October 2018
- 10 days training experience in Food Technology R&D Division, Sami Labs Limited,
- Training Programme in "Chocolate for Entrepreneurs", De' Pastry School, Cochin, 2016
- Training Programme in "Cake designing", De' Pastry School, Cochin 2016
- Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 4 (ISO 22000), training curriculum developed by FAO, Food Safety Solutions International, Cochin, Kerala, November 2014
- Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 2 (training curriculum developed by FAO & CAC & RIPH UK, complies with the requirements of US FDA, EU COMMISSION and various other National and International Regulations) Food Safety Solutions International, Cochin, Kerala, May
- Codex General Principles of Food Hygiene and Application of HACCP Based Food Safety System (FAO & CAC, complies with the requirements of US FDA, EU COMMISSION), Food Safety Solutions International, Cochin, Kerala, January 2005.
- Entrepreneurship Development Program on "Food Science & Technology" conducted by Field Testing Station, Changanacherry (Small Industries Development Organization, Ministry of SSI, Govt. India), Jan to Feb2005
- Seafood Processing and Quality Control, The Integrated Fisheries Project, (Dept. of Animal Husbandry & Dairying, Govt. of India), Cochin, Oct to Nov 2003
- Milk and Milk Products Training, Dairy Training Centre, Kottayam (Kerala State Dairy Development Department), Dec 2002
- Processing of Pickles, Jams & Squashes, The Malabar Cost Products, Kerala, May-June
- Training in the processing of Bakery and Confectionary Products Breads, Hot Breads, Kunjoos Fine Products, Kerala, February 2003

RESEARCH EXPERIENCE

- Worked as Senior Research Fellow, in the project "Integrated Technology for the Development of Reinforced Bioplastics with Celluloses of Plant Origin" funded by Department of Biotechnology (DBT), Govt. of India, and has successfully developed value added products such as degradable, non-toxic packing material there by reducing
- "Value added Products from Cassava," Mar Athanasios College for Advanced Studies

- "Studies on Naturally Fortified Pasta Products," Defence Food Research Laboratory,
- "A Study to Increase the Shelf-life of Raw Jack Fruit by Drying," Mar Athanasios College for Advanced Studies Tiruvalla, Kerala, 2007

PROJECT COMPLETED

• "Database on Food Toxins," Kerala State Council for Science, Technology & Environment (KSCSTE), Thiruvananthapuram, Kerala, 2014.

PROJECT ONGOING

• Co-PI of the project "Human Milk based Human Milk Fortifier for Preterm Infants" Department of Biotechnology, Delhi, 2021

PROFESSIONAL AND PERSONAL ACHIEVEMENTS

- Awarded First Rank by the M.G. University Kottayam for M.Sc., 2007
- Awarded Second Rank by the M.G. University Kottayam for B.Sc., 2005
- Award for best poster presentation in the International Symposium on "Advances in Food
- Organizing Committee Member, Treasurer of International Symposium on "Second Green Revolution: Priorities, Programmes, Social and Ethical Issues," Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009
- Recipient of the President of India Guide Award, 2000

PROFESSIONAL MEMBERSHIP

- Member, Association of Food Scientists & Technologists, India (AFSTI)
- Kerala Food Technologists Association (KEFTA)

PUBLICATIONS/ SCIENTIFIC PRESENTATIONS

- Value Added Products from Jackfruit (Artocarpus heterophyllus) Fruit, Pinchu Elizabath Thomas and Biju Dharmapalan, Acta Scientific Nutritional Health, ISSN:2582-1423, 4.2 (2020): 105-110.
- Value added food products from Flacourtia jangomas (Lour.) Raeusch, Pinchu Elizabath Thomas and Biju Dharmapalan, Indian Food Industry Mag, Vol 38 No 1, Jan-Feb 2019
- Physico-chemical and sensory properties of biscuits fortified with carrot powder, Pinchu Elizabath Thomas, Litty Mary Abraham and Biju Dharmapalan, International Journal of Food and fermentation Technology. 8(2): 01-05, December 2018, ISSN No.2249-1570
- "Clovora- A New Herbal Mouth Wash for Oral Hygiene", Amal P. K., Abu Anna Joy, Athira Thomas, Jessiya Jacob, Biju Bharmapalan and Pinchu Elizabath Thomas, Journal of Science, Technology and Management, December 2018
- "Isolation of Oleoresin from Capsicum frutescens and its Value Addition," Pinchu Elizabath Thomas, and Betsy M. Baby, International Symposium on Advances in
- "Functional Properties of Cellulose-Reinforced Bioplastics and their Potential Usage as Food Packaging Material" Pinchu Elizabath Thomas, Rathish Rajan, Subin Damodaran and C. Balagopalan, Journal of Science, Technology and Management, January 2014

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"Utilization of Cotton Textile Waste as Reinforcement in Low Density Polyethylene Based Bioplastics" Rathish Rajan, Pinchu Elizabath Thomas, Balagopalan C, APM-2011: International Conference on "Advancements in Polymeric Materials," CIPET,

"Strategic Solutions for Food Security" Pinchu Elizabath Thomas, Treesa Varghese and Betsy M. Baby, International Symposium on Second Green Revolution: Priorities, Programmes, Social and Ethical Issues, Rajiv Gandhi Centre for Biotechnology,

"Biofortification: A Valuable Ingredient in High Quality Cereals Production" Treesa Varghese, Pinchu Elizabath Thomas, and Betsy M. Baby, International Symposium on Second Green Revolution: Priorities, Programmes, Social and Ethical Issues, Rajiv

Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009

• "Computational Analysis of Putative Calmodulin Binding Protein SUN" Betsy M. Baby, Treesa Varghese and Pinchu Elizabath Thomas, International Symposium on Second Green Revolution: Priorities, Programmes, Social and Ethical Issues, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009

"A Study to Increase the Shelf-life of Raw Jack Fruit by Drying" Pinchu Elizabath Thomas, Indubala, Maya Raman, National Seminar on Advances in Food Biotechnology, Biospectrum 2007, Mar Athanasios College for Advanced Studies Thiruvalla, India

PERSONAL PROFILE

Date of Birth

16th January 1985

Nationality

Indian

Gender

Female

DECLARATION

I hereby declare that the particulars furnished above are true and correct to the best of my knowledge and belief.

PINCHU ELIZABATH THOMAS

chocolate making Training Bogomme in 10 \$ uf November 2017. Andend porticipations signerles name of ductout course FTQA Manija. Manija Madhu Mary Jase Prao fourar Beene Cherlan Dean, School of Brosulenia



MACFAST

SCHOOL OF BIOSCIENCES

Training program in



for prospective entrepreneurs

07, 08 DECEMBER 2017

PROGRAMME COORDINATOR
Pinchu Elizabath Thomas, Phone: 9446401391

FOR REGISTRATION DETAILS CONTACT
Biju Dharmapalan , Phone: 9447121716



School of Biosciences, MACFAST Tiruvalla

Report on the workshop

"Cake making for prospective entrepreneurs"

09th of December, 2017

While you may be wondering how to start a cake business from home, there are many other home bakers who have already converted their passion into a successful business and have started selling cakes from home. This industry is rapidly growing and there's heavy competition. According to another research study, the Indian cake market is projected to grow at a steady rate. From the past few years, there's a high demand for customized and artisanal cakes as well. Factors like product innovations in terms of new flavours rise in disposable income and changing consumer tastes and preferences are the key drivers of the segment. This is where home bakers have a role to play and a business space to explore.

MACFAST has catered to these demands by arranging a training programme on Cake making in this regard. A 2 Day training program on cake making, for prospective entrepreneurs was conducted on 07th and 08th of December, 2017. The coordinator and the main resource person of the program was Mrs. Pinchu Elizabeth Thomas. The registration was handed by Mr. Biju Dharmapalan, School of Biosciences. A total of 8 participants attended the training programme to start cake making as a business.

Fr. Dr. CHERIAN J KOTTAYIL

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RESUME

PINCHU ELIZABATH THOMAS

Onattu Thenadil Perumpanachy P. O. Changanacherry- 686536 Kerala, India

Mobile: +91 9446401391

E-mail: pinchuthomas@gmail.com

CAREER OBJECTIVE

To work in an organization that simultaneously enriches my professional knowledge, living and contributes towards achieving the goals of the employer.

AREAS OF INTEREST

Teaching, Research and Product development, Bakery & confectionery, Quality Assurance and Process & Technology

PROFESSIONAL & ACADEMIC QUALIFICATIONS

- Diploma in Sugar Paste, ICCA (International Center for Culinary Arts), Dubai, UAE, City & Guilds Accredited Certified Programme, 2018
- Qualified National Eligibility Test (ICAR-NET) in Food Technology for lectureship, 2016
- Master of Science in Food Science & Technology, 2005-2007, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, First Rank
- Bachelor of Science in Food Science & Quality Control, 2002-2005, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, Second Rank

PROFESSIONAL SKILLS

- Laboratory: Physico- chemical, nutritional, microbial and sensory analysis of food
- Engineering skills: experience in handling food processing equipment
- Quality Assurance: Food safety, GMPs, SSOPs and HACCP prerequisites, auditing, documentation and ISO standards in food industries
- Computer: MS Word, MS Excel, MS Power Point
- Baking technology- new product development, baking, designing and decorating cakes, experienced in handling fondant and sugar paste.
- Chocolate making- experienced in manufacturing various homemade chocolates, tempering techniques, filling, enrobing and designing

PROFESSIONAL EXPERIENCE

Assistant Professor

Associated with the School of Biosciences, MACFAST (Mar Athanasios College for Advanced Studies Tiruvalla), Mahatma Gandhi University, Kottayam, Kerala, India, January 2008- Till date.

Duties and Responsibilities:

- Curriculum in-charge of Food Science & Technology Post Graduate Programme, till
- Faculty in-charge of Post Graduate Diploma in Food Technology, till 2015
- Additional, Chief and external examiner for various Food Science Courses under Mahatma Gandhi University, Kottayam, Calicut University and IGNOU, Delhi
- Visiting Faculty, Department of Food Science & Quality Control (Undergraduate Programme), BCM College, Kottayam, Mahatma Gandhi University, Kerala, India
- Guiding external student projects and small-scale entrepreneurs
- Member of the syllabus proposal and revision committee, Mahatma Gandhi University, Kottayam, Kerala
- Member of the Inspection commission, Mahatma Gandhi University, Kottayam, Kerala,
- Question paper setter for various university exams

Facilitator, Training programme in chocolate making and cake decoration for prospective

Chocolatier

- Experienced in chocolate making, tempering, enrobing, molding and framing techniques
- Modern chocolate decorations using texture sheets, transfer sheets and pralines
- · Experienced in manufacture of various chocolate products like truffles, rochers, barks, toffees, French bonbons, truffle shells, chocolate salami, lollipops and chocolate dessert
- Experience of decorating confectionery products and baked foods with chocolate
- Use of food colours in designing chocolates
- Storage and packaging of products
- Quality evaluation of chocolates

Cake Baker, Designer & Decorator

- Bake cakes in accordance with customer's specifications
- Decorate cakes using different types of icings and mixing of colors
- Designing novelty cakes based on customer's requirements
- Experienced in fondant and sugar paste techniques Assembling special occasion cakes
- Experienced in covering, crimping, and embossing
- Skilled in doing fabric effects, textured drapes, frills, ribbons, roses, bows and sugar
- Modeling Fun Figures, textures, inlay & applique & overlay

- Design and handling, presentation of multi-tiered cake (dowelling & stacking)
- Designing Celebration Cakes & Color Balance

TRAINING EXPOSURE

- Training programme on "Role of HPLC in Food Analysis", CFTRI, Mysore, 26th -27th
- Training programme on Phytochemical techniques, FRI, Dehradun, April 2019
- Training programme in Safety of Food in Metal and Plastic Packaging, CFTRI (Central Food Technological Research Institute), Mysore, October 2018
- 10 days training experience in Food Technology R&D Division, Sami Labs Limited,
- Training Programme in "Chocolate for Entrepreneurs", De' Pastry School, Cochin, 2016
- Training Programme in "Cake designing", De' Pastry School, Cochin 2016
- Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 4 (ISO 22000), training curriculum developed by FAO, Food Safety Solutions International, Cochin, Kerala, November 2014
- Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 2 (training curriculum developed by FAO & CAC & RIPH UK, complies with the requirements of US FDA, EU COMMISSION and various other National and International Regulations) Food Safety Solutions International, Cochin, Kerala, May
- Codex General Principles of Food Hygiene and Application of HACCP Based Food Safety System (FAO & CAC, complies with the requirements of US FDA, EU COMMISSION), Food Safety Solutions International, Cochin, Kerala, January 2005.
- Entrepreneurship Development Program on "Food Science & Technology" conducted by Field Testing Station, Changanacherry (Small Industries Development Organization, Ministry of SSI, Govt. India), Jan to Feb2005
- Seafood Processing and Quality Control, The Integrated Fisheries Project, (Dept. of Animal Husbandry & Dairying, Govt. of India), Cochin, Oct to Nov 2003
- Milk and Milk Products Training, Dairy Training Centre, Kottayam (Kerala State Dairy Development Department), Dec 2002
- Processing of Pickles, Jams & Squashes, The Malabar Cost Products, Kerala, May-June
- Training in the processing of Bakery and Confectionary Products Breads, Hot Breads, Kunjoos Fine Products, Kerala, February 2003

RESEARCH EXPERIENCE

- Worked as Senior Research Fellow, in the project "Integrated Technology for the Development of Reinforced Bioplastics with Celluloses of Plant Origin" funded by Department of Biotechnology (DBT), Govt. of India, and has successfully developed value added products such as degradable, non-toxic packing material there by reducing
- "Value added Products from Cassava," Mar Athanasios College for Advanced Studies

- "Studies on Naturally Fortified Pasta Products," Defence Food Research Laboratory,
- "A Study to Increase the Shelf-life of Raw Jack Fruit by Drying," Mar Athanasios

PROJECT COMPLETED

• "Database on Food Toxins," Kerala State Council for Science, Technology & Environment (KSCSTE), Thiruvananthapuram, Kerala, 2014.

PROJECT ONGOING

Co-PI of the project "Human Milk based Human Milk Fortifier for Preterm Infants" Department of Biotechnology, Delhi, 2021

PROFESSIONAL AND PERSONAL ACHIEVEMENTS

- Awarded First Rank by the M.G. University Kottayam for M.Sc., 2007
- Awarded Second Rank by the M.G. University Kottayam for B.Sc., 2005
- Award for best poster presentation in the International Symposium on "Advances in Food
- Organizing Committee Member, Treasurer of International Symposium on "Second Green Revolution: Priorities, Programmes, Social and Ethical Issues," Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009 Recipient of the President of India Guide Award, 2000

PROFESSIONAL MEMBERSHIP

- Member, Association of Food Scientists & Technologists, India (AFSTI) Kerala Food Technologists Association (KEFTA)

PUBLICATIONS/ SCIENTIFIC PRESENTATIONS

- Value Added Products from Jackfruit (Artocarpus heterophyllus) Fruit, Pinchu Elizabath Thomas and Biju Dharmapalan, Acta Scientific Nutritional Health, ISSN:2582-1423, 4.2 (2020): 105-110.
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- "Functional Properties of Cellulose-Reinforced Bioplastics and their Potential Usage as Food Packaging Material" Pinchu Elizabath Thomas, Rathish Rajan, Subin Damodaran and C. Balagopalan, Journal of Science, Technology and Management, January 2014

"Rapport between Bioinformatics and Food Technology" Betsy M. Baby, Pinchu Elizabath Thomas, International Symposium on Computational Biology and Drug Design, MACFAST, Thiruvalla, India, 2013

"Utilization of Cotton Textile Waste as Reinforcement in Low Density Polyethylene Based Bioplastics" Rathish Rajan, Pinchu Elizabath Thomas, Balagopalan C, APM-2011: International Conference on "Advancements in Polymeric Materials," CIPET,

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PERSONAL PROFILE

Date of Birth

16th January 1985

Nationality

Indian

Gender

Female

DECLARATION

I hereby declare that the particulars furnished above are true and correct to the best of my knowledge and belief.

PINCHU ELIZABATH THOMAS

Training Programme in Cake Making 748 December 2017

Name of Student Course signature

Ammu Bejve FIQA

Renu John

Mathai Mathew

Been Cherken Dean, 8 chool of Bioscience





Power of 7i for Successful Start-ups



Resource Person

Mr. Neelakantan Padmanabhan (GM(India)& Head) Global & Operations LUCEP, Bangalore

DATE: 13th December 2017



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA (MACFAST)

Thiruvalla - 689101

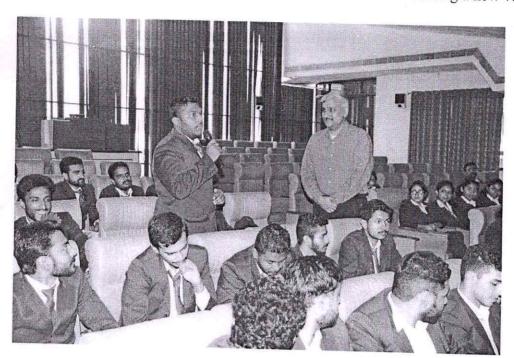
Report on

'The Power of 7i for Successful Start-ups'

Mr. Neelakantan Padmanabhan (GM (India) & Head), Global & Operations at LUCEP, Bangalore, India on 13th December 2017

A session by Mr. Neelakantan Padmanabhan, (GM (India) & Head), Global & Operations at LUCEP, Bangalore were organized for students on 13th December 2017. The title of the session was 'The Power of 7i for Successful Start-ups'. The Session was of 1 hour duration. A total of 98 participants attended the session.

The session was highly interactive and Mr. Neelakantan has answered the queries raised by participants. He has given the basic guidelines to be considered while starting a new venture.



Interacting with the students

Ling spring.

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

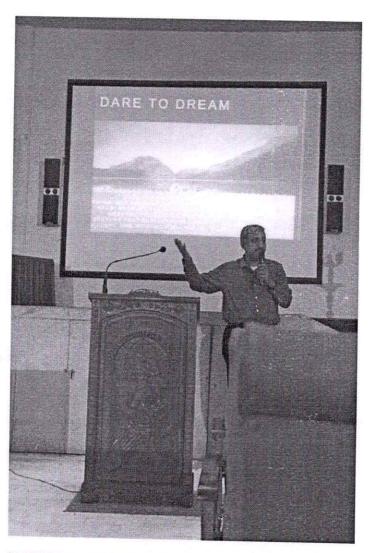




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(MACFAST)

Thiruvalla - 689101





Glimpses of the session and interaction with students

Contact

4 1

www.linkedin.com/in/ neelpadmanabhan (LinkedIn) lookingovertheshoulder.wordpress.cc author/lookingovertheshoulder/ (Blog) lucep.com (Company)

Top Skills

SAP

Software Development Management

nguages

German (Elementary) Hindi (Native or Bilingual) English (Full Professional)

Honors-Awards

SAP Ganges - Short Listed under Optimizing Category for 2015 Awards

Innovation Excellence - SAP Ganges
Best Innovation Product or Service

Neelakantan Padmanabhan

Director and Global Client Partner at Lucep Bangalore Urban

Summary

Neelakantan (Neel) Padmanabhan has 25+ years of experience across business development, consulting, product development and support where he has managed multiple products and large teams, creating new product and business lines.

At Lucep, Neel is Director India & Head of Global Operations. He is handling Enterprise Accounts across all lines of business as a Global Client Partner. Apart from this, he is also responsible for Operations, Support and Business Development

At EVA, Neel was involved in mentoring start-ups, establish & commercialise new business offerings and supporting business operations.

Neel was with SAP Labs for 15+ years in different businesses across Business Suite & Business by Design in leadership roles in Development, Product Support, Localization Development, Quality Management and New Product Development.

In the last 4 years at SAP, he was the driving force behind an initiative on Business Networks in the Retail Space, SAP Ganges, which aimed to create a network of retail stores, especially in the unorganized sector and focused on emerging economies. From initial user research to productisation, he was managing the project which involved a diverse set of teams and stakeholders spanning across many countries and areas of expertise.

Prior to working in SAP Labs, Neel was with IVL India working on SAP Implementations and before that worked as equipment commissioning engineer with Mazgon Docks in their off-shore division.

Neel did his graduation in Mechanical Engineering and holds an MBA in Finance.



Interests

- Avid Networker
- Ideate, Incubate & Commercialise
- Design thinking (outside-in approach)
- Manage Diverse Network of Stakeholders
- People & Project Management
- Quality Processes and Agile Methodology
- Business Strategy

Experience

Lucep

Director & Global Client Partner - Enterprise Business November 2015 - Present (5 years 9 months)

India

To own the relationship with customer and ensure successful growth of the business in the account across the product lines as measured by customer satisfaction and net new business.

To nurture and grow business opportunities in new verticals To manage the India operations

ESCAPE VELOCITY ACCELERATOR

Vice President

March 2015 - February 2017 (2 years)

Bengaluru Area, India

EVA is an accelerator helping companies in the life science and healthcare domains resolve operational, strategic and organizational challenges by providing technical, infrastructure, outreach and mentorship support.

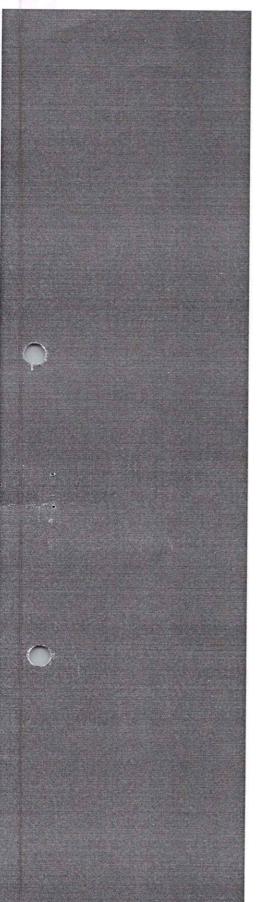
EVA nurtures on the passion and drive to spur innovation and entrepreneurship by hand-holding young and ambitious companies that cater to the broad area of Health-Care.

SAP Labs India 15 years 5 months

Director & Product Owner SAP GANGES
October 1999 - February 2015 (15 years 5 months)

Responsible for Customer, Technology and Operations for SAP Ganges.

Page 2 of 4



This team works like a start up with end to end responsibilities handled within the team. The responsibilities include identifying and acquiring new customers, maintaining relationship with all existing partners and stakeholders, oversight for all operational tasks and support the engineering / architecture team. The activities stretched from identifying user personas to gathering user pain points to delivering the final products and also involved setting up a new ecosystems from existing industry players.

Lead - Innovation Project May 2010 - June 2011 (1 year 2 months)

To identify new business opportunities in emerging economies, especially at bottom of pyramid.

Set up the process, build the team, identify opportunity, create the PoC Applications , establish value proposition for the players in the eco system

Quality Manager - Test Center July 2009 - April 2010 (10 months)

Delivery: Responsibility for Testing new features and regression runs for SAP Business Suite in OPS area

People Management: Mentoring / Coaching colleagues and direct reports Member of Global Project in Quality Engineering on Solution Manager Adoption

Head Development Support - India - Business By Design October 2006 - April 2009 (2 years 7 months)

Set up the team and organisation in close cooperation with colleagues from Germany

Set up the process in the team for Growth, Talent Development and Knowledge Transfer.

Developed business / technical processes for support delivery Contributed to / Lead strategic global projects

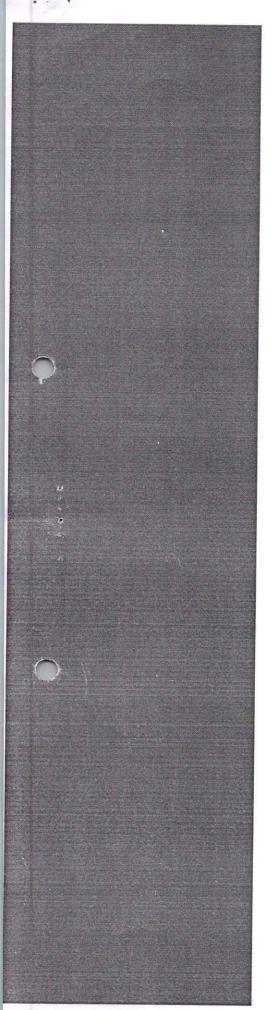
Development Manager , IMS July 2003 - September 2006 (3 years 3 months)

Setting up the product support teams across multiple areas [Manufacturing, PLM, Financials, Industry Solutions] .

Managing the growth of the team and development of people Setting up the knowledge transfer process .

Work on strategic projects in customer support

Project Manager Quality



April 2001 - June 2003 (2 years 3 months)

Responsible for Quality Management in the team.

Plan and Execute product Acceptance Test with Customer and Consultants Plan for process compliance and ensure that Standards are met in development

Work with the Software Logistics team to ensure that Support Packages, Retrofits and Releases are consistent

Technical Leader [Financials]
October 1999 - March 2001 (1 year 6 months)

Lead for Withholding Taxes Development for India

Responsible for roll in of requirements , development and customer support for the India specific functions in SAP Country Version for India [CIN] .

IVL India Pvt Ltd Sr SAP Consultant February 1997 - October 1999 (2 years 9 months) Trivandrum, India

Mazagon Dock Engineer, Offshore Services-Operations August 1993 - February 1995 (1 year 7 months)

Education

INSEAD

RMDP, Management · (2007 - 2007)

Institute of Management, University of Kerla MBA, General Management / Finance · (1995 - 1997)

College of Engineering, Trivandrum

B.Tech, Mechanical Engineering (1988 - 1992)

'The Power of 7i for Successful Start-ups' by Mr. Neelakantan Padmanabhan (GM (India) & Head), Global & Operations at LUCEP, Bangalore, India on 13th December 2017 Participants List

SL.NO	or the student	SL.NO:	Name of the student
1	Abhishek Purushothaman		The student
2	Ajo Varghese Rajan	36	Sreejesh S
3	Akash Mathew	37	Steffi Philip
4	Akhila O V	38	Sudheesh S Nair
5	Akhilmon V Thomas	39	Swathy Sathyavan
6	Albin Baby	40	Veena Mol V
7	Alma Mariam Abraham	41	Vivek Vijayan
8	Ameer Ismail	42	Abiya Babu
9	Amitha Rajesh R	43	Akshaya E S
10	Ancy Monachan	44	Aleena Jacob
11	Anita Ann Alex	45	Anjali B Joseph
12	Anuja Elizabeth Joseph	46	Anju Vijay
13	Ashik S Antony	47	Anu Abraham
14	Athira R	48	Anu Joseph
15	Brian Binu Thomas	49	Arya M M
16	Cyriac Stephen George	50	Ashma C Das
17	Divya Ann Varghese	51	Aswani S Kumar
18	Heera Maria Vilson	52	Athira Babu
19	Jayasree J	53	Athira V M
20	Jiby Varghese	54	Bijina Beegam
21	Jikku Varughese Koruth	55	C S Chitra
22	Job Justin	56	Chinnu Maria Thankachan
23	Jojo John Varughese	57	Gibin Babu
24	Joshni Mary Thomas	58	Haripriya J
25	Megha A P Panicker	59	Jibi Joseph
26	Nidhi Elizabeth Philip	60	Jilbi Susan James
27	Nimmy Francis	61	Ligitha Anu Ninan
28	Praveen P Nair	62	Merin Anna Math
29	Riya Eliz Biju	63	Merin Anna Mathew Merin Chacko
30	Rony K J	64	
31	Sanju Mariam Thomas	65	Preethy Mariam Kacheriparambil Sandra Biju
32	Senu C Mathew	66	Shanu Eappen
33	Shijin Babu		Shahu Eappen
34	Sijin Saji		
35	Simi Chacko		

67	Shany Thomas	93	Jackson
68	Smrithi Viswanath	94	Midhun
69	Sneha Catherine James	95	Vyshakh
70	Sneha Sara Thomas	96	Rahul
71	Sruthi Raj	97	Goldy S Perumal
72	Swathy Harikuttan	98	Jaison
73	Teenamol Antony	I - III	
74	Vandana V		
75	Veena Vinayan		
76	Vijitha M Nair		
77	Achu C Thampi		
78	Akhilesh Kumar C A		
79	Ananthu A Kochumon		
80	Ananthu Santhan		
81	Bibin John Babu		
82	Christopher George		
83	Harikrishnan V M		
84	Jerin George		
85	Jikku George John		
86	Jikku Mathew Thomas		
87	Midhun S Abraham		
88	Robin George Kurian		
89	Rohan Alex Mathew		
90	Sebin Sebastian		,
91	Tom Abraham	2	
92	Vishakh T Devan		



School of Biosciences, MACFAST Organizes a Workshop on

Research Methodology



Resource Person

Dr. Michael Sauer

Department of Biotechnology, BOKU University of Natural Resources and Applied Life Sciences, Vienna.

DATE: 8th January 2018



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA (MACFAST)

Thiruvalla - 689101

School of Biosciences

Report on workshop on Research Methodology by Dr. Michael Sauer

The Research Methodology workshop was organized by the School of Biosciences on the 8th of January 2018, at the MACFAST auditorium. The program was mainly aimed at bioscience students. The program was coordinated by Dr. Jenny Jacob, School of Biosciences. 90 students and participants from various departments were part of this workshop. The Workshop was handled by Dr. Michael Sauer Assoc. Prof., Department of Biotechnology, BOKU University of Natural Resources and Applied Life Sciences, Vienna. He started the session by giving an introduction to research, different types of research, experimental design, the need for finding an unanswered problem to start research, and the importance of literature review. Various online catalogs and search engines used for research purposes, various statistical approaches, reference formats, and software were also included in his talk. He also emphasized the purpose of the research proposal, the required features, and also highlighted the contents that should be included while writing a research proposal. As a part of the workshop training, the students were grouped and were asked to write a model proposal. Dr. Michael Sauer also evaluated a few randomly selected proposals and gave suggestions to improve the same. The talk was very informative and gave the student a general idea of how to select a research topic for their MSc dissertation and also became aware of the path that they should follow while performing research.

Fr. Dr. CHERIAN J KOTTAYIL

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For Advanced Studies

Tiruvalla-689101, Kerala

JENNY JACOB

College for Adv

University of Natural Resources and Life Sciences, Vienna (BOKU) - Research portal

Assoc. Prof. Priv.-Doz. Dipl.Natw. ETH FH-Prof. Dr. Michael Sauer

Institute of Microbiology and Microbial Biotechnology

Muthgasse 18, 1190 Wien michael.sauer(at)boku.ac.at Tel: +43 1 47654-79105

BOKUonline-Visitenkarte

ORCID: 0000-0003-0510-2447

Curr. Vitae

2021 -	Associate Professor (Industrial Microbiology)
2014 -	Co-founder Syconium Lactic Acid GmbH
14 -	Head of the Christian Doppler-Laboratory for Biotechnology of Glycerol
2012 -	Venia Docendi for Industrial Microbiology
2010 -	Senior Scientist, Department of Biotechnology, BOKU
2008	Prof (FH)
2004 - 2010	FH Campus Wien, School of Bioengineering
2003 - 2004	PostDoc, BOKU, IAM
2001 - 2003	Patentsachbearbeiter, Frankfurt am Main
1999 - 2001	PostDoc, University of Milano-Bicocca, Dip. of Biotechnology and Biosciences
1996 - 1998	PhD, Biochemistry, University of Vienna, Institute of Molecluar Biology
1990 - 1995	Studies Biotechnology, ETH Zürich

Statistik Austria, science classification

biochemistry; biotechnology; biotechnology; microbiology; genetic engineering; ethics;

pertise

Biotechnology; Molecular Biology; Bioethics; White Biotechnology; Industrial Microbiology;

Appointments/Memberships in Professional Societies

Appointments/Memberships in Professional Societies		
2019 -	Open Science/Vienna Open Lab member of the managing board	
2016 -	IBA-IFIBiop - International Association of Bioprocessing member	
2016 -	Austrian Association of Molecular Life Sciences and Biotechnology member of the managing board	
2015 -	FEMS Federation of European Microbiological Societies delegate	
2009 -2019	Section of Microbial Physiology European Federation of Biotechnology secretary	
2009 -	Austrian Association of Molecular Life Sciences and Biotechnology member	
2008 -	Society of Industrial Microbiology (SIM) member	

•			500	coiontific	iournals
Editorial	board	appointments	101	Scientific	journals

2018 - Bioengineered: Editorial Board Member

2017 - Bioresource Technology: Editorial Board Member

2016 - Journal of Microbiology and Biotechnology:

Editorial Board Member

2016 -2018 Frontiers in Microbiology: Microbial Physiology and Metabolism

1st level below top level (Associate Editor)

2014 - Microbial Cell Factories:

1st level below top level (Associate Editor)

2011 - FEMS Microbiology Letters: Section Editor (Synthetic Biology and Biotechnology)

Editorial Board Member

Reviewer for scientific journals

2019 - Nucleic Acids Research

2015 - Scientific Reports

2014 - Molecular Biotechnology

3 - Biotechnology For Biofuels

2012 - Biotechnology Advances

2011 - Journal of Industrial Microbiology & Biotechnology

2011 - Bioresource Technology

2011 - Applied Microbiology and Biotechnology

2010 - Journal of Cleaner Production

2010 - Metabolic Engineering

2010 - Biotechnology and Bioengineering

2010 - Microbiology 2009 - MYCOL RES

2009 - Journal of Basic Microbiology

2009 - Trends in Biotechnology

2009 - Journal of Biotechnology

209 - Process Biochemistry

2008 - Bioprocess and Biosystems Engineering

2007 - Fems Yeast Research

2007 - Biotechnology Progress

2006 - Microbial Cell Factories

2003 - FEMS Microbiology Letters

Reviewer/Expert funding organizations

2019 -2019 Europäische Kommission - European Union 2018 -2018 Bundesministerium für Bildung und Forschung, Deutschland - Germany

2018 -2018 Europäische Kommission - European Union

2018 -2018 National Science Centre, Poland - Poland

2017 -2018 Innovation and Technology Fund - Hong Kong - China

2016 -2016 National Research Foundation of Korea (NRF) - Republic of Korea

2015 -2015 Estonian Research Council - Estonia

2015 -2015 US-Israel Binational Science Foundation - United States (USA)

2013 -2016 Suomen Akatemia, Academy of Finland - Finland 2010 -2012 ÖAD - Österreischischer Austauschdienst - Austria

Organizer of scientific conferences, Chairs

2020 International Conference on Yeasts (IYC15)
Member of the Organisation Committee

2019 FEMS Congress

Member of the Organisation Committee

2018 10th ÖGMBT Annual Meeting

Organiser

2018 14th International Conference on Renewable Resources and Biorefineries

Scientific Member of the Advisory Board

2018 4th Congress on Applied Synthetic Biology in Europe

Member of the Organisation Committee

2017 13th International Conference on Renewable Resources and Biorefineries

Scientific Member of the Advisory Board

2015 Microbial Stress - From Molecules to Systems III

Organiser

6th International Conference On Analysis Of Microbial Cells at the Single Cell Level

Member of the Organisation Committee

2012 Microbial Stress - From Molecules to Systems

Organiser

2011 6th Recombinant Protein Production Meeting, A Comparative View on Host Physiology

Member of the Organisation Committee

2009 Microbial Stress - From Molecules to Systems

Organiser

2006 4th Recombinant Protein Production Meeting, A Comparative View on Host Physiology

Member of the Organisation Committee

University of Natural Resources and Life Sciences, Vienna (BOKU) - Research portal

Sauer Michael

Publications

Year and Type of Publication First Author (alphabetical order) Request for reprints

Scientific publications from BOKU scientists, especially those which are published in SCI / SSCI journals, or in other refereed journals, proceedings, monographs as well as articles in collected volumes are listed under PUBLICATIONS.

Publications with special focus on transfer of knowledge ("social impact") to practitioners as well as the interested public can be found under the menu item:

- >> Transfer of Knowledge
- Publications listed in SCI/SSCI Journals (published in Web of Science)
 eer-reviewed publication (not listed in SCI/SSCI)
 Only: Full paper/article, Review, Proceedings Paper
- = Open Access Publications

2021

Journal Articles

** Ellena, V; Bucchieri, D; Arcalis, E; Sauer, M; Steiger, MG Sclerotia formed by citric acid producing strains of Aspergillus niger: Induction and morphological analysis.

FUNGAL BIOL-UK. 2021; 125(6): 485-494. WoS PubMed FullText FullText_BOKU

** Hoheneder, R; Fitz, E; Bischof, RH; Russmayer, H; Ferrero, P; Peacock, S; Sauer, M Efficient conversion of memicellulose sugars from spent sulfite liquor into optically pure L-lactic acid by Enterococcus mundtii.

BIORESOURCE TECHNOL. 2021; 333, 125215 WoS PubMed FullText FullText_BOKU

** Totaro, D; Radoman, B; Schmelzer, B; Rothbauer, M; Steiger, MG; Mayr, T; Sauer, M; Ertl, P; Mattanovich, D; Microscale Perfusion-Based Cultivation for Pichia pastoris Clone Screening Enables Accelerated and Optimized Recombinant Protein Production Processes..

Biotechnol J. 2021; 16(3):e2000215 WoS PubMed FullText FullText_BOKU

2020

** Erian, AM; Egermeier, M; Rassinger, A; Marx, H; Sauer, M Identification of the citrate exporter Cex1 of Yarrowia lipolytica.

FEMS YEAST RES. 2020; 20(7), foaa055 WoS PubMed FullText FullText_BOKU

** Gassler, T; Sauer, M; Gasser, B; Egermeier, M; Troyer, C; Causon, T; Hann, S; Mattanovich, D; Steiger, MG; The industrial yeast Pichia pastoris is converted from a heterotroph into an autotroph capable of growth on CO.

Nat Biotechnol. 2020; 38(2):210-216 WoS PubMed FullText FullText_BOKU

** Li, J; Rinnerthaler, M; Hartl, J; Weber, M; Karl, T; Breitenbach-Koller, H; Mülleder, M; Vowinckel, J; Marx, H; Sauer, M; Mattanovich, D; Ata, Ö; De, S; Greslehner, GP; Geltinger, F; Burhans, B; Grant, C; Doronina, V; Ralser, M; Streubel, MK; Grabner, C; Jarolim, S; Moßhammer, C; Gourlay, CW; Hasek, J; Cullen, PJ; Liti, G; Ralser, M; Breitenbach, M; Slow Growth and Increased Spontaneous Mutation Frequency in Respiratory Deficient.

G3 (Bethesda). 2020; 10(12):4637-4648 WoS PubMed FullText FullText_BOKU

** Lund, PA; De Biase, D; Liran, O; Scheler, O; Mira, NP; Cetecioglu, Z; Fernandez, EN; Bover-Cid, S; Hall, R; Sauer, M; O'Byrne, C Understanding How Microorganisms Respond to Acid pH Is Central to Their Control and Successful Exploitation.

FRONT MICROBIOL. 2020; 11, 556140 WoS PubMed FullText FullText_BOKU

** Mohan, SV; Varjani, S; Pant, D; Sauer, M; Chang, JS Circular bioeconomy approaches for sustainability Preface.

BIORESOURCE TECHNOL. 2020; 318, 124084 WoS PubMed FullText FullText_BOKU

** Sauer, M Building Communities-The 8th Congress of European Microbiologists.

BIOTECHNOL J. 2020; 15(7), 2000222 WoS PubMed FullText FullText_BOKU

** Totaro, D; Rothbauer, M; Steiger, MG; Mayr, T; Wang, HY; Lin, YS; Sauer, M; Altvater, M; Ertl, P; tanovich, D Downscaling screening cultures in a multifunctional bioreactor array-on-a-chip for speeding up optimization of yeast-based lactic acid bioproduction.

BIOTECHNOL BIOENG. 2020; 117(7): 2046-2057. WoS PubMed FullText FullText_BOKU

** Wiltschi, B; Cernava, T; Dennig, A; Casas, MG; Geier, M; Gruber, S; Haberbauer, M; Heidinger, P; Acero, EH; Kratzer, R; Luley-Goedl, C; Muller, CA; Pitzer, J; Ribitsch, D; Sauer, M; Schmolzer, K; Schnitzhofer, W; Sensen, CW; Soh, J; Steiner, K; Winkler, CK; Winkler, M; Wriessnegger, T Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications.

BIOTECHNOL ADV. 2020; 40, 107520 WoS PubMed FullText FullText_BOKU

* Ellena, V; Sauer, M; Steiger, MG; (2020): The fungal sexual revolution continues: discovery of sexual development in members of the genus Aspergillus and its consequences..

Fungal Biol Biotechnol. 2020; 7(1):17 PubMed FullText FullText_BOKU

Conference & Workshop Proceedings, Paper, Abstract

enables autotrophic growth in yeast.

[5th Applied Synthetic Biology Conference in Europe 2020, Delft, Netherlands, NOV, 2-4, 2020]

In: EFB (Hrsg.), 5th ASB Europe 2020 - abstract book

Sauer, M (2020): Diversity of Lactic Acid Bacteria, useful for Industrial Chemical Production . [IUMS 2020, Daejeon, South Korea, NOV 16-20, 2020]

In: IUMS (Eds.), IUMS 2020 Abstract Book

Sauer, M (2020): Communication and Dissemination in COST Actions.

[EuroMicropH - Open Conference run by Cost Action CA18113, Lisbon, Portugal, FEB 12-14, 2020]

In: COST Action CA1811 (Eds.), EuroMicropH - 1st open meeting - Book of Abstracts FullText

Sauer, M (2020): Diversity complements metabolic engineering for microbial chemical production. [Doctoral Program in Applied and Environmental Microbiology - 8th DP_AEM Workshop, Braga, Portugal, FEB 11, 2020]

In: DP_AEM (Eds.), 8th DP_AEM Workshop - Abstract Book

Journal Articles

** Egermeier, M; Sauer, M; Marx, H; Golden Gate-based metabolic engineering strategy for wild-type strains of Yarrowia lipolytica..

FEMS Microbiol Lett. 2019; 366(4): WoS PubMed FullText FullText_BOKU

** Russmayer, H; Egermeier, M; Kalemasi, D; Sauer, M Spotlight on biodiversity of microbial cell factories for glycerol conversion.

BIOTECHNOL ADV. 2019; 37(6-7), 107395 WoS PubMed FullText FullText_BOKU

** Russmayer, H; Marx, H; Sauer, M Microbial 2-butanol production with Lactobacillus diolivorans.

BIOTECHNOL BIOFUELS. 2019; 12(1), 262 WoS PubMed FullText FullText_BOKU

** Steiger, MG; Rassinger, A; Mattanovich, D; Sauer, M; Engineering of the citrate exporter protein enables high citric acid production in Aspergillus niger..

Metab Eng. 2019; 52:224-231 WoS PubMed FullText FullText BOKU

Conference & Workshop Proceedings, Paper, Abstract

Arvater, M; Schmelzer, B; Mattanovich, D; Sauer M (2019): Recycling of yeast biomass in lactic acid production at low pH. [Poster] [SIMB 2019 - Annual Meeting, San Francisco, CA, USA, JUL 21-24, 2019]

In: SIMB (Ed.), SIMB Annual Meeting and Exhibition 2019 - Abstract Book

Ellena, V; Arcalis, E; Sauer, M; Steiger, MG (2019): Engineering of the citrate exporter protein enables high citric acid production in Aspergillus niger.
[30th Fungal Genetics Conference, Pacific Grove, CA, USA, MAR 12-17, 2019]

In: FGC (Eds), Abstract Book of the 30th Fungal Genetics Conference

Ellena, V; Sauer, M (2019): Analysis ofsclerotiaformationandmorphologyin Aspergillus niger. [ESIB 2019, Graz, Austria, NOV 19, 2019]

In: ACIB (Ed.), ESIB 2019

Ergoth, S; Russmayer, H; Sauer, M; Marx, H (2019): 3-hydroxypropionic acid production from crude glycerol with Lactobacillus diolivorans. [Poster]

Chemical and Molecular Engineering XXI, Mont-Tremblant, Quebec, Canada, JUL 14-18, 2019]

In: ECI (Ed.), Proceedings Biochemical and Molecular Engineering XXI FullText

Gassler, T; Gasser, B; Sauer, M; Steiger, M; Mattanovich, D (2019): A synthetic Calvin cycle enables autotrophic growth in the yeast Pichia pastoris. [Poster] [RPP 10, Crete, Greece, APR 24-27, 2019]

In: efb (Ed.), RPP 10 - A comparative view on host physiology - abstract book

Gassler, T; Gasser, B; Sauer, M; Steiger, M; Mattanovich D (2019): A synthetic yeast for efficient assimilation of carbon dioxide.

[47th Annual Conference on Yeasts, Smolenice, Slovak Republic, MAY 12-15, 2019]

In: ACY (Ed.), 26 ACY - Abstract Book

Hoheneder, R; Bischof, RH; Sauer, M (2019): Microbial upgrading of a side stream from cellulose fiber production . [Poster] [SIMB 2019, San Francisco, CA, USA, JUL 21-24, 2019]

In: SIMB (Ed.), SIMB Annual Meeting and Exhibition 2019 - Abstract Book

Jeschek, D; Steiger, MG; Mattanovich, D; Sauer, M (2019): A toolbox to express and characterize membrane transport proteins. [Poster] [RPP10, Crete, Greece, APR 24-27, 2019]

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MACFAST

School of Biosciences

Training program in Chacolate

Chacolate

Compressive entrepreneurs

Compressive entrepreneurs

March 7 - 8 2⊕18



Programme Coordinator

Pinchu Elizabath Thomas, Phone: 9446401391

For registration details contact

Biju Dharmapalan, Phone: 9447121716

School of Biosciences, MACFAST Tiruvalla

Report on the workshop

"Chocolate making for prospective entrepreneurs"

09th of March 2018

MACFAST has conducted a training programme on Chocolate making on 7th and 08th of March 2018. Chocolate is a beloved sweet treat that appeals to everyone, whether young or old, rich or poor, man or woman, across all ethnicities and races. Chocolate is everyone's favourite form of expressing their feeling and the first thing that comes to mind while in the mood to celebrate, whether it is a small achievement or a big milestone. Interestingly, statistics from a study report conducted in 2016 reveals that the amount of chocolate consumed in a year is approximately more than two hundred thousand tonnes of chocolate. These astounding figures just give an inkling into the massive popularity of chocolate, whether the commercial branded bars or the premium exotic varieties.

To exploit this gap and demand in market, MACFAST had conducted a training program on Chocolate making at MACFAST. The coordinator and the main resource person of the program was Mrs. Pinchu Elizabeth Thomas. The registration was handled by Mr. Biju Dharmapalan, School of Biosciences. A total of 10 participants attended the training programme to start chocolate making as a business venture.

Fr. Dr. CHERIAN J KOTTAYIL

Mar Athanasios College Tiruvalla- 689101, Keraia MACFAST Tiruvalia-609 101

Breno Cherian Dean, school o

Bioscience

Training programme in Chocolate Making 7-8th March 2018

Signature Course Name of Student FTava Sarwar Igbal Keerthana Roop Bull

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RESUME

PINCHU ELIZABATH THOMAS

Onattu Thenadil Perumpanachy P. O. Changanacherry- 686536 Kerala, India

Mobile: +91 9446401391

E-mail: pinchuthomas@gmail.com

CAREER OBJECTIVE

To work in an organization that simultaneously enriches my professional knowledge, living and contributes towards achieving the goals of the employer.

AREAS OF INTEREST

Teaching, Research and Product development, Bakery & confectionery, Quality Assurance and Process & Technology

PROFESSIONAL & ACADEMIC QUALIFICATIONS

- Diploma in Sugar Paste, ICCA (International Center for Culinary Arts), Dubai, UAE, City & Guilds Accredited Certified Programme, 2018
- Qualified National Eligibility Test (ICAR-NET) in Food Technology for lectureship, 2016
- Master of Science in Food Science & Technology, 2005-2007, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, First Rank
- Bachelor of Science in Food Science & Quality Control, 2002-2005, Mahatma Gandhi University, Kottayam, Kerala, India- Graduated with Distinction, Second Rank

PROFESSIONAL SKILLS

- Laboratory: Physico- chemical, nutritional, microbial and sensory analysis of food
- Engineering skills: experience in handling food processing equipment
- Quality Assurance: Food safety, GMPs, SSOPs and HACCP prerequisites, auditing, documentation and ISO standards in food industries
- Computer: MS Word, MS Excel, MS Power Point
- Baking technology- new product development, baking, designing and decorating cakes, experienced in handling fondant and sugar paste.
- Chocolate making- experienced in manufacturing various homemade chocolates, tempering techniques, filling, enrobing and designing

PROFESSIONAL EXPERIENCE

Assistant Professor

Associated with the School of Biosciences, MACFAST (Mar Athanasios College for Advanced Studies Tiruvalla), Mahatma Gandhi University, Kottayam, Kerala, India, January 2008- Till

Duties and Responsibilities:

- Curriculum in-charge of Food Science & Technology Post Graduate Programme, till
- Faculty in-charge of Post Graduate Diploma in Food Technology, till 2015
- Additional, Chief and external examiner for various Food Science Courses under Mahatma Gandhi University, Kottayam, Calicut University and IGNOU, Delhi
- Visiting Faculty, Department of Food Science & Quality Control (Undergraduate Programme), BCM College, Kottayam, Mahatma Gandhi University, Kerala, India
- Guiding external student projects and small-scale entrepreneurs
- Member of the syllabus proposal and revision committee, Mahatma Gandhi University, Kottayam, Kerala
- Member of the Inspection commission, Mahatma Gandhi University, Kottayam, Kerala, 2014-2015
- Question paper setter for various university exams

Facilitator, Training programme in chocolate making and cake decoration for prospective entrepreneurs

Chocolatier

- Experienced in chocolate making, tempering, enrobing, molding and framing techniques
- Modern chocolate decorations using texture sheets, transfer sheets and pralines
- Experienced in manufacture of various chocolate products like truffles, rochers, barks, toffees, French bonbons, truffle shells, chocolate salami, lollipops and chocolate dessert
- Experience of decorating confectionery products and baked foods with chocolate materials
- Use of food colours in designing chocolates
- Storage and packaging of products
- Quality evaluation of chocolates

Cake Baker, Designer & Decorator

- Bake cakes in accordance with customer's specifications
- Decorate cakes using different types of icings and mixing of colors
- Designing novelty cakes based on customer's requirements
- Experienced in fondant and sugar paste techniques
- Assembling special occasion cakes
- Experienced in covering, crimping, and embossing
- Skilled in doing fabric effects, textured drapes, frills, ribbons, roses, bows and sugar embroidery
- Modeling Fun Figures, textures, inlay & applique & overlay

Design and handling, presentation of multi-tiered cake (dowelling & stacking)

Designing Celebration Cakes & Color Balance

TRAINING EXPOSURE

Training programme on "Role of HPLC in Food Analysis", CFTRI, Mysore, 26th -27th August 2019

Training programme on Phytochemical techniques, FRI, Dehradun, April 2019

Training programme in Safety of Food in Metal and Plastic Packaging, CFTRI (Central Food Technological Research Institute), Mysore, October 2018

10 days training experience in Food Technology R&D Division, Sami Labs Limited, Bangalore. December 2017

Training Programme in "Chocolate for Entrepreneurs", De' Pastry School, Cochin, 2016

Training Programme in "Cake designing", De' Pastry School, Cochin 2016

Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 4 (ISO 22000), training curriculum developed by FAO, Food Safety Solutions International, Cochin, Kerala, November 2014

Advanced Food Hygiene and Application of HACCP Based Food Safety Management System- Level 2 (training curriculum developed by FAO & CAC & RIPH UK, complies with the requirements of US FDA, EU COMMISSION and various other National and International Regulations) Food Safety Solutions International, Cochin, Kerala, May

Codex General Principles of Food Hygiene and Application of HACCP Based Food Safety System (FAO & CAC, complies with the requirements of US FDA, EU COMMISSION), Food Safety Solutions International, Cochin, Kerala, January 2005.

• Entrepreneurship Development Program on "Food Science & Technology" conducted by Field Testing Station, Changanacherry (Small Industries Development Organization, Ministry of SSI, Govt. India), Jan to Feb2005

Seafood Processing and Quality Control, The Integrated Fisheries Project, (Dept. of Animal Husbandry & Dairying, Govt. of India), Cochin, Oct to Nov 2003

Milk and Milk Products Training, Dairy Training Centre, Kottayam (Kerala State

Dairy Development Department), Dec 2002

- Processing of Pickles, Jams & Squashes, The Malabar Cost Products, Kerala, May-June
- Training in the processing of Bakery and Confectionary Products Breads, Hot Breads, Kunjoos Fine Products, Kerala, February 2003

RESEARCH EXPERIENCE

- Worked as Senior Research Fellow, in the project "Integrated Technology for the Development of Reinforced Bioplastics with Celluloses of Plant Origin" funded by Department of Biotechnology (DBT), Govt. of India, and has successfully developed value added products such as degradable, non-toxic packing material there by reducing the usage of LDPE, 2009-2012
- "Value added Products from Cassava," Mar Athanasios College for Advanced Studies Tiruvalla, Kerala, 2008

"Studies on Naturally Fortified Pasta Products," Defence Food Research Laboratory, Govt. of India, Mysore, 2007

· "A Study to Increase the Shelf-life of Raw Jack Fruit by Drying," Mar Athanasios College for Advanced Studies Tiruvalla, Kerala, 2007

PROJECT COMPLETED

• "Database on Food Toxins," Kerala State Council for Science, Technology & Environment (KSCSTE), Thiruvananthapuram, Kerala, 2014.

PROJECT ONGOING

• Co-PI of the project "Human Milk based Human Milk Fortifier for Preterm Infants" Department of Biotechnology, Delhi, 2021

PROFESSIONAL AND PERSONAL ACHIEVEMENTS

- Awarded First Rank by the M.G. University Kottayam for M.Sc., 2007
- Awarded Second Rank by the M.G. University Kottayam for B.Sc., 2005
- Award for best poster presentation in the International Symposium on "Advances in Food Biotechnology," 2007
- Organizing Committee Member, Treasurer of International Symposium on "Second Green Revolution: Priorities, Programmes, Social and Ethical Issues," Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009
- Recipient of the President of India Guide Award, 2000

PROFESSIONAL MEMBERSHIP

- Member, Association of Food Scientists & Technologists, India (AFSTI)
- Kerala Food Technologists Association (KEFTA)

PUBLICATIONS/ SCIENTIFIC PRESENTATIONS

- Value Added Products from Jackfruit (Artocarpus heterophyllus) Fruit, Pinchu Elizabath Thomas and Biju Dharmapalan, Acta Scientific Nutritional Health, ISSN:2582-1423, 4.2 (2020): 105-110.
- Value added food products from Flacourtia jangomas (Lour.) Raeusch, Pinchu Elizabath Thomas and Biju Dharmapalan, Indian Food Industry Mag, Vol 38 No 1, Jan-Feb 2019
- Physico-chemical and sensory properties of biscuits fortified with carrot powder, Pinchu Elizabath Thomas, Litty Mary Abraham and Biju Dharmapalan, International Journal of Food and fermentation Technology. 8(2): 01-05, December 2018, ISSN No.2249-1570
- "Clovora- A New Herbal Mouth Wash for Oral Hygiene", Amal P. K., Abu Anna Joy, Athira Thomas, Jessiya Jacob, Biju Bharmapalan and Pinchu Elizabath Thomas, Journal of Science, Technology and Management, December 2018
- "Isolation of Oleoresin from Capsicum frutescens and its Value Addition," Pinchu Elizabath Thomas, and Betsy M. Baby, International Symposium on Advances in Bioprocess Technology, 2015
- "Functional Properties of Cellulose-Reinforced Bioplastics and their Potential Usage as Food Packaging Material" Pinchu Elizabath Thomas, Rathish Rajan, Subin Damodaran and C. Balagopalan, Journal of Science, Technology and Management, January 2014

"Rapport between Bioinformatics and Food Technology" Betsy M. Baby, Pinchu Elizabath Thomas, International Symposium on Computational Biology and Drug Design, MACFAST, Thiruvalla, India, 2013

"Utilization of Cotton Textile Waste as Reinforcement in Low Density Polyethylene Based Bioplastics" Rathish Rajan, Pinchu Elizabath Thomas, Balagopalan C, APM-2011: International Conference on "Advancements in Polymeric Materials," CIPET,

"Strategic Solutions for Food Security" Pinchu Elizabath Thomas, Treesa Varghese and Betsy M. Baby, International Symposium on Second Green Revolution: Priorities, Programmes, Social and Ethical Issues, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India, 2009

"Biofortification: A Valuable Ingredient in High Quality Cereals Production" Treesa Varghese, Pinchu Elizabath Thomas, and Betsy M. Baby, International Symposium on Second Green Revolution: Priorities, Programmes, Social and Ethical Issues, Rajiv

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PERSONAL PROFILE

Date of Birth

16th January 1985

Nationality

Indian

Gender

Female

DECLARATION

I hereby declare that the particulars furnished above are true and correct to the best of my

PINCHU ELIZABATH THOMAS

MACFAST



Department of Management Studies in association with

Entrepreneurship Development Club MACFAST organizes a talk on

Entrepreneurship Development-Government Schemes and Support

Resource Person

Prakash G S

Joint Director
MSME Development Institute
Thrissur, Kerala



DATE: 5th April 2018



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALA (MACFAST)

Thiruvalla - 689101

Report – 'Entrepreneurship Development – Government Schemes and Support' by Mr. Prakash, Deputy Director Micro Small and Medium Enterprises on 4th May 2018

In order to nurture entrepreneurship skills for aspiring students and to familiarize them with different government schemes and support, a session was organized with the title 'Entrepreneurship Development – Government Schemes and Support' on 4th May 2018. The resource person for the session was Mr. Prakash, Deputy Director Micro Small and Medium Enterprises. 92 participants have attended the session.

This one hour session has enlightened students with the following out comes in the field of entrepreneurship.

- How to start and MSME
- Various Government schemes available to start MSME
- Financing options available to start MSME

Mr. Prakash has also answered the questions raised by the participants.

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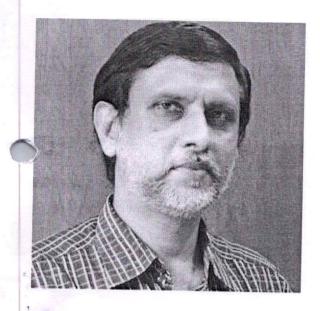
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Fr. Dr. CHERIAN J KOTTAYIL
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For Advanced Studies
Tiruvalla- 689101, Kerala



PRAKASH GS

Home > Speaker > Prakash GS



PRAKASH GS

Prakash GS IEDS Joint Director MSME Development Institute Thrissur Kerala. He is an Indian Enterprise Development Service(
IEDC) cader officer in Govt of India.

Graduate in Engineering, prior to joining to the Ministry of MSME through UPSC, he worked in BPL Ltd as a production Engineer in the consumer electronics division. In the Ministry, he worked in the HQ at Delhi and worked 6 different stations in the country.

Presently posted as Joint Director & Directo

Events Joined



INVITATION FOR THE TALK Organized By ED CLUB

1 message

Fr. Dr. Cherian J Kottayil <principal@macfast.org>

Fri, May 4, 2018 at 10:47 AM

To: faculty @macfast.org>, H R Macfast <hr@macfast.org>, Library <library@macfast.org>, "I.T. Officer" <it@macfast.org>, "nithin.mathews" <nithin.mathews@macfast.org>, Deputy Director Macfast <dd@macfast.org>, administrator@macfast.org, Pro Macfast pro@macfast.org>, Pavin Thadathil cpavin@macfast.org>, Saji accounts <financialmanger@macfast.org>, saji john <sajijohn@macfast.org>

Dear All,

Department of Management Studies in association with ED Club is organizing an invited talk on the topic 'Entrepreneurship Development - Government Schemes and Supports' by Mr. Prakash Deputy Director Micro Small and Medium Enterprises (MSME) with the objective of developing entrepreneurship flairs in our post graduate students on 4th May, 2018 (Friday) from 1:45pm to 2:50pm at Auditorium.

The outcomes expected from the program are following.

- 1. · How to start an MSME
- 2. · Various Government schemes available to start MSME
- 3. Financing options available to start MSME

All Faculty members and students are cordially invited .

Thanks and Regards,

Fr. Dr. Cherian J Kottayil

Principal Cum Director- MACFAST (Accredited by NAAC with A Grade) Chairman- Radiomacfast 90.4

www.macfast.org

Watch Our Profile Video

MACFAST at Vikasana Sandesham- Doordarshan

Interview at Power Vision Channel

UNAI & UNHate Foundation 2015 Diversity Contest

'Entrepreneurship Development – Government Schemes and Support' by Mr. Prakash, Deputy Director Micro Small and Medium Enterprises on 4th May 2018

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SL.NO			
1	Name of the student	SL.NO	: Name of the student
2	Abhishek Purushothaman		
	Ajo Varghese Rajan	36	Sreejesh S
3	Akash Mathew	37	Steffi Philip
4	Akhila O V	38	Sudheesh S Nair
	Akhilmon V Thomas	39	Swathy Sathyavan
6	Albin Baby	40	Veena Mol V
7	Alma Mariam Abraham	41	Vivek Vijayan
8	Ameer Ismail	42	Abiya Babu
9	Amitha Rajesh R	43	Akshaya E S
10	Ancy Monachan	44	Aleena Jacob
11	Anita Ann Alex	45	Anjali B Joseph
12	Anuja Elizabeth Joseph	46	Anju Vijay
13	Ashik S Antony	47	Anu Abraham
14	Athira R	48	
15	Brian Binu Thomas	49	Anu Joseph Arya M M
16	Cyriac Stephen George	50	Ashma C Das
17	Divya Ann Varghese	51	
18	Heera Maria Vilson	52	Aswani S Kumar Athira Babu
19	Jayasree J	53	Athira V M
20	Jiby Varghese	54	
21	Jikku Varughese Koruth	55	Bijina Beegam C S Chitra
22	Job Justin	56	
23	Jojo John Varughese	57	Chinnu Maria Thankachan
24	Joshni Mary Thomas	58	Gibin Babu
25	Megha A P Panicker	59	Haripriya J
26	Nidhi Elizabeth Philip	60	Jibi Joseph
27	Nimmy Francis	61	Jilbi Susan James
28	Praveen P Nair	(0	Ligitha Anu Ninan
29	Riya Eliz Biju	(2)	Merin Anna Mathew
	Rony K J		Merin Chacko
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	Senu C Mathew	03	Sandra Biju
	Shijin Babu	66	Shanu Eappen
	Sijin Saji	67	Shany Thomas
	Simi Chacko		Smrithi Viswanath
- 1	A STATE OF THE STA	69	Sneha Catherine James

70	Sneha Sara Thomas	
71	Sruthi Raj	
72	Swathy Harikuttan	
73	Teenamol Antony	
74	Vandana V	
75	Veena Vinayan	
76	Vijitha M Nair	
77	Achu C Thampi	
78	Akhilesh Kumar C A	
79	Ananthu A Kochumon	
80	Ananthu Santhan	
81	Bibin John Babu	
82	Christopher George	
83	Harikrishnan V M	-
84	Jerin George	
85	Jikku George John	
86	Jikku Mathew Thomas	
87	Midhun S Abraham	
88	Robin George Kurian	
89	Rohan Alex Mathew	
90	Sebin Sebastian	
91	Tom Abraham	
92	Vishakh T Devan	

Verified by

Jibamon K.G

ED Club Co-ordinatin (MBA)

