



SRI BALAJI VIDYAPEETH (SBV)

(Deemed to be University)
U/S 3 of UGC Act 1956
Puducherry-607402

This document contains the details of the
**Certificate course in Basic Mammalian Cell culture for Biomedical
Research,**

conducted by Central Interdisciplinary Research Facility,
Sri Balaji Vidyapeeth, Deemed to be University.

(This document is attested from pages 1-10)

REGISTRAR
SRI BALAJI VIDYAPEETH
(Deemed University u/s 3 of UGC ACT, 1956)
Accredited by NAAC with 'A' Grade
Pillaiyarkuppam, Pondicherry - 607 402.

NAAC 2020



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Criteria 1

Metrix 1.3 : Curriculum Enrichment

1.3.2

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Details of Certificate course in Basic Mammalian Cell Culture for Biomedical Research

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NAAC 2020



CENTRAL INTER-DISCIPLINARY RESEARCH FACILITY
SRI BALAJI VIDYAPEETH, PUDUCHERRY



Certificate course in Basic Mammalian Cell culture for biomedical research

Course Content

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Syllabus

- Introduction to Cell Culture T Cell Culture –
- Qualification & Requirement
- Microscopy (Emphasis on Phase Contrast) Tour of qualified cell culture facility
- Cell visualization (Phase Contrast Microscopy)
- Biosafety & Contamination in cell culture
- Sterilization techniques for cell culture
- Cell handling (prelims) – Medium change
- Storage techniques (4 to -196degree Celsius)
- Cryopreservation and Trypsinization, passaging, viability, Counting
- Cryopreservation of cells
- Reviving of cells
- Post passage monitoring of cells
- Cell doubling time, Population doubling assay
- Monitoring of passaged & cryopreserved cells
- Cell doubling time and PD calculation
- Handling of suspension cells (passaging)
- Stereomicroscopy
- Preparation of PBS, pH & Sterilization
- Preparation of medium

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CERTIFICATE COURSE ON
BASIC MAMMALIAN CELL CULTURE FOR BIOMEDICAL RESEARCH

VENUE / DATE

CENTRAL INTER-DISCIPLINARY RESEARCH FACILITY / 10-12 JANUARY 2020

RESOURCE PERSONNEL

External:

1. **Dr. Annapoorna Kannan,**
Senior Research Scientist,
CoE in Neurosciences
Texas Tech University,
Health Sciences Centre at El Paso
El Paso
Texas
2. **Dr. Maheswaran Mani,**
Assistant Professor
Dept of Microbiology
School of Life Sciences
Pondicherry University
Puducherry

Internal:

1. Dr. Aglesh Kumar.B, Deputy Director
2. Dr. Veni Subramanayam, Scientist
3. Dr. Anitha T.S, Scientist
4. Dr. Sam Vijay Kumar J, Scientist
5. Ms. Rahini Rajendran, Scholar
6. Ms. Indrani Biswas, Scholar
7. Mr. Shreyas Kuduvali, Scholar

This document is attested from page 1-6

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**CERTIFICATE COURSE ON
BASIC MAMMALIAN CELL CULTURE FOR BIOMEDICAL
RESEARCH
10th January 2020, INDIA (FRIDAY)**



Time	TOPIC	Theory (T), Hands-on (H)	Resource Persons
08.45 – 09.00	PRE-TEST		Ms. Rahini
09.00 – 09.45	Introduction to Cell Culture	T (Skype)	Dr. Annapoorna Kannan, Texas Tech Uni
09.45 – 10.30	Cell Culture – Qualification & Requirement	T	Dr. Veni Subramanyam
10.30 – 10.45	Tea / Coffee		
10.45 – 11.30	Microscopy (Emphasis on Phase Contrast)	T	Dr. Sam Vijay Kumar J
11.15 – 11.30	Tour of qualified cell culture facility	H	Dr. Veni Subramanyam
11.30 – 12.30	Cell visualization (Phase Contrast Microscopy)	H	Dr. Veni Subramanyam
12.30 – 12.45	Queries / Discussion	T	
12.45 – 01.45	Lunch		
01.45 – 02.30	Biosafety & Contamination in cell culture	T	Dr. Anitha T.S
02.30 – 03.15	Sterilization techniques for cell culture	T	Dr. Anitha T.S
03.15 – 03.30	Coffee / Tea		
03.30 – 04.15	Cell handling (prelims) – Medium change	H	Dr. Sam Vijay Kumar / Ms. Indrani
04.15 – 05.00	Media, buffers and reagents	T	Ms. Rahini / Ms. Indrani

Extra personnel: Mr. Baskaran, Technician, Mr. Balasundaram & Ms. Kalaiselvi

SRI BALAJI VIDYAPEETH
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Pillaiyandurthi, Pondicherry-607 402.



**CERTIFICATE COURSE ON
BASIC MAMMALIAN CELL CULTURE FOR BIOMEDICAL RESEARCH**

11th January 2020, INDIA (SATURDAY)



Time	TOPIC	Theory (T), Hands-on (H)	Resource Persons
09.00 – 09.45	Storage techniques (4 to -196degree Celsius)	T	Dr. Agiesh Kumar B
09.45 – 10.30	Cryopreservation and applications	T	Dr. Maheswaran Mani, Pondicherry Uni
10.30 – 10.45	Tea / Coffee		
10.45 – 11.30	Trypsinization, passaging, viability, Counting	T (Skype)	Dr. Annapoorna Kannan, Texas Tech Uni
11.15 – 12.45	Trypsinization, passaging, viability, Counting	H	Dr. Sam Vijay Kumar J / Ms. Rahini
12.45 – 01.45	Lunch		
01.45 – 02.30	Cryopreservation of cells	H	Dr. Sam Vijay Kumar J / Ms. Indrani
02.30 – 03.15	Reviving of cells	H	Dr. Sam Vijay Kumar J / Ms. Rahini
03.15 – 03.30	Tea / Coffee		
03.30 – 04.15	Post passage monitoring of cells	H	Ms. Rahini
04.15 – 05.00	Cell doubling time, Population doubling assay	H	Dr. Sam Vijay Kumar J

Extra personnel: Mr. Baskaran, Technician & Mr. Balasundaram

12th January 2020, INDIA (SUNDAY)

Time	TOPIC	Theory (T), Hands-on (H)	Resource Persons
09.00 – 09.45	Monitoring of passaged & cryopreserved cells	H	Dr. Sam Vijay Kumar J
09.45 – 10.30	Cell doubling time and PD calculation	H	Dr. Sam Vijay Kumar J
10.30 – 10.45	Tea / Coffee		
10.45 – 12.15	Handling of suspension cells (passaging)	H	Mr. Shreyas / Ms. Rahini
12.15 – 12.45	POST - TEST		Ms. Indrani
12.45 – 01.45	Lunch		
01.45 – 02.30	Stereomicroscopy	H	Dr. Sam Vijay Kumar J
02.30 – 03.15	Preparation of PBS, pH & Sterilization	H	Ms. Rahini / Ms. Indrani
03:15 – 04.00	Preparation of medium	H	Ms. Indrani
04.00 – 04.45	Feedback and Certificates		Ms. Rahini / Ms. Indrani

Extra personnel: Mr. Baskaran, Technician & Mr. Balasundaram

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SRI BALAJI VIDYAPEETH

DEEMED-TO-BE UNIVERSITY
U/S 3 of UGC Act

INTERNAL QUALITY ASSURANCE CELL



SAMPLE CERTIFICATE



SAMPLE

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Pillaiyarkuppam, Puducherry

Application No.:

APPLICATION FOR ADMISSION TO CERTIFICATE / INTER DISCIPLINARY PROGRAM

APPLICATION FOR (COURSE NAME) :

Basic Mammalian Cell Culture for Biomedical Research (BMC-BMR)

1. Name of the Applicant : *SILAMBARASI.N*

[as entered in P.G. Degree Certificate] in Capital Letters



2. Gender : Male Female Third Gender

3. Date of Birth(DD-MM-YYYY): *22-01-1996* Age: *23*

4. Community : SC ST MBC BC OBC OC

5. Nationality : *INDIAN*

6. Religion : *HINDU*

7. Name of Father / ~~Husband~~ : *T. NAGASAMY*

8. Address for Communication:

Residential Address	Office/Institution Address
<i>No. 19/12, Higher Secondary School Road, Sethiashope, Cuddalore - 608702</i>	
Phone/Mobile No. <i>9789835790</i>	Phone/Mobile No.
Email: <i>silumbro_2216@gmail.com</i>	Email:

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Pillaiyarkuppam, Puducherry

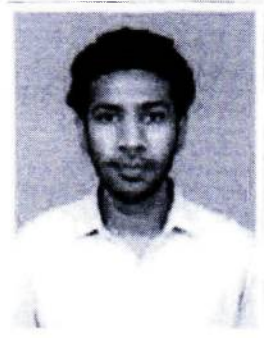
Application No.:

APPLICATION FOR ADMISSION TO CERTIFICATE / INTER DISCIPLINARY PROGRAM

APPLICATION FOR (COURSE NAME) :

..... BASIC MAMMALIAN CELL CULTURE FOR

..... BIOMEDICAL RESEARCH (BMC-BMR)



1. Name of the Applicant : J. MATHEW PRASAD

[as entered in P.G. Degree Certificate] in Capital Letters

2. Gender : Male Female Third Gender

3. Date of Birth(DD-MM-YYYY): 25-05-1996 Age: 23 years

4. Community : SC ST MBC BC DBC OC

5. Nationality : INDIAN

6. Religion : ROMAN CATHOLIC

7. Name of Father / Husband : R. JAMES MARIANADIN

8. Address for Communication:

Residential Address	Office/Institution Address
<p><u>NO 11, OTHAVADAI STREET,</u> <u>MUTHIALPET, PUDUCHERRY -</u> <u>605003</u></p> <p>Phone/Mobile No. <u>9787689150</u></p> <p>Email: <u>dmathewprasad91@gmail.com</u></p>	<p>Phone/Mobile No.</p> <p>Email:</p>

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