Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

 Evaluation is to be done using the scale outline below: -

Livaraution	10 00 00 00110	0		•	
Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	ū .				
1:::	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	H	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	3	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	- 5	5	5
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	34	1	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

1.7	Yr	W			i62
17:	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B	5	5	<u></u>
	2) Harvesting and banding			0	S
	3) Karyotyping	Mr. Manju HC	-	A	<i>C</i>
5)	4) FISH		5	5	5
18.	Hands-on session - Module 2: Molecular Biology &	Diagnostics			
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5"	5
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	- 5	S	5
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5
19.	Hands-on session - Module 3: Cell biology	1			
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	-		
	2) Cell counting	`	- 5	5	.5
	3) Subculturing		5	-	
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav		5	5
20.	Hands-on session - Module 4: Gene expression stud	lies			1
	1) RNA isolation & quality check	Ms. Anju Srinivas			
*	2) cDNA synthesis	Ms. Vaibhavishree M			
	3) Quantitative real time PCR	Ms. Deepthi V			
	4) Data analysis	Ms. Supriya B			
		Mr. Anshu Kumar Yadav			
	4. Evaluation of the program as a wh	nole:		J	
	a. Did the topics selected cover a	all important aspects of the spec	ialty?	Yes/N	0
	b. Have you received handouts of	of all the sessions?		Yes/N	o
	c. Did the sessions help in impro	ovement of your understanding?		Yes/N	O
	d. Was there adequate time for d	iscussion?		Yes/N	O
	e. Do you think there is need for	regular workshops of this type	in future?	2.1	

e. Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often?

f. Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

jii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			13
Food			
Conduct of workshop			

- i. Any problems faced by you as a participant? No
- j. Suggestions for future workshop More on Individual hands on this

Date: 24/06/2022



Department of Biochemistry & Department of Medical Genetics

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Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	r.	7			
1	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	2	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	2
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	3
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	2	В
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	5	2	5
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	B
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	+5	+5	+5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	B	5	В
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	9	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	++B	++5	+45
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	Б	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

	Hands-on session – Module 1: Cytogenetics						
ĺ	1) Culture set-up	Ms.Supriya B					
	2) Harvesting and banding	,	5	5	5		
	3) Karyotyping	Mr. Manju HC	5				
	4) FISH		2	5	5		
	Hands-on session - Module 2: Molecular Biology &	Diagnostics		1			
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5		
İ	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	В	Б	5		
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5		
	Hands-on session – Module 3: Cell biology						
Ì	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	Ł				
	2) Cell counting		4	4	4		
	3) Subculturing			В	5		
- 1	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5				
	Hands-on session – Module 4: Gene expression stud	lies					
İ	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5		
5	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5		
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5		
	4) Data analysis	Ms. Supriya B	5	3			
		Mr. Anshu Kumar Yadav	5	5	5		
	4. Evaluation of the program as a wh	nole:			1		
	a. Did the topics selected cover a	all important aspects of the spe	cialty?	Yes/N	0		
	b. Have you received handouts o	f all the sessions?		Yes/N	0		
	c. Did the sessions help in impro	vement of your understanding	?	Yes/N	0		
	d. Was there adequate time for d	iscussion?		Yes/N	0		
	. D. 41114 1 10			72.			

a. Did the topics selected cover all important aspects of the specialty?

b. Have you received handouts of all the sessions?

c. Did the sessions help in improvement of your understanding?

d. Was there adequate time for discussion?

e. Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often?

f. Any more techniques you can suggest which can be included in the workshop

Yes, Just Josephane for Jean Session.

g. How did you get the information regarding this workshop?

By circulars to your institution

- ii. Invitation by organizers
- iii. Internet / Institution website/ social media
- iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	5 1		
Food			
Conduct of workshop			

i.	Any problems faced by you as a participant?	
	NO. I would like to duggest one thing	**
	that Take Session like Employmention Slowly, suppoin it mure, from Bosic 4 increased the period vice 15 clays to 20 clays.	م ا،
	Emploin et mure, from Bosic & increosed the	workshop
	period vice 15 days to 20 days.	
	Congressions for future workshop	

j. Suggestions for future workshop

He Home mangement is very govel.

Date: 24/06/2022

Name and Signature
(Supriger Shotre.)



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Grade: (Satisfactory) (Not Satisfactory) (V. Good) (Good) (Excellent)

SI	Topic	Speaker	Quality	Content	Usefulness
No.	9	IT			
1,00	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	4	4
3	RNA interference and its applications	Dr. Prasanna Kumar S,	3	3	3
4.	Basics of Primer Designing	Dr. Akila Prashant,	4	4	4:
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	4.
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	3	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	L _t	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	- 5	5	5
11:	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	4	L _t
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	J _t	3	4.
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	4	4	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	\$	5
15	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	4

	1) Culture set-up	Ms.Supriya B					
	2) Harvesting and banding	, *					
	3) Karyotyping	Mr. Manju HC			+		
8	4) FISH		5	4	5		
	Hands-on session – Module 2: Molecular Biology	& Diagnostics					
	DNA isolation from blood	Ms. Anju Srinivas					
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	3	4	4.		
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah			1.		
	Hands-on session - Module 3: Cell biology						
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh					
	2) Cell counting	*1	3	4	14.		
	3) Subculturing						
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	4	4 .	Lt.		
	Hands-on session – Module 4: Gene expression st	udies					
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5		
8	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5		
	3) Quantitative real time PCR	Ms. Deepthi V	4		1 3		
	4) Data analysis	Ms. Supriya B	5	5	4.		
1		Mr. Anshu Kumar Yadav	4	5	4		
	4. Evaluation of the program as a v	vhole:			V		

a. Did the topics selected cover all important aspects of the specialty? Yes/No
b. Have you received handouts of all the sessions? Yes/No
c. Did the sessions help in improvement of your understanding? Yes/No
d. Was there adequate time for discussion? Yes/No

e. Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often? This is the interior of the interior o

f. Any more techniques you can suggest which can be included in the workshop

(RISPR-COL 9 4 HPLC

g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

اننی: Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

-NO -

j. Suggestions for future workshop

Workshop's outsted

do CRISPR - Cas 9.

Date: 24/06/2022

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Evaluation	is to be done	using the scale (Julille below.			
Grade:	5	4	3	2	1	
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory	1)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	W . 18				
1,,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,			
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	d	3	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	3	4	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	4	2	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	4	3	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	3	5	5
7.:	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	2	.2
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	3	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	4	2	3
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	3	3
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	(5)	3	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	2	3	2
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	4	4	4.
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	4	5	3
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4.	4.	3

17.	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B	I	5	<u> </u>
	2) Harvesting and banding		a	∂	2
	3) Karyotyping	Mr. Manju HC	0		2
25	4) FISH		2	3	3
8.	Hands-on session – Module 2: Molecular Biology	& Diagnostics			
	DNA isolation from blood	Ms. Anju Srinivas	H	5	5
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	00	2	2
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	<u></u>	4	4
9.	Hands-on session - Module 3: Cell biology		2		
	Mammalian cell culture Cell counting	Mr. Adel Mohammed Saleh. Good work Considering he is conternational	4	3	× 4.
	3) Subculturing4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	3	4	5
0.	Hands-on session – Module 4: Gene expression st	udies			
	1) RNA isolation & quality check	Ms. Anju Srinivas	4	4	H
	2) cDNA synthesis	Ms. Vaibhavishree M	,3	4	4
	3) Quantitative real time PCR	Ms. Deepthi V			-/-
	4) Data analysis	Ms. Supriya B	H	40	4
	6	Mr. Anshu Kumar Yadav	3	4	5

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No

e. Do you think there is need for regular workshops of this type in future?

Yes/No If yes, how often? Quarterly once

f. Any more techniques you can suggest which can be included in the workshop

Cell Based Assays.

g. How did you get the information regarding this workshop?

By circulars to your institution

ii. Invitation by organizers

Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant? Mone

j. Suggestions for future workshop

A more Hands-on component would be Beneficial
Enjoyed throughly! Good work!

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(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

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2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	4	4	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	4	Y
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	4	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	4	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	4	y
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	4	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	4	5
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12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	3	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	Y	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	4	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	4	4	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5,	4	4

					At.
17.	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B	L		
	2) Harvesting and banding		5	3	5
	3) Karyotyping	Mr. Manju HC	1		_
	4) FISH		2	5	6
18.	Hands-on session - Module 2: Molecular Biology &	Diagnostics			
	1) DNA isolation from blood	Ms. Anju Srinivas	t	()	
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	7	~	1
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	K	P	6
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	r	5	5
19.	Hands-on session – Module 3: Cell biology				
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	1	4-	
	2) Cell counting		2	4	35 5
	3) Subculturing		10	10	100
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5
20.	Hands-on session – Module 4: Gene expression stud	ies			
	1) RNA isolation & quality check	Ms. Anju Srinivas		5	5
	2) cDNA synthesis	Ms. Vaibhavishree M	F	6	5
	3) Quantitative real time PCR	Ms. Deepthi V	+		9
	4) Data analysis	Ms. Supriya B	-	(-	-
	4	Mr. Anshu Kumar Yadav	7	(-	5
	4. Evaluation of the program as a wh	ole:			
	a. Did the topics selected cover a	ll important aspects of the speci	alty?	Wes/No	į
	b. Have you received handouts of	f all the sessions?		Yes/No	e ·
	c. Did the sessions help in impro-	vement of your understanding?		Yes/No	i.
	d. Was there adequate time for di	scussion?		Yes/No	0.
	e. Do you think there is need for	regular workshops of this type	n future?		
		often? 2-3 times		4884	
		suggest which can be included i		1	

g. How did you get the information regarding this workshop?

By circulars to your institution

Invitation by organizers

Internet / Institution website/ social media Any other iii.

iv.

	Excellent	Satisfactory	Not satisfactory
Registration			e.
Food			
Conduct of workshop			

i.	Anv	problems	faced	by you	as a	participant?
T.	7 XII y	problems	14004	0))04	~~	Post of Party

None

j. Suggestions for future workshop

Chelusian of	t Other	techniquel	and
teaching be	sich B	DNA/ proteir	/ mRNA

Date: 24/06/2022

Name and Signature

Dr. Supil-10 uningle Switchemar Shuttle κ

JSS Academy of Higher Education & Research JSS Medical College Department of Biochemistry & Department of Medical Genetics

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2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	4	4	14
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	3
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5.
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	ろ	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	3	3,
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	2	ろ	2_
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	4.
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	4	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	2
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	6	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	4	3

	Culture set-up Ms.Supriya B			-			
	2) Harvesting and banding		5	5	5		
	3) Karyotyping	Mr. Manju HC			0-		
, 4	4) FISH		5	B	5		
8.	Hands-on session - Module 2: Molecular Biology	& Diagnostics	· ·				
	1) DNA isolation from blood	Ms. Anju Srinivas	B	5	5		
	2) ARMS PCR for mutation analysis	Mş. Sumaiya Kalaigar	4 3	\$	3		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar					
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5		
9.	Hands-on session - Module 3: Cell biology						
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	2				
	2) Cell counting		3	3	3		
	3) Subculturing						
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5		
0.	Hands-on session - Module 4: Gene expression s	tudies					
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	6	5		
100	2) cDNA synthesis	Ms. Vaibhavishree M					
	3) Quantitative real time PCR	Ms. Deepthi V					
	4) Data analysis	Ms. Supriya B	5	5	5		
		Mr. Anshu Kumar Yadav	5	5	5		

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
_	Do you think those is need for recorder we stake a self-in time in factors?	15.0

Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often? Yes/No If yes, how often? Quarte only

f. Any more techniques you can suggest which can be included in the workshop

MS, HPLC, TEM.

g. How did you get the information regarding this workshop?

By circulars to your institution

- ii. Invitation by organizers
- iii. Internet / Institution website/ social media
- iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

j. Suggestions for future workshop - Mode hands on if possible, neures techniques, single cere genomics & metaphoeu hands on or demo varies

Date: 24/06/2022

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	y **				
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	4	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	4	4	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	3	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	4	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	4	5
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	5	4
12,	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	4	4	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	4	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	4	4

17.	Hands-on session – Module 1: Cytogenetics								
	1) Culture set-up	Ms.Supriya B							
	2) Harvesting and banding		5	5	5				
	3) Karyotyping	Mr. Manju HC		_	_				
	4) FISH		5	5	5				
18.	Hands-on session - Module 2: Molecular Biology &	& Diagnostics							
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	5				
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	L	5				
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	5	4	5				
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5.				
19.	Hands-on session - Module 3: Cell biology								
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	- ا						
	2) Cell counting		5	5	5				
	3) Subculturing				F .				
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5+	5+	5+				
20.	Hands-on session - Module 4: Gene expression stu	dies	-						
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5				
- 5	2) cDNA synthesis	Ms. Vaibhavishree M	Lp	5	5,				
	3) Quantitative real time PCR	Ms. Deepthi V	5	4	5				
	4) Data analysis	Ms. Supriya B	5	5	5.				
		Mr. Anshu Kumar Yadav	5+	5+	5+				

4. Evaluation of the program as a whole:

a.	Did the topics selected	cover all important	aspects of the specialty?	
----	-------------------------	---------------------	---------------------------	--

Yes/No

b. Have you received handouts of all the sessions?

Wes/No

c. Did the sessions help in improvement of your understanding?

Yes/No

d. Was there adequate time for discussion?

Wes/No

e. Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often? Once in 6 months.

Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	1	-	
Food	V		
Conduct of workshop	V		

- i. Any problems faced by you as a participant?
- j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature

Chandan Gowda. G.o.

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.

2. Content: In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.

3. Usefulness to you: In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

_ valuation	is to be done	aping the bear	0 070		
Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	14				
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	4	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	4	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	4
6.	Application of cell-based assays in drug discovery and development Dr. Subbarao V Madhunapantula,		5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	5	4	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	6	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	4	4
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	15	5
15.	MicroRNAs to nanovesicles: Exploration of novel	Dr. Gopinath			
	therapeutics for skin diseases	Meenakshisundaram,	5	5 10	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

17.	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B		34	
	2) Harvesting and banding		5	5	5
1	3) Karyotyping	Mr. Manju HC			
	4) FISH	2	5	5	5
18.	Hands-on session - Module 2: Molecular Biology &	& Diagnostics			
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	5
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	7	5	5
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	5	5	8
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5
19.	Hands-on session - Module 3: Cell biology				0
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh			
	2) Cell counting	, and the second	5	5	5
	3) Subculturing			-	
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	
20.	Hands-on session - Module 4: Gene expression stu	dies			3
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5
*	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	0
	3) Quantitative real time PCR	Ms. Deepthi V		5	5
	4) Data analysis	Ms. Supriya B	5	5	5
		Mr. Anshu Kumar Yadav	5	5	5
	4. Evaluation of the program as a w	hole:			

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
		*

e. Do you think there is need for regular workshops of this type in future?

If yes, how often? may be once a year Yes/No

f. Any more techniques you can suggest which can be included in the workshop flow cylometry / mars spectrometry

g. How did you get the information regarding this workshop?

- i. By circulars to your institution
- ii. Invitation by organizers
- Internet / Institution website/ social media

Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

None

j. Suggestions for future workshop

None

Date: 24/06/2022



Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

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- 2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

_	uluutio.		Ų			C.
	Grade:	5	4	3	2	1
			(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory)

Sl	opic Speaker		Quality	Content	Usefulness
No.	*	10			
1 ₁₁	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	3	4	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	_5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5 5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	2	1	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	3	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10,	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	4	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	Ц	3	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	3
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

17.	Hands-on session – Module 1: Cytogenetics							
	Culture set-up Harvesting and banding	Ms.Supriya B	5	5	5			
	3) Karyotyping 4) FISH	Mr. Manju HC	5	5	5.			
18.	Hands-on session – Module 2: Molecular Biology & Diagnostics							
	1) DNA isolation from blood	Ms. Anju Srinivas	5	4	L			
	2) ARMS PCR for mutation analysis	Mṣ. Sumaiya Kalaigar	-					
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	4	3	Ч			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5			
19.	Hands-on session - Module 3: Cell biology							
	Mammalian cell culture Cell counting	Mr. Adel Mohammed Saleh	3	4	~ 5			
	3) Subculturing4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5.	5			
20.	Hands-on session – Module 4: Gene expression studies							
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5			
53	2) cDNA synthesis	Ms. Vaibhavishree M	4	4	4			
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5			
	4) Data analysis	Ms. Supriya B	5	5	5			
		Mr. Anshu Kumar Yadav	3	4	5			

Evaluation of the program as a whole:

а	Did the topics	selected	cover all	important	genecte	of the	enecialty?
cı,	Did inc tobics	Seferien	Cover an	mnoortant	aspects	or me	SDECIALLY?

b. Have you received handouts of all the sessions?

c. Did the sessions help in improvement of your understanding?

d. Was there adequate time for discussion?

e. Do you think there is need for regular workshops of this type in future? Yes/No If yes, how often? 2 Times in a year.

f. Any more techniques you can suggest which can be included in the workshop Cell Freezing,

Yes/No

g. How did you get the information regarding this workshop?

By circulars to your institution -i.

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food	~		
Conduct of workshop			

- i. Any problems faced by you as a participant?
- j. Suggestions for future workshop

Continuous the Some work

Great Job. Mappy to be part of works hop

Date: 24/06/2022

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

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3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory)

SI	Topic	Speaker	Quality	Content	Usefulness
No.	1 2	>			
1	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	Ц	4	4
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	4	И	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	T	5	L
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	4	4	4
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.:	Metasystems solutions for FISH	Dr. Lakshman Kumar B	Y	U	Ч
8,	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	u	ů	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	, U	u	4
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	u	U	y
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	u	u	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	2	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	u	S	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

1.5		20			(in)
17.	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B		,,	
	2) Harvesting and banding		4	4	4
	3) Karyotyping	Mr. Manju HC		ATT.	
	4) FISH	980	9	4	4
18.	Hands-on session - Module 2: Molecular Biology & Diagnostics				
	DNA isolation from blood	Ms. Anju Srinivas	4	u	4
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	u	u	V
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	Ы	U	C
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	ч	ч	4
19.	Hands-on session – Module 3: Cell biology			1//	
	Mammalian cell culture Cell counting	Mr. Adel Mohammed Saleh	4	V	ti 7
	Subculturing Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	u	U a	4
20.	Hands-on session - Module 4: Gene expression stu	idies			
	1) RNA isolation & quality check	Ms. Anju Srinivas	4	4	4
26	2) cDNA synthesis	Ms. Vaibhavishree M	u	Q	ù
	3) Quantitative real time PCR	Ms. Deepthi V	u	U	u
	4) Data analysis	Ms. Supriya B	u	Q	u
		Mr. Anshu Kumar Yadav	u	U	Y
	4. Evaluation of the program as a w	hole:			
	a. Did the topics selected cover	all important aspects of the spe	cialty?	Yes/N	o
	b. Have you received handouts	of all the sessions?		Yes/N	Го
	·	ovement of your understanding	?	Yes/N	lo **
	* *	•			

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
e.	Do you think there is need for regular workshops of this type in future	?
	Yes/No If yes, how often? Every year (or	nce in year)
f.	Any more techniques you can suggest which can be included in the wo	orkshop .
S II	Immunocytochamistry and ELISA	H

g. How did you get the information regarding this workshop?

By circulars to your institution

Invitation by organizers

Internet / Institution website/ social media
Any other Friends

	Excellent	Satisfactory	Not satisfactory
Registration	<u></u>		
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

- 12M

j. Suggestions for future workshop

Kindy organize at least two weeks.

Date: 24/06/2022

Ambarisha Chabbi

Name and Signature

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

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- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	· v	:1			
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	3
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	34
4.	Basics of Primer Designing	Dr. Akila Prashant,	4	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	3	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	3	3	3
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	7	3	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	3	4	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	4	4	3
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	4	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	3	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	4	3

	Culture set-up Ms.Supriya B						
	2) Harvesting and banding	Maisaphya B	5	5	5		
	3) Karyotyping	Mr. Manju HC					
	4) FISH		5	5	5		
8.	Hands-on session - Module 2: Molecular Biology	y & Diagnostics	I	L			
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	5		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	na	na	na		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	na	na	na		
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	4	5	5		
9.	Hands-on session – Module 3: Cell biology						
	Mammalian cell culture	Mr. Adel Mohammed Saleh	3	3	2		
	2) Cell counting			5	× 3		
	3) Subculturing						
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	3	4	5		
0.	Hands-on session – Module 4: Gene expression studies						
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5		
	2) cDNA synthesis	Ms. Vaibhavishree M					
	3) Quantitative real time PCR	Ms. Deepthi V					
	4) Data analysis	Ms. Supriya B	5	5	5		
		Mr. Anshu Kumar Yadav	7	5	5		

a.	Did the topics selected cover all important aspects of the specialty?	Yes/ No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/ No
d.	Was there adequate time for discussion?	Yes/ No
_	Do you think there is need for neverlen would be a of this type in feture?	

Do you think there is need for regular workshops of this type in future?

If yes, how often? Once every year

f. Any more techniques you can suggest which can be included in the workshop

Mass spectroscopy, silver staining, Immunohistochemistry,

g. How did you get the information regarding this workshop?

By circulars to your institution

Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food	/		
Conduct of workshop	/		

- i. Any problems faced by you as a participant?
- j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature



Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

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Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. Content: In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

SI	Topic	Speaker	Quality	Content	Usefulness
No.	W)				
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	4	4
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	3	4	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	4	4
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	4	4
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	4	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	G 5	4	4
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	4	4	4
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	4	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	4	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	4	4	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	4	4.	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	4	4

7	Hands-on session - Module 1: Cytogenetics	Fi			54	
	1) Culture set-up	Ms.Supriya B				
	2) Harvesting and banding	Thousand the second sec	5	5	5	
1	3) Karyotyping	Mr. Manju HC				
	4) FISH		5	5	5	
	Hands-on session - Module 2: Molecular Biology &	Diagnostics				
	DNA isolation from blood	Ms. Anju Srinivas	5	_		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	-	5	5	
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	6	5	-6	
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	7	0	-	
ŝ	Hands-on session – Module 3: Cell biology					
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh				
	2) Cell counting		5	5	= 5	
	3) Subculturing					
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5	
)	Hands-on session - Module 4: Gene expression stud	lies				
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	6	
351	2) cDNA synthesis	Ms. Vaibhavishree M	1	5	-	
	3) Quantitative real time PCR	Ms. Deepthi V	7			
	4) Data analysis	Ms. Supriya B	5	5	5	
		Mr. Anshu Kumar Yadav				
	4. Evaluation of the program as a wh	nole:		1		
< 2	a. Did the topics selected cover a	all important aspects of the spe	cialty?	Yes/N	Го	
	b. Have you received handouts o	of all the sessions?		Yes/N	lo	
	c. Did the sessions help in impro	ovement of your understanding	?	Yes/N	lo .	
	d. Was there adequate time for d	iscussion?		Yes/N	lo	
	e. Do you think there is need for	regular workshops of this type	in future?	*		

Yes/No

If yes, how often? Once in a year f. Any more techniques you can suggest which can be included in the workshop

few Computational Broinformatics techniques and flow cytometry. How did you get the information regarding this workshop? sequencing etc. g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

- i. Any problems faced by you as a participant? None
- j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature
Sai Chautha Mullaguri



JSS Academy of Higher Education & Research JSS Medical College Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.

2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.

3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.		3			
1	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4000	4	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	Excellent	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	Excellent	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	FXCellut	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	4	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	5	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	4	4	4
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	4	4	4
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	9	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	4	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	4	5	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	4	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	4	4

17.	Hands-on session - Module 1: Cytogenetics							
	1) Culture set-up	Ms.Supriya B						
	2) Harvesting and banding		4	4	4			
	3) Karyotyping	Mr. Manju HC						
77	4) FISH		5	5	5			
18.	Hands-on session - Module 2: Molecular Biology	& Diagnostics	ļ					
	1) DNA isolation from blood	Ms. Anju Srinivas		~				
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	1	d	1.			
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	a T	7	7			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	2	-				
19.	Hands-on session - Module 3: Cell biology		3	<u> </u>				
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh		1	лt			
	2) Cell counting		4	4	· 4			
	3) Subculturing		معل من					
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5**	5 张称			
20.	Hands-on session - Module 4: Gene expression stu	ıdies	-					
	1) RNA isolation & quality check	Ms. Anju Srinivas		5	4			
	2) cDNA synthesis	Ms. Vaibhavishree M	-	-	7			
	3) Quantitative real time PCR	Ms. Deepthi V	7	7	3			
	4) Data analysis	Ms. Supriya B	1	4	4			
		Mr. Anshu Kumar Yadav	5	5	5			
	4. Evaluation of the program as a w	hole:		/				

a.	Did the topics se	lected cover al	l important aspects	of the specialty?
----	-------------------	-----------------	---------------------	-------------------

Yes/No

b. Have you received handouts of all the sessions?

Yes/No

c. Did the sessions help in improvement of your understanding?

VociNic

d. Was there adequate time for discussion?

Yes/No

e. Do you think there is need for regular workshops of this type in future?

YPE/NI

If yes, how often? 6th month ance

.10:

f. Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

- i. By circulars to your institution
- ii. Invitation by organizers
- iii. Internet / Institution website/ social media
- iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	5	Ø	
Food			
Conduct of workshop			

i. Any problems faced by you as a participant? \nearrow

j. Suggestions for future workshop

Kindry conduct the workshop on animal handling and drug dosoners & other procudures.

I hankyon.

Date: 24/06/2022

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques" June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

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- 3. Usefulness to you: In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

TULUUTIOL	10 10 -1				
Grade:	5	4	3	2	1
		(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	7	9			
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	#4	4	4.
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	4	4	4
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5'
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	\$5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	5	6
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	3	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	4	4
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	4	4	4
11	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	ч	И
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	4	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5'	6	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15,	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	6	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	5	5

1) Culture set-up	Ms.Supriya B					
2) Harvesting and banding		4	4	4		
3) Karyotyping	Mr. Manju HC					
4) FISH		4	ч	4		
Hands-on session - Module 2: Molecular Biology	& Diagnostics	1				
DNA isolation from blood	Ms. Anju Srinivas	5	5	5		
2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	4	4	4		
3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	4	» 4	4		
4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	4	4	4		
Hands-on session – Module 3: Cell biology	Hands-on session - Module 3: Cell biology					
1) Mammalian cell culture	Mr. Adel Mohammed Saleh					
2) Cell counting		4 4 4	4	4		
3) Subculturing						
4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	4	4	4		
D. Hands-on session – Module 4: Gene expression st	udies	1				
1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	15		
2) cDNA synthesis	Ms. Vaibhavishree M					
3) Quantitative real time PCR	Ms. Deepthi V					
4) Data analysis	Ms. Supriya B	a	•	2		
	Mr. Anshu Kumar Yadav	·				
4. Evaluation of the program as a v	vhole:					
	all important aspects of the spe	aia1tzz?	Yes/N			
		ciaith !	,			
b. Have you received handouts	of all the sessions?		Yes/N	O		

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Xes/No
d.	Was there adequate time for discussion?	Yes/No
e.	Do you think there is need for regular workshops of this type in futu	ire?
	Yes/No If yes, how often?	
f.	Any more techniques you can suggest which can be included in the NGS?	workshop

- g. How did you get the information regarding this workshop?
 - i. By circulars to your institution
 - ii. Invitation by organizers
 - iii. Internet / Institution website/ social media

iy. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	/		
Food	V		
Conduct of workshop			

i. Any problems faced by you as a participant?

None at all.

j. Suggestions for future workshop

An amazing Good shop.
THANK YOU SO MUCH.

Date: 24/06/2022

Name and Signature

Medha

anggestion

MEDHA .

Privide unto amallu groups emd herre no many stations. En > & groups of 6 members each.

2) Angle demonstrator for the whole all the groups. soften them

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques" June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

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Grade: 5 (Satisfactory) (Not Satisfactory) (Good) (Excellent) (V. Good)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.					
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	2	3	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	4	4	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	4	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel	Dr. Gopinath		4	1
	therapeutics for skin diseases	Meenakshisundaram,	4	4	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

17.	Hands-on session - Module 1: Cytogenetics							
	1) Culture set-up	Ms.Supriya B	1		1			
	2) Harvesting and banding	112.5dpiiya B	5	5	5			
	3) Karyotyping	Mr. Manju HC						
- 0	4) FISH		A	5	5			
8.	Hands-on session - Module 2: Molecular Biology & Diagnostics							
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5			
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar			70			
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	42	4	5			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	,		الا			
9.	Hands-on session – Module 3: Cell biology							
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh						
	2) Cell counting	**	4	4	4			
	3) Subculturing							
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	4	5	5-			
) _{.,,}	Hands-on session – Module 4: Gene expression studies							
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5			
	2) cDNA synthesis	Ms. Vaibhavishree M	4	4	4			
	3) Quantitative real time PCR	Ms. Deepthi V						
	4) Data analysis	Ms. Supriya B	5	5	5-			
		Mr. Anshu Kumar Yadav	4	4	5			

aluation of the program as a whole:

a. Did the topics selected cover all important aspects of the specialty? Yes/No b. Have you received handouts of all the sessions? Yes/No Did the sessions help in improvement of your understanding? Was there adequate time for discussion? Yes/No

e. Do you think there is need for regular workshops of this type in future?

Yes/No If yes, how often? One in every 6 months

Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

Jii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	/		
Food	VVV		
Conduct of workshop			

i.	Any problems	faced	by you	as a	participant?
----	--------------	-------	--------	------	--------------

NO

j. Suggestions for future workshop

Date: 24/06/2022

Suggestions for future workshop
Wonduful harm and excellent group/him work,
80 pretty much everything was PERFECT!

Reallika.*
Name and Signature

M. KRUTHIKA

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques" June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

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Evaluation is to be done using the scale outline below: -

Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	*	ā			
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	4
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	5	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	4
6,	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	5	5
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel	Dr. Gopinath	5	5	5
	therapeutics for skin diseases	Meenakshisundaram,		- 8	
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	5	5

	1) Culture set-up	Ms.Supriya B						
	2) Harvesting and banding		5	5	5			
	3) Karyotyping	Mr. Manju HC	_					
	4) FISH		5	5	2			
•5	Hands-on session - Module 2: Molecular Biology	& Diagnostics			1			
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5			
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	4	5			
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	5	5	5			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5			
).:	Hands-on session - Module 3: Cell biology							
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh						
	2) Cell counting	-	5	4	3 5			
	3) Subculturing							
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5			
),.;	Hands-on session – Module 4: Gene expression studies							
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	4	5			
	2) cDNA synthesis	Ms. Vaibhavishree M	5	4	5			
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	4			
	4) Data analysis	Ms. Supriya B	5	5	4			
		Mr. Anshu Kumar Yadav	5	5	5			
	4. Evaluation of the program as a v	vhole:						
		all important aspects of the spe	cialty?	Yes/N	0			
				2 20/1	-			

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
e.	Do you think there is need for regular workshops of this type in future?	
	Yes/No If yes, how often? Quarkely	
f.	Any more techniques you can suggest which can be included in the workshop	
	NA.	9

g. How did you get the information regarding this workshop?

By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			·
Food	~		
Conduct of workshop			

i.		blems faced by yo						
	NO	problems.	The	gentehow	was	oganized	nesh	well

j. Suggestions for future workshop

Any workshop roclated to biochemistry. Also, on clinical suscarch would be helpful.

Date: 24/06/2022

Name and Signature

AMITH BHARADWAS. S.A

mit

JSS Academy of Higher Education & Research JSS Medical College Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

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Grade: 5 (Satisfactory) (Not Satisfactory) (Good) (V. Good) (Excellent)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	÷	*			
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	3
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	4	3
3,	RNA interference and its applications	Dr. Prasanna Kumar S,	5	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	4	4
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	5	5
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	4	3
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	3	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	4	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	3	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	4	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

17.	Hands-on session – Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B			
	2) Harvesting and banding		5	5	5
	3) Karyotyping	Mr. Manju HC			
	4) FISH				
18.	Hands-on session – Module 2: Molecular Biology &	Diagnostics			7
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	-
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar			
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	. 5	3
19.	Hands-on session – Module 3: Cell biology				
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	1		
	2) Cell counting		5	5	5
	3) Subculturing			0	2
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5
20.	Hands-on session - Module 4: Gene expression stud	ies			
	RNA isolation & quality check	Ms. Anju Srinivas	5	4	4
	2) cDNA synthesis	Ms. Vaibhavishree M			,
	3) Quantitative real time PCR	Ms. Deepthi V			
	4) Data analysis	Ms. Supriya B	5	4	5
		Mr. Anshu Kumar Yadav	5	. 5	3
	4. Evaluation of the program as a wh	ole:	12	/	1.1
	a. Did the topics selected cover a	ll important aspects of the spec	ialty?	Yes/N	o
	b. Have you received handouts of	f all the sessions?		Yes/N	O
	c. Did the sessions help in impro	vement of your understanding?		Yes/N	
	d. Was there adequate time for di	iscussion?		Yes/N	Ю
	e. Do you think there is need for	regular workshops of this type	in future?	10.1	
	Yes/No If yes, how	often? 3 Months			

g. How did you get the information regarding this workshop?

f. Any more techniques you can suggest which can be included in the workshop

i. By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

- i. Any problems faced by you as a participant?
- j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature

DAMINI. C. S

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

SI	Topic	Speaker	Quality	Content	Usefulness
No.		4			
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	4	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	4	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	4	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	4	5
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	3	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	27	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	4	4

7.	Hands-on session – Module 1: Cytogenetics				2:		
80							
	1) Culture set-up	Ms.Supriya B	5	5	5		
	2) Harvesting and banding						
	3) Karyotyping	Mr. Manju HC		3-	+		
- 51	4) FISH		5	5	5		
18.	Hands-on session - Module 2: Molecular Biology &	& Diagnostics					
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	5	1	5		
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5		
19.	Hands-on session - Module 3: Cell biology						
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh	4		Ι,		
	2) Cell counting	,	- 1	4	- 4		
	3) Subculturing						
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	-5	5		
20.	Hands-on session – Module 4: Gene expression stu	dies					
	RNA isolation & quality check	Ms. Anju Srinivas	5	5	5		
100	2) cDNA synthesis	Ms. Vaibhavishree M	5	5			
	3) Quantitative real time PCR	Ms. Deepthi V	7		5		
	4) Data analysis	Ms. Supriya B	5	5	5		
		Mr. Anshu Kumar Yadav	2	5	5		
	4. Evaluation of the program as a w						
	Programme of the Brazil and a 11						
	a. Did the topics selected cover	all important aspects of the spe	cialty?	Yes/N	lo		
	b. Have you received handouts	of all the sessions?		Yes/N	lo		
	c. Did the sessions help in impre	ovement of your understanding	?	Yes/N	lo "		
	d. Was there adequate time for o	•		Xes/N			
	a do more adequate mile for (mioodosion:		V1 C3/1			

ι.	Did the topics selected cover an important aspects of the specialty?	res/10		
Э.	Have you received handouts of all the sessions?	Xes/No		
ο,	Did the sessions help in improvement of your understanding?	Xes/No		
đ.	Was there adequate time for discussion?	Xes/No		
Э.	Do you think there is need for regular workshops of this type in future?			
	Yes/No If yes, how often?			
f.	Any more techniques you can suggest which can be included in the workshop			
		35		
œ.	How did you get the information regarding this workshop?	2		

j. By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

Satisfied!!!!

j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature



Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

 Evaluation is to be done using the scale outline below:

Lvaluation	13 to be done	abilib me semie			
Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.					
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	3	_3
8,	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel	Dr. Gopinath	8	5	5
	therapeutics for skin diseases	Meenakshisundaram,)
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

7.	Hands-on session – Module 1: Cytogenetics				·			
	1) Culture set-up	Ms.Supriya B						
	2) Harvesting and banding	F7	5	5	5			
	3) Karyotyping	Mr. Manju HC						
.	4) FISH							
3.5	Hands-on session - Module 2: Molecular Biology	& Diagnostics						
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5			
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	U					
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar						
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5			
,,,	Hands-on session – Module 3: Cell biology							
Ī	1) Mammalian cell culture	Mr. Adel Mohammed Saleh			Ï			
	2) Cell counting		5	5	* 5			
	3) Subculturing							
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5			
).	Hands-on session – Module 4: Gene expression studies							
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5			
-	2) cDNA synthesis	Ms. Vaibhavishree M	4-	T -	45 -			
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5			
	4) Data analysis	Ms. Supriya B	5	5	5			
		Mr. Anshu Kumar Yadav	5	5	8			
	4. Evaluation of the program as a w	hole:			7			
	a. Did the topics selected cover	all important aspects of the spec	cialty?	Yes/N	0			
	b. Have you received handouts	of all the sessions?		Yes/N	Ю			
	c. Did the sessions help in impr	ovement of your understanding	?	Yes/N	lo			
	d. Was there adequate time for	discussion?		Yes/N	Го			

Do you think there is need for regular workshops of this type in future?

If yes, how often? Once every 4 months

f. Any more techniques you can suggest which can be included in the workshop

LCMS (MS, MABL training

g. How did you get the information regarding this workshop?

By circulars to your institution

Invitation by organizers

iii. Internet / Institution website/ social media

Any other

	Excellent	Satisfactory	Not satisfactory
Registration			46
Food			
Conduct of workshop			

i	Any proble	ms faced	by you	as a	narticipar	ıt?
1.	Ally proble	ms racea	Uy you	uo u	participat	

j. Suggestions for future workshop

Kindly conduct more such workshop

Northy

Ar Northy

Name and Signature

Date: 24/06/2022

JSS Academy of Higher Education & Research JSS Medical College Department of Medical (

Department of Biochemistry & Department of Medical Genetics Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
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- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

valaation	10 00 00 00110	0.010			
Grade:	5	4	3	2	1
		(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory)

Content

Quality

Usefulness

SI	Topic	Speaker	Quality	Content	Useruiness
No.		i i			
19	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	Good	Good	Salixfactor
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	93	3	2-
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	3	3	2_
4.	Basics of Primer Designing	Dr. Akila Prashant,	4	5	5/408)
5	Basics of Real-time PCR	Dr. Rajeshkumar T,	3	3	2
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	3	3	2
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	3	2
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	3	3	2
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	3	3	2_
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	4	4	4
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	H	4	4
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	3	3	3
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	3	4	3
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	3	4	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	3	3	3
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	3	3	3

17.	Hands-on session - Module 1: Cytogenetics				
	1) Culture set-up	Ms.Supriya B			
	2) Harvesting and banding		3	3	3
	3) Karyotyping	Mr. Manju HC			
	4) FISH		3	3	3
18.	Hands-on session - Module 2: Molecular Biology	& Diagnostics			781
	DNA isolation from blood	Ms. Anju Srinivas	3	3	13
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	3	3	3
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	3	2	2
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	2-	2	2
19.	Hands-on session – Module 3: Cell biology				
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh			
	2) Cell counting	,	2	2	-2_
	3) Subculturing				
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	3	3	3
20.	Hands-on session - Module 4: Gene expression str	udies			
	1) RNA isolation & quality check	Ms. Anju Srinivas	3	3	3
	2) cDNA synthesis	Ms. Vaibhavishree M	3	3	3
	3) Quantitative real time PCR	Ms. Deepthi V	3	2	2
	4) Data analysis	Ms. Supriya B	3	2	3
		Mr. Anshu Kumar Yadav	3	3	3

	A STATE OF THE STA	
a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Vec/No

e. Do you think there is need for regular workshops of this type in future?

Yes/No If yes, how often? Continuous im prove He

f. Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

- NO -

j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature

 $\mathbb{E} \times \mathbb{F}_{p}$

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022 Organized Under DST STUTI Scheme

FEEDBACK

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- 3. Usefulness to you: In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -Grade: 5 (Satisfactory) (Not Satisfactory) (V. Good) (Good) (Excellent)

SI	Topic	Speaker	Quality	Content	Usefulness
No.	P				
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	4	5	4
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	S	4	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5-	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	5	5	3
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	*
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	4	3
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	~	5	8-
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	4
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

17.	Hands-on session – Module 1: Cytogenetics						
	1) Culture	set-up	Ms.Supriya B				
	2) Harvest	ing and banding		5	2	X	
	3) Karyoty	ping	Mr. Manju HC				
70	4) FISH			5	1	1 ×	
8.	Hands-on se	ession – Module 2: Molecular Biolog	y & Diagnostics	·			
	1) DNA is	olation from blood	Ms. Anju Srinivas	5	5	4	
	2) ARMS	PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5	
	3) DNA is	olation from bacteria	Mrs. Nishitha R Kumar				
	4) 16SrDN	IA PCR	Mr. Mohammed Kaleem Ullah	5	4	4	
19.	Hands-on se	ession - Module 3: Cell biology	-			1_/	
	1) Mamma	lian cell culture	Mr. Adel Mohammed Saleh				
	2) Cell cou	inting		5	4	" 5	
	3) Subcult	uring					
	4) Collecti	on of protein lysates & Western blot	Mr. Anshu Kumar Yadav		50		
20.	Hands-on s	ession – Module 4: Gene expression	studies				
	1) RNA is	olation & quality check	Ms. Anju Srinivas	5	4	5	
	×	ynthesis	Ms. Vaibhavishree M				
		ative real time PCR	Ms. Deepthi V				
	4) Data an	alysis	Ms. Supriya B	4	5	4	
			Mr. Anshu Kumar Yadav	ļ:			
	4.	Evaluation of the program as a	whole:		./		
		a. Did the topics selected cov	er all important aspects of the spec	ialty?	Yes/N	Лo	
		b. Have you received handour	ts of all the sessions?		Yes/I	Vo.	
		c. Did the sessions help in im	provement of your understanding?		Yes/I	No	
		d. Was there adequate time for			Yes/N	No	
			for regular workshops of this type	in future?			
		- 20 Journal more is flood	101 10Emm Morronobs of mis type	in tutulo:			
		Yes/No If yes, h	ow often? Yearly pls. 20	matate.			

g. How did you get the information regarding this workshop?

i. By circulars to your institution

2) on variant to your montation

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other - Menage from Consultant Dr. 1. Abisheld

Add. Prof.
Dept. o Transfusion Redicine,
JIMPER - Puducherry

	Excellent	Satisfactory	Not satisfactory
Registration			
Food	/		
Conduct of workshop			

i. /	Any pro	blems	faced	by you	as a	participa	nt?
------	---------	-------	-------	--------	------	-----------	-----

Nothing to Command, (Well organised)

Suggestions for future workshop

- Powerpoint presentations if shoved will be helpful.

Date: 24/06/2022



Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques" June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

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- 2. Content: In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. Usefulness to you: In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•			
Grade:	5	4	3	2	1
_	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	*				
1	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	3	ц	3
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	1	3	3
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	ц
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	3	3	2
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	2	2	2
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	3	3	3
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	ч	Ч	3
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	\$ 4	ц	3
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	1	2	2
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	3	4	3
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	4
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	3	3	2

			quality	content	wefulrer			
17,	Hands-on session – Module 1: Cytogenetics							
	1) Culture set-up	Ms.Supriya B						
	2) Harvesting and banding	,		.71				
	3) Karyotyping	Mr. Manju HC						
	4) FISH		i.l	5	3			
18.	Hands-on session – Module 2: Molecular Biology	& Diagnostics						
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	1 -			
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5			
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	5	5	4			
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	3					
9.	Hands-on session - Module 3: Cell biology							
	Mammalian cell culture	Mr. Adel Mohammed Saleh						
	2) Cell counting	,	3	4	= 3			
	3) Subculturing							
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	3	4	3			
0.	Hands-on session – Module 4: Gene expression studies							
	RNA isolation & quality check	Ms. Anju Srinivas	5	5	5			
	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5			
	3) Quantitative real time PCR	Ms. Deepthi V			1			
	4) Data analysis	Ms. Supriya B	5	5	5			
	2	Mr. Anshu Kumar Yaday						

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Ye3/No
e.	Do you think there is need for regular workshops of this type in future?	
	Yes/No If yes, how often?	
f.	Any more techniques you can suggest which can be included in the workshop	
		*
g.	How did you get the information regarding this workshop?	0.0

i.

ii.

iii.

(iv.)

By circulars to your institution

Internet / Institution website/ social media

Invitation by organizers

Any other

	Excellent	Satisfactory	Not satisfactory
Registration	*		
Food	×		
Conduct of workshop	×		

i. Any problems faced by you as a participant?

j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature

-overall, the workshop were incredibly well-designed and executed.

thank you all for putting in so much time to effort to
make this an informative to high-yield experience!



Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

- 1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.
- 2. Content: In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.
- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context. Evaluation is to be done using the scale outline below: -

Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.					
l _w	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	S	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3,	RNA interference and its applications	Dr. Prasanna Kumar S,	4	4	4
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	4	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	4	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	2-	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	-2	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	4.
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	2	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	2.5	5	2
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

·.	Hands-on session - Module 1: Cytogenetics				
			-411		
	1) Culture set-up	Ms.Supriya B	5		5
	2) Harvesting and banding		3	5	2
	3) Karyotyping	Mr. Manju HC		Pro-	
747	4) FISH		5	2	5
8.	Hands-on session – Module 2: Molecular Biolog	gy & Diagnostics	AL-		
ĺ	DNA isolation from blood	Ms. Anju Srinivas	_	5	5
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	(,	¥.	U
Ì	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar		4	4
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	u	u	4
9.	Hands-on session – Module 3: Cell biology		1 4	_ 4	4
	Mammalian cell culture	Mr. Adel Mohammed Saleh			31
	2) Cell counting	and the same and t	4	4	=4
	3) Subculturing				
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	2-	5
0.	Hands-on session – Module 4: Gene expression				
٠.	RNA isolation & quality check	Ť		·	
- 11		Ms. Anju Srinivas	5	5	5
	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5
	4) Data analysis	Ms. Supriya B	-	5	5
		Mr. Anshu Kumar Yadav	5	5	S
	4. Evaluation of the program as a	whole:			
	a. Did the topics selected cov	ver all important aspects of the spe	cialty?	Yes/N	No
	b. Have you received handou	ts of all the sessions?		Yes/N	Vo
	c. Did the sessions help in in	provement of your understanding	?	Yes/N	No .
	d. Was there adequate time for	or discussion?		Yes/N	No
	e. Do you think there is need	for regular workshops of this type	in future?	*11	

a. Did the topics selected cover all important aspects of the specialty?

b. Have you received handouts of all the sessions?

c. Did the sessions help in improvement of your understanding?

d. Was there adequate time for discussion?

e. Do you think there is need for regular workshops of this type in future?

Yes/No

If yes, how often?

Any more techniques you can suggest which can be included in the workshop

Molecular Docking techniques

g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

Internet / Institution website/ social media

iv.

Any other

	Excellent	Satisfactory	Not satisfactory
Registration	/		
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

a NO

j. Suggestions for future workshop

No more suggestion

its good.

Date: 24/06/2022

Name and Signature

JSS Academy of Higher Education & Research JSS Medical College Department of Biochemistry & Department of Medical Genetics Llands On Workshop on

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

1. Quality of presentation: In evaluating quality, please take into account speed and style of delivery of speech and quality of slides, besides other characteristics that appeal to you.

2. **Content:** In evaluating the content, please consider whether the material presented was factual, relevant, and up-to-date.

3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	7	4,7			
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	21	4 1/2	41/2
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	A	21 1/2	41/2
4.	Basics of Primer Designing	Dr. Akila Prashant,	5+	5+	5.4
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	41/2	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	4	4	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	41/2
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	414	11/2
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	312	3 12	4
11,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	41	4	Z ₁
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	4.
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5.	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	21	4	4

17,	Hands-on session – Module 1: Cytogenetics						
	1) Culture set-up	Ms.Supriya B		011			
	2) Harvesting and banding		312	34	3		
	3) Karyotyping	Mr. Manju HC	a.	0			
	4) FISH		54	5+	5++		
18.	Hands-on session - Module 2: Molecular Biology	& Diagnostics					
	1) DNA isolation from blood	Ms. Anju Srinivas	44	412	44		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	412	411/2	412		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	412	21th	412		
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	-414	41/2	414		
19.	Hands-on session – Module 3: Cell biology						
	Mammalian cell culture	Mr. Adel Mohammed Saleh					
	2) Cell counting						
	3) Subculturing		1 1	416	41/5		
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	Lith	1112	4112		
20,	Hands-on session – Module 4: Gene expression stu	idies		-			
	RNA isolation & quality check	Ms. Anju Srinivas	2	4	4		
	2) cDNA synthesis	Ms. Vaibhavishree M	4	5	5		
	3) Quantitative real time PCR	Ms. Deepthi V	4	4	Ч		
	4) Data analysis	Ms. Supriya B	的學多	3	3		
		Mr. Anshu Kumar Yadav	5	y	Y		
	4. Evaluation of the program as a w	hole:					
	a. Did the topics selected cover	all important aspects of the spec	ialty?	Yes/N	o		
	b. Have you received handouts	of all the sessions?		Yes/N	0		
	c. Did the sessions help in impr	ovement of your understanding?		Yes/N	0		
	d. Was there adequate time for	discussion?		Yes/N	5		
	e. Do you think there is need for	or regular workshops of this type	in future?	8.			
		w often? Such 3		ntho			
	f Any more techniques you are	n avagagt which can be included	in the more	ahan			
	More Mo	Lewlar Techni	rues,	. & Pn	steo		
	g. How did you get the informa	tion regarding this workshop?		34	0410		

i.

ii.

iii.

iv. Any other

By circulars to your institution

Internet / Institution website/ social media

Friend's forward messages

Invitation by organizers

	Excellent	Satisfactory	Not satisfactory
Registration		1	
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

No problems

j. Suggestions for future workshop

NA

Date: 24/06/2022

Name and Signature

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

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- 3. **Usefulness to you:** In evaluating the usefulness, please consider whether you learned anything now and whether you can use it in the Indian context.

Evaluation is to be done using the scale outline below: -

Grade:	5	4	3	2	1
	(Excellent)	(V. Good)	(Good)	(Satisfactory)	(Not Satisfactory

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	2.				
1.	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	岁	3
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	-5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	4	3	3
4	Basics of Primer Designing	Dr. Akila Prashant,	4	4	4
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	4
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	4	4	4
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	3	2	2
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	4	4	4
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11,,	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	4	4	4
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	4	4	4
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5-
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	4	4	5

17.	Hands-on session - Module 1: Cytogenetics				
17.					
	1) Culture set-up	Ms.Supriya B	, _		, =
	2) Harvesting and banding		5	5	5
÷	3) Karyotyping	Mr. Manju HC			
	4) FISH		5	5	5
8.	Hands-on session – Module 2: Molecular Biology	& Diagnostics			
	1) DNA isolation from blood	Ms. Anju Srinivas	5	5	5-
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	4	4
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	4	4	4
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5-	5	s-
9,,	Hands-on session – Module 3: Cell biology		_ >		
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh			
	2) Cell counting	_	5	5	5-
	3) Subculturing				
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5 ,	5
20,	Hands-on session - Module 4: Gene expression st	udies			
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5
	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5 -
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5-
	4) Data analysis	Ms. Supriya B	5	5-	4
	G G 5	Mr. Anshu Kumar Yadav	5	5-	4.

iuation of the program as a whole:

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	Yes/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
e.	Do you think there is need for regular workshops of this type in future?	"
	4	

If yes, how often? Twice in an year.

f. Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

By circulars to your institution

ii. Invitation by organizers

iii. Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration	<u></u>		
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

There was no pristen faced as the participant, its was infact quite smooth conduct.

j. Suggestions for future workshop

ZOYA SHAIKH.

Name and Signature

Date: 24/06/2022

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

Organized Under DST STUTI Scheme

FEEDBACK

Evaluation is to be done to assess

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Grade: 5 4 3 2 1
(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	*	IT			
1,,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7.	Metasystems solutions for FISH	Dr. Lakshman Kumar B	5	5	5-
8,:	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel therapeutics for skin diseases	Dr. Gopinath Meenakshisundaram,	5	5	5
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

	Culture set-up Harvesting and banding	Ms.Supriya B	8	5	55		
	3) Karyotyping 4) FISH	Mr. Manju HC	5	5	5		
8.	Hands-on session – Module 2: Molecular Biology	& Diagnostics					
	DNA isolation from blood	Ms. Anju Srinivas	8	\$	5		
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar	5	5	5		
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	199				
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5		
9.	Hands-on session – Module 3: Cell biology						
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh					
	2) Cell counting				2.5		
	3) Subculturing4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav	5	5	5		
0.	Hands-on session - Module 4: Gene expression studies						
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5		
	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5		
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5		
	4) Data analysis	Ms. Supriya B	\$	5	5		
		Mr. Anshu Kumar Yadav	5	5	5		
_	4. Evaluation of the program as a v						

a.	Did the topics selected cover all important aspects of the specialty?	Yes/No
b.	Have you received handouts of all the sessions?	¥es/No
c.	Did the sessions help in improvement of your understanding?	Yes/No
d.	Was there adequate time for discussion?	Yes/No
e.	Do you think there is need for regular workshops of this type in future?	
	Yes/No If yes, how often?	
f.	Any more techniques you can suggest which can be included in the workshop	W
g.	How did you get the information regarding this workshop?	2

i.

ii.

.ننز

iv.

By circulars to your institution

Internet / Institution website/ social media

Invitation by organizers

Any other

	Excellent	Satisfactory	Not satisfactory
Registration	5		
Food	5.		
Conduct of workshop	5		

- i. Any problems faced by you as a participant?
- j. Suggestions for future workshop

Date: 24/06/2022

M. Mahala Kshm,

Name and Signature

Hahlush
24/6/2021

Department of Biochemistry & Department of Medical Genetics

Hands-On Workshop on

"Cytogenetics, Cell & Molecular Biology Techniques"

June 18th to 24th 2022

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Grade: 5 4 3 2 1

(Excellent) (V. Good) (Good) (Satisfactory) (Not Satisfactory)

Sl	Topic	Speaker	Quality	Content	Usefulness
No.	· ·	10			
1,	Introduction to Cytogenetics	Dr. P.V.V. Gowri Sairam,	5	5	5
2.	Good Cell Culture Practice	Dr. Divya Prasannakumar,	5	5	5
3.	RNA interference and its applications	Dr. Prasanna Kumar S,	5	5	5
4.	Basics of Primer Designing	Dr. Akila Prashant,	5	5	5
5.	Basics of Real-time PCR	Dr. Rajeshkumar T,	5	5	5
6.	Application of cell-based assays in drug discovery and development	Dr. Subbarao V Madhunapantula,	5	5	5
7,.,	Metasystems solutions for FISH	Dr. Lakshman Kumar B	5	5	4
8.	Multiplex PCR: Protocol development and applications in medical diagnosis	Dr. D. Devananda,	5	5_	5
9.	Molecular Diagnostic tools & Genetic testing in the field of Clinical Medicine	Dr. Pooja Aggarwal,	5	5	5
10.	Most frequent chromosomal abnormalities in genetic disorders	Ms.Supriya B	5	5	5
11.	Online Tools for NGS data analysis	Mr. Mohammed Kaleem Ullah,	5	5	5
12.	See biology in new ways with single-cell and spatial technologies from 10x Genomics	Dr. Ivonne Petermann	5	5	5
13.	Fundamentals of microscopy	Dr. Vinay Kumar Rao,	5	5	5
14.	Karyotype Analysis	Dr. P.V.V. Gowri Sairam,	5	5	5
15.	MicroRNAs to nanovesicles: Exploration of novel	Dr. Gopinath	5	5	5
	therapeutics for skin diseases	Meenakshisundaram,		-	
16.	Molecular cytogenetics in Genetic Diagnosis	Dr. Jayaram S Kadandale,	5	5	5

					ta .			
17,	Hands-on session – Module 1: Cytogenetics							
	1) Culture set-up	Ms.Supriya B	1	-6				
	2) Harvesting and banding		5	S	8			
	3) Karyotyping	Mr. Manju HC						
	4) FISH							
18.	Hands-on session - Module 2: Molecular Biology & Diagnostics							
	DNA isolation from blood	Ms. Anju Srinivas	5	5	5			
	2) ARMS PCR for mutation analysis	Ms. Sumaiya Kalaigar						
	3) DNA isolation from bacteria	Mrs. Nishitha R Kumar	3					
	4) 16SrDNA PCR	Mr. Mohammed Kaleem Ullah	5	5	5			
19,	Hands-on session - Module 3: Cell biology							
	1) Mammalian cell culture	Mr. Adel Mohammed Saleh						
	2) Cell counting		5	5	× 5			
	3) Subculturing							
	4) Collection of protein lysates & Western blot	Mr. Anshu Kumar Yadav						
20,	Hands-on session – Module 4: Gene expression studies							
	1) RNA isolation & quality check	Ms. Anju Srinivas	5	5	5			
	2) cDNA synthesis	Ms. Vaibhavishree M	5	5	5			
	3) Quantitative real time PCR	Ms. Deepthi V	5	5	5			
	4) Data analysis	Ms. Supriya B	5	5	5			
		Mr. Anshu Kumar Yadav	5	5	5			
	4. Evaluation of the program as a w	hole:						
	a. Did the topics selected cover	all important aspects of the spe	cialty?	Yes/N	o			
	b. Have you received handouts	of all the sessions?		Yes/N	lo .			
	•	- 0						

1.	Did the topics selected cover all important aspects of the specialty?				
э.	Have you received handouts of all the sessions?				
Э.	Did the sessions help in improvement of your understanding? Yes/No				
d.	Was there adequate time for discussion? Yes/N				
e.	Do you think there is need for regular workshops of this type in future?				
	Yes/No If yes, how often?				

f. Any more techniques you can suggest which can be included in the workshop

g. How did you get the information regarding this workshop?

i. By circulars to your institution

ii. Invitation by organizers

iii Internet / Institution website/ social media

iv. Any other

	Excellent	Satisfactory	Not satisfactory
Registration			
Food			
Conduct of workshop			

i. Any problems faced by you as a participant?

No

j. Suggestions for future workshop

Date: 24/06/2022

Name and Signature