
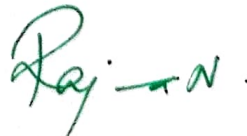


3.5.1. Number of MoUs, collaborations / linkages for Faculty exchange, Student exchange, internship, field trip, on-the-job training, research and other academic activities during the last five years.

Sl. No.	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	List the actual activities under each MOU and web-links year-wise	Link to the relevant document
2017 - 18						
1	Internship	Agriculture College, Navale, Shivamogga	2017	120 Days		
2018-19						
1	Collaboration	KS Hegde Medcial College, Nitte University, Deralakatte, Mangalore	2018	03 years		
2	Faculty Exchange	College of Food Science and Engineering, Oceana University of China, China	2018	1 Year		
3	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
4	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
5	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
6	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
7	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
8	Internship	Central Research Laboratory, KS Hegde Medical Academy, Mangalore	2018	120 Days		
9	Internship	Central Research Laboratory, KS Hegde Medical Academy, Mangalore	2018	120 Days		
2019 - 20						
Null						
2020 -21						
Null						
2021-22						
Null						


Dr. Vittal Rao. K.S
 Dept. of Chemistry
 Sahyadri Science College,
 Shimoga.


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 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka State.



सत्यमेव जयते

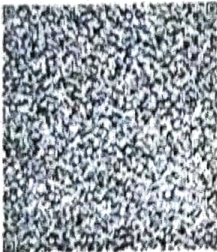
INDIA NON JUDICIAL
Government of Karnataka

e-Stamp

Certificate No.	: IN-KA996546483482380
Certificate Issued Date	: 25-Aug-2016 10:47 AM
Account Reference	: SHCIL (FI)/ ka-sholl/ SHIMOGA/ KA-SM
Unique Doc. Reference	: SUBIN-KAKA-SHCIL495293015690110
Purchased by	: SAHYADRI SCIENCE COLLEGE
Description of Document	: Article 12 Bond
Description	: M o U
Consideration Price (Rs.)	: 0 (Zero)
First Party	: SAHYADRI SCIENCE COLLEGE
Second Party	: MANGALORE INSTITUTE OF ONCOLOGY
Stamp Duty Paid By	: SAHYADRI SCIENCE COLLEGE
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)

For Stock Holding Corporation of India Ltd.


Authorised Signatory



.....Please write or type below this line.....

This memorandum of understanding (herein after referred to as "Agreement") is made and executed on this 14th Oct 2016.

BETWEEN

Sahyadri Science College (SSC), Kuvempu University, Shivamogga 577203, Karnataka, India, Represented by its Principal, Sahyadri Science College (SSC), Kuvempu University, Shivamogga 577203. Hereinafter called as First Party,


AND

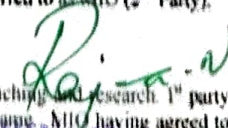
Mangalore Institute of Oncology, Pumpwell, Kankanady, Mangalore.575002, a cancer hospital under the management of M/s Mangalore Institute of Oncology Private Limited incorporated under the Companies Act, 1956 having its registered office at No.225/16(5), Pumpwell, Mangalore-575002 and represented by its Director Dr. Suresh Rao. Herein referred to as MIO (2nd Party).

(Collectively referred to as Parties)

Whereas

First Party is an Autonomous college affiliated to Kuvempu University and is involved in teaching and research. 1st party was on lookout for a collaboration with a cancer hospital for research and approached party II for the same. MIO having agreed to


Dr. Nitish Rao, K.S
Dept. of Chemistry
Sahyadri Science College.


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SHIMOGA, Karnataka State.

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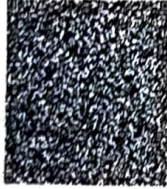


सत्यमेव जयते

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Government of Karnataka

e-Stamp

Certificate No. : IN-KA68454052139710J
 Certificate Issued Date : 12-Apr-2011 01:41 PM
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 Unique Doc. Reference : SUBIN-KAKADOPKC0721152453463946J
 Purchased by : LABLAND BIOTECHS PVT LTD MYSORE
 Description of Document : Article 4 Affidavit
 Description : AFFIDAVIT 195
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : LABLAND BIOTECHS PVT LTD MYSORE
 Second Party : REGISTRAR KUVEMPU UNIVERSITY SHANKARAGHATTA
 Stamp Duty Paid By : LABLAND BIOTECHS PVT LTD MYSORE
 Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



SHIVAMOLLA-HPO
577 201

Please write or type below this line

1. The Parties

This Memorandum of Understanding has been entered into on this 19th day of April, 2011. The parties to this Memorandum of Understanding shall be the following:

- (1) Kuvempu University, here-in-after referred to as KU, with its office at Jnan Sahyadri, Shankaraghatta, Shimoga, Karnataka State, India,

and

[Signature]
Registrar

Kuvempu University 19/4/11
Shankaraghatta-577 451



[Signature]
Principal

PRINCIPAL
SHIVAMOLLA SCIENCE COLLEGE

(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Dr. V. S. K.S.
Dept. of Registrar
Sahyadri Sahyadri
Shimoga.

1. The authenticity of the Stamp Certificate can be verified at Authorized Collection Centers (ACCs), SHCIL Offices and Sub-registrar Offices (SROs).
2. The Contact Details of ACCs, SHCIL Offices and SROs are available on the Web site www.shivamolla.com



- (2) **Labland Biotech Private Limited**, here-in-after referred to as **Labland**, a private limited Company registered under the Indian Companies Act 1956, with its Registered and Administrative Office located at 8th K. M., K. R. S. Main Road, Mysore 570 016, Karnataka State, India

Labland has been recognized by National institutions as well as Universities as a Plant Science and Plant Biotech Company. Labland is a Mysore University-recognized research centre; the research and development unit of the company is recognized by the DSIR, Ministry of Science and Technology, Government India; the tissue culture production facility of the company is recognized by the National Accreditation Agency for Tissue Culture, DBT, Ministry of Science and Technology, Government India; Labland has a number of Government supported R & D projects on Jatropha.

2. Intentions


- i. **Kuvempu University**, being a Karnataka State University wishes to explore collaborative research opportunities in the field of interest to both the parties
- ii. **Labland**, being a Company registered in India under Company Number 08/16040/09.08.1994 is engaged in research and commercial activities on Plant Science and Plant Biotechnology. Labland wishes to explore collaborative research with the KU in the field of Bio-energy, Plant Science and Plant Biotechnology including Jatropha plant science, Jatropha-based Biodiesel production and by-product research.

3. Purpose

The purpose of this Memorandum of Understanding, hereinafter referred to as the "Memorandum", is to confirm the willingness of both the parties to jointly establish a bio-energy park in the land identified by the KU.

WR
Dr. Vittal Rao. K.S
 Dept. of Chemistry
 Sahyadri Science College,
 Shimoga.

JUS
 Registrar
 Kuvempu University
 Shankaraghatta-577 451

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 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka
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4. Agreements

In order to facilitate the successful closure of this Memorandum, the Parties agree as follows:

1. A Bio Energy Park will be established at the college premises of Sahyadri Science College, which is a constituent college of KU, Shimoga in association with Kuvempu University and Labland Biotech Private Limited, Mysore.
2. Jatropha curcas plants will be cultivated in 2 Acres land allocated by the Kuvempu University in the above said premises.
3. In this context, the concerned activities such as land preparation, planting, harvesting, seed processing etc will be carried out by the Department of Botany and Seed Technology of the Sahyadri Science College, Shimoga in association with Labland Biotech Private Limited, Mysore. The expenses to implement and manage the project will be borne by the Kuvempu University, Shimoga.
4. This project shall be complementary to academic development. The bio-energy park will serve as a source of information on bio-energy Project works, cultivation of Jatropha curcas, maintenance of plantation, various stages of pre- and post harvest management, Market and Research related to bio-energy project for the student community.
5. Labland Biotech Private Limited, Mysore will buy-back the seeds produced in the above said premises at a price of Rs. 10,000 per tonne of dry seeds or at a prevailing price whichever is higher.
6. Department of Botany and Seed Technology in association with Labland shall write/submit proposal to obtain research grants from various funding agencies such as the Department of Biotechnology, the Department of Science and Technology, the UGC, and such other national and international agencies or from the state government agencies.

(Signature)

Dr. Vittal Rao S.K.S
 Department of Registration
 Sahyadri Science College,
 Shimoga

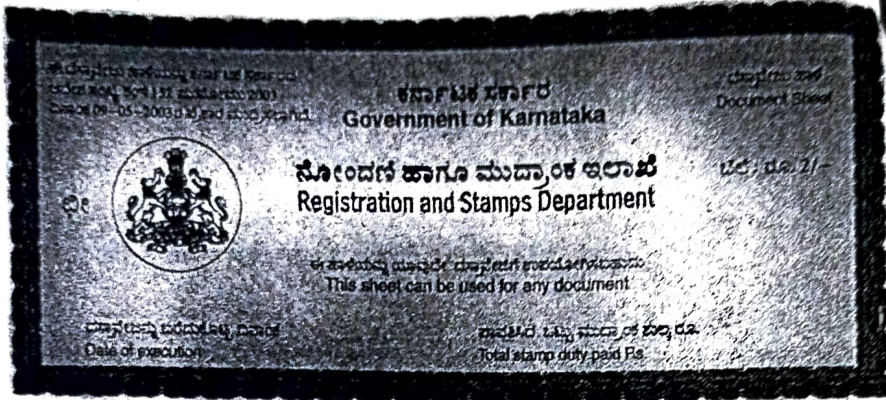
(Signature)
 Registrar

Kuvempu University
 Shankaraghatta-577 451


(Signature)
 Registrar


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 (Constituent College of Kuvempu University)
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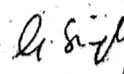



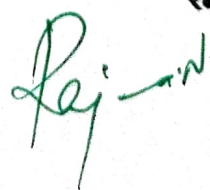


7. Labland shall assist in designing a P.G. Diploma course in the topic related to *Jatropha curcas* and Bio Energy in association with the Department of Botany and Seed Technology. In addition, Labland will also assist in designing the syllabus for the P. G. course with an elective paper.
8. Department of Botany and Seed Technology in association with Labland shall hold workshops/farmer friendly programmes at local and state levels in the related matter to popularize *Jatropha curcas* cultivation in wasted land.
9. Labland shall provide revenue generation model to the Kuvempu University, and also provide training on *Jatropha curcas* cultivation to one or two staff members of the Department of Botany and Seed Technology, Shimoga.
10. All decisions regarding the project implementation, management or cancellation of any matters will vest with the Vice-Chancellor, Kuvempu University, Shimoga.
11. Both the parties agree that the Director, Bio-energy park centre is authorized to decide and take suitable action on the expenditure and income related parameters.
12. The *Jatropha* plantation jointly developed by both the parties would serve as an R & D plot, and demonstration plot of the University, and also would be presented as the *Jatropha*-based Bio-energy Park of the University.
13. Effective Date: This Memorandum shall come into force on the date when both the parties affix their signatures.


 Dr. Vittal Rao. K.S
 Dept. of Chemistry
 Sahyadri Science College,
 Shimoga.


 Registrar
 Kuvempu University
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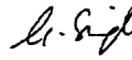
14. Period of Memorandum of Understanding: This memorandum shall last for 5 years from the date of signing this Memorandum and can be extended on a mutually agreeable basis.

Signatures

Signed for and on behalf of
Kuvempu University, Shimoga

Signed for and on behalf of
Labland Biotech Private Limited,
Mysore


Prof. M. Krishnappa
Registrar
Kuvempu University
Shankaraghatta-577 451

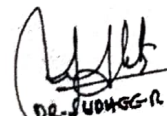

Dr. Geeta Singh
Managing Director

Place: 19-04-2011
Date: Shankaraghatta




Witnesses

1. 
Finance Officer
Kuvempu University
Shankaraghatta - 577

2. 
Dr. Subhag
Labland Biotech
Kuvempu University
Shankaraghatta - 577


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SHIMOGA, Karnataka State.


Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science College,
Shimoga.

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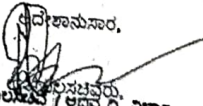
ವಿಷಯ: Bio-energry park ಕೇಂದ್ರದ ಸಲಹಾ ಸಮಿತಿಯನ್ನು ರಚಿಸುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಅನುಮೋದನೆ ದಿನಾಂಕ: 11-01-2011

ದಿನಾಂಕ: 04-09-2010 ರಂದು ಆರುಗಿಡ ಸಿಂಡಿಕೇಟ್ ಸಭೆಯಲ್ಲಿನ ತೀರ್ಮಾನದಂತೆ ಹಾಗೂ ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಅನುಮೋದನೆ ಮೇರೆಗೆ, ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜಿನ ಆವರಣದಲ್ಲಿ Bio-Energy Park ಕೇಂದ್ರವನ್ನು ಸ್ಥಾಪಿಸಲು ಉದ್ದೇಶಿಸಲಾಗಿದ್ದು, ಈ ಸಂಬಂಧ ಸದರಿ ಕೇಂದ್ರದ ಸ್ಥಾಪನೆ ಮತ್ತು ನಿರ್ವಹಣೆ ಕಾರ್ಯ, ಅದಕ್ಕೆ ತಗಲಬಹುದಾದ ಖರ್ಚು ವೆಚ್ಚದ ಬಗ್ಗೆ ಹಾಗೂ ಇತರ ಸಂಬಂಧಿತ ಕೆಲಸ ಕಾರ್ಯಗಳ ದೂಮರೇಶಗಳನ್ನು ಸಿದ್ಧಪಡಿಸುವ ಸಂಬಂಧ ಈ ಕೆಳಕಂಡಿನ ಸದಸ್ಯರನ್ನೊಳಗೊಂಡ ಸಲಹಾ ಸಮಿತಿಯನ್ನು ರಚಿಸಲಾಗಿದೆ.


ಕ್ರಮ ಸಂ.	ವಿವರ	
1	ಮಾನ್ಯ ಕುಲಸಚಿವರು ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಶಂಕರಘಟ್ಟ.	ಅಧ್ಯಕ್ಷರು
2	ಅಧ್ಯಕ್ಷರು, ಸ್ನಾತಕೋತ್ತರ ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ, ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಶಂಕರಘಟ್ಟ.	ಸದಸ್ಯರು
3	ಡಾ. ಎನ್.ರಾಜೇಶ್ವರಿ, ಮುಖ್ಯಸ್ಥರು ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.	ಸದಸ್ಯರು
4	ಡಾ. ಸುಧೀರ ಎ. ಶೆಟ್ಟಿ ಅಧ್ಯಕ್ಷರು, ಲ್ಯಾಬ್‌ಲಿಯಾಂಡ್ ಬಯೋಟೆಕ್ ಪ್ರಿವೆಟ್ ಲಿಮಿಟೆಡ್ 8ನೇ ಕೆ.ಎಮ್.ಕೆ.ಆರ್.ಎಸ್. ಮುಖ್ಯ ರಸ್ತೆ ಮೈಸೂರು 570 016.	ಸದಸ್ಯರು
5	ಡಾ. ಗೀತಾ ಸಂಗ್ ಆಡಳಿತ ನಿರ್ದೇಶಕರು, ಲ್ಯಾಬ್‌ಲಿಯಾಂಡ್ ಬಯೋಟೆಕ್ ಪ್ರಿವೆಟ್ ಲಿಮಿಟೆಡ್ 8ನೇ ಕೆ.ಎಮ್.ಕೆ.ಆರ್.ಎಸ್. ಮುಖ್ಯ ರಸ್ತೆ ಮೈಸೂರು 570 016.	ಸದಸ್ಯರು
6	ಪ್ರಾಂಶುಪಾಲರು, ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.	ಸದಸ್ಯರು
7	ಡಾ. ಹೆಚ್. ಎನ್. ರಮೇಶ್ ಬಾಬು, ಆಯ್ಕೆ ಶೇಷ ಉಪನಾಸಕರು, ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.	ನಿರ್ದೇಶಕರು

ಮೇಲ್ಕಂಡ ಸಮಿತಿಯು ಕಾಲಕ್ರಮಕ್ಕೆನುಗುಣವಾಗಿ ಸಭೆ ಸೇರಿ ಮೇಲೆ ತಿಳಿಸಿದ ಕೆಲಸ ಕಾರ್ಯಗಳನ್ನು ನಿರ್ವಹಿಸುವುದು.

ಇದೇಶಾನುಸಾರ,

 ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
 ಶಿವಮೊಗ್ಗ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
 ಜ್ಞಾನ ಸಹ್ಯಾದ್ರಿ
 ಕುಶಲಘಟ್ಟ-577 451

ಗೆ,
 ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ಸಂಬಂಧಿಸಿದ ಸದಸ್ಯರುಗಳು/ನಿರ್ದೇಶಕರಿಗೆ.
 ಪ್ರತಿ:

1. ಕುಲಸಚಿವರು, ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಶಂಕರಘಟ್ಟ.
2. ಹಣಕಾಸು ಅಧಿಕಾರಿಗಳು, ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಶಂಕರಘಟ್ಟ.
3. ಅಧ್ಯಕ್ಷರು, ಸ್ನಾತಕೋತ್ತರ ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ, ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಶಂಕರಘಟ್ಟ.
4. ಡಾ. ಎನ್.ರಾಜೇಶ್ವರಿ, ಮುಖ್ಯಸ್ಥರು ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.
5. ಡಾ. ಸುಧೀರ ಎ. ಶೆಟ್ಟಿ ಅಧ್ಯಕ್ಷರು, ಲ್ಯಾಬ್‌ಲಿಯಾಂಡ್ ಬಯೋಟೆಕ್ ಪ್ರಿವೆಟ್ ಲಿಮಿಟೆಡ್ 8ನೇ ಕೆ.ಎಮ್.ಕೆ.ಆರ್.ಎಸ್. ಮುಖ್ಯ ರಸ್ತೆ ಮೈಸೂರು 570 016.
6. ಡಾ. ಗೀತಾ ಸಂಗ್ ಆಡಳಿತ ನಿರ್ದೇಶಕರು, ಲ್ಯಾಬ್‌ಲಿಯಾಂಡ್ ಬಯೋಟೆಕ್ ಪ್ರಿವೆಟ್ ಲಿಮಿಟೆಡ್ 8ನೇ ಕೆ.ಎಮ್.ಕೆ.ಆರ್.ಎಸ್. ಮುಖ್ಯ ರಸ್ತೆ ಮೈಸೂರು 570 016.
7. ಪ್ರಾಂಶುಪಾಲರು, ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.
8. ಡಾ. ಹೆಚ್. ಎನ್. ರಮೇಶ್ ಬಾಬು, ಆಯ್ಕೆ ಶೇಷ ಉಪನಾಸಕರು, ಸಸ್ಯಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ.


PRINCIPAL
 SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka State.

Dr. Nitral Rao. K.S
 Dept. of Chemistry
 Sahyadri Science College,
 Shimoga.

KUVEMPU UNIVERSITY



DEPARTMENT OF POST GRADUATE STUDIES AND
RESEARCH IN BIOTECHNOLOGY
SAHYADRI SCIENCE COLLEGE
SHIMOGA

CERTIFICATE

This is to certify that the thesis entitled "IMPACT OF MICROBIAL INOCULANTS ON GROWTH AND YIELD OF SORGHUM" submitted by Ms. SYEDA MISBA FATHIMA, for the degree of "Master of Science" from Kuvempu University, is the result of the project work carried out by under the Guidance of Mrs. Banumathi R L, Lecturer, Department of Biotechnology, Sahyadri Science College, Kuvempu University, Shimoga and Dr. S. PRADEEP Co-ordinator, organic farming Research Centre, UAHS, Navile, Shimoga During the period of 2018.

I further declare that results of this investigation have not been previously submitted for any degree or fellowship.

Co-ordinator
P.G. Department of Biotechnology
Sahyadri Science College (Autonomous)
Kuvempu University
Shimoga-577 203, Karnataka

Dr. Pradeep K
Assistant Professor and
PG Coordinator
Department of Biotechnology
Sahyadri Science College
Kuvempu University
Shivamogga

VALUED
Date: 22/4/18
Examinas:
31
21

Dr. V...
Dept. of Chemistry
Sahyadri Science College
Shimoga
Date: 28/4/2018
Place: Shimoga
Shimoga.

Pradeep
PRINCIPAL
SAHYADRI SCIENCE COLLEGE
Constituent College of Kuvempu University
SHIMOGA, Karnataka State.



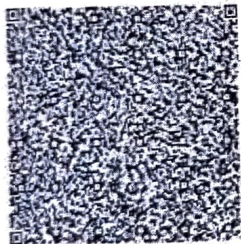
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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made and executed on this 09/08/2018.

Between Sahyadri Science College, Department of Biotechnology, a constituent college under Kuvempu University, having its Principal place of operations at NH 206, Vidya Nagar, Shivamogga, Karnataka, India 577203 herein after referred as SSC, represented by its Dr. H.S. Bhojya Naik, REGISTRAR, Kuvempu University, herein after called as First part.

And K.S. Hegde Medical Academy, P.O Deralakatte, Mangalore - 575018 which is a constituent college of NITTE (Deemed to be University) hereinafter referred as KSIHEMA with DEAN Dr. P.S Prakash S/o Suryanarayana Upadhyaya aged about 62 years as the authorized signatory or its authorized representative as the Second Part

Dr. Vittal Rao
 REGISTRAR
 KUVEMPUNIVERSITY,
 Vidya Sahyadri,
 Shankaraghatta-577 451.
 Shivamogga Distri

K.S. Hegde
 PRINCIPAL
 SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka
 K. S. Hegde Medical Academy
 DERALAKATTE, POST VIDYANAGAR
 MANGALORE - 575018
 KARNATAKA


1 The authenticity of this Stamp Certificate should be verified at 'www.stampsan.in' available on the Government of Karnataka website.
 2 The onus of checking the legitimacy is on the users of the certificate
 3 In case of any discrepancy please inform the Competent Authority


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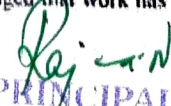
Whereas

2. First Party- SSC is a Autonomous and constituent college under Kuvempu University located at Shivamogga and is involved in teaching, research and also recognized as research center. 1st party was on lookout for collaboration with KSHEMA, and approached Second party - KSHEMA for the same. Second Party having agreed to the same, and, after mutual discussions both parties have agreed to enter into this MoU by defining the objectives, the extent and the limits of the relationship. The terms and conditions of this MoU are as follows.
3. KSHEMA will help SSC with their proposed research endeavours with a condition that the study project will be initiated only after the approval of the Institutional Ethics Committee of K.S.Hegde Medical Academy. The study will be conducted by the designated students, staff only after they are trained to handle ethical issues and aware of the hospital rules.
4. KSHEMA will provide a working place for the designated student in their laboratory with permission to use the existing facility. The expenses related to the same will be borne by the actual Principal Investigator involved in the research work from their research grants from both the sides. The financial arrangement relating each such project agreement and programs of cooperations shall be in accordance with the specific agreement and programs of cooperations covering all areas in each project.
5. Both the institutions agree to seek financial support for the collaborative research programs from appropriate funding agencies (DST SERB, DBT, UGC, ICMR, BRNS) as equal or partially collaborators in the field of translation and investigative molecular biology after a detailed intellectual input from both the parties. When the applied grants are sanctioned and to be initiated, both the institutes will appropriately share the resources and manpower and take equal responsibility to take the study ahead as per the guidelines received by the funding agency.
6. Information on research results and specific materials (reports, article and books) related to joint study will be exchanged freely keeping in mind the mutually agreed provision of Intellectual Property Rights. All intellectual property solely conceived and or developed by SSC during the course of this agreement shall be owned by the SSC. All intellectual property solely conceived and or developed by KSHEMA during the course of this agreement shall be owned by KSHEMA. The SSC and KSHEMA agree to collaborate towards the protection, if appropriate and application of such intellectual property for commercial or other purpose on mutual acceptable terms to be negotiated in good faith between the parties.
7. Research publications, if any out of collaborative research work shall be in the name of the investigators from both the parties with prior mutual consent of both the parties. When the authors have contributed equally, the 1st and corresponding authorship will be shared in accordance to the guidelines specified by committee on publications ethics (COPE). Publication will be suitably acknowledged that work has been carried out jointly under aegis of corresponding funding agencies.

Continued...


Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science College
Shimoga.


REGISTRAR,
KUVEMPU UNIVERSITY,
Jnana Sahyadri,
Shankaraghatta-577 55.
Shivamogga District


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
Constituent College of Kuvempu University
SHIMOGGA, Karnataka State
K. S. Hegde Medical Academy
DERALAKATTE, POST HITNAYANA
MANGALORE - 575 010
KARNATAKA

the same and after mutual discussions both parties having come to a mutual understanding to the terms and conditions of which are as follows:

- 1) MIO will help SSC with their proposed research endeavors as collaborators with a condition that the study project will be initiated only after the approval of the Ethics committee. The study will be conducted by the designated students/staff only after they are trained to handle ethical issues and aware of hospital rules.
- 2) MIO will provide a working place for the designated student in their laboratory with permission to use the existing facility. The SSC staff/student will also be provided access to selected patient information with a faith that they will adhere to the ethics of patient confidentiality especially with regard to sensitive information. If the benefactor misuses any of the facilities provided, MIO will withdraw the services offered and inform the head of the institution.
- 3) Both institutions agree to seek financial support for collaborative research programs from appropriate funding agencies (DBT, UGC, ICMR, BRNS) as equal collaborators in the field of translational and investigative molecular biology after a detailed intellectual input from both the parties. When the applied grant is sanctioned and to be initiated, both the institutes will appropriately share the resources and manpower and take equal responsibility to take the study ahead.
- 4) Information on research results and scientific materials (reports, articles, books) will be exchanged freely keeping in mind the mutually agreed provision of Intellectual Property Rights. All intellectual property solely conceived and/or developed by SSC during the course of this agreement shall be owned by the college. All intellectual property solely conceived and/or developed by MIO during the course of this agreement shall be owned by Mangalore Institute of Oncology. Intellectual property jointly conceived and/or developed by SSC and MIO will be jointly owned by SSC and MIO. SSC and MIO agree to collaborate towards the protection, if appropriate, and application of such intellectual property for commercial or other purposes on mutually acceptable terms to be negotiated in good faith between the parties.
- 5) Research publications, if any out of collaborative research work shall be in the names of the investigators from both parties, with prior mutual consent of both parties. When the authors have contributed equally, the 1st and the corresponding authorships will be shared in accordance to the guidelines specified by Committee on Publication Ethics (COPE). Publication will be suitably acknowledged that the work has been carried out jointly under the aegis of corresponding funding agencies.
- 6) MIO is active in spreading knowledge on cancer awareness to the general public and students on aspects like cancer habits and symptoms under the aegis of cancer education wing. When MIO proposes any cancer awareness program in the Shimoga region it will expect help from the institution in providing the college venue and intellectual support for the program.
- 7) MIO is strongly in support to have interested student's visit their hospital for academic study tours and also permit a couple of designated master's students for their project work. MIO also gives full permission to SSC to place this MOU to academic bodies like UGC, NAAC and other affiliates for advancing the service to its students and society at large.
- 8) In case of any dispute or difference in relation to this Agreement between the party the same shall be resolved by mutual negotiations or conciliation initially and if that fails the same may be got resolved by referring to arbitration in accordance with the provisions of Indian Arbitration & Conciliation Act 1996 by appointing a sole arbitrator by mutual consent failing which by the competent court and the award of the Arbitrator shall be binding on both the parties. The Arbitrator so appointed shall pass a reasoned award within 6 months or such extended period by mutual consent. The cost of arbitration shall be borne equally. The venue of arbitration shall be at Mangalore or any other place by mutual consent.

This MoU is made in two originals (each party retaining one original) and comes in to force on the day when both parties have signed it.

In witness whereof the parties hereto have executed this MoU through their authorized representatives.

For and on behalf of

Sahyadri Science College (A)

Name: Smt. G. Shankunthala

Designation: Principal

Seal:

Witness 1

Signature:

Name:

Designation:

Seal:

Witness 2

Signature:

Name:

Designation:

Seal:

Place:

Date:

Dr. H.M. VAGDEVI
Chairman

Department of Chemistry
Sahyadri Science College (Autonomous)
SHIVAMOGGA - 577 203

Dr. Prabhakar. B.T.Ph.D.
Assistant Professor

Dept. of Biotechnology
Sahyadri Science College (Auto)
Shimoga-577 203.

2016

Dept. of Chemistry

Sahyadri Science College,

Shimoga.

For and on behalf of
Mangalore Institute of Oncology

Name: Dr Suresh Rao

Designation: Executive Director

Seal:

Witness 1

Signature:

Name:

Designation:

Seal:

Witness 2

Signature:

Name:

Designation:

Seal:

DR. SURESH RAO
Reg.No: 27711

DR. SANATH HEGDE
Reg. No.: 26381

MANGALORE INSTITUTE OF ONCOLOGY
(A Unit of Mangalore Oncology Group)
Pumpwell Circle, Mangalore - 575002

PRINCIPAL

SAHYADRI SCIENCE COLLEGE

(Constituent College of Kuvempu University)

SHIMOGA, Karnataka State.

Whereas

First Party- SSC is a constituent college of Kuvempu University located at Shivamogga and is involved in teaching, research and also recognized as research center. 1st party was on lookout for collaboration with CFSE and approached Second party -CFSE for the same. Second Party having agreed to the same and, after mutual discussions both parties have agreed to enter into this MoU by defining the objectives, the extent and the limits of the relationship. The terms and conditions of this MoU are as follows.

Food allergy lab of CFSE will help Department of Biochemistry SSC with their proposed research endeavours and support to use the facilities for research during the visit after approval. Dr. Siddanakoppalu N. Pramod from SSC was offered a visiting faculty fellowship for three months starting from 20th December 2018 to 20th March 2019 to do a collaborative work and to explore the possibility of further research cooperation mainly concerning sea food allergy at Oceana University China. The study will be conducted by the designated staff only after they are trained to handle ethical issues and aware of the rules and guidelines of the host institution. CFSE will provide a working place for the designated faculty/student in their laboratory with permission to use the existing facility. The expenses related to the same will be borne by the actual Principal Investigator involved in the research work from their research grants from both the sides. The financial arrangement relating each such project agreement and programs of cooperations shall be in accordance with the specific agreement and programs of cooperations covering all areas in each project.

Both the institutions agree to seek financial support for the collaborative research programs from appropriate funding agencies of the host countries as equal or partially collaborators in the field of translation and investigative in the area of food allergy after a detailed intellectual input from both the parties. Information on research results and specific materials (reports, article and books) related to joint study will be exchanged freely keeping in mind the mutually agreed provision of Intellectual Property Rights. All intellectual property solely conceived and or developed by SSC during the course of this agreement shall be owned by the SSC. All intellectual property solely conceived and or developed by CFSE during the course of this agreement shall be owned by CFSE.

The SSC and CFSE agree to collaborate towards the protection, if appropriate and application of such intellectual property for commercial or other purpose on mutual acceptable terms to be negotiated in good faith between the parties. Research publications, if any out of collaborative research work shall be in the name of the investigators from both the parties with prior mutual consent of both the parties. When the authors have contributed equally, the 1st and corresponding authorship will be shared in accordance to the guidelines specified by committee on publications ethics (COPE). Publication will be suitably acknowledged that work has been carried out jointly under aegis of corresponding funding agencies. Both the institutions hereby agree to facilitate institute visit for the interested Faculty /student's during their academic study tours upon prior written approval from both parties and also agree to permit designated masters students for their project work upon prior written approval from both parties. The institutional norms will apply for the same. Both the institutions agreed to have mutual permission to place this MOU to academic bodies like UGC, NAAC and other affiliates for advancing the services to its students and society at large.

Continued...



Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science Collage,
Shimoga.



PRINCIPAL

2 SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

14. This MoU represents the entire agreement as to the subject matter hereof and supercedes and cancels any & all prior agreements undertakings between the parties on the said aspect.
15. This MOU is made in two original (each party retaining one original) and comes in to force on the day when both parties have signed it. In witness where of the parties here to have executed this MOU through their authorized representatives.

For and on behalf of
 Sahyadri Science College-(SSC)
 Kuvempu University

Name: Dr. H.S. BHAIYANAIK
 Designation: REGISTRAR
 Seal: Shimoga
 Shimoga (Dist. Karnataka (State))

Witness 1
Dr. Shashirekha K.R.
 Principal
 Sahyadri Science College
 Shimoga

Dr. Prabhakar. B.T. Ph.D.
 Assistant Professor
 Dept. of Biotechnology
 Sahyadri Science College (Auto)
 Shimoga-577 203.

Dr. Vittal Rao. K.S
 Dept. of Chemistry
 Sahyadri Science College,
 Shimoga.

For and on behalf of
 K.S Hegde Medical Academy -(KSHEMA)
 Nitte University

Name: DR. P.S PRAKASH
 Designation: Dean
 Seal: K.S. Hegde Medical Academy
 DERALAKATTE, POST NITHYANANDA NAGAR
 MANGALORE - 575 018
 KARNATAKA

Witness 1

Witness 2
Vice Dean
K. S. Hegde Medical Academy
DERALAKATTE, POST NITHYANANDA NAGAR
MANGALORE - 575 018
KARNATAKA

PRINCIPAL
 SAHYADRI SCIENCE COLLEGE
 (Constituent College of Kuvempu University)
 SHIMOGA, Karnataka State.



NITTE
(Deemed to be University)

**K S HEGDE
MEDICAL ACADEMY**

CERTIFICATE

This is to certify that the dissertation entitled "A Pilot Study: Association of Vitamin D Receptor gene polymorphism FokI(rs10735810) in epithelial ovarian cancer women" submitted by Ms. Chaitra H R., II MSc, Department of Biotechnology, Kuvempu University, Sahyadri Science College, Shimoga, has been carried by her in the Central Research Laboratory, K.S. Hegde Medical Academy, Deralakatte, under my guidance for the partial fulfilment for the award of Degree of Master of Science in Biotechnology and no part thereof has been presented for any other degree.

16/07/2018
Mangalore.

Dr. Vittal Rao, K.S
Dept. of Chemistry
Sahyadri Science College,
Shimoga

PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

Dr. Suchetha Kumari. N.
Principal Scientific Officer
Molecular Genetic Lab,
Central Research Laboratory,
K.S. Hegde Medical Academy, Deralakatte

Dr. SUCHETHA KUMARI N.
Professor
Department of Biochemistry
K.S. Hegde Medical Academy
Deralakatte, MANGALURU 575 018
KARNATAKA, INDIA

KUVEMPU UNIVERSITY

PG Department and Research Studies in Biotechnology

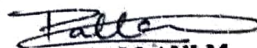
Sahyadri Science College

Shimoga- 577203

CERTIFICATE

This is to certify that the topic entitled "***Loranthus micranthus mediated silver nanoparticle, characterization and biological activity***" submitted by **SIDDESH B M** for the degree of "Master of Science" from Kuvempu University is the result of the project work carried out by them under the guidance during the period 2018-19.

I further declare that results of this investigation have not been previously submitted for any degree or fellowship.



Mrs. PALLAVI M

Lecturer

Dept. of biotechnology
Sahyadri Science College
Kuvempu University
Shimoga

Date: 03/05/19

Place: Shimoga



Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science College,
Shimoga.



PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

KUVEMPU UNIVERSITY
DEPARTMENT OF P.G. STUDIES AND RESEARCH
IN BIOTECHNOLOGY
SAHYADRI SCIENCE COLLEGE, SHIMOGGA - 577203

CERTIFICATE

This is to certify that the project work entitled "POLYMORPHISM IN THE VDR GENE (ApaI) AND RISK OF EPITHELIAL OVARIAN CANCER" submitted to the Kuvempu university for the award of master of science in biotechnology by Ms. Pooja T R. is the result of bonafide project work carried out by me in Central Research Laboratory K S Hegde Medical Academy Deralakatte, Mangalore, under the guidance of Dr. Shashi kumar R. Lecturer, Department of P G Studies and Research in Biotechnology, Sahyadri science college Shimogga during the period 2019.

I further certify that the work have not been previously formed the basis of any degree, associate ships fellowship etc, of any other university or institution.

Date: 25/03/2019
K.S
Dept. of Chemistry
Sahyadri Science College,
Place: Shimogga


(Dr. Shashi Kumar. R.)

Project guide


PRINCIPAL

SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGGA, Karnataka State.



DAYANANDA SAGAR COLLEGE OF ENGINEERING
BANGALURU
KARNATAKA

DAYANANDA SAGAR COLLEGE OF ENGINEERING
Department of Biotechnology

Dr. Govindappa M.
Associate Professor

Shatige Malleshwara Hills
Kansarawatty Layout,
Bangalore 560078
draxcolarsagar@gmail.com


Certificate


This is to certify that the thesis entitled "ANTIBACTERIAL AND ANTIOXIDANT PROPERTIES OF THE ENDOPHYTIC FUNGAL EXTRACTS ISOLATED FROM FRUITS" submitted for the partial fulfillment of award of degree of Masters in Science in Biotechnology, Sahyadri College of Science, Kuvempu University, and Shimoga. Embodies the original research work carried out by SINDHU S and PRIYA V under my guidance.

We further certify that, this research work or part of it has not previously formed the basis for the award of any degree or diploma, associate ship and fellowship etc., of any University or Institute.


[Dr. M. GOVINDAPPA]
Research Co-Guide

Date: 02/05/2019
Place: Bangalore


Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science College,
Shimoga.


PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(an Affiliated College of Kuvempu University)
SHIMOGA, Karnataka State



CH: 08-43161147
Fax: 08-2666709
Cell: 9756621980

DAYANANDA SAGAR COLLEGE OF ENGINEERING
Department of Biotechnology

Dr. Govindappa M.
Associate Professor

Shavige Malleshwara Hills,
Kumaraswamy Layout,
Bengaluru-560078
dravlidateja07@gmail.com

Certificate

This is to certify that the thesis entitled "*In-Silico and In-vitro Studies on Systemic Resistance Induced by Endophytic Fungi In "Solanum Lycopersicum"*" submitted for the partial fulfilment of award of degree of Masters in Science in Biotechnology, Sahyadri College of Science, Kuvempu University, and Shimoga. Embodies the original research work carried out by S V NAVARATNA AND MAMATHA N under my guidance.

I further certify that, this research work or part of it has not previously formed the basis for the award of any degree or diploma, associate ship and fellowship etc., of any University or Institute.

[Dr. M. GOVINDAPPA]
Research Co-Guide

Date: 03/05/2019
Place: Bengaluru

Dr. Vittal Rao. K.S
Dept. of Chemistry
Sahyadri Science College,
Shimoga.

PRINCIPAL
SAHYADRI SCIENCE COLLEGE
(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State,



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भारतीय आयुर्विज्ञान अनुसंधान परिषद
INDIAN COUNCIL OF MEDICAL RESEARCH

वी. रामलिंगस्वामी भवन, अन्सारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110 029
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110

Date: 20/12/20

F. No. 58/34/2020/PHA/BMS

To
The Finance Officer
Kuvempu University
Jnanasahyadri, Shankaraghatta (P)
Bhadravathi (Taluk)
SHIMOGA, Karnataka State

Subject - Sanction of budget allotment for project entitled, "Repositioning HIF-1 alpha inhibitor BP-1B for DNA Damage Response (DDR) to induce BRCA ness in Ovarian Cancer under Dr. B.T. Prabhakar, Assistant Professor, Department of Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga

Sir,

The Director General of the ICMR sanctions the above mentioned research scheme initially for a period of One Year with effect from 13/01/2022 subject to extension up to the total duration as specified in para 5 below:-

1. The Director General of the Council also sanctions the budget allotment of Rs. 12,66,645/- as detailed in the attached statement for the period from 13/01/2022 to 12/01/2023 The grant-in-aid will be given subject to the following conditions.
2. The payment of the grant will be made in lump-sum to the Head of the Institute. The first instalment of the grant will be paid generally as soon as report regarding appointment of the staff is received by the Council. The Staff appointed on the project should be paid as indicated in the budget statement.
3. The staff on the project will be recruited as per the rules and procedure of the host institute and second part of the undertaking be obtained from the employees of the project. The staff grant will not be released unless the required undertaking [part-II] from Head of the Institute is received in this office.
4. The Host Institute shall utilize the grant after following the provisions laid down in the GFRs 2017 and TA rules.
5. The demand for payment of the subsequent instalment of the grant should be placed with the Council in the prescribed Performa. The approved duration of the scheme is Three Years. The annual extension will be given after review of the work done on the scheme during the previous year.
6. Five copies of the annual progress report in the attached prescribed Performa should be submitted to the ICMR every year after completion of ten months of the project giving complete actual details of the research work done. Failure to submit the report in time may lead to termination of project.
7. Subject to the condition that the grant will be utilize after following the provisions laid down in the GFRs-2017 & TA Rules. Please keep the fund in a separate Saving Bank Account opened for ICMR funded Research Projects so that interest earned thereon is credited in to this account.

The receipt of this letter may please be acknowledged.

Yours faithfully,

(I.P. Singh)
Admn. Officer
for Director General

Dr. Vittal Rao, K.S.
Dept. of Chemistry
Sahyadri Science College,
Shivamogga

- Copy together with a copy of the budget statement forwarded to Information to:-
1. Dr. B.T. Prabhakar, Assistant Professor, Department of Biotechnology, Sahyadri Science College, Kuvempu University, Shivamogga
 2. Accounts - V for information.
 3. Copy together with the budget forwarded to Budget Section [Finance Section] for compilation of the Council Budget
 4. IRIS ID :- 2020-3713.

Admn. Officer
for Director General


Key Indicators 3.5 – Collaboration (20)

Metric No.		Weightage
3.5.1. Q _n M	<p><i>The number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the-job training, research and other academic activities during the last five years</i></p> <p>3.5.1.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the-job training, research and other academic activities during the last five years: <u>12</u>.</p> <p>File Description (Upload)</p> <ul style="list-style-type: none"> • Institutional data in the prescribed format • Upload supporting document 	20

12

copied

3.5.1. Number of MoUs, collaborations / linkages for Faculty exchange, Student exchange, internship, field trip, on-the-job training, research and other academic activities during the last five years

Sl. No.	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	List the actual activities under each MOU and web -links year-wise	Link to the relevant document
2016 - 17						
1	Collaboration	Mangalore Institute of Oncology, Manglore.	2016	03 years		
2	Collaboration	Labland Biotechs Private limited	2016	05 Years		
2017 - 18						
1	Internship	Agriculture College, Navale, Shivamogga	2017	120 Days		
2018 - 19						
1	Collaboration	KS Hegde Medcial College, Nitte University, Deralakatte, Mangalore	2018	03 years		
2	Faculty Exchange	College of Food Science and Engineering, Oceana University of China, China	2018	1 Year		
3	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
4	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
5	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
6	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
7	Internship	Dayananda Sagar College of Engineering, Kumaraswamy Layout, Bangalore	2018	120 Days		
8	Internship	Central Research Laboratory, KS Hegde Medical Academy, Mangalore	2018	120 Days		
9	Internship	Central Research Laboratory, KS Hegde Medical Academy, Mangalore	2018	120 Days		
2019 - 20						
		Nil				
2020 - 21						
		Nil				