



**PG Dept. of Studies & Research in Biochemistry
Jnana Kaveri P.G. Centre, Chikka Aluvara,
Kodagu, Karnataka, INDIA**

CERTIFICATE

This is to certify that this project work entitled "**Green synthesis and characterization of silver nanoparticles using leaf extract of *Pajanelia longifolia* and evaluation of their antibacterial, antioxidant, larvicidal activity, hemolytic activity and phytochemical analysis**". submitted by **Ms. Suhasini.P.C** under the guidance of **Mr. Rajkumar S Meti** Assistant professor P.G. Department of Biochemistry, Jnana Kaveri PG Centre, Chikka Aluvara, Kodagu district towards the partial fulfillment of M.Sc., Degree of Biochemistry (IV semester) contains the results of the bonafide project work carried out by her during the academic year 2018-2019.

Place: Chikka Aluvara

Date: 19/05/2019

Date of Examination:

EXAMINERS:

1)

2)

Signature of Guide

Signature of Chairperson

Dept of Studies & Research in Biochemistry
PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara - 571 232
Kodagu, Karnataka

MANGALORE UNIVERSITY

Certificate

This is to certify that **Ramya K.D**, 4th Semester, M.Sc Biochemistry, Mangalore University has satisfactorily completed the project work entitled "**IVITRO ANTIOXIDANT, ANTIMICROBIAL AND ACETYLCHOLINE ESTERASE INHIBITORY ACTIVITY OF MUCUNA MONOSPERMA FROM METHANOIC EXTRACTS**", Under the guidance of **Dr. Chandrashekhar G Joshi** Assistant professor, Department Of Studies and Research in Biochemistry, Mangalore University towards the partial fulfilment of requirements for the award of Master of Science in Biochemistry to the Mangalore University, during 2018-2019.

Place: **Chikka Aluvara**

Date: **18/05/2019**

Date of Examination:

EXAMINERS:

1)

2)



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Chandrashekhar G Joshi

Chairperson

Dept of Studies & Research in Biochemistry
PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara - 571 232
Kodagu, Karnataka

CERTIFICATE

This is to certify that **Mr.PAVAN P.S.IV** Semester, M.Sc Biochemistry, Mangalore University has satisfactorily completed the project work entitled **“GC-MS Analysis of the Leaf Essential oils of *Oleadioica*Roxb., and its Biological Activity”** under the guidance of **Prof.ManjulaShantaram**, Department of Studies and Research in Biochemistry, Mangalore University towards the partial fulfilment of requirements for the award of Master of Science in Biochemistry to the Mangalore University, during 2018-2019.

Place: ChikkaAluvara

Date:

19/05/2019



Manjulashanti
Signature of Guide

Manjulashanti
Signature of Chairperson

Chairperson
Dept of Studies & Research in Biochemistry
PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara – 571 232
Kodagu, Karnataka

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CERTIFICATE

This is to certify that SHIFA M.N, 4th Semester, M.Sc Biochemistry, Mangalore University has satisfactorily completed the project work entitled "ANTIOXIDANT, ANTIMICROBIAL AND ACETYLCHOLINE ESTERASE INHIBITORY ACTIVITY OF METHANOL EXTRACT OF PAJANELIA LONGIFOLIA", Under the guidance of Dr. Chandrashekhar G. Joshi, Assistant professor, Department Of Studies and Research in Biochemistry, Mangalore University towards the partial fulfillment of requirements for the award of Master of Science in Biochemistry to the Mangalore University, during 2018-2019.

Place: Chikka Aluvara

Date: 18/05/2019

Date of Examination:

EXAMINERS:

- 1)
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PG Centre, Mangalore University
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Jnana Kaveri P G Centre, Chikka Aluvara,
Kodagu, Karnataka, INDIA**

CERTIFICATE

This is to certify that this project work entitled "**Green synthesis and characterization of silver nanoparticles using leaf extract of *Mucuna Monosperma* and evaluation of their antibacterial, antioxidant, larvicidal activity, hemolytic activity and phytochemical analysis**". submitted by **Ms. Meghashree T.J** under the guidance of **Mr. Rajkumar S Meti** Assistant professor P.G. Department of Biochemistry, Jnana Kaveri PG Centre, Chikka Aluvara, Kodagu district towards the partial fulfillment of M.Sc., Degree of Biochemistry (IV semester) contains the results of the bonafide project work carried out by her during the academic year 2018-2019.

Place: Chikka Aluvara

Date: 18/05/19

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PG Centre, Mangalore University
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Kodagu, Karnataka

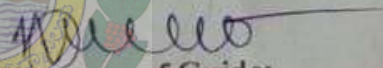
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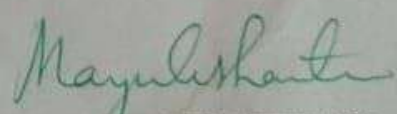
This is to certify that **Mr. Karthik K. C.**, IV Semester, M.Sc. in Biochemistry, Department of Studies and Research in Biochemistry, Jnana Kaveri Post Graduate Centre, Mangalore University, Chikka Aluvara has satisfactorily completed the project work entitled "**Evaluating anti-inflammatory activity of wild edible fruit *Ziziphus mauritiana* by inhibiting human secretory phospholipase A₂**" under the guidance of **Dr. K. K. DHARMAPPA**, Assistant professor, Department Of Studies and Research in Biochemistry, Jnana Kaveri Post Graduate Centre, Mangalore University, Chikka Aluvara towards the partial fulfilment of requirements for the award of Master of Science in Biochemistry to the Mangalore University, during 2018-2019.

Place: **Chikka Aluvara**

Date: **24.05.2019**




Signature of Guide:


Signature of Chairperson:

Chairperson

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PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara - 571 232
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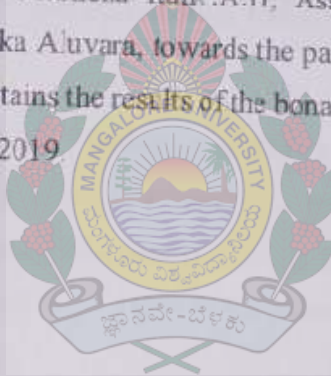
Department of Biochemistry
Jnana Kaveri, P.G Centre, Chikka Aluvara,
Kodagu-571 232

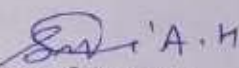
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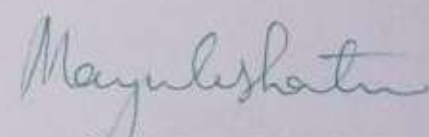
This is to certify that the project work entitled "**Isolation of Gut microbiota from *Apis florea* and Screening for carbohydrate degrading enzymes**" submitted by Miss. Kavya. M.N under the guidance of Dr.Sneha Rani .A.H, Assistant Professor, Department of Biochemistry, P G Centre Chikka Aluvara, towards the partial fulfilment of M.Sc., Degree of Biochemistry (IV semester) contains the results of the bonafide project work carried out by her during the academic year 2018-2019.

Place: Chikka Aluvara

Date: 19-5-2019




Signature of the guide


Signature of Chairperson

Date of Examination:

EXAMINERS:

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PG Centre, Mangalore University
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Kodagu, Karnataka

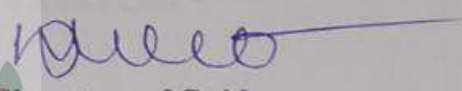
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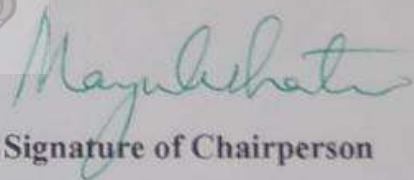
This is to certify that **Ms. Vasavi M. C.**, IV Semester, M.Sc. in Biochemistry, Department of Studies and Research in Biochemistry, Jnana Kaveri Post Graduate Centre, Mangalore University, Chikka Aluvara has satisfactorily completed the project work entitled ***"Effect of wild edible fruits on secretory phospholipase A₂, a key enzyme involved in the inflammatory pathway"*** under the guidance of **Dr. K. K. DHARMAPPA**, Assistant professor, Department Of Studies and Research in Biochemistry, Jnana Kaveri Post Graduate Centre, Mangalore University, Chikka Aluvara towards the partial fulfilment of requirements for the award of Master of Science in Biochemistry to the Mangalore University, during 2018-2019.

Place: Chikka Aluvara

Date: 24.05.2019




Signature of Guide:


Signature of Chairperson

Chairperson

Dept of Studies & Research in Biochemistry
PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara – 571 232
Kodagu, Karnataka



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Department of Studies in Biochemistry, P G Centre,

Jnana Kaveri, Chikka Aluvara,

Post Box No-19, Kodagu-571232, Karnataka, India

No/MU/BC/649 /2019-20

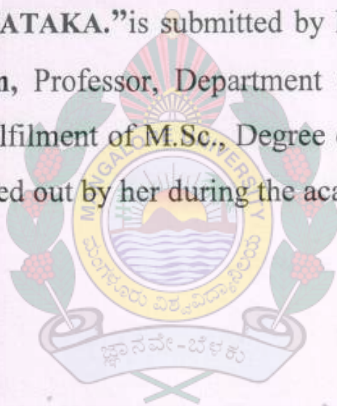
Date: 05.03.2020

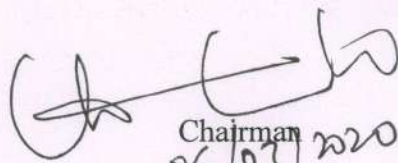
Prof. K.S. Chandrashekharaiiah,
Chairman, Dept of Biochemistry

Telephone No: 08276-276465
Fax No: 08276-276479
chairmanbccchikkaaluvara@gmail.com

CERTIFICATE

This is to certify that this project work entitled “**BIOLOGICAL ACTIVITIES OF ESSENTIAL OILS OF RHIZOME OF *CURCULIGOORCHIOIDESGAERTN. OF WESTERN GHATS OF KODAGU, KARNATAKA.***” is submitted by **Ms. Shwetha B.S.** under the guidance of **Prof. Manjula Shantaram**, Professor, Department of Biochemistry, P G Centre Chikka Aluvara, towards the partial fulfilment of M.Sc., Degree of Biochemistry contains the results of the bonafide project work carried out by her during the academic year 2018-2019.




Chairman
06/03/2020

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No/MU/BC/646/2019-20

Date: 05.03.2020

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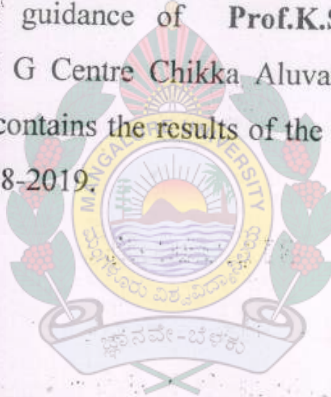
Telephone No: 08276-276465

Fax No: 08276-276479

chairmanbcchikkaaluvara@gmail.com

CERTIFICATE

This is to certify that this project work entitled "**STUDIES ON TRYPSIN INHIBITORY ACTIVITY FROM WILD NON-EDIBLE MUSHROOM.**" is submitted by **Ms. POOJA H.S.** under the guidance of **Prof.K.S. Chandrashekharaiiah**, Professor Department of Biochemistry, P G Centre Chikka Aluvara, towards the partial fulfilment of M.Sc., Degree of Biochemistry contains the results of the bonafide project work carried out by her during the academic year 2018-2019.




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Post Box No-19, Kodagu-571232, Karnataka, India

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Prof. K.S. Chandrashekharaiiah,
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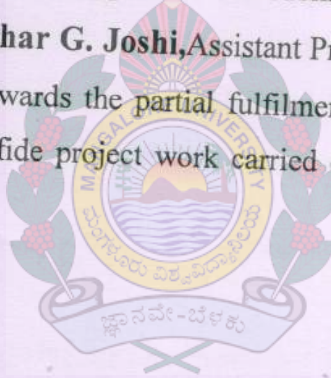
Telephone No: 08276-276465

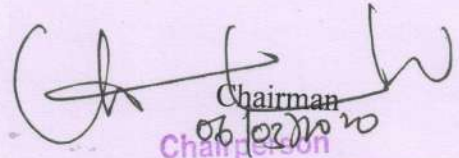
Fax No: 08276-276479

chairmanbcchikkaaluvara@gmail.com

CERTIFICATE

This is to certify that this project work entitled "**Structural basis for HIF-1 α and HSP90 interaction –An In –silico approach**" is submitted by **Ms. Raseena U.** under the guidance of **Dr. Chandrashekhar G. Joshi**, Assistant Professor, Department of Biochemistry, P G Centre Chikka Aluvara, towards the partial fulfilment of M.Sc., Degree of Biochemistry contains the results of the bonafide project work carried out by her during the academic year 2018-2019.




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Kodagu, Karnataka



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Department of Studies in Biochemistry, P G Centre,

Jnana Kaveri, Chikka Aluvara,

Post Box No-19, Kodagu-571232, Karnataka, India

No/MU/BC/648/2019-20

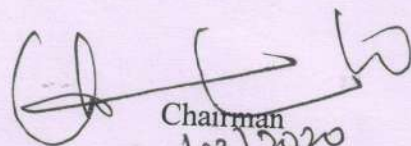
Date: 05.03.2020

Prof. K.S. Chandrashekharaiiah,
Chairman, Dept of Biochemistry

Telephone No: 08276-276465
Fax No: 08276-276479
chairmanbcchikkaaluvara@gmail.com

CERTIFICATE

This is to certify that this project work entitled **"ISOLATION AND PURIFICATION OF SERINE PROTEASE INHIBITOR FROM SENNASIAMEA PLANT SEEDS."** is submitted by **Ms. Sangeetha H.J.** under the guidance of **Dr. A.H. Sneha Rani**, Assistant Professor, Department of Biochemistry, P G Centre Chikka Aluvara, towards the partial fulfilment of M.Sc., Degree of Biochemistry contains the results of the bonafide project work carried out by her during the academic year 2018-2019.


Chairman

06/03/2020

Chairperson

Dept of Studies & Research in Biochemistry
PG Centre, Mangalore University
Jnana Kaveri, Chikka Aluvara - 571 232
Kodagu, Karnataka

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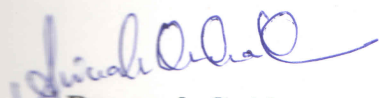


UNIVERSITY

(Accredited by NAAC with 'A' Grade)
M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled **"Isolation of Chitin and Production of Chitosan from Shrimp Shells: Evaluation for Dye Binding Properties"** submitted to Mangalore University, Mangalore by **Ms. Aswani S (Reg. No. 175123701)**, under the guidance of **Dr. Avinash Kudva K.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


Research Guide


Coordinator

Place: Mangalagangothri
Date: 30-04-2019

Coordinator
M.Sc. in Biochemistry
Mangalore University
Mangalagangothri - 574 199
Mangalore D.K.

Date of Examination:

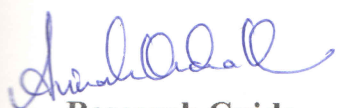
MANGALORE UNIVERSITY



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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled “**Isolation and Characterization of Esterase from Asparagus and Kiwifruit**” submitted to Mangalore University, Mangalore by **Ms. Bhavya B. Shetty (Reg. No. 175123702)**, under the guidance of **Dr. Avinash Kudva K.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


Research Guide

Place: Mangalagangothri
Date: 30-04-2019

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Coordinator
Coordinator
M.Sc. in Biochemistry
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Mangalagangothri - 574 199
Mangalore D.K.

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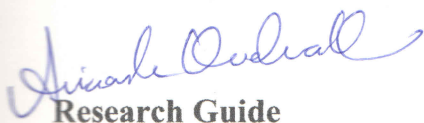
UNIVERSITY

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled "**Evaluation of Phytochemicals and Anti-gout property of *Vitex negundo* in *Drosophila melanogaster***" submitted to Mangalore University, Mangalore by **Ms. Deenavi M.G (Reg. No. 175123703)**, under the guidance of **Dr. Avinash Kudva K.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


Research Guide

Place: Mangalagangothri

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Coordinator
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M.Sc. in Biochemistry
Mangalore University
Mangalagangothri - 574 199
Mangalore D.K.

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled **"Isolation and Characterization of Amylase from Sweet potatoes"** submitted to Mangalore University, Mangalore by **Mr. Deepak (Reg. No. 175123704)**, under the guidance of **Dr. Avinash Kudva K.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


Research Guide

Place: Mangalagangothri
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Coordinator

Coordinator
M.Sc. in Biochemistry
Mangalore University
Mangalagangothri 574 199
Mangalore D.K.

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M.Sc. Biochemistry Course, Mangalagangothri 574199

CERTIFICATE

This is to certify that the dissertation entitled “**Phytochemical Analysis, Antioxidant and Antimicrobial Activity of medicinal mushroom *Ganoderma lucidum***” submitted to Mangalore University, Mangalore by **Ms. Dhanyashri D.U (Reg. No.175123705)**, under the guidance of Mrs Riji E., towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

Research Guide

Place: Mangalagangothri

Date: 30-04-2019

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M.Sc. in Biochemistry
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Mangalagangothri - 574 199
Mangalore D.K.

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled "**Association of Sex Hormone Binding Globulin and Poly Unsaturated Fatty Acid in Breast Cancer**" submitted to Mangalore University, Mangalore by **Ms. Divyasusuma E (Reg. No. 175123706)**, under the guidance of Mrs. Riji E., towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original project work carried by them in the academic year 2018-2019.

Research Guide

Coordinator

Coordinator
M.Sc. in Biochemistry
Mangalore University
Mangalagangothri - 574 199
Mangalore D.K.

Place: Mangalagangothri

Date: 30-04-2019

Date of Examination:

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled **"Phytochemical Analysis and Free Radical Scavenging Potential Activity of *Vetiveria zizanioides*"** submitted to Mangalore University, Mangalore by **Ms. Harsha Sasidharan K (Reg. No. 175123707)**, under the guidance of **Mrs. Riji E.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

Research Guide

Coordinator

Coordinator
M.Sc. in Biochemistry
Mangalore University
Mangalagangothri - 574 199
Mangalore D.K.

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled "**Inhibition of α -amylase by Tannin extracted from *Moringa oleifera***" submitted to Mangalore University, Mangalore by **Ms. Harshitha (Reg. No. 175123708)**, under the guidance of Mrs. Riji E towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

Research Guide

Place: Mangalagangothri

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M.Sc. in Biochemistry

Mangalore University

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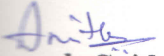
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M.Sc. Biochemistry Course, Mangalagangothri 574199

CERTIFICATE

This is to certify that the dissertation entitled "**Isolation and Charecterization of Esterase Enzyme from *Artocarpus heterophyllus* and *Theobroma cacao***" submitted to Mangalore University, Mangalore by Ms. Harshitha .P(**Reg. No.175123709**) Under the guidance of Dr.Anitha Nagaraj., towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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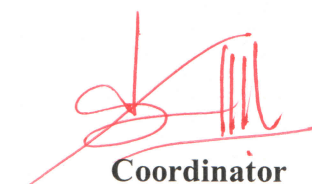


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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled “A comparative study on proximate analysis and fatty acid composition of marine fish (*Rastrelliger kanagurta*) and estuarine fish (*Tenulosa hilsa*)” submitted to Mangalore University, Mangalore by Ms. Jovita Ancilla Lobo (Reg. No. 175123710), under the guidance of Dr. Anitha Nagaraju, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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Mangalore D.K.

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M.Sc. Biochemistry Course, Mangalagangothri 574 199

CERTIFICATE

This is to certify that the dissertation entitled "**Phytochemical Screening and Antioxidant Potential of the Leaves of *Plectranthus amboinicus***" submitted to Mangalore University, Mangalore by Ms. Krishna Priya P (Reg. No. 175123711), under the guidance of Dr. Anitha Nagaraju., towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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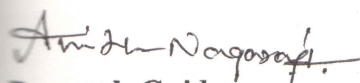


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This is to certify that the dissertation entitled "Evaluation of Serum Ferritin and Iron level in women with Polycystic Ovarian Syndrome" submitted to Mangalore University, Mangalore by Madhuranjan (Reg. No.175123712) under guidance of Dr. Anitha Nagaraj, Lecturer in Biochemistry, for the partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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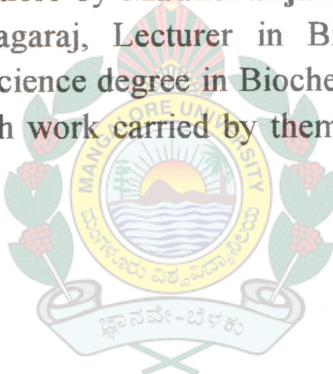
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Date: 30-04-2019

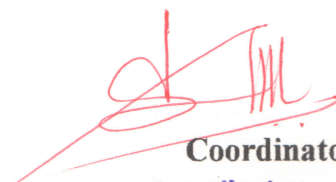
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This is to certify that the dissertation entitled "**Phytochemical Screening, Antioxidant activity and Antimicrobial activity of *Justicia adhatoda***" submitted to Mangalore University, Mangalore by Ms. Megha C Nair (175123713) under the guidance of Ms. Shwetha Shetty K, towards partial fulfillment of the Master of Science degree in Biochemistry is a faithful record of genuine and original research work carried by them in the academic year 2018-2019.


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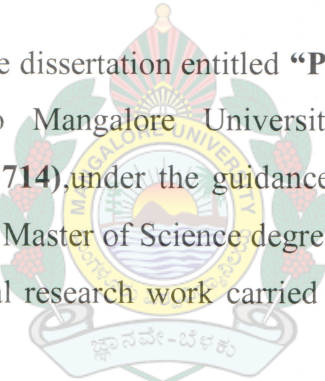
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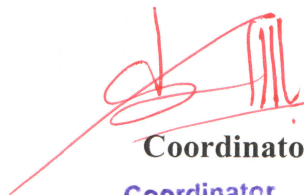
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This is to certify that the dissertation entitled “**Production of Bioplastic from Corn Starch**” submitted to Mangalore University, Mangalore by **Mr. Prasad.R. Shetty(Reg. No.175123714)**, under the guidance of Ms Shwetha Shetty K, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.



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This is to certify that the dissertation entitled "**Phytochemical, Antioxidant, Antimicrobial activity and GC analysis of *Citrus limon* essential oil**" submitted to Mangalore University, Mangalore by **Mr. Rajath kamath (Reg. No. 175123715)**, under the guidance of Ms. **Shwetha Shetty k**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

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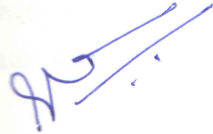
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This is to certify that the dissertation entitled "Study of Effect of Traditional and Modern Dentifrices used against Bacteria isolated from Dental caries" submitted to Mangalore University, Mangalore by Ms. Ranjitha K (Reg. No. 175123716), under the guidance of Ms Shwetha Shetty, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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This is to certify that the dissertation entitled "**Isolation and Characterization of Esterase Enzyme from *Alocasia macrorrhiza* tubers**" submitted to Mangalore University, Mangalore by **Ms. Reshma.K**(Reg. No.175123717), under the guidance of Dr. Akhila H.S., towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by her in the academic year 2018-2019.

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This is to certify that the dissertation entitled "**Evaluation of Alpha Amylase Inhibitory Activity and Antioxidant Activity of *Curcuma amada***" submitted to Mangalore University, Mangalore by **Ms. Saranya K (Reg. No. 175123718)**, under the guidance of **Dr. Akhila H.S.**, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

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CERTIFICATE

This is to certify that the dissertation entitled **“Extraction, Characterization, Antioxidant and Antimicrobial Activity of Essential Oil from *Ruta graveolens*”** submitted to Mangalore University, Mangalore by **Ms. Shruthi (Reg. No.175123719)**, under the guidance of Dr. Akhila H.S towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original project work carried by her in the academic year 2018-2019.

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This is to certify that the dissertation entitled "**Isolation and Characterization of Gelatin from Mackerel skin (*Rastrelliger kanagurta*)**" submitted to Mangalore University, Mangalore by **Ms. Smitha Nayak N (Reg. No. 175123720)**, under the guidance of Dr. Akhila H.S towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019. -ವಿಳಾಸ

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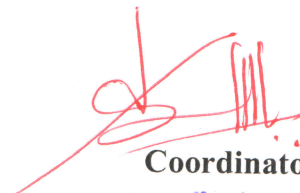
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This is to certify that the dissertation entitled "**Isolation and biochemical characterization of collagen from fish wastes of *Sardinella longiceps* and *Rastrelliger kanagurta***" submitted to Mangalore University, Mangalore by Ms. SNEHA (Reg. No. 175123721), under the guidance of Ms Ashwitha Acharya, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.



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This is to certify that the dissertation entitled "**Isolation and Characterization of Urease Enzyme from *Citrullus vulgaris* Seeds**" submitted to Mangalore University, Mangalore by **Ms. Swathi M. (Reg. No.175123722)**, under the guidance of Ms. Ashritha Acharya., towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original project work carried by her in the academic year 2018-2019.


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This is to certify that the dissertation entitled "**Extraction and Characterization of Chitin from *Daedalea quercina***" submitted to Mangalore University, Mangalore by **Ms V.D Rakshita (Reg. No.175123723)**, under the guidance of Ms. Ashwitha Acharya towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.

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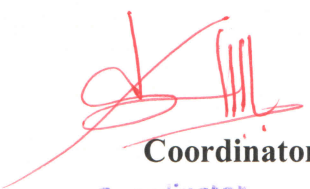
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This is to certify that the dissertation entitled "**Developing the *Drosophila melanogaster* Model to Study the Importance of Dopaminergic Neurons and Its Application in Drug Screening**" submitted to Mangalore University, Mangalore by **Ms. Vanishree V M (Reg. No. 175123724)**, under the guidance of Ms. Ashwitha Acharya, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by them in the academic year 2018-2019.


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