

## Certificate

This is to certify that the entitled, "Effect of Gamma Radiation on root organ culture of *Artemisia Annu L*" submitted to the Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati - 444602 by Mr. Abhishek D. Wagh for the partial fulfillment for the award of Master Degree in Biotechnology for the academic year 2019-2020, under the guidance of Dr. Anita S. Patil, professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati – 444602.

Date: 26/9/20

Place: Amravati

  
HOD

Department of Biotechnology,  
Sant Gadge Baba Amravati University,

Department of Biotechnology  
Amravati - 444602  
Sant Gadge Baba Amravati University  
Amravati.

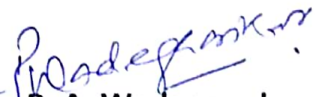


# CERTIFICATE

This is to certify that the dissertation work entitled "**Phytochemical Analysis and Studies on Future Prospects as Drug of Asclepediaceae Family Member.**" is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by **Mr. Dhiraj Sanjay Kongare** for the partial fulfilment for the award of Master Degree in Biotechnology for the academic year 2019-2020 under the guidance of **Dr. V. P. Wadegaonkar**, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/9/20

Place: Khandala Amravati.

  
Dr. P. A. Wadegaonkar

Prof. and Head,

Department of Biotechnology,

Sant Gadge Baba Amravati University

Amravati- 444602

HEAD  
Department of Biotechnology  
Sant Gadge Baba Amravati University  
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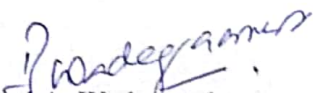


## CERTIFICATE

This is to certify that the dissertation work entitled “**Determination of variation in nucleotide sequence of cytochrome b cytb gene of sloth bear.**” is submitted to Department of Biotechnology, SantGadge baba Amravati University, Amravati by **Miss Amruta Sajay Kasulkar** for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of **Dr. P. V. Thakare**, Associate Professor, Department of Biotechnology, SantGadge Baba Amravati University, Amravati.

Date: 26/9/20

Place: Amravati

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

SantGadgebaba Amravati University, Amravati

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HEAD  
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Sant Gadge Baba Amravati University  
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Department of Biotechnology  
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Amravati.



## CERTIFICATE

This Is To Certify That The Dissertation Work Entitled “ISOLATION AND PURIFICATION OF LYCOPENE” Is Submitted To Department Of Biotechnology ,Sant Gadge Baba Amravati University, Amravati **By Ms. Anjali Rajendra Nandurkar.**

The Partial Fulfilment For The Award Of Master Degree In Biotechnology For The Year 2019-2020, Under The Guidance Of Mr. Prasad A. Wadegaonkar Head Of The Department Of Biotechnology ,Sant Gadge Baba Amravati University. The Some Part Of The Dissertation Were Not Completed Due To Covid -19 Pandemic Thus The Part Of UV-Visible Spectrophotometric Determination Of Lycopene And Analysis Of High Performance Liquid Chromatography These Two Steps Were Taken From Literature.

  
Dr. P A Wadegaonkar Professor

Head Of The Department Of Biotechnology

Sant Gadage Baba Amrayati University, Amravati.

HEAD  
Department of Biotechnology  
Sant Gadge Baba Amravati University  
Amravati.

Date:

Place: Amravati

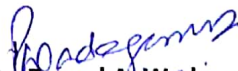


## CERTIFICATE

This is to certify that the dissertation work entitled “Epidemiological study and determination of 3d structure of SarsCoV2 by using bioinformatics tools (homology modeling and molecular docking).” is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Ms. Dipali Sukhadeo Bhalerao for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr.V. P. Wadegaonkar, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 28/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

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Amravati 444602

HEAD  
Department of Biotechnology  
Sant Gadge Baba Amravati University  
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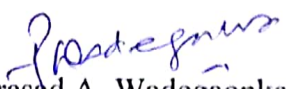


## CERTIFICATE

This is to certify that the dissertation work entitled "**MTP based MIC detection of clinical isolates of *Escherichia coli*.**" is submitted to Department of Biotechnology, Sant Gadge baba Amravati University, Amravati by **Ms. Neha Gajanan Wadhai** for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of **Dr. P. V. Thakare**, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 20/5/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

Sant Gadge baba Amravati University,

Amravati (M.S.) -444602

Department of Biotechnology  
Sant Gadge Baba Amravati University  
Amravati



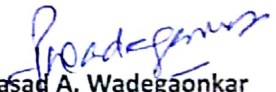
Department of Biotechnology 2

## CERTIFICATE

This is to certify that the dissertation work entitled "Preliminary photochemical analysis and antimicrobial activity of *Epipremnum aureum*." is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Ms. Pranjal Nagorao Kale for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Mr. S. D. Kove, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/9/20

Place: Amravati

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

Sant Gadge Baba Amravati University,

Amravati 444602

HEAD

Department of Biotechnology  
Sant Gadge Baba Amravati University  
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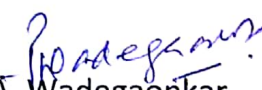


## CERTIFICATE

This is to certify that the dissertation work entitled " Isolation and Characterization of Cellulase Producing Bacteria from Soil". Is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati. by Ms. Poonam Deepakrao Jawanjal for the partial fulfillment for the award of Master Degree in Biotechnology for the Academic year 2019-2020, under the guidance of Mr. S.D.Kove , Assistant professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati. The part of the Dissertation work were not completed due to the COVID-19 Pandemic thus the part of enzymatic assay for cellulase were taken from research paper.

Date : 20/9/20

Place : Amravati

  
Dr. P. A. Wadegaonkar

Professor and Head

Department of Biotechnology

**HEAD**  
Department of Biotechnology  
Sant Gadge Baba Amravati University  
Amravati.

Sant Gadge Baba Amravati University, Amravati.





## “ Elicitation of *Artemisia annua L.* using Methyl Jasmonate”

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### CERTIFICATE

This is to certify that the dissertation work entitled “ **Elicitation of *Artemisia annua L.* using Methyl Jasmonate.**” is submitted to the Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by **Miss. Renuka Mahesh Alkari** for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of **Dr. Anita S. Patil** , Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 20/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

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Department of Biotechnology

Sant Gadge Baba Amravati University,

Amravati 444602

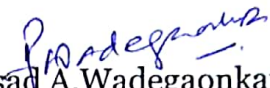
HEAD  
Department of Biotechnology  
Sant Gadge Baba Amravati University  
Amravati



## CERTIFICATE

This is to certify that the dissertation work entitled “ **Assessment of bioactivity of essential oil on *Pectinophora gossypiella*.**” is submitted to Department of Biotechnology, Sant Gadge Baba Amaravati University, Amaravati by **Miss. Rukmini Lalaji Prajapati** for the Academic year 2019-2020. The project has been carried out satisfactorily by him, under the guidance of **Dr. Anita S. Patil**, Associate Professor, Department of Biotechnology, Sant Gadge Baba Amaravati University, Amaravati.

Date: 26/9/20

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

Sant Gadge Baba Amaravati University Amaravati

HEAD

Department of Biotechnology  
Sant Gadge Baba Amaravati University  
Amaravati

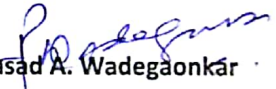


## CERTIFICATE

This is to certify that the dissertation work entitled "Comparative HPTLC and chemical fingerprinting of plant apocynaceae." is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Ms. Rupali Narendra Khajabage for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr. P. A. Wadegaonkar Professor and Head, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 20/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

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Amravati 444602

HEAD  
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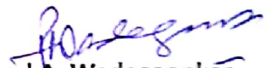


## CERTIFICATE

This is to certify that the dissertation work entitled "Production of bioethanol from waste potatoes." is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Ms. Rutuja Satyawar Dethe for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr. P. A. Wadegaonkar Professor and Head, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

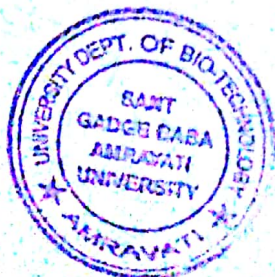
Department of Biotechnology

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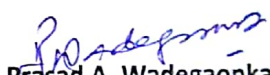


## CERTIFICATE

This is to certify that the dissertation work entitled "Selection of dinucleotide STR markers in sloth bear (*Melursus ursinus*)" is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Ms. Unnati Dharmendra Bajad for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr. P. V. Thakare Associate Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 28/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

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Amravati 444602

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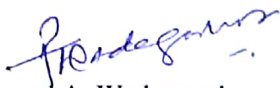


## CERTIFICATE

This is to certify that the dissertation work entitled "**Isolation and Identification of Plant Growth Promoting Bacteria from *Trigonella foenum-graecum* (Fenugreek) and Their Effect on Plant Growth Promotion**" is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by **Ms. Venus Haridas Tupate** for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of **Mr. S. D. Kove**, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati. The last part of dissertation was designed but not completed due to sudden lockdown during COVID19 Pandemic.

Date: 26/9/20

Place: Amravati

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

Sant Gadge baba Amravati University, Amravati

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HEAD  
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Sant Gadge Baba Amravati University  
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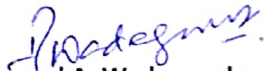


## CERTIFICATE

This is to certify that the dissertation work entitled "Isolation and production of region specific rhizobium from *Glycine max* plant." is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Mr. Shivam Ganeshrao Khandare for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr. P. A. Wadegaonkar, Professor and Head, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

Sant Gadge Baba Amravati University,

Amravati 444602

**HEAD**  
Department of Biotechnology  
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Amravati

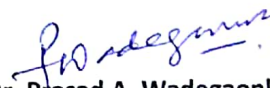


## CERTIFICATE

This is to certify that the dissertation work entitled "Treatment of callus produced from glycine max cotyledons with increasing concentration of different salts." is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by Mr. Vaibhav Vilas Kshirsagar for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of Dr. V. P. Wadegaonkar, Assistant Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/4/20

Place:

  
Dr. Prasad A. Wadegaonkar

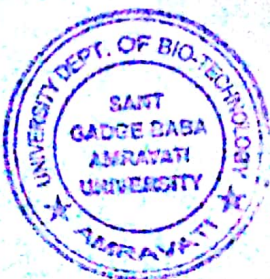
Prof. and Head

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Amravati 444602

HEAD  
Department of Biotechnology  
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Amravati.







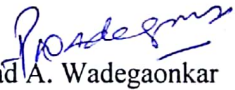
**"Isolation ,Identification And MIC Detection Of *Pseudomonas*"**

### CERTIFICATE

This is to certify that the dissertation work entitled **"Isolation ,Identification And MIC Detection Of *Pseudomonas*"** is submitted to Department of Biotechnology, Sant Gadge baba Amravati University, Amravati by **Mr. Vinod Ramu Patil** for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by him, under the guidance of **Dr. P.V.Thakare** , Associate Professor, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati.

Date: 26/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

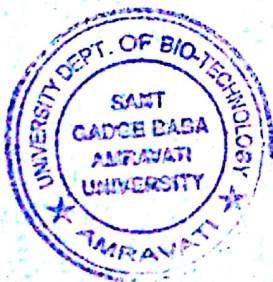
Department of Biotechnology

Sant Gadgebaba Amaravati University,

Amravati ,444602

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Department of Biotechnology  
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**“Protein Profiling Study of in vitro induced callus from variable gamma radiation doses of *Artemisia annua* L. of F1 Generation and F2 generation” GeGeneration”.**

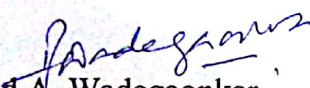
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**CERTIFICATE**

This is to certify that the dissertation work entitled **“Protein Profiling Study of Variable gamma radiation doses of *Artemisia annua* L. of F1 Generation and F2 Generation”**.is submitted to Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati by **Mr. Yash Raviji Gupta**for the partial fulfilment for the award of Master Degree in Biotechnology for the Academic year 2019-2020. The project has been carried out satisfactorily by her, under the guidance of **Dr. Anita S. Patil** , Associate Professor, Department of Biotechnology, Sant Gadge Baba Amravati University,Amravati.

Date: 26/9/20

Place:

  
Dr. Prasad A. Wadegaonkar

Prof. and Head

Department of Biotechnology

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Department of Biotechnology, SGBAU Amrava

Page 2

