



St Berchmans College

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CHANGANASSERY, KERALA

CERTIFICATE

I, hereby certify that this review 'Documentation of medicinal plants of a sacred grove in Nattakom village kottayam district' has been carried out by Ms. M Swathikrishna, Reg No: 22003118 in Partial fulfillment of requirement of Master's Degree in Botany programme offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Tom Joseph

Assistant Professor

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Dr. Salvy Thomas

Head of the department

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Affiliated to Mahatma Gandhi University, Kottayam, Kerala
Changanassery, Kottayam, Kerala, India-686101

CERTIFICATE

I hereby certify that the dissertation entitled "STUDY ON THE ALLELOPATHIC EFFECTS OF *Eichhornia crassipes* (Mart.) Solms AND *Salvinia molesta* D.S.Mitch USED AS GREEN MANURE FOR CROPS" has been carried out by **MISTY MATHEW, Reg.No.22003122** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Biju George

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Assistant professor

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Dr. Salvy Thomas

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Kerala Changanassery, Kottayam, Kerala, India-686101

CERTIFICATE

I hereby certify that the dissertation entitled 'A study on the pollination biology of *Passiflora foetida* L. and bioassay of it's allelopathic effect' has been carried out by ANJU JOSEPH, Reg. No. 22003107 to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. BIJU GEORGE
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Dr. Salvy Thomas
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Changanassery, Kottayam, Kerala, India-686101

CERTIFICATE

I hereby certify that the dissertation entitled “**Evaluation of biochemical changes associated with Cadmium stress in *Amaranthus viridis* L. and its effect on the silver nanoparticle formation property of the plant**” has been carried out by **ANNDEV SEBASTIAN**, Reg. No. **22003108** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Ajeesh Joseph

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Changanasserry, Kottayam, Kerala, India-686101

CERTIFICATE

I hereby certify that the dissertation entitled “A study on the biochemical changes associated with Cadmium stress in *Amaranthus viridis* L. and the evaluation of its phytoremediation potential” has been carried out by **LIYA BABU, Reg. No. 22003117** to St. Berchmans College (Autonomous), Changanasserry, in partial fulfillment of the requirement for the Degree of Master of Science in Botany Program, offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Ajeesh Joseph
(Project Guide)
Assistant professor
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Dr. Salvy Thomas
Head of the department
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St. Berchmans College



CERTIFICATE

I hereby certify that this ^{Project}~~report~~ entitled '**EFFECT OF SEED PRIMING ON GERMINATION PROPERTIES AND SEEDLING BIOCHEMICAL CHARACTERISTICS OF *Abelmoschus esculentus L. cv arka Anamika* UNDER SALINITY AND DROUGHT STRESS**' has been carried out by Ms. Varsha Jiju in partial fulfilment of requirement of Masters' Degree in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Tom Joseph
(Supervising Teacher)
Assistant professor
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Dr. Salvy Thomas
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CERTIFICATE

This is to certify that this project entitled “A STUDY ON THE POLLINATION BIOLOGY OF *SPHAGNETICOLA TRILOBATA* AND BIOASSAY OF IT’S ALLELOPATHIC EFFECT” is an authentic record of work carried by Surya. S. Vijayan (22003126) conducted in the Department of Botany, St. Berchmans College (Autonomous), Changanassey, during the period 2020-2022 under my supervision and guidance in partial fulfilment of the requirement of the M.Sc. Degree of Mahatma Gandhi University, Kottayam. The matter embodied in this report is original and not has been submitted for the award of any other college.

Mr. Biju George

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Assistant Professor

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Date: 31-08-2022



Dr. Salvy Thomas

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CERTIFICATE

I hereby certify that the dissertation entitled "**EFFECT OF AMOXICILLIN AND LEVOFLOXACIN ON *Vigna radiata* L. GERMINATION**" has been carried out by **MANCY ANTONY, Reg. No.22003119** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Soni Scaria

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CHANGANASSERY, KERALA

CERTIFICATE

I hereby certify that this review entitled 'EFFECT OF SEED PRIMING ON GERMINATION PROPERTIES AND SEEDLING BIOCHEMICAL CHARACTERISTICS OF *Vigna unguiculata* (L.) Walp. UNDER SALINITY AND DROUGHT STRESS' has been carried out by Ms. Vidhya Venugopal to St. Berchmans College (Autonomous), Changanassery, in partial fulfilment of requirement of Masters' Degree in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Tom Joseph
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CERTIFICATE

This is to certify that the dissertation entitled '**TISSUE CULTURE STUDIES IN *CRATAEVA MAGNA LOUR. (DC)***' is an authentic record of work done by **AMITHA RAJU**, Reg. No: 22003106, at St. Berchmans College, Changanassery under the supervision and guidance of Dr. Salvy Thomas, Assistant professor and Head, Department of Botany, St. Berchmans College, Changanassery, during the period 2020-22.

Head
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St. Berchmans College
Changanassery, Kerala
Dr. Salvy Thomas

Project Guide & Head

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Date: 30- 08- 2022



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CERTIFICATE

I hereby certify that this project entitled **EFFECT OF TWO VETERINARY DRUGS ENROFLOXACIN AND TETRACYCLINE ON GROWTH AND GERMINATION OF *VIGNA RADIATA (L.) Wilczek*** has been carried out by **SANTHINI PRIDEEP** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement of ^{Masters'} Bachelors' Degree in Botany Program offered by the college during the year 20~~20~~²¹-202~~1~~². This is a bonafide report done by the student under my supervision and guidance.

Dr. SONI SCARIA

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Professor

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CERTIFICATE

I hereby certify that the dissertation entitled "**EFFECT OF MELOXICAM AND CEFPODOXIME ON *Vigna radiata* L. GERMINATION**" has been carried out by **MANJU RAJENDRAN**, Reg. No. **22003120** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Soni Scaria

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CERTIFICATE

I hereby certify that the dissertation entitled **An inventory of wild orchids in Vagamon, Kottayam Dist.** is a bonafide work done by **Neethumol Hezakiel, (Reg No. 22003123)** under my guidance in partial fulfillment of the requirement for the degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Joseph Job

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CERTIFICATE

This is to certify that the dissertation entitled '**TISSUE CULTURE STUDIES IN *BRASSICA NIGRA L. KOCH***' is an authentic record of work done by **Greeshma Thankachan**, Reg. No: 22003116, at St. Berchmans College, Changanassery under the supervision and guidance of Dr. Salvy Thomas, Assistant professor and Head, Department of Botany, St. Berchmans College, Changanassery, during the period 2020-22.

Dr Salvy Thomas

Project Guide & Head
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30-08- 2022



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CERTIFICATE

I hereby certify that the dissertation entitled "A study on the biochemical changes associated with cadmium stress in *Amaranthus tricolor* L. and the evaluation of its phytoremediation potential" has been carried out by **GRACE JOSEPH**, Reg. No. 22003115 to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of the requirement for the Degree of Master of Science in Botany Program, offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Mr. Ajeesh Joseph

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CERTIFICATE

I hereby certify that the dissertation entitled "**Studies on *in vitro* regeneration of *Ophiorrhiza mungos* Linn. and quantification of camptothecin from leaves and galls**" is a bonafide work done by **Manju Thomas, (Reg No. 22003121)** under the guidance of **Dr. Joseph Job**, Associate professor, Department of Botany, in partial fulfilment of requirement for the degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Joseph Job

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CERTIFICATE

I hereby certify that the dissertation entitled "**Studies on the galls and associated endophytic fungus of *Ophiorrhiza mungos* Linn.**" is a bonafide work done by **Trisa Sara Jijo, (Reg No. 22003127)** under the guidance of **Dr. Joseph Job**, Associate professor, Department of Botany, in partial fulfilment of requirement for the degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Joseph Job
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CERTIFICATE

This is to certify that the dissertation entitled “**TISSUE CULTURE STUDIES IN *LINUM USITATISSIMUM L.***” is an authentic record of work done by **Gayathri N S, Reg. No. 22003114**, at St. Berchmans College, Changanassery under the supervision and guidance of Dr. Salvy Thomas, Assistant professor and Head, Department of Botany, St. Berchmans College, Changanassery, during the period 2020-22.

Dr. Salvy Thomas Head
Department of Botany
Project guide & Head
St. Berchmans College
Changanacherry, Kerala

Department of Botany

Date: 30-08-2022





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CERTIFICATE

I hereby certify that the dissertation entitled "EFFECT OF ALBENDAZOLE AND IVERMECTIN ON *Vigna radiata* L. GERMINATION" has been carried out by ASHWIN K SHAJI , Reg. No. 22003110 to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

Dr. Soni Scaria

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Dr. Salvy Thomas

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CERTIFICATE

I hereby certify that the dissertation entitled "**EFFECT OF OXYTETRACYCLINE AND CEPHALEXIN ON GERMINATION OF *Vigna radiata* L.**" has been carried out by **SANIKA GEORGE, Reg. No. 22003124** to St. Berchmans College (Autonomous), Changanassery, in partial fulfillment of requirement for the Degree of Master of Science in Botany Program offered by the college during the year 2020-2022. This is a bonafide report done by the student under my supervision and guidance.

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