

TTWRD&PG NAGARKURNOOL, JADCHERLA
RESEARCH AND INNOVATIONS

NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

SEMINAR: "One day International Webinar Environmental Management of Mosquito Vectors and Covid-19 Vaccine Trials".

DATE: NOV-14-2023.

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE, NAGARKURNOOL, attended one day international webinar conducted by NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN on NOV14-2023. On the topic "CLIMATE CHANGE".



NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

SEMINAR: "One day International Webinar Environmental Management of Mosquito Vectors and Covid-19 Vaccine Trials".

DATE: 28-7-2020

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE, NAGARKURNOOL, attended one day international webinar conducted by Palamooru University on 28-7-2020. On the topic "Environmental Management of Mosquito vectors and Covid-19 Vaccine trials".



NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

SEMINAR: "One day National Webinar PARTNERSHIIPS FOR WILD LIFE CONSERVATION AND SAVING WILD LIFE".

DATE: 4-3-2023

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE, NAGARKURNOOL attended one day National webinar conducted by St. France College for Women on 4-3-2023. On the topic "WILD LIFE CONSERVATION AND SAVING WILD LIFE".



NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

SEMINAR: "One day National Webinar VACCINES WITH REFERENCE TO COVID-19".

DATE: 4-4-2023

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE NAGARKURNOOL, attended one day international webinar conducted by NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN on 4-4-2-23. On the topic "Vaccines with Reference to Covid-19".



The image is an e-certificate from NTR Government Degree College for Women, Mahabubnagar. It certifies that Dr. V. Manjula, a faculty member in Zoology, successfully participated in a national webinar titled "Vaccines With Reference To Covid-19" on April 4, 2023. The certificate is issued by the Department of Zoology in collaboration with IQAC. It features the college's logo on the left and the Government of Telangana's emblem on the right. The certificate is signed by Dr. T. Vijayalaxmi, IQAC Coordinator, and Gangadhar Sripada. A watermark at the bottom right reads "Made for free with Certify'em".

 **NTR GOVT DEGREE COLLEGE FOR WOMEN**
(Accredited by NAAC with 'B' grade) Mahabubnagar-509001



National Webinar
"Vaccines With Reference To Covid-19"

SYH1R0-CE000018 4/4/2023

E-Certificate

This is to certify that **Dr/Mr/Mrs/Miss Dr v manjula, Faculty DL in zoology** has successfully participated in National Webinar on "Vaccines With Reference To Covid-19" organised by Department of Zoology in collaboration with IQAC, NTR Govt. Degree College (W), Mahabubnagar.


Dr.T.Vijayalaxmi
IQAC-Coordinator


Gangadhār.Sripada

Made for free with Certify'em

NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

PUBLICATION: "IN TFR- TRENDS IN FISHERIES RESEARCH, JOURNAL NO-63495 IN 2018".

DATE: 2018

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE NAGARKURNOOL, published a paper in the journal of TFR (trends to fisheries research".



TFR

Trends in Fisheries Research

An International Peer-Reviewed Journal
UGC Approved Journal No. 63495www.sciencejournal.inSTUDIES ON ANTHELMINTIC ACTIVITY OF *CARICA PAPAYA* SEED EXTRACT ON METACERCARIA OF *EUCLINOSTOMUM HETEROSTOMUM*

Manjula. V, Jagadeshwarlu. R, Anand. S and Bhargavi. G.Y*

Department of Zoology, SNVMV, Nampally, Hyderabad, Osmania University, Telangana, India.
(E-mail: -Manjulav765@gmail.com)

ABSTRACT

The present study proved that the effect of *Carica papaya* seed extract as an anthelmintic in the metacercaria of *Euclinostomum heterostomum*. The metacercaria of *Euclinostomum heterostomum* is a parasite in the liver, gills, kidney and the internal organs of the fresh water fish *Channa punctatus*. For the assay a specific concentration of papaya seed extract is prepared by adding Tyrode solution to the drug. Here glycogen content, total protein content and total lipids were estimated in the metacercaria. The study revealed that the decreased levels of glycogen and protein levels was observed in Praziquantel treated and papaya seed extract treated metacercaria when compared to control but any difference was not found in total lipids in control, in Praziquantel and in papaya seed extract treated metacercaria. Hence, the results were indicates due to withstand the stress condition the parasite is trying to get more energy, which leads to decreased levels of glycogen and proteins levels. The total experiment was done by taking Praziquantel as a reference drug.

KEY WORDS: Anthelmintic, *Carica papaya*, Glycogen, Proteins, Lipids, Metacercaria.

INTRODUCTION

Medicinal plants have been identified and used traditionally throughout the world from the beginning of the human civilization (Kalesraj, 1975). These medicinal plants contain active principles which are highly potent against parasites (Tylor *et al.*, 1994). Parasites cause a quantum of health hazard and economic losses to both human and animals Naikarni *et al.* (1976). A number of plants possessing anti-parasitic properties are mentioned as phytochemical, and their mode of action on parasites for example Saponins affect the permeability of the cell membrane of parasites, Isoflavones inhibit the enzymes of glycolysis and glycogenolysis and disturb the Calcium ions, homeostasis activity in the parasites. The anthelmintic activity of *Terminalia arjuna* bark was studied by Bachaya *et al.* (2009) in eggs, larvae and adult of *Haemonchus contortus*. The anthelmintic activity of oil of *Allium sativum* against *Heterakis gallinae* and in *Ascaridia galli* was studied by Nagaiah *et al.* (2000) and in *Haemonchus contortus* studied by Iqbal *et al.* (2001) and in eggs of *Ascaridia galli* invitro by Chybowski *et al.* (1997). Sutton G A and Haik R (1999) observed the anthelmintic activity of alcoholic extract of *Allium sativum* against *Cotylophoron cotylophorum*. Parasites causes a quantum of health hazard and economic loss to both human and animal (Tandon *et al.* 2007). The aqueous and ethanol extracts of *Cucurbita maxima* seeds exhibits effective anthelmintic activity against *Fasciolopsis buski*, and in *Ascaris lumbricoides* and in *Hymenolepis diminuta*, was reported by Tandon *et al.* (2007). These herbal drugs are available in low cost, and show less side effects. By observing all these evidences I have selected *Carica papaya* seeds as an anthelmintic against the progenetic worms of *Euclinostomum heterostomum*, in Invitro condition.

MATERIALS AND METHODS

a) Collection of Fish Specimens:

In present investigation, I have chosen *Channa punctatus*, which is the primary host of the parasite of *Euclinostomum heterostomum*. *Channa punctatus* is most edible and commonly available fish in Mahabubnagar, for collecting parasites. The fishes were collected from the lower lake of the Koil Sagar reservoir, and, it is 40 kilometers distance away from Mahabubnagar. They were brought to the laboratory and examined morphologically and internally for the occurrence of helminth parasites.

b) Collection of Parasites (metacercaria of *Euclinostomum heterostomum*):

The host fish *Channa punctatus* was collected for two years at regular intervals from 2009-2011. Fishes were dissected out in physiological saline (0.75% NaCl solution) for collecting helminth parasites (metacercaria of *Euclinostomum heterostomum*). Encysted worms were collected from the liver, gills and internal organs of the fish *Channa punctatus*. The encysted metacercaria of *Euclinostomum heterostomum* were teased from the host tissue mechanically excised in tyrode solution.



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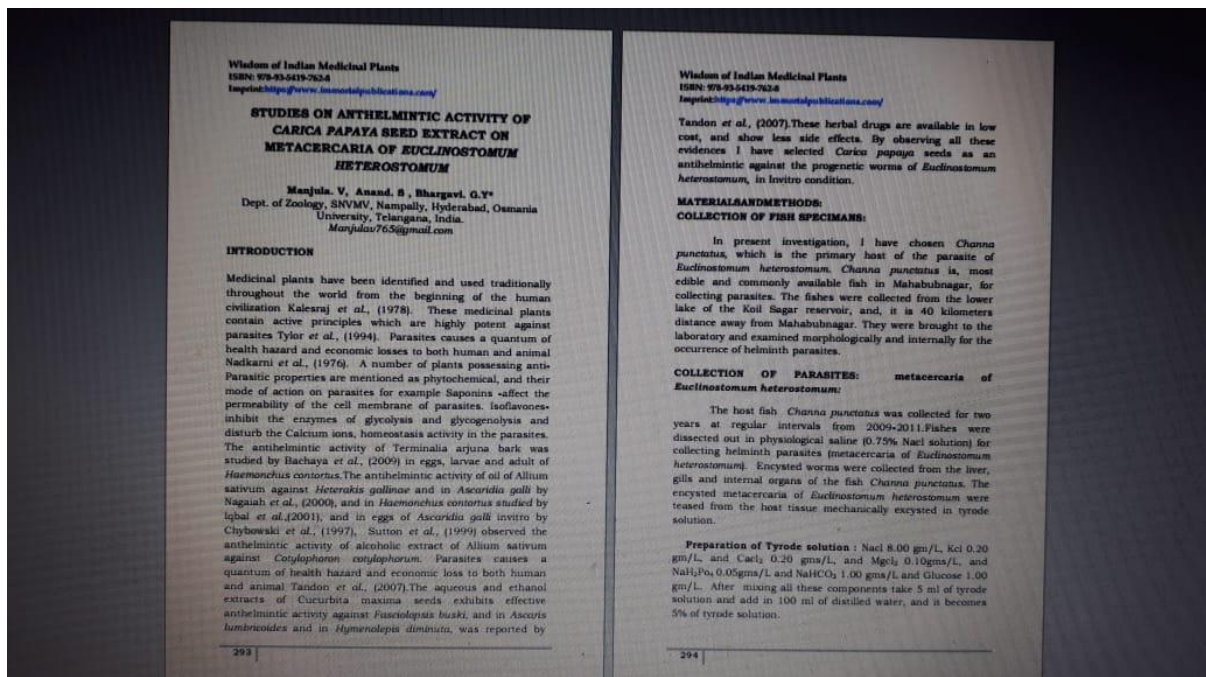
NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

PUBLICATION: "IN WISDOM OF INDIAN MEDICINAL PLANTS".

DATE: 2020

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE NAGARKURNOOL, published a paper in an International journal "Medicinal Plants"



NAME OF THE LECTURER: Dr. V. Manjula

SUBJECT: ZOOLOGY

PUBLICATION: "EVALUATION OF CASTOR VARIETIES BASED ON THE PERFORMANCE OF ERI SILK WORM SAMIA CYNTHIA RACINI IN 2020".

DATE: 2020.

Dr. V. Manjula Assistant Professor TTWRD&PG (M) COLLEGE NAGARKURNOOL, published a paper in an International journal OF BIOLOGICAL AND PHARMACEUTICAL RESEARCH. ON THE TOPIC " EVALUATION OF CASTOR VARIETIES BASED ON THE PERFORMANCE OF ERI SILK WORM SAMIA CYNTHIA RACINI IN 2020".



**EVALUATION OF CASTOR VARIETIES BASED ON THE
PERFORMANCE OF ERI SILKWORM *SAMIA CYNTHIA RICINI***

Dasari Prasanna^{*1}, Gurajala Bhargavi², Manjula²

¹Department of Zoology, Government Degree College, Hayathnagar, Andhra Pradesh, India.

²Department of Zoology, Vanita Maha Vidyalaya, Namapally, Exhibition Grounds, Hyderabad, Andhra Pradesh, India.

ABSTRACT

Eri culture has been proven beneficial and gainful employment to the castor farmers, as 30% of defoliation will not affect the seed yield. Seeds of high oil yielding castor hybrids / varieties viz. DCS-9, 48-1, DCH-519, DCH-177 along with local variety are collected from Directorate of Oil Seeds Research, Hyderabad. The performance of eri silkworm viz. larval traits, cocoon traits and grainage traits were studied by feeding them with the leaves of five castor genotypes separately in tray rearing method for three seasons for two consecutive years. The rearing performance and economic cocoon parameters were very much influenced by temperature and humidity. Season specificity was noticed in rearing performance of eri silkworm, and observed maximum yield during winter and rainy season than in summer. Local and DCH-519 castor genotypes are found to be superior in terms of shell ratio during three seasons. This study reveals that castor farmer can switch to DCH- 519 hybrid castor cultivation for eri culture as it yields more after local castor variety would be double beneficial to the farmer in terms of castor oil and silk yield.

Key Words: Castor genotypes, Larval duration, Larval traits, Cocoon traits, Grainage traits.

INTRODUCTION

Andhra Pradesh is located in the Deccan plateau holds immense potential for the development of ericulture. Castor plants grow as shrubs or small trees in tropical and temperate regions. It is an important crop of dry lands in semi arid zones and small farmers and tribals in this area can generate additional income by switching to Ericulture as a subsidiary crop along with castor cultivation. Castor is grown predominantly in drought prone districts like Mahabubnagar, Nalgonda, Rangareddy, and Medak of Andhra Pradesh as a rain fed crop. Eri silkworm is a domesticated wild silkworm and economically third important after mulberry and tasar silkworms. It is polyphagous in nature and castor is its primary food plant.

Corresponding Author

Dasari Prasanna

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Life cycle includes egg, larva, pupa and adult stages, larvae undergoes four moults and pass through five larval stages. Ericulture has an important role in poverty alleviation and empowerment of woman, besides vast demand of its good blending and dyeing properties needed impetus is to be laid on to introduce ericulture in the state in a big way (Jayaprakash *et al.*, 2003; Saratchandra, 2003). Recently National Institute of Nutrition, Hyderabad evaluated the nutritional value of eri pupae and emphasis can be laid on to use them as feed in poultry, piggery and aquaculture industries. 30% of the foliage from castor plant was used for rearing of eri silkworms without affecting the main seed production (Devaiah *et al.*, 1984, Raghavaiah, 2003; Jayaraj, 2004). More than 11.65 lakh hectares of land in India is covered under castor plantation in different states Gujarat, Andhra Pradesh, Karnataka, Madhya Pradesh, Tamilnadu, Orissa, Maharashtra. Andhra Pradesh is leading in 2nd position in the area under castor cultivation next to Gujarat. There are several varieties / hybrids of castor available in India and abroad. Hence

there is a need for identification of suitable castor varieties / hybrids that meet the agro climatic needs of this area and yield better for successful rearing of eri silkworms to establish ericulture industry in the state. There are many reports available on the rearing performance of eri silkworm on various food plants under North Eastern conditions of the country (Saratchandra and Joshi, 1985; Biswas and Das, 2001; Hazarika *et al.*, 2003). Such

of F test was tested at 5 percent and significant difference was observed among the genotypes.

RESULTS AND DISCUSSION

The data on comparative rearing performance of eri silkworm on castor genotypes during rainy, winter and summer seasons respectively are presented in the following tables 1, 2 and 3.



NAME OF THE FACULTY: Dr .V.MANJULA

NAME OF THE PROGRAMME: ORIENTATION PROGRAMME

DATE OF THE PROGRAMME:

A THREE DAYS ORIENTATION PROGRAMME WAS CONDUCTED BY THE GURUKULAM ON AT RAJEDRA NAGAR I Dr.V. MANJULA ATTENDED THE PROGRAMME. VARIOUS RESOURCE PERSONS HAVE GIVEN THEIR SUGGESTIONS TO IMPROVE OUR KNOWLEDGE.



HOD

IQAC COORDINATOR

PRINCIPAL

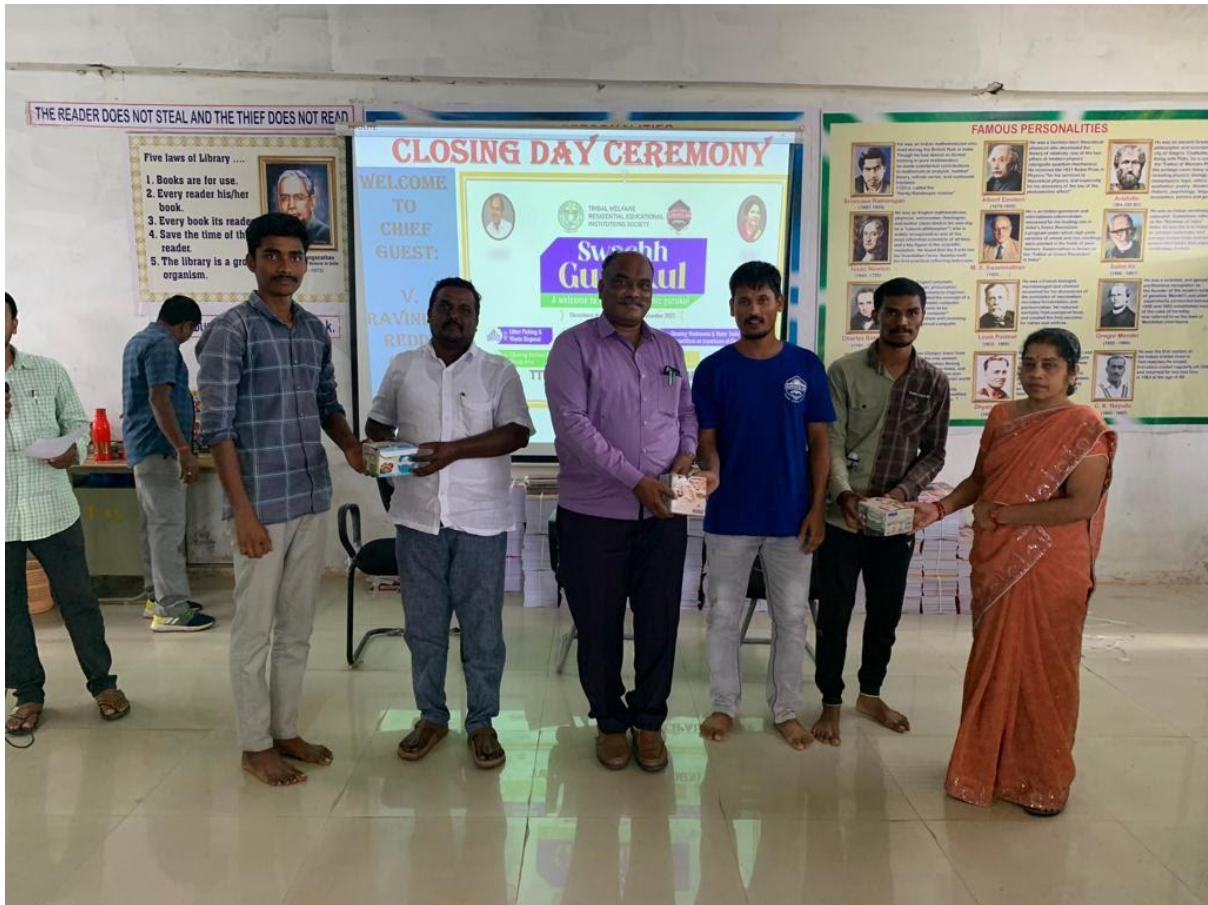
NAME OF THE FACULTY: Dr.V. MANJULA

NAME OF THE PROGRAMME: SWACHA GURUKULAM

DATE OF THE PROGRAMME: 1-9-2022 TO 10-9-2022

I Dr.V. MANJULA ATTENDED SWACHA GURUKULAM PROGRAMME CONDUCTED BY THE GURUKULAM IN ALL TTWRDC'S AT COLLEGE LEVEL HAVE ATTENDED IN OUR COLLEGE. ALL THE STAFF AND STUDENTS HAVE PARTICIPATED IN THAT PROGRAMME AND CONDUCTED VARIOUS ACTIVITIES DAY WISE.





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NAME OF THE PROGRAMME: ONLINE FACULTY FORUM CONDUCTED BY GURUKULAM ZOOLOGY FACULTIES.

DATE: 22-9-2022

A one day faculty development programme was organized by the faculties of zoology Gurukulam TTWRDCOLLEGES, on 22-9-2022 online. I Dr. V.MANJULA also attempted the programme and involved the discussion.



KOTTE



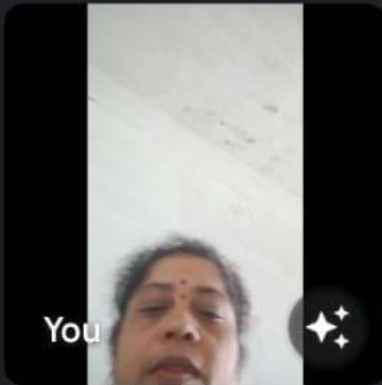
KORUTLA



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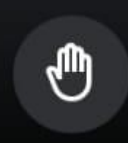
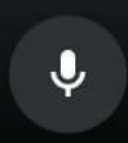


You



Swapna

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NAME OF THE FACULTY: Dr.V. MANJULA

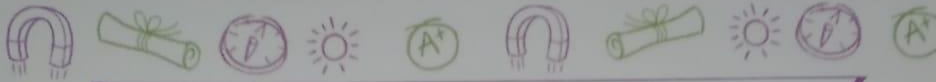
NAME OF THE PROGRAMME: POISE-SCHOOL LEADERSHIP DEVELOPMENT PROGRAMME FOR PRINCIPALS

DATE OF THE PROGRAMME: 16-10-2022 TO 22-10-2022.

I Dr.V. MANJULA PARTICIPATED A POISE PROGRAMME SCHOOL LEADERSHIP DEVELOPMENT PROGRAMME FOR PRINCIPALS HELD BY THE GURUKULAM AT KANHA SHANTHI VANAM AT CHEGURU, R.R. DIST. FROM 16-10-2022 TO 22-10-2022. AND RECEIVED THE CERTIFICATE ALSO.







Brighter Minds

heartfulness



From Wonder, Wisdom
Heartfulness Education Trust

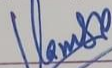
POISE


School Leadership Development Program for Principals

This certificate is awarded to Dr. V. Manjula
of RDC M. Nagar Kurnool, for your participation in
POISE, residential leadership development program at Kanha Shanti Vanam, Kanha Village, Global
Heartfulness Meditation Training Centre from 16th to 21st October, 2022.

For your POISED state in your Heart will guide you in the Pursuit of Inner Self Excellence as you
'Learn to Meditate' on regular basis. A newer opportunity awaits you to leap from the role of Principal
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A new Inner Journey has just begun and REST NOT till the ideal is achieved!


Vamsi Challa
Joint Secretary
(Shri Ram Chandra Mission)


Secretary
TTWREI Society (Gurukulam)
Masab Tamir, P.W.

About Brighter Minds

Brighter Minds with its global presence in twenty five countries, offers holistic brain development programs. Brighter Minds is an educational initiative to equip children with tools and methods to enhance cognitive functioning for achieving personal excellence and instil confidence in oneself. Brighter Minds programs are based on scientific theory and practical research about whole-brain enrichment, neuroscience / neuroplasticity, epigenetics and brain wave entrainment. Brighter Minds training methods include a series of interactive proprietary tools and techniques; and provides a learning environment based on joy, positivity, motivation and love. Brighter Minds program is designed to enrich sense of observation & intuition, strengthen memory, creativity & imagination, sharpen focus, self-awareness, boost self-confidence, deepen empathy and improve comprehension.

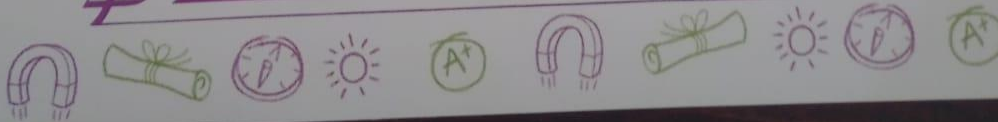
About Heartfulness

Our Mission

To offer all humanity a simple & effective set of practices for relaxation, meditation, regulating the mind, and building inner strength and attitudes to create a lasting sense of fulfilment and overall well-being

www.brighterminds.org

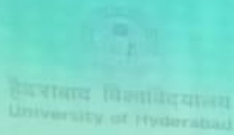
www.heartfulness.org/education



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PRINCIPAL



Abstracts e-book

DST- "Synergistic Training Program Utilizing The Scientific and Technological Infrastructure (STUTI) - 2023

DST-STUTI 2023

Training program on

Advanced Techniques In Biomedical Research

Dates

10th to 22nd January 2023, School of Life Sciences,
University of Hyderabad.

Jointly organized by

Society for Neurochemistry, India (SNCI)
School of Life Sciences, University of Hyderabad
Hyderabad, T.S.





NAME OF THE FACULTY: Dr.V. MANJULA

NAME OF THE PROGRAMME: CONFERENCE BIOASIA-2023, ADVANCE FOR ONE

DATE OF THE PROGRAMME: 24-2-2023 TO 26-2-2023.

I Dr.V. MANJULA ASSISTANT PROFESSOR IN ZOOLOGY WAS ATTENDED THE CONFERENCE 20TH BIOASIA-2023, ADVANCE FOR ONE ON 24-2-2023 TO 26-2-2023. AND RECEIVED PARTICIPATION CERTIFICATE ALSO.





BIOASIA 2023
ADVANCING FOR ONE

#BioAsia2023
#20yearsofBioAsia





Certificate of Participation

This is to certify that Dr./Mr./Ms Dr. V. Manjula
from TIWRDC & PG (M) NAGARKURNOOL has participated in
"BIOASIA 2023 CONFERENCE" from February 24th - 26th, 2023 held at Hyderabad
International Convention Center, Hyderabad, India

Organiser



[Handwritten Signature]
Authorized Signatory

HOD

IQAC COORDINATOR

PRINCIPAL

NAME OF THE FACULTY: Dr.V. MANJULA

NAME OF THE PROGRAMME: TWO-DAY NATIONAL CONFERENCE ON RECENT TRENDS IN SYSTEMS BIOLOGY

DATE OF THE PROGRAMME: 27-3-2017 TO 28-3-2017.

I Dr.V. MANJULA WAS ATTENDED A TWO DAY NATIONAL CONFERENCE HELD BY GOVT DEGREE COLLEGE AT WANAPRTHY, ON 27-3-2017 TO 28-3-2017. ON THE TOPIC RECENT TRENDS IN SYSTEMS BIOLOGY.



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