Report on National Conference on Recent Trends in Plant Sciences & Biotechnology, 2022

| Title of the Event | Recent Trends in Plant Sciences & Biotechnology, 2022 |
|-------------------------------|---|
| Date and Time | 3 rd November to 4 th November, 2022 |
| Mode | Offline mode |
| School/Directorate | Botany, Discipline, School of Biological Sciences and Biotechnology |
| Collaborating Agency | Nil |
| Participants | Faculties and Research Scientist from National Institute, Ph. D. students and M. Sc. Students |
| Detail of the Resource Person | Lead Lecture 1: Prof. S. R. Yadav INSA Senior Scientist, Department of Botany, Shivaji University, Kolhapur. Role of Botanists in 21st Century. |
| | Lead Lecture 2: Dr. James Jacob Former Director, Rubber Research Institute of India, Kottayam, Kerala. Imperfect Stoichiometry Between Photosynthetic Electron Production and Carbon Reduction Alters Cellular Redox Homeostasis. |
| | Lead Lecture 3: Dr. Lidita Khandeparkar CSIR-National Institute of Oceanography, Dona Paula –Goa. Marine microbial diversity and its implications in population connectivity. |
| | Lead Lecture 4: Dr. Kundan Kumar, Department of Biological Sciences, Birla Institute of Technology & Science Pilani, K. K. Birla, Goa Harnessing the potential of mangrove plants for antibacterial activity. |
| | Lead Lecture 5: Dr. R. Ramesh Principal Scientist, ICAR- Central Coastal Agricultural Research Institute, Old Goa. Diseases caused by Phytophthora and their management in the plantations of Coastal regions of India. |
| aculty attended | 15 |
| tudent attended | 80 |
| o. of external participants | 45 |
| he objective/description of | The objective of the conference was to bring together p biologists across the country who would deliver inspiring t |

| the activity | and share their latest research experiences. | | | | |
|----------------------------|---|--|--|--|--|
| Benefit/Key outcome of the | To gain the recent scientific developments, practical challenges faced, and effective solutions in all aspects of Plant Biology and Biotechnology. M. Sc. Students, research scholars and teachers were benefitted from this event. | | | | |

Convener/Vice-Dean (Res.) RTPSB, 2022

Organizing secretary, RTPSB, 2022

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Report on

National Conference on Recent Trends in Plant Sciences & Biotechnology, 2022

Two days National Conference on Recent Trends in Plant Sciences & Biotechnology was organized by Botany Discipline, School of Biological Sciences and Biotechnology on 3rd November and 4th November, 2022 at Chemistry Auditorium, Goa University. The total of 135 delegates participated in the National Conference including M. Sc., Ph. D students and faculty members.

The objective of the conference was to bring together plant biologists across the country who would deliver inspiring talks and share their latest research experiences.

National Conference on RTPSB, 2022 was inaugurated by honorable Vice-Chancellor of Goa University Prof. H. B. Menon.

There were five sessions with five lead lectures, 19 oral presentations and 26 poster presentations.

The first session was delivered by Prof. S. R. Yadav, who spoke on Role of botanist in 21st Century, which was chaired by Prof. S. Krishnan and Rapporteur was Dr. Siddhi Jalmi. He highlighted the role of Botanists in educational and research institutes in documentation, conservation, bioprospecting and utilization of biodiversity.

The second lead lecture was delivered by Dr. James Jacob, which was chaired by Prof. P. K. Sharma and Rapporteur was Dr. Shanti Dessai. He spoke on topic "Are too many excited electrons produced during Photosynthesis". He enriched our knowledge on importance of photochemical activity and its relation with oxygen evolution and reduction of carbon dioxide with the help of its protons. This session was followed by two oral presentation by Dr. Satej Bhushana and Dr. Jaiswal from Bhavnagar, Gujarat.

In third session, lead lecture was given by Dr. Lidita Khandeparkar on "Marine Microbial diversity and its implication on population connectivity". She focused on various aspects of diversity ecosystem functioning and biocommunication. She highlighted about a case study on microbial diversity found in the estuarine sediments of the Mandovi and Zuari. She further explained the role of biofilm in biofouling and in settlement of barnacle larvae on its adults. This session was followed by 12 research students' oral presentations who competed for the best

oral presentation. This session was chaired by Dr. Kundan Kumar and Rapporteur Dr. Meghnath Prabhu.

Second day of the conference began with the fourth lead lecture by Dr. Kundan Kumar which was chaired by Prof. S. Krishnan and Rapporteur Ms. Dviti Mapari.

He spoke on "Harnessing the potential of mangrove plants for antibacterial activity". He highlighted the medicinal properties of mangrove plant extracts and its functional characterization". This lecture was followed by two oral presentations by Dr. Surendra Gond and Dr. Vinod Kannaujiya.

Poster session began after the tea break where 26 young researcher participated for the best poster presentation competition.

Last session was delivered by Dr. R. Ramesh which was chaired by Prof. B. F. Rodrigues and Rapporteur Ms. Gandita Kundaikar. He spoke on "Diseases caused by Phytopthera and their management in the plantations of coastal regions of India". He briefed about the diseases caused by Phytopthera and its effect on various agricultural crops. He also emphasized on various management practices to control Phytophthera pathogens. This lecture was followed by two oral presentations.

Two days National Conference concluded with valedictory function which was presided over by Dean Incharge Prof. Sanjeev Ghadi.

Prof. S. Krishnan

Convener, RTPSB, 2022

Dr. Rupali Bhandari Organizing Secretary, RTPSB, 2022

Local Advisory Board

Patron

Prof. Dr. Harilal Menon Vice-Chancellor, Goa University

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Convenor

Prof. S. Krishnan Vice-Dean (Research; SBSB) skrish@unigoa.ac.in 09423883072 8669609228

Organising Secretary

Dr. Rupali Bhandari Programme Director (Botany Discipline; SBSB) rupali.bhandari@unigoa.ac.in 09764679056 8669609317

Members

Prof. B.F. Rodrigues Prof. P.K. Sharma Prof. Vijaya Kerkar Dr. Siddhi Jalmi

Contact: rtpsb2022@gmail.com

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National Conference

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Recent Trends in Plant Sciences

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Biotechnology

3rd & 4th November 2022



Venue Chemistry Auditorium, Goa University



Convenor/Organising Secretary GOA UNIVERSITY TALEIGAO PLATEAU GOA- 403 206 Botany Díscíplíne School of Biological Sciences & Biotechnology Goa University

BACKGROUND/ THEME & OBJECTIVE

Research in Plant Sciences is making rapid advancement with newer ideas and challenges. The National Conference on Advances in Plant Sciences & Biotechnology is expected to be attended by the participants from all over India. The goal of the conference is to bring highly accomplished researchers and students in the field encompassing basic, modern and applied aspects to enthuse, deliberate and summarize on the research carried out in the field and bring out the proceedings of the presentations.

SEMINAR THEMES

- 1. Biodiversity of Flants & Microbes
- 2. Phytochemistry & Bioprospecting
- 3. Developmental Biology
- 4. Mycology & Plant Pathology
- 5. Algal & Flant Biotechnology
- 6. Ecophysiology & Molecular Biology

PUBLICATION OF SEMINAR PAPERS

Selected papers will be published by a prominent publisher after peer review process. Manuscript should be in camera ready form and should not exceed four typed pages. Manuscript should con-tain a short running title with name of authors, their affiliation, brief introduction, experimental, results and discussion, conclusions and references. Figures and tables are to be interposed in the text with captions. Authors are requested to prepare the manuscript in MS WORD using Arial font (12 size) and 1.5 lines spacing in the main text.

CALL FOR PAPERS

Authors/delegates are invited to submit online abstract (one page) accompanying a filled in registration form and the registration fee on or before 15th October 2022. Facilities for Power Point presentation will be made available. The poster dimension should be $120 \text{ cm } \times 80\text{-}100 \text{ cm}$.

About....

Goa is the smallest state in India, a biodiversity hotspot harbouring ecosystems like marine, estuaries, sand dunes, beaches, lateritic plateaus, mangroves, khazans, riverine as well as forests and grasslands. Panjim, the capital city located in the center is well-connected with an international airport, roads and trains from all parts of India. The state is known for its temples, churches, lakes, springs, waterfalls and famous beaches. Peaceful Goan lifestyle and cultural heritage lures a large number of tourists every year.

Goa University, accredited with A grade and ranked between 101—150 by NIRF, ranked 23rd by India Today and between 241-250 in QS World University Rankings for BRICS countries. Goa University is located on Taleigao Plateau overlooking Zuari estuary on a picturesque campus spread over 427.49 acres with state-of-the art infrastructure. It offers 33 programmes leading to PG and 25 pro-grammes leading to Ph.D. degree in various disciplines.

Botany Programme was established in June 1990 and recognized for continuous UGC-SAP assistance since 2000 and DST-FIST assistance in 2000 and 2010 and assisted financially by all the national funding agencies like DBT, DST, CSIR, ICMR, ISRO, MOEAF, Planning Commission etc.. The thrust areas of the faculty include Biodiversity, Eco-Physiology, Plant Biotechnology, Bioprospecting.

ACCOMODATION

The city of Panjim in particular and Goa in general has a large number of excellent hotels. Panjim is Approx. 8 Km from the Goa University, venue of the seminar, is well connected with local bus service. However to note that there is no UBER and OLA service available in Goa. For more information please visit the hotels sites. Limited guest house accommodation for students staff is available. November will be pleasant with no requirement for woollies.



IMPORTANT DATES

| Conference | 3 rd & 4 th November 2022 |
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| Last Day of Registration and Abstract Submission | 15 th October 2022 |
| Notification to Authors | 19 th October 2022 |

Confirm your seat with us......

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REGISTRATION FEES

| Attendees | Up to 15 th Oct 2022 | After 15 th October 2022 |
|------------------------|------------------------------------|--|
| \$tudent; | 1,500/- | 2,000/- |
| Faculty | 3,000/- | 3,500/- |
| Accompanying Person | 1,500/- | 2000/- |

Note: Registration fees doesn't include accommodation charges

| | Progra | m Schedule, RTPSB, 2022 | | | | | | | |
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| | Venu | e: Chemistry Auditorium, Goa University | | | | | | | |
| Day 1 | | 3 rd November, 2022 | | | | | | | |
| 09:30 am- 10:00 am | REGISTRATION | | | | | | | | |
| 10:00 am- 10:30 am | INAUGURATION | | | | | | | | |
| 10:30 am- 10:45 am | HIGH TEA | | | | | | | | |
| 10:45 am- 11:30 am | Lead Lecture 1: Prof. INSA Senior Scientis Title: Role of Botanis | t, Department of Botany, Shivaji University, Kolhapur. | | | | | | | |
| | Chairperson: Prof. S. Rapporteur: Dr. Siddh | | | | | | | | |
| 11:30 am- 12:15 pm | Lead Lecture 2: <u>Dr. James Jacob</u> Former Director, Rubber Research Institute of India, Kottayam, Kerala. | | | | | | | | |
| | | hiometry Between Photosynthetic Electron Production and ters Cellular Redox Homeostasis. | | | | | | | |
| | Chairperson: Prof. Pra Rapporteur: Dr. Shan | | | | | | | | |
| Presentation No. | Time | Session 1 (Oral presentation) | | | | | | | |
| 110. | | Session 1 (Oral presentation) | | | | | | | |
| OP1 | 12:15 pm-12:30 pm | Dr. Satej Bhushana, Ashutosh Kaushika and Vaibhav A. Mantri | | | | | | | |
| | 12:15 pm-12:30 pm | Dr. Satej Bhushana, Ashutosh Kaushika and Vaibhav A. | | | | | | | |
| | 12:15 pm-12:30 pm 12:30 pm-12:45 pm | Dr. Satej Bhushana, Ashutosh Kaushika and Vaibhav A. Mantri Differential effect of aeration and static conditions on growth and physiology of Ulva under controlled cultured | | | | | | | |
| OP1 | | Dr. Satej Bhushana, Ashutosh Kaushika and Vaibhav A. Mantri Differential effect of aeration and static conditions on growth and physiology of Ulva under controlled cultured conditions. Dr. Santlal Jaiswar, Deepanshu Kumawat, Nima Mathew, | | | | | | | |

| | | Ecophysiological analysis of Amaranthus cruentus and Capsicum annuum L., of Goa. |
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| | 01:00 pm- 02:00 pm | LUNCH |
| | 02:00 pm-02:45 pm | Lead Lecture 3: Dr. Lidita Khandeparkar |
| | | Principal Scientist, CSIR-National Institute of Oceanography, Dona Paula Goa. |
| | | Title: Marine microbial diversity and its implications in population connectivity. |
| | | Chairperson: Prof. Vijaya Kerkar |
| | | Rapporteur: Dr. Trupti Asolkar |
| | 2:45 pm-5:00 pm | ORAL PRESENTATION COMPETITION |
| | | Chairperson: Dr. Kundan Kumar Rapporteur: Dr. Meghnath Prabhu |
| OP4 | 02:45 pm- 02:55 pm | Swetha P R and Resmi M. S. |
| | | Plant growth promoting activities of fungal endophytes isolated from <i>Aegle marmelos</i> corr. |
| OP5 | 02:55 pm-03:05 pm | Ravina Pai and Prabhat Kumar Sharma |
| | | Exogenous Supplementation of Salicylic Acid in Alleviation of Salt Stress in Sorghum Plants (Sorghum bicolor L.). |
| OP6 | 03:05 pm-03:15 pm | Firdous K. A. and Resmi M.S. |
| | | Heavy metal stress induced responses and mechanisms of plant defense in <i>Alternanthera tenella</i> Colla. |
| OP7 | 03:15 pm-03:25 pm | Arti Dabolkar and Krishnan Sellappan |
| | | Advantages of non-conventional natural dye extraction techniques in comparison with traditional methods. |
| OP8 | 03:25 pm-03:35 pm | Kavyashree K, Sumashri K. S, Shilpa N, Sugandha S. and Chauhan H. |
| | | Isolation and Identification of Coprophilous Fungi Associated with the Tibetan Wild Ass (Equus kiang). |
| | 03:35 pm-03:45 pm | TEA BREAK |
| OP9 | 03:45 pm-03:55 pm | Annie Princy Nadar and Krishnan Sellappan |

| | | Elucidation of biological activity of zinc oxide-based nanoparticles using plant constituents of <i>Syzygium cumini</i> (L.) and <i>Syzygium salicifolium</i> (Wight) Graham. |
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| OP10 | 03:55 pm-04:05 pm | Pratheeksha and G.R. Janardhana Floristic diversity and variation in selected micro-habitats of Southern Western Ghats regions of Uttara Kannada |
| OP11 | 04:05 pm-04:15 pm | District of Karnataka State. Aparna Saraf and Divya Lobo |
| | o mar para a mar para | Elemental analysis of different plant parts of Spermadictyon suaveolens Roxb." |
| OP12 | 04:15 pm-04:25 pm | Amrutha K and Vivek P.J. Genome-wide bioinformatics analysis of CDPK gene family in Ginger (<i>Zingiber officinale</i> Rosc.). |
| OP13 | 04:25 pm-04:35 pm | Suhas B Karle and Kundan Kumar Genome Wide Analysis and Molecular Characterization of TIP Genes from Oryza sativa Indica Cultivar. |
| OP14 | 04:35 pm-04:45 pm | Aparna Saraf and Nikki Huria Elemental characterization of leaf extracts of three different species of Mulberry: Morus alba L., Morus nigra L. and Morus indica L., using Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES). |
| OP15 | 04:45 pm-05:00 pm | Nishma M. and Vivek P.J. Identification and bioinformatic analysis of CDPK gene family based on transcriptome data of Curcuma longa L. |
| | 05:00 pm-05:30 pm | Cultural Programme |

| Day 2 | 4 th November, 2022 | | | | |
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| Presentation No. | Time | Session 3 (Oral presentation) | | | |
| | 10:00 am- 10:45 am | Lead Lecture 4: Dr. Kundan Kumar Associate Professor, Department of Biological Sciences, Birla | | | |
| | 10.43 am | Institute of Technology & Science Pilani, K. K. Birla, Goa. | | | |
| | | Title: Harnessing the potential of mangrove plants for antibacterial activity. | | | |

| | | Chairperson: Prof. S. Krishnan Rapporteur: Ms. Dviti Mapari |
|-----------|------------------------|---|
| | 10:45 am- 11:00 am | Dr. Surendra K. Gond, Rusi Lata and Uzma Khan Induction of stress tolerance in plants by endophytic microorganisms. |
| | 11:00 am- 11:15 am | Dr. Vinod K. Kannaujiya Effects of light and ultraviolet radiation on accessory light harvesting complex of cyanobacteria. |
| | 11:15 am- 11:30 am | TEA BREAK |
| PP01-PP25 | 11:30 am- 01:00 pm | POSTER SESSION |
| | 1:00 pm-2:00 pm | LUNCH |
| | | Session 4 (Oral presentation) |
| | 02:00 pm- 02:45 pm | Lead Lecture 5: <u>Dr. R. Ramesh</u> Principal Scientist, ICAR- Central Coastal Agricultural Research Institute, Old Goa. |
| | | Title: Diseases caused by Phytophthora and their management in the plantations of Coastal regions of India. |
| | | Chairperson: Prof. Bernard Rodrigues Rapporteur: Ms. Gandita Kundaikar |
| | 02:45 pm- 03:00 pm | Aditi Naik and Krishnan Sellappan Exploring the Callus of Annona muricata as a Potential Source of metabolites with Anti-oxidant and Anti-cancer Activity. |
| | 03:00 pm- 03:15 pm | Rahul Chillawar Some Important Medicinal Plants of Nanded District. |
| | 03:15 pm 03:30 pm | TEA BREAK |
| | 03:30 pm - 04:00 pm | VALEDICTORY FUNCTION |

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| Mr. Assad Ahamad Shaikh | Dr. Janet F. Vaz e Mascarenhas | Ms. PRASHAKA PREMNATH NAIK | Ms. Sushama Salgaonkar | Ms. FIRDOUS K A | Ms. SWETHA P R | Dr. Santlal Jaiswar | Ms. LIVIYA GAIKWAD | Dr. Satej Bhushan | Mr. Rahul Ramesh Chillawar | Dr. Surendra Kumar Gond | Name |
| Student | Assistant Professor | Student | Assistant Professor | Research Student | Research Student | Post-doc Student | Research Student | Post-doc Student | Student | Assistant Professor | Designation |
| St. Xavier's College, Mapusa Goa | Carmel College of Arts, Science and Commerce for Women | Government college of arts science and commerce Quepem Goa | Ganpat Parsekar college of education, Harmal, Goa. | SREE NEELAKANTA GOVT SANSKRIT COLLEGE, PATTAMBI | SREE NEELAKANTA GOVT SANSKRIT COLLEGE, PATTAMBI | CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar. | The Institute of Science, Mumbai Homi Bhabha State University | CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar. | Yeshwant Mahavidyalaya Nanded | Department of Botany, Banaras Hindu University, Varanasi | Affiliation |
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| | Ms. Nikki Huria | Ms. Arti Karamchandani | Mr. Avinash sudhakar Gaonkar | Ms. Deepashri Siddharth Bandodkar | Ms. NELSON JOHNNY GOMES | Ms. Deepashree Naik | Ms. Walusha Carmel Silveira | Ms. AMRUTHA K | Ms. Nishma M | Ms. Amisha Anil Sakhalkar | Dr. JAMES DSOUZA | Ms. Anisha Ancia Silveira |
| Student | Research | Research Student | Student | Student | Student | Lab Assistant | Student | Research scholar | Research Scholar | Student | Assistant Professor | Student |
| Dr. Homi Bhabha State University | The Institute Of Science | BITS-Pilani, Goa Campus | Govt college of arts science and commerce Quepem goa | Govt college of arts science and commerce Quepem goa | Govt. college of arts science and commerce, Quepem Goa | Don Bosco College of Agriculture, Sulcoma Goa | St. Xavier's College, Mapusa Goa | Sree Neelakanta Govt Sanskrit College, Pattambi | Sree Neelakanta Government Sanskrit College Pattambi | St. Xavier's College, Mapusa Goa | St. Xavier's College, Mapusa Goa | St. Xavier's College, Mapusa Goa |
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| Student | Student | Research Scholar | Student | Project Associate | Research Student | Student | Research Student | Assistant Professor | Project associate | Student |
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| | Ast- Box | Assistant | Research student | Associate Professor | Assistant Professor | Research Student | Research Student | Assistant Professor | Research Student | Student | Student |
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I Marina Noik Maline Karapurkar Surbhi Suresh Fernandes Vanessa A Moses Musisi

Ph D.STUDENTS I

| Sr No. | Name | Institution/ University/Industry | Presenter | Signature |
|--------|---------------------------------|-------------------------------------|-----------|-----------|
| 1 | Annie Princy Nadar | Goa university | Oral | Amey. |
| 2 | Roxiette Heromina Siqueira | Goa University | Listener | Diglama |
| 3 | Savia Bernadette Botelho | Goa University | Listener | Stolla |
| 4 | Shital Desai | Goa university | Listener | - |
| 5 | Ravina Ramanand Pai | Goa University | Oral | Plan |
| 6 | Arti Premanand Dabolkar | Goa University | Oral | dabolkas |
| 7 | Vinayak Khanolkar | Goa University | Poster | Thouse |
| | Divyarani Revankar alias | SBSB Botany, Goa | | Bevanza |
| 8 | | University | Poster | N IV |
| 9 | | Goa University | Poster | Horte |
| 10 | | Goa University | Poster | |
| 11 | Celly Quadros | Goa University | Poster | |
| 12 | SHRAVANI N KORGAONKER | Botany Discipline; SBSB | Poster | #3 |
| 13 | Aditi Venkatesh Naik | Goa University | Oral | |
| 14 | Moses Musisi | Goa University | Poster | |
| 15 | ASHWETA A. GAUDE | Botany Programme, Goa University | Listener | |
| 16 | ROYSTON D'SILVA | Botany Programme, Goa University | Listener | |
| 17 | Aishwarya Ashok Gaude | Botany Programme, Goa University | Listener | Alg |
| 18 | Chelsea Lorraine Mascarenhas | Botany, Goa University | Listener | |
| 19 | Karen Cabral | Botany, Goa University | Listener | |
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| | | | | Miles No. |

List of Lead Speakers:

| Sr. No. | Name of the Speaker | Addresss | Signature |
|---------|-------------------------|---|-----------|
| 1. | Prof. S. R. Yadav | T. INSA Senior Scientist, Department of Botany, Shivaji University, Kolhapur- 416 004. | Gladas |
| 2. | Dr. Lidita Khandeparker | CSIR-National Institute of Oceanography, Dona Paula, Goa, India | |
| 3. | Dr. James Jacob | Former Director, Rubber Research Institute of India, Kottayam, Kerala | ann |
| 4. | Dr. Kundan Kumar | Department of Biological Sciences, Birla Institute of Technology & Science Pilani, K. K. Birla Goa Campus, Goa, India | |
| 5. | Dr. R. Ramesh | Principal Scientist ICAR- Central Coastal Agricultural Research Institute, Old Goa, Goa, India | 141 |
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National Conference on Recent Trends in Plant Sciences & Biotechnology, 2022

| Sessions | Names | Signatures |
|-------------|---|------------------------------------|
| Session I | Chairperson: Prof. S. Krishnan | 8 Chrimans |
| | Rapporteur: Dr. Siddhi Jalmi | Signatures Signatures Signatures |
| Session II | Chairperson: Prof. Prabhat Kumar Sharma | ansons |
| | Rapporteur: Dr. Shanti Dessai | Desor |
| Session III | Chairperson: Dr. Rupali Bhandari | Amdon. |
| | Rapporteur: Dr. Trupti Asolkar | |
| Session IV | Chairperson: Prof. S. Krishnan | 20 Johnson |
| | Rapporteur: Ms. Dviti Mapari | Dapari |
| Session V | Chairperson: Prof. Bernard Rodrigues | Andr |
| | Rapporteur: Ms. Gandita Kundaikar | Catalaikan. |



















