



P.G. AND RESEARCH DEPARTMENT OF ZOOLOGY
JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd cycle) with 'A' Grade by NAAC
DBT Star Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
Tiruchirappalli, 620 020, Tamil Nadu, India

IInd International Conference on

CHALLENGES TO ENVIRONMENT AND HEALTH

REPORT

The Two day 2nd **International Conference on Challenges to Environment and Health** (ICEH - 2020) was organized by the P.G department of Zoology, Jamal Mohamed College was held on 18 &19th November 2020. This is the second International Conference organised by Zoology department successfully on the same topic. Stem cell culture, Biodiversity Conservation, Molecular Biology, Aquaculture, Marine Biology, Vector Biology, Bioremediation, Radiation Biology, Animal Biotechnology, Vermiculture Technology, Environmental Toxicology, Environmental Biotechnology and Environmental Microbiology were the theme areas of the conference.

180 delegates from following reputed institutions participated in the event.

1. Jammu University, Jammu & Kashmir.
2. CAS in Marine Biology, Annamalai University
3. Providence Women's College, Calicut, Kerala
4. Osmania university, Hyderabad, Telungana
5. MGV's Arts, Science & Commerce College, Surgana, Maharashtra
6. Sree Narayana College, Nattika, Thrissur, Kerala
7. Sidho Kanho Birsha University, West bengal
8. A.D.M.College for Women(A), Nagapattinam, Tamil Nadu
9. INTACH Nagercoil Chapter, Tamil Nadu
10. A. V. C. College (Autonomous), Mannampandal, Tamil Nadu
11. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
12. Bharathiar University, Coimbatore, Tamil Nadu
13. Vellalar College for Women, Erode, Tamil Nadu
14. Loyola College, Chennai, Tamil Nadu
15. Lady doak college, Madurai, Tamil Nadu
16. PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu
17. Manonmiam Sundaranar University, Tirunelveli, Tamil Nadu
18. Kalai Kaviri College of fine arts, Trichy, Tamil Nadu.
19. Sadakathullah Appa College, Tirunelveli, Tamil Nadu
20. Madurai Kamaraj University, Tamil Nadu
21. Mother Teresa Women's University, Kodaikanal, Tamil Nadu
22. Khadir Mohideen College, Adirampattinum, Tamil Nadu
23. Hajee. Karutha Rowther Howdia College, Theni, Tamil Nadu
24. Central Marine Fisheries Research Institute, Mandapam, Tamil Nadu
25. Arignar Anna Governement Arts Science College, Vilupuram, Tamil Nadu

About 70 research papers were received from Faculty members, Research scholars, PG and UG students of various Colleges and Universities. Among them, 30 abstracts were selected for presentation and published in proceedings with ISBN number. We feel very proud to inform that this is the first time, selected Manuscripts from this International Conference has published in Journal of Advanced Applied Scientific Research - JOAASR (listed in Web of Science journal). In this regard, we wholeheartedly thank all the participants for their immense contributions in the form of abstracts. All the research scholars together with the faculty members have succeeded in their attempts to present their works here, which helped to motivate young minds and to create a scientific temper among the student community. To recognise and encourage their efforts, we have also awarded a Young Scientist award for the best presentation.

Dr. L. KIFAYATHULLAH, Stanford University, USA inaugurated the seminar in the morning and delivered a lecture on “*STEM CELLS AND REGENERATION: MOLECULAR BASIS AND APPLICATIONS*”. Dr. S. ISMAIL MOHIDEEN, Principal, Jamal Mohamed College presided over the function. Dr. A.K. KHAJA NAZEEMUDEEN, Secretary and Correspondent of the college, Hajee. M.J. JAMAL MOHAMED, Treasurer and Dr. K. ABDUS SAMAD, Assistant Secretary, felicitated the occasion.

Dr. I. JOSEPH A. JERALD, Associate Professor and Head, Dept. of Zoology welcomed the participants and introduced the speakers. ORAL presentations of selected abstracts were presented in the afternoon session. This was followed by technical session Keynote lecture was given by **DR. P. SUNDARARAJ**, Rtd Professor of Bharathiar University on “*WORMS-WHAT DO YOU KNOW?*”. He discussed the positive and negative roles of Plant and Animal Nematodes in Environment and Health.

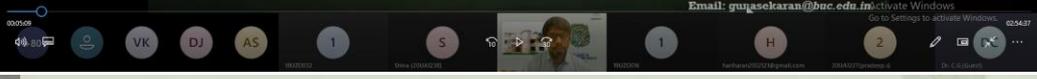
The Second day program started with the 4th Technical session with the Key note address given by Dr. C. GUNASEKARAN, Associate Professor of Zoology, Bharathiar University, Coimbatore. He spoke on “**ETHICS IN BIODIVERSITY CONSERVATION**” This was followed by ORAL Presentations. The key note address for the Afternoon 5th Technical session was given by Dr. KARTHIKKUMAR, V, on the topic, “**ROLE OF PHYTOCHEMICALS IN COLON CANCER**”. His talk was very informative with much information on Colon Cancer.



Ethics in Biodiversity Conservation

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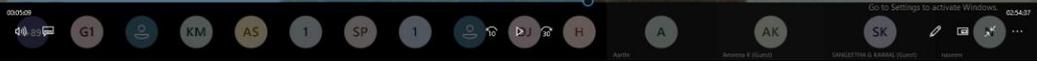
ABSTRACT



2nd International Conference on
**CHALLENGES TO
ENVIRONMENT AND HEALTH**
18, 19 November 2020

3 || day FN

Organized by
DEPARTMENT OF ZOOLOGY



Molecular pathogenesis of multidrug-resistant bacteria: What can be done better?



DR. B. Gangathraprabhu
Post Doctoral Research Fellow
Department of Microbial Technology
Madurai Kamaraj University, Madurai.

11/19/2020

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Zoom meeting interface showing two participants. The main window displays a man in a green shirt with a background featuring a building and a fingerprint graphic. A smaller window shows another man in a blue shirt. The bottom toolbar contains icons for participants: +13, 2M, PD, 2N, AB, M2, LOUJ, 2P, JB, 2S, DG, SP.

Zoom meeting interface showing a man in a brown shirt with glasses. The background is a slide titled "ABSTRACT" with a fingerprint graphic and the text "CHALLENGES TO ENVIRONMENT AND HEALTH". The bottom toolbar contains icons for participants: PD, MS, KV, 2N, AB, SP, M2, DS, LOUJ, M, P, DK.

Induced pluripotent stem cells

The diagram illustrates the process of generating induced pluripotent stem (iPS) cells. It starts with a **patient** (represented by a blue human figure) from which a **specialized cell (skin cell)** is taken. This cell is placed in a petri dish where **reprogramming genes** are added. This process results in an **induced pluripotent stem cell**. From this iPS cell, two paths are shown: **self-renewal** (represented by a cluster of blue cells) and **differentiation** (represented by a cluster of various specialized cells).