



छत्तीसगढ़ विज्ञान एवं प्रौद्योगिकी परिषद

विज्ञान भवन, विधान सभा रोड, दालदल सेनी, रायपुर

Chhattisgarh Council of Science & Technology

Vigyan Bhawan, Vidhan Sabha Road, Daldal Seoni, Raipur, (C.G.)

Tel : 0771 - 2972947 Fax : 0771 - 2972947

E-mail : drtsingh03@gmail.com Web : www.cgcost.nic.in

No. 2262/CCOST/2023

Raipur, Date: 31.03.2023

To

The Principal

Shri Shankaracharya Mahavidyalaya

Junwani, Bhilai Nagar (C. G) 492020

Sub: Sanction and release of grant for organize International Conference on 'Molecular Biology : Its approaches and developments in the recent era'.

Ref: - Revised proposal of Dr. Sonia Bajaj, Shri Shankaracharya Mahavidyalaya Junwani Bhilai Nagar (C. G), dated 14.12.2022 and letter no. 633/SSM/2022 Bhilai Dated 06.03.2023.

Adverting to above, The Council is sanction and release an amount of Rs 1,00,000/- please find enclosed a cheque for **Rs. 1,00,000.00 (Rs. One Lakh only)** bearing cheque no. 416225 dated 25.03.2023 of State Bank of India, Saddu Branch, Raipur for organizing the International Conference on 'Molecular Biology : Its approaches and developments in the recent era' from: March 15th to 16th, Sept. 2023.

Please acknowledge the receipt of the Cheque for our office records.

Please ensure submitting the following information/documents:

- Utilization Certificate (After release of grant)
- Seminar/Symposium/Conference/Workshop report
- List of participants and beneficiaries,
- Name of Government Departments which will be benefitted,
- Copy of published proceedings, photographs, news cuttings,
- Outcome and recommendations of Seminar/Symposium/Conference/Workshop.

Encl: Bearing Cheque 416225 dated 25.03.2023 of State Bank of India, Saddu Branch, Raipur for Rs. 1,00,000/-.

(Approved by Director General)

(Dr. Tribhuvan Singh)

Secretary

Raipur, dated: 31.03.2023

E. dt. No. 2263/CCOST/2023,

Copy for information and necessary action to:

- Dr. Sonia Bajaj, Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai Nagar (C. G) 492020.
- Office copy.

S. S. S. S.



**SHRI SHANKARACHARYA MAHAVIDYALAYA
JUNWANI, BHILAI NAGAR (C.G.)**

CCOST International Conference on "Molecular Biology: Its Approaches and Developments in the Recent Era" 15th & 16th Sep. 2023, various assignments to be done during the Two-Day Conference by the following committee members: -

Assignment	Incharge Names	Signature
1. Printing		
a. Brochures (50 copies)	Dr. Santosh Sharma Dr. Rachana Choudhary Dr. Sonia Bajaj	
b. Souvenir, Inaugural Card, valedictory Card		
c. Proceedings		
d. Designing of the Certificates		
e. Banner and Memento (Technical Session)		
f. Seminar Bags (Writing pad along with pen) & Printing		
2. Accommodation & Guest Management		
	Dr. Subodh Dewedi Dr. Virendra Singh Mr. Anil Menon Mr. Ranjit Singh Dr. Kanchan Sinha	
3. a. Catering, Coupon b. Refreshment for Special Guest		
	Dr. S.K. Shrivastava Dr. Sandeep Jashwant Mr. Dinesh Mishra Mrs. Kavita Kushwaha Dr. Malti Sahu Dr. Poomima Tiwari	
4. Editorial Board (Press release should be sent before 4 p.m.)		
	Dr. Neeta Sharma (English) Ms. Ruby Gupta Dr. Sushma Dubey (Hindi) Dr. Seema Dewedi	
5. Badge preparation, Pot		
	Dr. Jaishree Wakankar Dr. Seema Dwivedi Ms. Varsha Yadav Mrs. Manju Mishra Ms. Harsha Singh Bais Ms. Ruby Gupta	
6. (a) Registration Fee (Rs. 1500/- for Faculty Members, Academicians, Rs.800/- for Research Scholars, Rs.500/ for PG Students)		
	Dr. Laxmi Verma Mr. Rajkishore Patel Mrs. Poonam Yadav	
7. Decoration of College Campus during the Seminar which includes:		
a. Sound System, Light arrangement (with power back up), Seating arrangement, Photography/Videography & other arrangements and Sound System		
	Dr. V.K. Singh Dr. K.J. Mondal Mr. Thakur Devraj Singh (Facebook) Mr. Anil Menon	



Assignment		Incharge Names	Signature
b.	Bouquet to be presented to the Guest, Pots for beautification of the campus, Reception, Sarswati Vandana, Lighting and Lamp Inauguration and Valedictory Mementoes to be given to Chief Guest of the Inaugural and Valedictory function.	Dr. Mahendra Kumar Sharma	[Signature]
		Mr. Dinesh Mishra	[Signature]
		Mr. Gaurav Chauhan	[Signature]
		Mr. Rajkumar Verma	[Signature]
		Dr. Preeti Shrivastava	[Signature]
		Dr. Gayatri Jay Mishra	[Signature]
		Dr. Shilpa Kulkarni	[Signature]
		Ms. Harsha Singh Bais	[Signature]
		Mrs. Jyoti Mishra	[Signature]
		Dr. Sonia Bajaj	[Signature]
8.	Mementoes to be given to Chair Person of the Technical Session	Dr. Rachana Choudhary	[Signature]
		Dr. Bhuneshwari Nayak	[Signature]
Compering			
9.	Inauguration & Valedictory	Dr. Kanchan Sinha	[Signature]
	Technical Session	Ms. Rachana Tiwari	[Signature]
10.	T.A. - D.A. Committee	Ms. Ruby Gupta	[Signature]
		Dr. Akanksha Jain	[Signature]
		Mrs. Padma Rani Verma	[Signature]
		Dr. Gayatri Jay Mishra	[Signature]
		Mr. Devraj Singh	[Signature]
11.	Technical Session Reporting Committee	Mrs. Soniya Verma	[Signature]
		Dr. Bhuneshwari Nayak	[Signature]
		Dr. Akanksha Jain	[Signature]
		Ms. Varsha Yadav	[Signature]
		Ms. Harsha Singh Bais	[Signature]
		Mrs. Padma Rani Verma	[Signature]
12.	Power point presentation during Technical Sessions	Dr. Gayatri Jay Mishra	[Signature]
		Mr. Toran Dewangan	[Signature]
		Mr. Mukesh Singh	[Signature]
		Mrs. Kavita Kushwaha	[Signature]
	Oral Poster Presentation	Dr. K.J. Mondal	[Signature]
		Ms. Varsha Yadav	[Signature]
		Ms. Harsha	[Signature]
		Mrs. Padma Rani Verma	[Signature]
	Exhibition	Dr. Laxmi Verma	[Signature]
		Dr. Poornima Tiwari	[Signature]
		Dr. Seema Dwivedi	[Signature]
		Mrs. Ujjwala Bhonsle	[Signature]

Convener
2/19/23

Dear Academics
4/19/2023

Principal
2/19/23



ADVISORY COMMITTEE

- Dr. Manoj Kishoraha**, Postdoctoral Fellow, Baylor College of Medicine, Houston, Texas USA
Dr. Shrawan Prasad, Postdoctoral Fellow, UT Health Science, Houston, Texas USA
Dr. Mirza Husamuzzaman, Sher-E-Bangla Agricultural University, Dhaka, Bangladesh
Dr. G.B.K.S. Prasad, Jangal University, Gwalior M.P.
Dr. Babshu Singh, Prof., Dept. of Economics, Indira Gandhi National Tribal University, Amarkantak M.P.
Dr. Anjana Sharma, Member Academic, CG PVT, University Commission, Raipur C.G.
Dr. M. L. Naik, Member, Chhattisgarh State Biodiversity Board, Raipur, C.G.
Dr. Kaanti Choudhry, Retired Prof. Govt. V.Y.T. College, Durg
Dr. A. K. Gupta, Prof., SOS Life Science, Pt. R.S.U., Raipur
Dr. S. K. Jadhav, Prof., SOS Biotechnology, Pt. R.S.U., Raipur
Dr. S.K. Prasad, Prof., SOS Life Science, Pt. R.S.U., Raipur
Dr. Aditi Poddar, Prof. & Head, SOS Life Science, Pt. R.S.U., Raipur
Dr. Arvi Parganika, Prof., SOS Life Science, Pt. R.S.U., Raipur
Dr. Anil Shrivastava, Prof. & Head, Dept. of Biotechnology Govt. V.Y.T. College, Durg
Dr. Ajit Houndar, Prof. & Head, Dept. of Zoology, Govt. D.B.O. PG College, Raipur
Dr. Renu Maheshwari, Prof. Govt. Nagesh P.G. College, Raipur
Dr. Rohit Seth, Associate Prof. Dept. of Zoology, G.G.U. Bilaspur
Dr. Pragya Kulkarni, Incharge Prof. & Head Microbiology, Govt. V.Y.T. College, Durg
Mr. Vikas Chandra Sharma, Former Head, Department of Chemistry, Shri Shankaracharya Mahavidyalaya, Jabalpur, Bilhal



Chief Patron

- Shri I. P. Mishra**
 Chairman, Shri Ganga Education Society, Bilhal
Smt. Jaya Mishra
 President, Shri Ganga Education Society, Bilhal

Patron

- Dr. Archana Jha**, Principal
Dr. J. Durga Prasad Ran, Dean (Academic)

Convener

- Dr. Sonia Bajaj**, Head, Department of Zoology

Co-convener

- Dr. Rachana Choudhary**, Head, Department of Microbiology

Invited Speakers

- Dr. Muhammad Manjural Karim**, Professor, Department of Microbiology, University of Dacca, Bangladesh
Dr. Subodh Kumar Upadhyaya, Professor, Head, Department of Biotechnology, Kathmandu University, Nepal

Invited Talk

- Dr. Kabir Jami**, Executive Director & Director, GM Baidy Research Foundation, Telangana
Dr. Satish B. Verulkar, Head, Department, Post Molecular Biology & Biotechnology, Indira Gandhi Kishu Vidya Vigyan Yojana, Raipur (C.G.)
Dr. Navene Kumar Vishwakarma, Assistant Professor, Department of Biotechnology, Govt. Ghansidh Vidya Vigyan Yojana, Raipur (C.G.)
Dr. Vidwa Prakash Ray, Professor, Department of Life sciences, School of Sciences, Man University, Raipur (C.G.)

Organising Committee

- IQAC Members**
Mrs. Preeti Shrivastava
Dr. Capt. Krishna Jibson Mondal
Dr. Akanksha Jain
Dr. Bhanshwarai Nayak
Ms. Varsha Yadav
Ms. Rachana Tiwari



International Conference

on
"Molecular Biology : Its Approaches And Developments in the Recent Era"

15 - 16 September 2023

Sponsored by

Chhattisgarh Council of Science and Technology



Organised by

Department of Zoology & Microbiology
 Shri Shankaracharya Mahavidyalaya, Jabalpur, Bilhal (C.G.)
 Website: www.smmv.ac.in

Co-Sponsored by



Invitation

Dear Sir/Madam
 With immense Pleasure, we invite you to participate in the **International Conference on Molecular Biology: Its Approaches and Developments in the Recent Era** scheduled to be held at Shri Shankaracharya Mahavidyalaya Jabalpur, Bilhal, Durg, C.G., on September 15 & 16, 2023. Your Contribution in making this conference successful would be valuable.

About Country- India

India is one of the oldest civilizations in the world with rich cultural heritage. The largest democracy in the world India is a constitutional republic consisting of 28 States and 08 Union Territories. India is the 7th largest South Asian country in the world. This is a country of rivers, mountains, valleys, lakes and oceans where great leaders, scientists, philosophers and social reformers were born. This is the place where Taj Mahal, Golden Temple, Khajuraho and Ajanta - Ellora caves are present. The common statement of India is **"Unity in Diversity"**.

About State - 'Chhattisgarh'

Chhattisgarh is located in Center-East of the India. It is blessed with dense forests, majestic waterfalls, magnificent caves, rich temples and heritage sites with impressive forts and places. The Hill Station **Majrat** in Ambikapur District is widely known as Switzerland/Shikha of Chhattisgarh. The **Chitrakote Waterfalls** in Bastar District is famously known as Niagara of East. It is one of the fastest developing states in India retaining its glorious history of tribal culture and rich heritage of traditional arts, sculpture and handicrafts.

About The Institute

Shri Shankaracharya Mahavidyalaya MESREC institution, NAAC Re-accredited with 'A' Grade CGPA: 3.10, Recognized in 2 (I) and 12 (II) of the UGC Act 1956, Affiliated to Henschel Yadav University, Durg established in 1997, located in the heart of Steel City Bilhal. SSMV is a dynamic institute of knowledge in Science, Commerce, Art, Computer, Education and Management at both graduate and post graduate levels where students get strong platform for building their careers as per their areas interest. On the path of excellence, with perfection, facilities are always ready to contribute overall development of students and ultimately the society.

Introduction

The field of Molecular Biology has a profound impact in life science investigations. Major advances in molecular biology over the last four decades have stimulated research and progress in almost all the disciplines of life sciences. Even the developing countries cannot ignore the benefits and impact of Molecular Biology and its importance. As we have gained knowledge at this level, cell and molecular biology has become an indispensable prerequisite to understanding most biological problems.

Objective of the Conference

The science of new era is based upon utilization of biological products at every possible field of life. Hence to match with the pace of development, scientists, teacher and students must be made aware and active with the current scenario. Noble research work make a country noble and also economically strong. This conference will provide a forum for enhancement and exchange of ideas and knowledge on recent Approaches and Developments in Molecular Biology. This conference will also provide a tribute for interactions between researchers and provide them a number of opportunities.

Theme

- Molecular Evolution
- Molecular Immunology
- Virology
- Biochemistry
- Microbiology
- Biotechnology
- Biostatistics
- Biomedicine
- Genetics & Genetic Engineering
- Cell Physiology
- Structural Biology
- Neuroscience
- Biochemical Engineering

Important Dates

- Commencement of Registration:** 06 July 2023
Extended date for Abstract: 18 Sept. 2023
 (Link- Internationalconferencembd23@gmail.com)
Extended date for Book Chapter: 05 Sept. 2023
 (Link- Internationalconferencembd23@gmail.com)
End of Registration : 10 Sept. 2023

Registration Charges

Category	Indian Delegates		Foreign Delegates	
	Registration Fee	With Book Chapter	Registration Fee	With Book Chapter
	INR	INR	USD	USD
Delegates/ Scientists/ Faculty/ Associates	1500	2000	22	40
Research Scholars/ Students	500	1000	15	22

Call for Book Chapter & Abstract

POSTER:- The Poster Should be 36"x48" in size send the Title, Authorship, Abstract (200 words), Keyword, Via Email after registration.

BOOK CHAPTER:- Title, Author name, Affiliation Corresponding author, Email, Abstract, Keyword, Introduction, Material and Methods, Result & Discussion, Conclusion, Reference.

FONT SIZE / PAPER SIZE:- Times New Roman (10font), A5 Paper Size

REFERENCES STYLES:- APA Styles
 Note- The Papers will be published in an edited book with ISBN number.

Registration Form

https://docs.google.com/forms/d/1F_AqOL58IrbuR6AWC7s21j1H0JZz7ZpNpw_sTAg/submit?hl=en&from=SurveyLink
 (This registration link is also available on the website)

Feel free to Contact

Dr. Sonia Bajaj- 79870-85698, 9907414243
Dr. Rachana Choudhary - 9770577935
Dr. Akanksha Jain- 9827960143



SHRI SHANKARACHARYA MAHAVIDYALAYA

Junwani- Bhilai

INTERNATIONAL CONFERENCE

ON

**“MOLECULAR BIOLOGY: ITS APPROACHES AND DEVELOPMENTS
IN THE RECENT ERA”**




15th & 16th September, 2023

Sponsored by

CHHATTISGARH COUNCIL OF SCIENCE AND TECHNOLOGY, RAIPUR

ORGANIZED BY








*Department of Zoology & Microbiology, Shri Shankaracharya Mahavidyalaya,
Junwani- Bhilai*

Inaugural Chief Guest:	Dr. Aruna Palta Vice-Chancellor, Hemchand Yadav University, Durg	
Valedictory Chief Guest:	Dr. S.S. Bajaj Director General, CCOST, Raipur Chhattisgarh	
Presiding Guest:	Shri I.P. Mishra Chairman,	




	Shri Gangajali Education Society, Bhilai	
	Mrs. Jaya Mishra President, Shri Gangajali Education Society, Bhilai	
	Dr. Archana Jha Principal, S.S.M.V.	
	Dr. J. Durga Prasad Rao Dean, Academics, S.S.M.V.	
Organizer:	Dr. Sonia Bajaj Convener & Head Department of Zoology Dr. Rachana Choudhary Co-Convener & Head, Department of Microbiology	 
Special Guest & Guest speaker:	Dr. Muhammad Manjurul Karim, Professor, Department of Microbiology, University of Dhaka, Bangladesh	



	<p>Prof. Subodh K Upadhyaya, Prof, Head Department of Biotechnology, Kathmandu University, Nepal</p>	
	<p>Dr. Kaiser Jamil, Director, G.M. Reddy Research Foundation, Telangana</p>	
	<p>Dr. Raksha Singh Professor of Economics ,Indira Gandhi National Tribal University , Amarkantak, M.P.</p>	
	<p>Dr. Pragya Kulkarni Prof. & Head Incharge, Microbiology, Govt. V.Y.T. College, Durg</p>	
	<p>Dr. Vishwa Prakash Roy Professor, Department of Life science, School of Sciences, Mats University, Raipur (C.G.)</p>	
	<p>Dr. Anil Shrivastava Prof. & Head, Dept. of Biotechnology Govt. V.Y.T. College, Durg</p>	
	<p>Dr. Usha Sahu Head, Dept. of Zoology Govt. V.Y.T. College, Durg</p>	



	<p>Dr. Bhawana Pandey Head, Dept. of Biotechnology & Microbiology Bhilai Mahila Mahavidyalaya ,Sector-9, Bhilai</p>	
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INAUGURAL CEREMONY: -

Department of Zoology & Microbiology, Shri Shankaracharya Mahavidyalaya Junwani in collaboration with **CCOST, Raipur** organised a **Two-day International Conference** on **“Molecular Biology : Its Approaches and Developments in the Recent Era ”** on **15-16 September 2023**. Dr. Sonia Bajaj, Head, Department of Zoology and Dr. Rachana Choudhary, Head, Department of Microbiology were Convener and Co-Convener of the conference respectively. The Chief Guest of the occasion was Dr. Aruna Palta, Vice-Chancellor, Hemchand Yadav University, Durg; Presiding Guest Honorable Shri I.P Mishra, Chairman, Shri Gangajali Education Society, Bhilai, Special Guest Dr. Muhammad Manjurul Karim, Professor, Department of Microbiology, University of Dhaka, Bangladesh.

The program started with the Inauguration of the Exhibition followed by lightening of the lamp and welcome speech by Dr. Archana Jha, Principal, Shri Shankaracharya Mahavidyalaya, who informed about the various measures that college takes to secure and procure the Nature. In her introductory speech she informed about the initiatives of the college and she thanked the Chhattisgarh Council of Science and technology for their respective fund and successful accomplishment of the conference. She was also thankful to Dr. Aruna Palta, Vice chancellor, Hemchand Yadav University, Durg for her support and guidance for organizing this international conference.

Honorable Shri I.P Mishra, Chairman, Shri Gangajali Education Society, Bhilai, said that teachers are choreographers who trains the students to come out with flying colours. He also added that such events gives everyone a chance to learn, gather knowledge and develop themselves intellectually as well.

Honorable Dr. Aruna Palta Vice Chancellor Hemchand Yadav University, Durg started her speech with a famous quote from **Maharani Chakravorty** who was an Indian molecular biologist and organized the first laboratory course on recombinant DNA techniques in Asia. She also shared some of the information regarding sheep dolly clone. The Microbiology laboratory plays an important role in antimicrobial stewardship, the aim of which is to optimize antibiotic prescribing to improve patient outcomes, minimize potential toxicity, prevent emergence of resistance and reduce healthcare costs, she added.

Technical session started with the inaugural speech of Dr. Sonia Bajaj, HoD of Zoology she covered all the important information to be covered in the two day conference.

In the inaugural session, Dr. **Muhammad Manjurul Karim, Professor, Department of Microbiology, University of Dhaka, Bangladesh** shared his thoughts by saying that knowledge is incomplete without discipline and social values and the ethics that he found in this institute in



the students. He asked the college high. He also shared his country, Bangladesh.

Exhibition was also the part which was held in college Aakansha Jain (HOD, herbal products were made

was made by students using rose water and dried flowers in the college laboratory. Along with this, many herbal products were created by different herbal extracts and essential oils, including mosquito repellent replacement, herbal soap, stain remover, conditioner, floor cleaner, hand wash, herbal scrub, herbal shampoo, charcoal scrub, room freshener which are used in daily life.



students to keep the flag of the some of the information about

of International Conference under the supervision of Dr. Biotechnology) Different by students. The Havan Cup



DAY FIRST
(15/09/2023)





1ST SESSION: -

- ❖ **Dr. Mohammad Manjurul Karim (Professor, Department of Microbiology, University of Dhaka, Bangladesh)** delivered his lecture on topic "**BIO-INNOVATION AND BIO-ECONOMY FOR THE DEVELOPMENT OF SALT RESISTANT CROP VARIETIES**". He initiated the concept of molecular biology with bio-innovation from the problems faced in coastal areas with the development of salt resistant crop varieties and about the PGPR (Plant Growth Promoting Rhizosphere). He examined and concluded that efficient strains could support arrays of PGP activities under salt stress, hence proved a potential candidate for biofertilizers preparation. EPS layer (extra-cellular polymeric system) formation outside the cell surface results the biofilm formation, which resist to salt, antibiotics, and heavy metals. Salt- tolerant genes are considered by stimulation by PGPR as a mechanism to induce salt tolerance in rice by modulating differential transcription. He gave us Home Message that “Fertilization of rice with salt-tolerant PGPR could be a climate-change-adaptation for building a climate-smart-agriculture for coastal ecosystem”.

2ND SESSION: -



- ❖ **Dr. Pragma Kulkarni (Prof. & Head In charge, Microbiology, Govt. V.Y.T. College, Durg)** enlightened the topic "**MOLECULAR METHODS IN DETECTION OF WATER BORNE PATHOGENIC BACTERIA**". She initiated it with the molecular techniques that are used for identification of water - borne bacteria in different water samples, and she also introduced that molecular methods for identification which involve three steps i.e., identification of proper bio-marker; extraction of



biomarker, and selection of suitable detection. She demonstrated about various rapid DNA extraction materials in which FTA elute has proved highest DNA extraction efficiency, rapidity, and storage. Then in selection of suitable detection - four methods were used i.e., nuclei acid- based methods, like real-time PCR, FISH; immunology-based methods; bio-sensors based methods in which G-QDs are used,



and paper-based methods in which electrophoresis and paper chromatography techniques are used. She also illustrates advantages and limitations of various molecular methods.

3RD SESSION: -

- ❖ **Dr. Vishwa Prakash Roy (Professor, Department of Life science, School of Sciences, Mats University, Raipur, C.G.)** enlightened on topic "**GENE THERAPY: An emergence of bio-medicine**". He introduced 'What genes can do; genetic disorder; gene therapy; its working; and about vectors genetic material'. The gene therapy used in healing of damaged tissue, in promoting of new tissue, in vaccination, in destruction of cancers cell, and many more. He gave the information about the various diseases targeted for gene therapy; how desired genes are delivered; viral vectors for gene therapy; how to make new genetic material functional; how liposomes used for drug delivery and the problems associated with gene therapy.



4TH SESSION:-

The participants for the **E- Poster** and **Oral Presentation** came from different Universities/Colleges around India and from different parts of world. The judges for this session were Dr. Bhawana Pandey, Head, Department of Microbiology and Biotechnology, Bhilai Mahila Mahavidyalaya, Bhilai Nagar, (C.G) and Dr. Usha Sahu, Head, Department of Zoology, Govt. V.Y.T.P.G College, Durg (C.G).

❖ List of E- Poster Presenters:

S.No.	Name of Participants	Topics
1.	Daisy Rani Diwakar	Immunity booster minerals in selected leafy vegetables



2.	Sakshi Sinha, Priya Sutaoney	Antimicrobial resistance (AMR): Mechanism and its relevance to medicine
3.	Lina Saha, Sakshi Sinha, Priya Sutaoney	Prebiotics: Future Implications as functional foods for gut bacteria controlling human health
4.	Neena Sharma	Physico chemical And microbial analysis of underground water in Korba, C.G, India.
5.	Prince William Bagh, Sakshi Sinha, Priya Sutaoney	Biological Degradation of plastic using psychrophilic microorganisms.
6.	Muskan Singh, Sakshi Sinha, Madhavendra Sahu, Priya Sutaoney	Biofertilizers: a boon to organic farming.
7.	Khushi Athya, Sakshi Sinha, Madhavendra Sahu, Priya Sutaoney	Ligninolytic bacteria and its potential applications in pulp and paper industries.
8.	Hempushpa Urwasha and Pragma Kulkarni	Bacterial biodegradation studies on low density polyethylene.
9.	Tanisha Mitra, Sakshi Sinha, Madhavendra Sahu, Priya Sutaoney	Marine Extremophiles & Extremozymes: A Boon to Biotechnological Industries.
10	Shilpa Malakar, Priya Sutaoney	Development of metagenomic studies, next-generation sequencing, and high-performance computing for biomedicines in cancer research.
11	Taniya sahu, Rachana Choudhary, Pragma Kulkarni	Isolation and screening of cellulase enzyme degrading bacteria
12	Anjali Pradhan, Sakshi Sinha, Priya Sutaoney	A review on stem cell therapy to diagnose human diseases with regenerative drugs
13	Mohd Waseem, Shubhashis Das, Debarati Mondal, Jitendra K. Thakur, Naidu Subbarao	Identification of novel inhibitors against Med15 KIX domain of Candida glabrata
14	Laleeta, Dr. Rachana Choudhary and Dr. Pragma Kulkarni	Isolation and identification of Dopamine producing Bacteria from Soil sample of Three Eminent Temple of Chhattisgarh India
15	Aparna Sahu, Priya Sutaoney	A comprehensive review on pectinases and their applications in food industry



16	Anisha Kazi, Kavita Verma	An overview on amylase production and it's application
17	Ayushi Panda, Sakshi Sinha, Priya Sutaoney	Actinomycetes: a source of novel bioactive metabolites
18	Sreetama Bhowmick	Application of Recombinant DNA Technology to Prepare Genetically Engineered Insulin
19	Emmanuel N. Gontor, Moses Y. Dugbaye, Priya Sutaoney	Extremophiles bacterial enzymes for industrial importance: a review
20	Rashmi Thapa	Industrial uses of Lipase
21	Sulagna Ghosh Barman, Shanthi V	Fructooligosaccharides: Prebiotics derived from agro-wastes

❖ **List of Oral Presenters :**

S.No.	Name of Participants	Topics
1.	Dr. Sweta Gaikwad	Utilization of Reserve Carbohydrate During Seed Germination in Important Cultivars of Chhattisgarh: A Case Study Of Dolichos lablab L.
2.	Bhagwati Kumar Markanday, Dr. Arunima Sur, Dr. Shobha Gupta Gawri	Impact of Agrochemical Exposure on Male Fertility: A Study in Chhattisgarh's Agricultural Landscape
3.	Priya Sutaoney, Dr. Rachana Choudhary, Dr. A.K.Gupta	Purification and biochemical characterization of carboxymethyl cellulase from Aspergillus flavus NFCCI-4154
4.	Periyasamy Visvanathan, Manickam Rajkumar	Nanotechnology applications in Environment and Biomedical: An emerging Eco-friendly Approach
5.	Poonam Verma, Priyanshu Sao, Sontee Jangde	Detection of Hepatitis B and C Virus in Pre Natal Period
6.	Balakrishnan Navina	Marker Assisted Introgression for Salinity Stress Tolerance in Rice: A Review
7.	Peeyoosh Tiwari Jaiswal, Prakash Kumar Jaiswal, Dr.K. R. Sahu, Dr. PratibhaPandey	Study of Ichthyofaunal Biodiversity and Limnological Parameter in Kelo Dam of Raigarh, District – Raigarh C.G.



8.	Prakash Kumar Jaiswal, Peeyoosh Tiwari jaiswal and Dr. K. R. Sahu	Study on biodiversity, feeding and growth of fishes with reerence to physico – chemical parameter of mahanadi river in Balpur, district – Sakti C.G. India.
9.	Roli O. Mishra, Dr. Chetna Rahangdale	Effect of Pre-Monsoon Season and Bio-Diversity on Aquatic Insects of Bhelwa Pond Bhilai Chhattisgarh
10	Renuka Yadav, Alka Mishra	Seasonal Variation in antifungal activity of fish mucus from Catla catla against selected microbes
11	Avinash Singh, Bhawana Pandey and Deepika Dhruve Singh	Mycoremediation
12	Anushri Keshri, Dr. Varaprasad Kolla	Antibiotic resistance pattern of Coagulase-negative Staphylococci recovered from healthcare and non-healthcare environments: A comparative analysis
13	Sabiha Naz	A review on: Future Approaches for Molecular Biology and Genetics



DAY SECOND (16/09/2023)

5TH SESSION:

- ❖ **Dr. Subodh Kumar Upadhyaya (Prof, Head, and Department of Biotechnology Kathmandu University, Nepal)** delivered lecture on **"MOLECULAR BIOLOGY TECHNIQUES USED FOR THE MONITORING OF WILDLIFE"**. He discussed about the four techniques need for wildlife monitoring i.e., Genetic techniques, Glucocorticoid Assay, Molecular Sexing, and Screening of canine distemper virus. In Genetic Technique, primer cytochrome-b-gene in mitochondrial DNA used for identification of tiger and primer NADH4 gene used for identification of leopard & for sex identification -Amelogenin area on sex chromosome are considered. In Glucocorticoid assay, a comparative study of glucocorticoid (i.e., stress hormone) level examined with different parameter in elephant and glucocorticoid metabolite in the fecal sample assayed. Molecular sexing of monomorphic birds examined & then screening of canine distemper virus under which a viral disease among mammals that affects gastrointestinal and respiratory tracts and the spinal cord & brain. He also discussed about the structure of canine distemper virus & analysed samples from CDV suspected dogs & analysed samples from wild carnivores and over all these all help in adhering diseases mediated risks for vulnerable wildlife population.



6TH SESSION:

- Dr. Kaiser Jamil (Director, G.M. Reddy Research Foundation, Telangana)** enlightened the topic **"EMERGING TRENDS IN CANCER BIOLOGY: The Tumor Microenvironment"**. She introduced first, the four main types of cancer i.e., Carcinomas, Sarcomas, Leukemia, and Lymphomas. She discussed about cancer statistics in men & women; subtypes of breast cancer; &





breast cancer microenvironment. She also discussed about TME and therapeutic options for the treatment of cancer. To improve the cancer treatment various process were demonstrated like, by targeting the tumor micro environment, which is a multi- faceted approach that involves understanding the TME, identifying therapeutic targets, developing targeted therapies, conducting clinical trials, personalized patient care, and monitoring treatment responses .

7TH SESSION:

- ❖ **Dr. Anil Srivastava (Prof. & Head, Dept. of Biotechnology Govt. V.Y.T. College, Durg)** delivered lecture on **“HUMAN GENETICS DIVERSITY & HEALTH IMPLICATIONS”**. He discussed about the Situation of genetic diversity in India; Genetic diversity and health implications; & Contribution in Monogenetic diseases. He awared about the Hominid evolution, Aryan, & Dravidian Races. The Genetic diversity in India, he concluded that there were only two ancestral population in pre-historic India, & specific recessive diseases are inevitable. He also discussed about the deletion of 25 base pair myosin protein C3, about the cardiac troponin T mutations, monogenetic diseases, which includes assessment of alteration in the genes (GSTMI & GSTIT BY PCR), Chemokine receptors gene analysis, genetic diversity and renal dysfunction. At last, he also discussed the biological pathway analysis for future research.



VALEDICTORY CEREMONY: -

Chief Guest on the occasion were honourable Dr. S.S. Bajaj, Director Chhattisgarh Council of Science and Technology; Dr. Subodh Kumar Upadhyaya Professor, Head Department of biotechnology, Kathmandu University, Nepal; Dr. Muhammad Manjurul Karim, Professor Department of Microbiology, University of Dhaka, Bangladesh; Dr. Kaiser Jamil, Emeritus T scientist & Director, GM Reddy Research Foundation, Telengana; Dr. Raksha Singh, Professor Department of Economics, Indira Gandhi National Tribal University, Amarkantak (M.P); was Dr. Anil Kumar (Department of Zoology and Biology Technology) Durg were other distinguished guests. The ceremony was headed by Principal Dr. Archana Jha and Dean Academics Dr J. Durga Prasad Rao.

The introductory welcome speech was given by Dr. J. Durga Prasad Rao, Dean Academics. He presented a brief note on the conference and thanked every guest for their benign presence , participation and said that the international conference became successful with the help of the



eminent speakers who came from other countries and also from the different parts of India and shared their knowledge with the audience present in the conference.

Dr. Raksha Singh, Professor of Economics, Indira Gandhi National Tribal University, Amarkantak, M.P, acknowledged the organising committee for organizing this knowledgeable event. She also extended her heartfelt gratitude towards the Honourable Chief Guests and all the Respected Speakers for showering everyone with their immense knowledge and Intellect.

Dr. Muhammad Manjurul Karim, expressed that it is his first visit to Bhilai and to the institution as well and appreciated the people of the place and the college. He also told that such events at both the ends will make the bond between the two countries stronger. Dr. Subodh Kumar Upadhyaya welcomed the idea and concept of the conference which he found much relevant to the present world scenario. He also appreciated the paper savings method of the college and the methods of recycling the used papers, thus, calling college as Nature friendly.

The chief guest of the program honourable S.S. Bajaj, Director Chhattisgarh Council of Science and Technology added that the Molecular biologists conduct experiments to investigate the structure, function, processing, regulation and evolution of biological molecules and their interactions with one another — providing micro-level insights into how life works. Although there are many kinds of molecules in every living thing, most molecular biologists focus on genes and proteins. Proteins perform a huge diversity of functions within living cells and genes contains all these vital information required to make required protein.

In the closing ceremony, best PowerPoint presentations award was given to Ms. Anushree Kasri, Mr. Avinash Singh and Ms. Priya and the best poster presentations award was given to Mr. Shubhashish Das, Ms. Shilpa Malekar. Certificates to the participants from different colleges were presented by Dr. S.S. Bajaj, Dr. Subodh Kumar Upadhyaya, Dr. Muhammad Manjurul Karim and Dr. Raksha Singh.

The vote of thanks was presented by convenor Dr. Sonia Bajaj she said the conference was declared as successfully achieving all set goals and she thanked all the Dignitaries and also appreciated the efforts of students & Shri Shankaracharya Mahavidyalaya Staff as well.



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International Conference on
**"Molecular Biology: Its Approaches
and Developments in the Recent Era"**



Sponsored by : Chhattisgarh Council of Science & Technology (CGCOST), Raipur, C.G.
Co sponsored by : Microbiologists Society & Alfa Scientific Works, Bhilai

Certificate of Participation

Date of Issue : ...16.09/2023

The college is immensely pleased to certify the participation of

Dr./ Mr./Miss/Mrs.*Rashmi Thapa*.....

of *Shri Shankaracharya Mahavidyalaya Junwani Bhilai*.....

for Attending/ Presenting paper/ poster on *Industrial uses of*.....

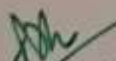
Lipase..... at


International Conference on "Molecular Biology : Its Approaches and Developments

in the Recent Era"; organized by Department of Zoology & Microbiology,

SSMV- Bhilai from 15th-16th September, 2023.

The institution wishes Good Luck for all the future endeavours.


Dr. Archana Jha
Principal


Dr. J. Durga Prasad Rao
Dean- Academics


Dr. Sonia Baja
Convener


Dr. Rachana Chaudhary
Co-Convener

SHRI SHANKARACHARYA MAHAVIDYALAYA

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