

# **International Conference by Biotechnology Society of Nepal (ICBSN-2021)**

**“Biotechnological Revolution in Environmental, Agricultural  
Technologies & Healthcare (BREATH)”**

## **VIRTUAL CONFERENCE PROGRAM SCHEDULE**

**12-14 February, 2021**

### **Conveners**

**Prof. Vasudeo Zambare, India  
Prof. Janardan Lamicchane, Nepal  
Mr. Nabin Munankarmi, Nepal**

**Organised by  
Biotechnology Society of Nepal (BSN), Nepal**

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**12 FEBRUARY, 2021**

Welcome and Keynote Speech		
07:20- 07:30	Welcome Speech	<b>Mr. Nabin Munankarmi</b> Convener- ICBSN2021 President, Biotechnology Society of Nepal, Nepal
07:30 - 07:40	Patron Speech	<b>Er. Ganesh Shah</b> Former Minister for Environment, Science, and Technology, Nepal
07:40- 08:40	Keynote Speech	<b>Prof. Nikolai Petrovsky</b> Scientist and Professor at Flinders University, Australia Chairman of Vaxine Pty. Ltd, Australia
08:40- 08:50	Concluding Speech	<b>Mr. Binayak Pandey</b> Biotechnology Society of Nepal, Nepal
08:50 - 09:00	<b>Refreshment Break</b>	
SESSION-1	Biotechnology	
	Session Chair	<b>Dr. Puna Maya Maharjan</b> Senior Scientist, G+Flas Life Sciences, Korea
	Moderator	<b>Dr. Santi Devi Upadhaya</b> Assistant professor Dankook University, Korea
09:00 - 09:10	Welcome Speech	Welcome and session introduction <b>Dr. Puna Maya Maharjan</b> Senior Scientist, G+Flas Life Sciences, Korea
9:10 - 09:50	Plenary Speech	Deletion of the protein glycosyltransferase using CRISPR-Cas9 and production of glycoengineered biopharmaceuticals in <i>Nicotiana benthamiana</i> <b>Prof. Sunghwa Choe</b> Professor, Seoul National University, Korea CEO, G+Flas Life Sciences, Korea
09:50 - 10:00	Oral -1	Alternative bioremediation agents against haloacids, haloacetates and chlorpyrifos using novel halogen-degrading bacterial Isolates from the hypersaline lake Tuz <b>Habeebat Adekilekun Oyewus</b> Universiti Teknologi Malaysia, Malaysia
10:00 - 10:10	Oral -2	Switching in bacterial gene expression networks <b>Santosh Koirala</b> Researcher, University of Illinois, USA
10:10 - 10:20	Oral -3	Cytotoxic effect of selected wild orchids on two different human cancer cell lines <b>Pusp Raj Joshi</b> Tribhuvan University, Nepal

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10:20 - 11:45	Invited Speech	Winemaking in the newest wine regions of Asia and the challenges of making quality wines in Nepal <b>Mr. Ajoy R. Shaw</b> Winemaking consultant, Ajoy Shaw Consulting, India
10:45 - 10:55	<b>Refreshment Break</b>	
10:55 - 11:05	Oral -4	Bioactive and biotechnological potentials of the yellow pigment extracted from mangrove-associated actinomycetes strain <b>Kavindi Weerasinghe</b> Universiti Teknologi Malaysia, Malaysia
11:05 - 11:15	Oral -5	Development of a real-time PCR based detection system for Enteric Viruses of livestock <b>Monika Punia</b> Ch. Devi Lal University India
11:15 - 11:25	Oral -6	Three-dimensional culture of mesenchymal stem cells on microcarrier based technologies <b>Dr. Mohd Helmi Sani</b> Senior Lecturer, Universiti Teknologi Malaysia, Malaysia
11:25 - 11:35	Oral -7	Multi parameter optimization for enhanced biohydrogen yield using machine learning <b>Riya Nair</b> Birla Institute of Technology & Science, U.A.E
11:35 - 11:45	Oral -8	Biotransformation of flavonoids and bioactivities by streptomyces species isolated from high land soil samples of Nepal <b>Suman Prakash Pradhan</b> Kathmandu University, Nepal
11:45 - 11:55	Oral -9	Haloadaptation insights from comparative modeling studies between halotolerant and nonhalotolerant <b>Prof. Mohamed Faraj Edbeib</b> Ass. Professor, Baniwalid University, Baniwalid, Libya
11:55 - 12:05	Oral -10	Multivariate data analysis and visualization using MetaboAnalyst <b>Dr. Zanariah Hashim</b> Senior lecturer, Universiti Teknologi Malaysia, Malaysia
12:05 - 12:30	Invited Speech	Resveratrol hyper-production by plant cell culture: an example for sustainable utilization of medicinal plant biodiversity <b>Prof. Wei Zang</b> Professor, Flinders' University, Australia
12:30 - 12:40	<b>Refreshment Break</b>	
12:40 - 12:50	Oral -11	Development of recombinant <i>Escherichia coli</i> for the production of 3-hydroxypropionic acid from glycerol <b>Mugesh Sankaranarayanan</b> Vel Tech University, India
12:50 - 13:00	Oral -12	Whole exome sequencing of Nepalese siblings with Factor X deficiency identifies F71S: a rarest mutation in F10 <b>Binod Neupane</b> Tribhuvan University, Nepal

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13:00 - 13:25	Invited Speech	LSM 900 with Airyscan 2 for fast and gentle Multiplex imaging <b>Dr. Amarnath T</b> Application Specialist, Carl Zeiss Microscopy, India
13:25 - 13:35	Oral -13	Effect of chloroquine, fansidar (sulphadoxine-pyrimethamine, SP) and ACT on anti- malarial drug resistant markers in different <i>Plasmodium sp.</i> : A comparative review study <b>Sohini Singh</b> Amity University, India
13:35 - 14:00	Invited Speech	Harnessing the power of bacteria for biobased chemical production to sustainable agriculture <b>Dr. Sailesh Malla</b> Senior Scientist, Chr. Hansen A/S, Denmark
14:00 - 14:10	Oral -14	Exopolysaccharide production from cultivation of <i>Lactobacillus plantarum</i> ATCC 8014 and co-culture with <i>Saccharomyces cerevisiae</i> ICA-Y01 <b>Dr. Nor Zalina Othman</b> Resercher, ICA,Universiti Teknologi Malaysia Pagoh, Malaysia
14:10 - 14:20	Oral -15	Production of of wine from jujube fruit pulp <b>Gorade Rohini Baijarao</b> SNJB chandwad nashik, Maharashtra, India
14:20 - 14:30	Session Chair	Concluding Remark <b>Dr. Puna Maharjan</b> Senior Scientist, G+Flas Life Sciences, Korea
<b>SESSION-2 Environment</b>		
	Session Chair	<b>Dr. Fahrul Huyop</b> Professor Universiti Teknologi Malaysia, Malaysia
	Moderator	<b>Dr. Rameshraj Pant</b> Tribhuvan University, Nepal
	Moderator	<b>Dr. Santosh Koirala</b> Nepal
12:45 - 13:00	Welcome Speech	Welcome and session introduction <b>Dr. Fahrul Huyop</b> Professor, Universiti Teknologi Malaysia, Malaysia
13:00 - 14:10	Plenary Speech	Application of bacterial technology in environmental processes: some Malaysian experience <b>Dr. Zainul Akmar</b> Associate Chair, Faculty of Engineering,UTM, Malaysia
14:10 - 14:35	Invited Speech	Alternatives to chemical pesticides in citrus: the use of yeast-based biocontrol agents <b>Julián Rafael Dib</b> Instituto de Microbiología, Facultad de Bioquímica, Química y Farmacia, Universidad Nacional de Tucumán, Argentina
14:35 - 15:00	Invited Speech	Legal initiatives for the effective environmental governance and for the sustenance of sustainable development in India <b>Prof. S. Ganapathy Venkatasubramanian</b> Environmental Law And Management, Anna University, India

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15:00 - 15:15	<b>Refreshment Break</b>	
15:15 - 15:25	Oral -1	Biofilm formation by <i>Staphylococcus</i> spp. in different media and influence of hexavalent chromium. <b>K.C.B. Aththanayake</b>
15:25 - 15:35	Oral -2	Emerging biological technologies for biomethane production <b>Nabin Aryal</b> Nepal Science Foundation Trust, Nepal
15:35 - 15:45	Oral -3	Seawater Based Algal Biofuel Production <b>Melissaviyane Antony Venancius</b> Birla Institute of Technology & Science, Dubai, U.A.E
15:45 - 15:55	Oral -4	Effect of environmental stress factors on growth and survival of <i>Arthrobacter</i> isolates obtained from soil and sewage <b>Sandhya Mulchandani</b> Smt Chandibai Himathmal Mansukhani College, India
15:55 - 16:05	Oral -5	Isolation and identification of bacterial community associated with Sri Lankan mangrove sediments <b>Kishani N. Naligama,</b> Faculty of Science, University of Kelaniya, Sri Lanka.
16:05 - 16:15	Oral -6	Toxicity of Selected Facial Cleansers to Soil Bacterial Flora <b>Balasooriya A. Y. B.</b> Faculty of Science, University of Kelaniya, Sri Lanka
16:15 - 16:25	Oral -7	Characterization of a 2,2-Dichloropropionic Acid (2,2-DCP) Degrading Alkalotolerant <i>Bacillus megaterium</i> strain BHS1 Isolated from Blue Lake in Turkey <b>Batool Hazim Abdul Wahhab</b> Faculty of Science, University Teknologi Malaysia, Malaysia
16:25 - 16:35	Oral -8	<i>Pleurotus ostreatus</i> biofoam: Effect of mycelium growth <b>Roshanida A. Rahman</b> Faculty of Engineering, Universiti Teknologi, Malaysia, Malaysia
16:35 - 16:45	Oral -9	Mediation of Corrosion of Stainless Steel by Goan Saltpan Sulphate Reducing Bacteria. <b>Deepti Rane</b> Goa University, India
16:45 - 16:55	Oral -10	Molecular Detection of Coliform in Rain as Drinking Water <b>Dhira Satwika,</b> Indonesia
16:55 - 17:05	Oral-11	Normalization after covid <b>Sarita Nepal,</b> STAN Kathmandu, Nepal
17:05 - 17:15	Session Chair	Concluding Remark <b>Dr. Fahrul Huyop</b> Professor, Universiti Teknologi Malaysia, Malaysia

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SESSION-3 Agriculture		
	Co-Convener	<b>Dr. Ramachandran Subramanian</b> Associate Professor, Birla Institute of Technology & Science, Dubai, U.A.E
	Session Chair	<b>Dr. Bijaya Pant</b> Professor, Tribhuvan University, Nepal
	Moderator	<b>Dr. Anupama Shrestha</b> Adjunct Professor, Himalayan College of Agricultural Sciences and Technology, Nepal
09:00 - 09:10	Welcome Speech	Welcome and session introduction <b>Dr. Bijaya Pant</b> Professor, Tribhuvan University, Nepal
09:10 - 09:50	Plenary Speech	Plant Molecular Biology and Biotechnology <b>Prof. Ashwani Pareek</b> Professor, Jawaharlal Nehru University, India
09:50- 10:00	Oral -1	Intellectual Property Right on Basmati Rice: Current Scenario and Evidences of Origin, Cultivation and Use Values of Basmati Rice in Nepal <b>Dr. Bal Krishna Joshi</b> Scientist, National Agriculture Genetic Resources Center, Nepal
10:00 - 10:10	Oral -2	Characteristics of Kyrgyzstan Specific Uzgen Rice and Biotechnological Approaches in Production <b>Bermet Kydyralieva</b> Kyrgyz-Turkish Manas University, Kyrgyzstan
10:10 - 10:20	Oral -3	Marker Assisted Back Cross Breeding for Introgression of pinaD1a gene in Indian Wheat Variety <b>Tej Pratap Jitendra Kumar</b> Indian Agricultural Research Institute (IARI), India
10:20 - 10:45	Invited Speech	Title <b>Prof. Renu Deswal</b> University of Delhi, India
10:45 - 10:55	Oral -4	Assessment of Carotenoid Level and Antioxidant Activity of Mesocarp Palm Oil Extracted with Pectinase Enzyme Assisted Extraction <b>Leong Hong Yeng</b> Innovation Centre in Agritechnology, Universiti Teknologi Malaysia, 84600, Muar, Johor, Malaysia
10:55 - 11:05	Oral -5	Plant Probiotic Properties of native Endophytic Diazotrophic <i>Lysinibacillus sphaericus</i> <b>Dr. Shabanamol S</b> SAFI Institute of Advanced Study, India

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11:05 - 11:15	Oral -6	Gamma Rays Induced Mutations in Cowpea <b>Dr Manoj Tukaram Patil</b> SNJB'S KKHA Arts SMGL Commerce & SPHJ Science College, India
11:15 - 11:40	Invited Speech	Potential DNA barcode region to differentiate <i>Swertia chirata</i> from its adulterants. <b>Prof. Harvinder Singh</b> Professor & Program Director of Agribusiness Leaders Institute, Australia
11:40 - 11:50	Oral -7	Control of Aphid ( <i>Arachis hypogaea</i> ) and mite ( <i>Polyphagotarsonemus latus</i> ) by using Phyto-Chemicals <b>Sunil Kumar Ghosh</b> Bidhan Chandra Krishi Viswavidyalaya, India
11:50 - 12:00	Oral -8	Salinity Tolerant Forages for Animal Fodder Applications <b>Sirisha Nuti</b> International Centre for Biosaline Agriculture, U.A.E
12:00 - 12:10	Oral -9	Sodium Azide Induced Mutation In Cowpea <b>Gangurde Rinku Ratan</b> SNJB'S KKHA Arts SMGL Commerce & SPHJ Science College, India
12:10 - 12:20	Oral 10	Mass propagation and acclimatization of endangered orchid <i>Dendrobium densiflorum</i> by in vitro culture <b>Lasta Maharjan</b> Annapurna Research Center
12:20 - 12:30	Session Chair	Concluding Remark <b>Dr. Bijaya Pant</b> Professor, Tribhuvan University, Nepal
<b>SESSION-4</b>	<b>Forensics</b>	
	Session Chair	<b>Dr Lata Gautam,</b> Associate Professor Anglia Ruskin University, UK
	Moderator	<b>Dr Agatha Grela</b> Lecturer University of West London, UK
	Repertoire	<b>Dr Amarnath Mishra</b> Assistant Professor Amity University, India
13:00 - 13:10	Welcome Speech	Welcome and session introduction <b>Dr Lata Gautam,</b> Associate Professor, Anglia Ruskin University, UK
13:10 - 13:50	Plenary Speech	Sexual Assault investigation in the UK <b>Ms Joanne Morrissey</b> Director of Learning and Teaching, Anglia Ruskin University, UK



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13:50 - 14:00	Oral -1	A case of disputed paternity solved with the help of DNA fingerprinting analysis <b>Mr Indresh Kumar Mishra</b> Assistant Director, Biology, Forensic Science Laboratory, India
14:00 - 14:10	Oral -2	Characterization of animal hair using microscopic methods: towards the creation of a forensic database. <b>Dr Ellen Mwenesongole</b> Botswana International University of Science and Technology, Botswana
14:10 - 14:20	Oral -3	The interpretation of hair evidence for drug facilitated sexual assault crimes <b>Mr Christopher Davies</b> PhD researcher, Anglia Ruskin University, Cambridge, UK
14:20 - 14:30	Oral -4	Trends of narcotic drugs cases in National Forensic Science Laboratory, Khumaltar, Nepal <b>Mr Birendra Chaudhary</b> Narcotic Unit, National Forensic Science Laboratory, Nepal
14:30 - 14:40	Oral -5	Profiling of clandestine methcathinone impurities using simple direct extraction approach by Gas Chromatography Mass Spectrometry <b>Ainol Hayah Ahmad Nadzri,</b> School of Health Sciences, Universiti Sains Malaysia, Malaysia
14:40 - 14:50	Oral -6	A study on development of different techniques and pattern recognition of accelerants and fabrics in forensic samples <b>Mr Sourabh Kumar Singh</b> Research Scholar, Amity University, India
14:50 - 15:00	Oral -7	Visualisation of latent fingerprints on non-porous substrates immersed in a natural outdoor pond using the green, novel and rapid nanobio-based reagent <b>Aida Rasyidah Azman</b> Faculty of Science, Universiti Teknologi Malaysia, Malaysia
15:00 - 15:15	<b>Refreshment Break</b>	
15:15 - 15:40	Invited Speech	The interpretation of bloodstains on carpets for the advancement of crime scene investigation. <b>Ms Laura Hugh</b> Course Leader, University of West London, UK
15:40 - 16:05	Invited Speech	The investigation of the flammability of fabrics when contaminated with emollients and the link with fire fatalities. <b>Dr Sarah Hall</b> Senior Lecturer, De Montfort University, Leicester, UK
16:05 - 16:15	Oral -8	Knowledge, perception and experience of DFSA among college students – comparison of Nepal and UK data <b>Dr Agatha Grela</b> Lecturer, University of West London, Brentford, UK



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16:15 - 16:25	Oral -9	Modified analytical method for determination of ketamine from forensic biological sample by gas chromatography –flame ionisation detector <b>Mr Adarsh Mishra</b> Amity Institute of Forensic Sciences, Amity University, India
16:25 - 16:35	Oral -10	A preliminary study on discrimination and classification of white A4 office paper using non-destructive techniques in tandem with pattern recognition procedures <b>Tay Eue Kam</b> Universiti Sains Malaysia, Malaysia
16:35 - 16:45	Oral -11	A validated method for the analysis of cannabis, heroin and other components in Nyaope <b>Mr PM Mthembi</b> University of the Free State, South Africa
16:45 - 16:55	Oral -12	Forensic challenges faced in DVI in Kedarnath tragedy: A review <b>Arti Varshney</b> Sherlock Institute of Forensic Science, India
16:55 - 17:05	Oral -13	Chimerism analysis based on Y-STRs in novel forensic situations <b>Mr Ajay Parkash</b> Amity University, India
17:05 - 17:15	Session Chair	Concluding Remark <b>Dr Lata Gautam,</b> Associate Professor, Anglia Ruskin University, UK

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SESSION-5		Healthcare
	Session Chair	<b>Dr. Niranjan Koirala</b> Asst. Editor-in-Chief, Nepal Journal of Biotechnology, Nepal
	Moderator	<b>Dr. Nissar Reshi</b> Assistant Professor Sandip University, India
13:00 - 13:10	Welcome Speech	Welcome and session introduction <b>Dr. Niranjan Koirala</b> Asst. Editor-in-Chief, Nepal Journal of Biotechnology, Nepal
13:10 - 13:50	Plenary Speech	Health and well-being issues of Nepalese migrant workers in the Gulf Cooperation Council countries and Malaysia during Covid-19 pandemic <b>Prof Dr Padam Simkhada</b> Associate Dean International and Professor of Global Health, Huddersfield University, UK
13:50 - 14:15	Invited Speech	Omega-3 fatty acid production for advancing human nutrition <b>Dr. Munish Puri</b> Medical Biotechnology, Flinder University, Australia
14:15 - 14:40	Invited Speech	Occupational Health Hazard due to Pesticide Exposure <b>Dr. Anjali Chaudhary</b> Head Department of Biotechnology, Career College, Bhopal, India
14:40 - 15:05	Invited Speech	From food waste to food wise: the success story of France <b>Dr. Ruchi Srivastava</b> Freelance Consultant, India
15:05 - 15:15	<b>Refreshment Break (15 min)</b>	
15:15 - 15:25	Oral -1	Virtual structure-based docking, WaterMap and Molecular Dynamics guided identification of the potential Natural compounds as inhibitors of protein-tyrosine phosphatase 1B <b>Suman Manandhar</b> Department of Pharmacology, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal-576104, India
15:25 - 15:35	Oral -2	Prevalence of Human Papilloma Virus over the Study Populations in Tirupur District. <b>Dr. V. Bharathi</b> , Assistant Professor & Head, Dept. of Microbiology, SVCAS, India
15:35 - 15:45	Oral -3	Application of bioactive extracted from post distillation biomass of geranium in cosmetic and health industries <b>Mamta Patil</b> Junior Scientist, KET's Scientific Research Center, Vaze Collage Campus, India

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15:45 - 15:55	Oral -4	Bacterial Eye Infections Among Patients Visiting Nepal Eye Hospital <b>Shankar Adhikari</b> Bhanu-12, Tanahun, Gandaki Province, Nepal
15:55 - 16:05	Oral -5	Bioactivity evaluations of leaf extract fractions from young barley grass and correlation with their phytochemical profiles <b>Romit Kumar Subba</b> Manmohan Memorial Institute of Health Sciences, Nepal
16:05 - 16:15	Oral -6	Biomedical Applications of Silver Nanoparticles Derived from Corallocarpus epigaeus Rhizome Extract <b>R. Nirmala</b> , Department of Biotechnology, Hindustan College of Arts and Science, India
16:15 - 16:25	Oral -7	Antioxidative and UV light shielding profile of microbial biochromes isolated from garden soil environment. <b>Pranali Akshay Shete</b> , Assistant Professor, SMT CHM College, India
16:25 - 16:35	Oral -8	Xing Nao Kai Qiao : A Brain Awakening Technique <b>Dr Jaya Satyal</b> Central Ayurveda Hospital / Annapurna Neuro Hospital, Nepal
16:35 - 16:45	Oral -9	Hydrogen peroxide stimulation in Uropathogenic Escherichia coli for biofilm formation <b>Prabin Dawadi</b> Nepal Academy of Science and Technology, Nepal
16:45 - 17:00	<b>Refreshment Break (15 min)</b>	
17:00 - 17:10	Oral -10	Quality assessment of a caffeine containing herbal aphrodisiac marketed in Kaduna Nigeria <b>Dr. Abduljalal Danbaba</b> Kaduna State University, Kaduna, Nigeria
17:10 - 17:20	Oral -11	Study of antimicrobial susceptibility profile of Salmonella typhi and Salmonella paratyphi. <b>Kusum Subedi</b> Tri-Chandra Multiple Campus, Tribhuvan University, Nepal
17:20 - 17:30	Oral -12	Engineered bacteriophage nanofiber as a novel therapeutic platform for curing ischemic diseases <b>Kshitiz Raj Shreatha</b> National College, Tribhuvan University, Nepal
17:30 - 17:40	Oral -13	Comparative nutritional and antinutritional assessment of some Vigna species. <b>Jadhav Rashmi Hemant</b> SNJB's KKHA Arts, SMGL Commerce, SPJ Science college, India
17:40 - 18:50	Oral -14	Role of DEK in autophagy-deficiency associated liver pathogenesis. <b>Niani Bailey</b> Tulane University School of Medicine, USA

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<b>17:50 - 18:00</b>	Oral -15	Phytochemical screening of Sargassum tenerrimum (J.Agardh) collected from Bhuigaon beach, Vasai Dist. Palghar (MS), India. <b>Shital Sampatrao Jarare</b> Department of Botany, Government Institute of Science, India.
<b>18:00 - 18:10</b>	Oral -16	Levels of Empathy Among Undergraduate Nursing Students of School of Health Sciences: A Cross-Sectional Study. <b>Siti Masyitah Mohd Rosly</b> , UNIVERSITI SAINS MALAYSIA, Malaysia.
<b>18:10 - 19:00</b>	Session Chair	Concluding Remark <b>Dr. Niranjana Koirala</b> Asst. Editor-in-Chief, Nepal Journal of Biotechnology, Nepal
<b>19:10 - 19:20</b>	<b>Refreshment Break (10 min)</b>	
<b>19:20 - 19:45</b>	Awards	<b>Award distribution</b> <b>Dr. Janardan Lamichhane</b> Professor, Kathmandu University, Nepal
<b>19:45 - 20:00</b>	Concluding Speech	<b>Vote of Thanks</b> <b>Dr. Vasudeo Zambare</b> Professor, Sandip University, India Director, Om Biotechnologies, India

## “Biotechnological Revolution in Environmental, Agricultural Technologies & Healthcare (BREATH)”

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## “Biotechnological Revolution in Environmental, Agricultural Technologies & Healthcare (BREATH)”

## This image shows a full page of blank handwriting practice paper. It features horizontal ruling lines spaced evenly down the page. The background consists of alternating white and light gray horizontal bands, creating a guide for letter height. There are no margins, text, or other markings on the page.