



***EURASIA RESEARCH
CONFERENCE PROCEEDINGS***

***2022 – International Conference on Psychology &
Psychiatry (ICPP), 29-30 April, London***

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Healthcare and Biological Sciences Research Association (HBSRA) is an international community of researchers, practitioners, students, and professionals for the development and spread of ideas in the field of healthcare and life sciences.

HBSRA is promoted by Eurasia Research. HBSRA aims to bring together worldwide researchers and professionals, encourage intellectual development, and create opportunities for networking and collaboration. These objectives are achieved through academic networking, meetings, conferences, workshops, projects, research publications, academic awards, and scholarships.

The driving force behind this association is its diverse members and advisory board, who provide inspiration, ideas, efforts and drive collaborations. Scholars, Researchers, Professionals are invited to become a member of HBSRA and join this ever-growing network, working for benefit of society and research with the spirit of sharing and mutual growth.

Salient Features:

- 15000 + and growing network of professionals
- Professional and Experienced team
- Conferences in Asia, Europe & Africa
- Events at reputed institutes and grand venues
- Lifetime membership
- Strong Social Media Platform for networking
- Young Researcher Scholarships
- Research publication in international journals

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Dr. Cecilia O. Martinez, Dean, College of Nursing, University of Manila, Manila, Philippines

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Yoshiko Yamaguchi, Research Associate of Home Care Nursing, Faculty of Nursing, Kwassui Women's University, Nagasaki, Japan

HBSRA COMMITTEE MEMBERS

1.	Dr. Cecilia O. Martinez	Dean, College of Nursing, University of Manila, Manila, Philippines
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11.	Abdulelah Mohammed Alhaidary	Prince Sultan Military Medical City, Riyadh, Saudi Arabia
12.	Sharmin Sultana	Nanotechnology and Catalysis Research Centre (NANOCAT), University of Malaya, Kuala Lumpur, Malaysia
13.	Dr. Cyaria Tongden Gurung	Assistant Professor in Botany (Grade 3), Department of Botany, Siliguri College, Siliguri- 734 001, Dist. Darjeeling. West Bengal
14.	Yu-Chuan Chang, R.N.	Head Nurse of Cardiovascular Center of National Taiwan University Hospital, Taipei, Taiwan, Lecturer, Department of the Ministry of Education: Chang Gung University of Science and Technology, Taoyuan City, Taiwan
15.	Made Indra Wijaya, M.D., M.H.A.	Hospital Director of Bali International Medical Centre (BIMC) Hospital, Bali, Indonesia
16.	Dr. S. Palanisamy	M. Pharm., Ph.D., Gcp (My)., Scope (My)., Lecturer, Department of Pharmacy Practice, School of Pharmacy, International Medical University (IMU), Kuala Lumpur, Malaysia
17.	Prof. Dr. Hanan Anwar Aly Taie	Research Professor of Plant Biochemistry and Head of Plant Biochemistry Department, National Research Centre, Giza, Egypt

18.	Dr. Arif Hussain	Associate Professor, School of Life Sciences, Manipal Academy of Higher Education, Dubai, UAE
19.	Dr. Kesaven Bhubalan	Associate Professor, Marine Biology Program, School of Marine and Environmental Sciences
20.	Dr. Vigneswari Sevakumaran	Senior Lecturer School of Fundamental Science (PPSA), Universiti Malaysia Terengganu, Malaysia
21.	Dott. Tiziano Zanin	Chief Technician of the Histology and Pathologic Anatomy Department, Genetic Laboratory and Clinical Analysis Laboratory, E.O. OSPEDALI GALLIERA, Genova, Italy

Conference Schedule

Venue: The Tomlinson Centre, Queensbridge Road, London, UK

Date: 29th April 2022

Registrations: 8:30-9:00 AM

Opening of the conference: 9:00-9:30 AM

Session 1: Keynote Talk: 9:30-10:30 AM

1.	Joko Suroso Faculty of Teacher Training and Education, National Islamic University of Kiai Haji Achmad Shiddiq Jember, East Java Indonesia	Profile of High Schools Students Science Literacy
2.	Dr. Merissa Braza Ocampo Ph.D., Fukushima Gakuin University, Fukushima City, Japan	Impact of Gratitude, Kindness, And Self- Compassion Intervention to Students' Brainwaves of Emotions
3.	Stalis Norma Ethica Magister Program of Clinical Laboratory Science Universitas Muhammadiyah Semarang, Central Java, Indonesia	Brown algae as a rich source of novel alginate-lyase producing bacteria to combat biofilm-related infection

Session 2: Team Activity: 10:30 AM-11:30 PM

Session 3: Technical Talk 1: 11:30 AM-12:30 PM

4.	Reem Alqahtani Economic, Taif University, Taif, Saudi Arabia ERCICBELLP2203052	The Impact of Renewable Electricity Generation on Employment at the State Level
5.	Caleb Opoku Mensah School of Finance, Jiangsu University, Zhenjiang, China ERCICBELLP2203053	Big Data Characteristics and Innovation Performance in Small and Medium-sized Enterprises (SMEs) During COVID-19 Pandemic: The role of the Big Data Team
6.	Lamin Jaiteh Disease Control and Elimination, Medical Research Council the Gambia at London School of Hygiene and Tropical Medicine, Banjul the Gambia ERCICRLSH2203058	Listener
7.	Andreas Burger Medical radio service, Vienna, Vienna, Austria ERCICRLSH2203078	Listener
8.	Lawrence Nandam Turner Institute for Brain and Mental Health School of Psychological Sciences, Monash University, Melbourne, Australia ERCICRLSH2203079	Listener
9.	Sandhya Keller General Practice, Royal Australian College of General Practitioners, Brisbane, Australia	Listener

	ERCICRLSH2203084	
10.	Unigunde Antone Department of Food Technology, Faculty of Food Technology, Latvia University of Life Sciences and Technologies, Riga, Latvia ERCICRLSH2203088	Antimicrobial Effects of Whey Permeate-Derived Animal Feed Acidifier

Session 4: Technical Talk 2 and Valediction: 12:30 PM-1:00 PM

Lunch Break and Group Photo: 1:00 PM-2:00 PM

Note:

The presentations for all the unregistered participants who have not confirmed their arrival yet and will be registering on spot at the conference venue will be held after the scheduled presentations in Technical Talk 2.

All the participants are requested to wear masks and carry sanitisers with them.

For your information, the following are the important details to be noted:

Venue: The Tomlinson Centre, Queensbridge Road, London, UK

Room: Bloom 2

Co-ordinator Name- Dr. Davis Lazarus

Google Maps: <https://goo.gl/maps/KHR1VTgN8iubvUeP7>

Conference Schedule

Platform: Zoom

Date: 30th April 2022

Opening of the conference: 6:30-6:45 AM

Session 1: Keynote Talk: 6:45-7:15 AM

11.	Dr. Maria Teresa Matriano Assistant Professor, Middle East College, Al Rusayl, Knowledge Oasis, Muscat, Oman	The Future of Learning and Teaching
12.	Dr Sheryl Grace Colaco Professor, Dept. of Electrical & Electronics Engineering, St. Joseph Engineering College, Vamanjoor, Mangalore, India	Lighting for Horticulture
13.	Dr. Abdulrasheed Olatunji Abdussalam Associate Prof, Islamic University of Perlis, Malaysia	Psychological and Social Factors Responsible for Violence among the Secondary School Students in Nigeria

Session 2: Team Activity: 7:15-7:45 AM

Session 3: Technical Talk: 7:45-9:00 AM

14.	Yun Hsuan Chiu Graduate Institute of Human Resource Management, National Changhua University of Education, Changhua, Taiwan ERICBELLP2237060	Corporate Reputation and Job Pursuit Intention: The Mediation Effects of Organizational Attractiveness and Moderation Effects of Need For Cognition
15.	Hsiao Ting Tseng Graduate Institute of Human Resource Management, National Changhua University of Education, Changhua, Taiwan ERICBELLP2237061	Decisional Procrastination and Work Performance: Moderation Effects of Perfectionism
16.	Hsiao-Yuan Chu Graduate Student of Graduate Institute of Education, National Changhua University of Education, Changhua, Taiwan ERICBELLP2237074	Investigating the Association Among High School Students' Experience of Cyberbullying, Moral Disengagement, and Psychological Well-being
17.	Asmaa Alazmi Department of Construction Project, Ministry of Public Work in Kuwait, Kuwait ERICSTR2237056	Develop a Spatial Splitting Strategy on Land Use Data for Systematic Prediction Model Validation
18.	Adrien Durand Selarl Adrien Durand, Nice, France ERICRSLSH2237055	Listener
19.	Jia Yin Lin Business Administration Department, National Changhua University of Education, Changhua, Taiwan ERICBELLP2203141	The Study of Instagram Followings and Followers on Likes, Commenting, and Sharing Intentions

Note:

1. You may download the ZOOM following the below link: <https://zoom.us/download>
2. We request to rename your account with your name. This will help us to record your presence.
3. You may ask your questions related to the presentation in the chat section.
4. All the certificates & receipts will be sent to the participant's within a week on their mail IDs.
5. Please calculate your local time accordingly by entering your city on this link: <https://savvytime.com/converter/gmt/apr-30-2022/6-30am>
6. You can attend the live session Facebook at the same time following the below-given link: <https://www.facebook.com/eurasiaresearch>

We're looking forward to an excellent meeting with great researchers from different countries around the world and sharing new ideas on 30 April 2022.

Preface:

Healthcare and Biological Sciences Research Association (HBSRA) is an international forum of researchers, academicians, and practitioners for sharing knowledge and innovation in the field of healthcare and life sciences. HBSRA aims to bring together worldwide researchers and professionals, encourage intellectual development, and providing opportunities for networking and collaboration. This association meets its objectives through academic networking, meetings, conferences, workshops, projects, research publications, academic awards, and scholarships. HBSRA strives to enrich its diverse group of advisory members. Scholars, Researchers, Professionals are invited to freely join HBSRA and become a part of a diverse academic community, working for benefit of academia and society through collaboration and vision.

For this conference around 20 Participants from around 7 different countries have submitted their entries for review and presentation.

HBSRA has now grown to 16,450 followers and 9500 members from 85 countries.

Membership in our scholarly association HBSRA is chargeable.

List of members: <https://hbsra.org/membership/list-of-members/>

Membership Application form link: <http://hbsraevents.org/membership?association=hbsra>

The proceeding is a book of abstracts, all the abstracts are published in our conference proceedings a day before the conference.

You can get our conference proceedings at: <https://hbsra.org/conference/proceedings/>

We hope to have an everlasting and long-term friendly relation with you in the future.

In this context, we would like to share our social media web links:
<https://www.facebook.com/eurasiaresearch/>

You will be able to freely communicate your queries with us, collaborate and interact with our previous participants, share and browse the conference pictures on the above link.

Our mission is to make continuous efforts in transforming the lives of people around the world through education, application of research & innovative ideas.

KEYNOTE SPEAKER



Dr. Stalis Norma Ethica, M.Si

Magister Program of Clinical Laboratory Science Universitas Muhammadiyah Semarang Semarang, Central Java, Indonesia

Topic: Brown algae as a rich source of novel alginate-lyase producing bacteria to combat biofilm-related infection

Dr. Stalis Norma Ethica M.Si. (Orcid ID: 0000-0002-0853-0423) is a lecturer and researcher with an industrial experience background. She specializes in the use of bacterial cells and enzymes for their possible benefits as bioremediation, therapeutic or diagnostic agents, supported by encapsulation and genetic engineering technologies. Dr. Ethica earned her bachelor's and master's degrees in Chemistry from Universitas Gadjah Mada, Indonesia. Her doctorate majoring in Biotechnology was also obtained from the same university in 2014. In 2018 she obtained the advanced course on Next Generation Sequencing Bioinformatics (EMBL-EBI) in Wellcome Genome Campus, Cambridge, UK. She joined the Undergraduate Program of Medical Laboratory Technology of Universitas Muhammadiyah Semarang as a lecturer in 2015. From 2019 to present she has been serving as a full-time lecturer (assistant professor) at the Postgraduate Program of Magister of Clinical Laboratory Science of the same institution. Her projects related with the development of bioremediation agent of hospital wastewater from indigenous bacteria and the development of antithrombosis and antibiofilm agents from marine bacterial enzymes received supports from Indonesian Ministry of Research and Higher Technology.

PRESENTERS

(Applicants & Participants)



SO. Adesida
ERCICRLSH2203086

Experimental Analysis and Systematic Review of the Carcinogenic and Non-Carcinogenic Risk of Consuming Metal-Laden Wild Mushrooms in Nigeria

SO. Adesida

Department of Botany, University of Ibadan, Nigeria

GC. Alimba

Department of Zoology, University of Ibadan, Nigeria

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3Leibniz Research Centre for Working Environment and Human Factors, Technical University of Dortmund, Germany

Abstract

Mushrooms are undeniably rich in nutritive and therapeutic compounds; nevertheless, they are excellent bio-accumulators of hazardous substances in contaminated conditions. This study aims at investigating the potential human health risk associated with the consumption of metal-laden mushrooms in Nigeria. The concentrations of Pb, Cd, Cr, Cu, Ni, Zn and Al in six wild mushrooms collected from the Nigerian environment were determined using experimental analysis (AAS). Also, systematic analysis of 21 published articles on metal accumulation in mushrooms from Nigeria were obtained from scientific databases. The determined metals were analysed for their potential to induce carcinogenic and non-carcinogenic health risk in humans when consumed using hazard model indices. Zn and Cd, respectively, had the highest and lowest mean concentrations (mgkg⁻¹) in the analysed mushrooms while Fe and Co, respectively, had the highest and lowest mean concentrations (mgkg⁻¹) in the data from the 21 reviewed articles. The Estimated Daily Intake of the metals in the mushrooms were all within the PTDI limit set by JECFA and WHO. The Target Hazard Quotient of all the heavy metals in the experimentally analysed mushrooms were <1 while only Cd, Cr and Co exceeded the safe limit in the systematic analysis. The hazard indices obtained from both the systematic and experimental analyses were all >1, indicating significant health risk. The findings from systematic and experimental analyses revealed that consuming metal-laden mushrooms increases the carcinogenic risk of Cd, Cr, and Ni which exceeded the acceptable limit of 1E-04 according to USEPA. Based on the alignment in the findings from the systematic and experimental analyses, it suggests that consuming mushrooms collected from metal polluted substrates increases carcinogenic and non-carcinogenic health risk of mushroom consumers in Nigeria.

Keywords: Health Risk Assessment, Metal Pollution, Mushrooms, Nigeria, Systematic Review Analysis

Ahmed Badawy
ERCICRLSH2203054

International Standards in Combating the Transmission of Infectious Diseases through Central Sterilizers and Periodic Examination of Systems inside the Hospital

Ahmed Badawy

Faculty of Applied Medical science, Beni Suef University, Egypt

Abstract

International standards in combating the transmission of infectious diseases through central sterilizers and periodic examination of systems inside the hospital, in order to reduce the burden on the citizen in thinking about what he will suffer while receiving treatment in a government hospital. The most important challenges and problems faced by the medical sector in Egypt are represented in the inadequacy of the health insurance system and its lack of comprehensiveness, with a noticeable disparity in health service indicators in different regions and between the different strata of society, in addition to the lack of a complete database for managing medical services in general, and the lack of use. The financial and human resources are well available, in addition to the poor distribution of doctors and health services to the different governorates, so that some specialties such as specialized surgeries, intensive care and anesthesia are completely absent in the border areas, with the scarcity of available financial resources and their mismanagement in some cases whenever they go away from the capital.

There are also some other human factors affecting the health sector, such as the low rate of health awareness among the citizen and the spread of some harmful and wrong behaviors among the people, in addition to the citizen bearing the largest financial burden for the medical service with its high prices as a result of the citizen's weak confidence in the free government medical services, as well as the low wages of workers in the field of providing medical services and the severe inability to prepare nursing in all parts of the republic, with a severe weakness in the quality control systems in hospitals and health directorates.



Evelyn Boadu
ERCICRLSH2203062

The Way Forward for the Control of Stroke and Other Health Related Problems in Ghana

Evelyn Boadu

Greenfield Scientific Herbal Clinic, Ghana

Abstract

Stroke and other non-communicable diseases are important emerging public health concerns in sub-Saharan Africa where stroke-related mortality and morbidity are higher compared to other parts of the world. Despite the availability of evidence-based acute stroke interventions globally, uptake in low-middle income countries (LMIC) such as Ghana is uncertain. This study aimed to identify and evaluate available acute stroke services in Ghana and the extent to which these services align with global best practice.

Methods

A multi-site, hospital-based survey was conducted in 11 major referral hospitals (regional and tertiary-teaching hospitals) in Ghana from November 2015 to April 2016. Respondents included neurologists, physician specialists and medical officers (general physicians). A pre-tested, structured questionnaire was used to gather data on available hospital-based acute stroke services in the study sites, using the World Stroke Organization Global Stroke Services Guideline as a reference for global standards.

Results

Availability of evidence-based services for acute stroke care in the study hospitals were varied and limited. The results showed one tertiary-teaching hospital had a stroke unit. However, thrombolytic therapy (thrombolysis) using recombinant tissue plasminogen activator for acute ischemic stroke care was not available in any of the study hospitals. Aspirin therapy was administered in all the 11 study hospitals. Although eight study sites reported having a brain computed tomographic (CT) scan, only 7 (63.6%) were functional at the time of the study. Magnetic resonance imaging (MRI scan) services were also limited to only 4 (36.4%) hospitals (only functional in three). Acute stroke care by specialists, especially neurologists, was found in 36.4% (4) of the study hospitals whilst none of the study hospitals had an occupational or a speech pathologist to support in the provision of acute stroke care.

Conclusion

This study confirms previous reports of limited and variable provision of evidence-based stroke services and the low priority for stroke care in resource-poor settings. Health policy initiatives to enhance uptake of evidence-based acute stroke services is required to reduce stroke-related mortality and morbidity in countries such as Ghana.



Fayeem Aadil
ERCICRLSH2203069

Elucidation of Phenylalanine and Tyrosine Ammonium Lyase Activities among Viola Species from Kashmir Region

Fayeem Aadil

School of Biological Sciences, University of Kashmir, Srinagar, Jammu & Kashmir, India

Abstract

Viola species belongs to family Violaceae which has been recognized as an important medicinal plant due to its traditional therapeutic role in the treatment of respiratory disorders, laxative, cough, cancer, tumor and many other pathological conditions. In the present study, the comparative phytochemical parameters mostly phenylalanine ammonium lyase (PAL) and tyrosine ammonium lyase (TAL) activity was assessed, within different Viola species with almost same altitude which are known to be stimulated under stress conditions as these are important in plant defense and are key enzymes for the biosynthesis of phenyl-propanoid products. The results revealed a significant amount of variation in terms of phytochemical activities among different Viola species across Kashmir Valley. The variation can be attributed to the difference in the agro-climatic zones inhabited by Viola odorata L., V. biflora L., V. indica W.,

and v. Canescens w. In conclusion, in case of viola odorata minimum pal & tal activities was recorded the maximum phytochemical and morphological activity was observed in the samples of viola canescens collected from wangan conservation reserve (wcr) at naranag wildlife area of ganderbal district, in j&k. Moreover, highest pal & tal activities within viola species was recorded in descending orders as, viola canescens, viola odorata, viola indica and viola biflora.

Keywords: Phytochemical, Pal, Tal, Kashmir, Viola, Climate.



Umer Hameed Shansaz
ERCICRLSH2203070

Diet Ecology of Two Sympatric Species of Pheasants in and Around Dachigam National Park, Kashmir Himalaya, India

Umer Hameed Shansaz

Postgraduate Department of Zoology, School of Biological Sciences, University of Kashmir, Srinagar, India

Abstract

Diet of two pheasant species, Himalayan monal Lophophorus impedance and koklass pucrasia macrolopha was analyzed by faecal analysis during different seasons in and around dachigam national park, Kashmir, India. In all the seasons, both the pheasants preferred herbaceous diet followed by shrubs and grasses. Unidentified matter made most of the dietary part of both pheasants. An insect wing like structures was also obtained in spring from himalayan monal faecal matter indicating preference for invertebrates. No attempt was made to identify the wing structure as the task requires separate study. We performed anova and t tests to know differences in diets consumed during different seasons. Significant difference was observed between diets of both the pheasants during summer ($t=2.22$, $p<0.05$) and autumn ($t=2.24$, $p<0.05$), indicating their preference to same diets during both these seasons. No significant difference was observed by both the pheasant species during all the seasons, himalayan monal ($f=0.32$, $df=3,107$, $p>0.05$) and koklass ($f=0.50$, $df=3,107$, $p>0.05$). *Fragaria sp.*, *rumex sp.*, *aconogonum molle*, *viola sp.*, *chenopodium sp.*, *potentilla sp.*, *artemisia sp.* and *malva sp.* were commonly observed in the diets of both the pheasants. Painka's index confirmed the maximum dietary overlap in winter (0.95) and minimum in summer (0.42) for herb category.



Selliah Joniton
ERCICRLSH2203085

Effect of Selected Yoga Practices on Mental Health Among Mothers in The Third Trimester of Pregnancy

Selliah Joniton

Sport Sciences and Physical Education, Faculty of Applied Sciences, Sabaragamuwa University, Sri Lanka

Abstract

Yoga is a spiritual and ascetic discipline, a component of which is commonly practiced for health and relaxation and includes breath control, basic meditation, and the adoption of precise body postures. Excessive stress, anxiety and depression during pregnancy may cause mental disorders in pregnant women and may inhibit fetus growth also pregnant mothers suffer from fear of childbirth. This study included 180 pregnant women registered at the medical officer of health (moh) office at dehiowita from which thirty ($n=30$) pregnant mothers aged 19–35 years, in the third trimester of pregnancy from week 27 to the end of the pregnancy, were selected for this study under the purposive sampling method. Under the guidance of yoga experts, the researcher provided eight weeks of yoga instructions and yoga practices to the experimental group, three days a week, each session for a duration of 50 min. A post-test was conducted after eight weeks of the yoga training program. Depression, anxiety, and stress scale dass-21 were used to collect the data. Data were analyzed using Wilcoxon's test. The results showed that there was a significant difference ($p=0.000$) in stress levels, anxiety levels and depression levels before and after intervention in the selected sample. The mean values of stress, anxiety and depression were recorded as 23.73 and 14.93, 14.86 and 7.93 and 14.96 and 7.44, before and after treatment respectively. It can be concluded that a reduction in stress, anxiety, and depression levels among pregnant women in their third trimester can be achieved as a result of yoga activities since the pre-test and post-test results of this study show a significant difference.

Keywords: Stress, Anxiety, Depression, Pregnant Women, Yoga Practices

Samuel Adesida
ERCICRLSH2203086

Experimental Analysis and Systematic Review of the Carcinogenic and Non-Carcinogenic Risk of Consuming Metal-Laden Wild Mushrooms in Nigeria

Samuel Adesida
Faculty of Sciences, University of Ibadan, Ibadan, Nigeria

Abstract

Mushrooms are undeniably rich in nutritive and therapeutic compounds; nevertheless, they are excellent bio-accumulators of hazardous substances in contaminated conditions. This study aims at investigating the potential human health risk associated with the consumption of metal-laden mushrooms in Nigeria. The concentrations of PB, CD, CR, CU, NI, ZN and Al in six wild mushrooms collected from the Nigerian environment were determined using experimental analysis (aas). Also, systematic analysis of 21 published articles on metal accumulation in mushrooms from Nigeria were obtained from scientific databases. The determined metals were analyzed for their potential to induce carcinogenic and non-carcinogenic health risk in humans when consumed using hazard model indices. Zn and Cd, respectively, had the highest and lowest mean concentrations (mg/kg) in the analyzed mushrooms while Fe and Co, respectively, had the highest and lowest mean concentrations (mg/kg) in the data from the 21 reviewed articles. The estimated daily intake of the metals in the mushrooms were all within the PTDI limit set by JECFA and WHO. The target hazard quotient of all the heavy metals in the experimentally analyzed mushrooms were <1 while only Cd, Cr and Co exceeded the safe limit in the systematic analysis. The hazard indices obtained from both the systematic and experimental analyses were all >1, indicating significant health risk. The findings from systematic and experimental analyses revealed that consuming metal-laden mushrooms increases the carcinogenic risk of Cd, Cr, and Ni which exceeded the acceptable limit of 1e-04 according to USEPA. Based on the alignment in the findings from the systematic and experimental analyses, it suggests that consuming mushrooms collected from metal-polluted substrates increases the carcinogenic and non-carcinogenic health risk of mushroom consumers in Nigeria.

Keywords: Health Risk Assessment, Metal Pollution, Mushrooms, Nigeria, Systematic Review Analysis



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Ciprova I.
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Antimicrobial Effects of Whey Permeate-Derived Animal Feed Acidifier

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Abstract

Antimicrobial resistance is a major global issue, increasing due to the excessive use of antibiotics thus threatening the life of both – animals and humans. Antimicrobial compounds, produced by food-grade bacteria present an alternative to antibiotics, and are an effective way of food and feed preservation. Dairy propionibacteria are microorganisms that have Qualified Presumption of Safety (QPS) status. By releasing metabolites with antimicrobial activity, e.g., organic acids, diacetyl, acetoin, and bacteriocins, they can contribute to the maintenance of the microbiological quality of the animal feed. In this study, we tested the antimicrobial effects of a product obtained from fermented whey permeate and suitable as an additive for animal feed acidification. Acidification is a preventive method that helps to reduce the frequency of young animal diarrhea to keep the incidence of serious illness to a minimum, reducing the need for antibiotics. Utilization of whey-derived raw material in the production of animal feed additives also would improve the recycling of dairy industry by-products. Fermentation of whey permeate was performed under laboratory pilot-scale conditions at the Faculty of Food Technology of the Latvia University of Life Sciences and Technologies. We were using propionibacteria cultures (DSM 20273, 20535, 16859, and 4902), as well as nutrients and other additives to assure the necessary qualities of the product. Results demonstrated that the product has a strong antimicrobial effect against tested pathogen species – *Pseudomonas aeruginosa*, *Escherichia coli*, *Klebsiella pneumoniae*, and *Staphylococcus aureus* (representatives from multi-drug resistant bacteria group – ESKAPE list microorganisms), as well as

Bacillus subtilis that can be used as an indicator species. Natural and diluted (0.8, 1.6, 3.1, 6.3, 12.5, 25.0, and 50.0 %) forms of the product completely inhibited the above-mentioned microorganism species. (Also, its influence on lactic acid bacteria, as well as its efficacy after different temperature treatments was studied. It is planned to supplement the abstract by the conference.)

Keywords: Antimicrobials, Animal, Biopreservation, Fermentate, Acidification, Propionic Acid Bacteria

LISTENERS

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