



***EURASIA RESEARCH  
CONFERENCE PROCEEDINGS***

***HBSRA International Conference, March, 2022***

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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.

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#### Salient Features:

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## HBSRA COMMITTEE MEMBERS

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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

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**Conference Schedule**

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

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

1.	Dr. Babasaheb Manik More Professor in Engineering Physics, Dean, Research and Development Cell, Brahmdevdada Mane, Institute of Technology, Solapur, M.S. India	Variation in Gravitational Pull: New Technique for Aquifers Mapping
2.	Dr. Reeti Debnath PGDHHM, M.Phil., Ph.D., School of Health Sciences, NSHM Knowledge Campus, affiliated to Maulana Abul Kalam Azad University of Technology, India	Mental Health in Pandemics: Implications of COVID-19 in an Indian Perspective
3.	Dr. Yoshiko Yamaguchi Home Care Nursing, Faculty of Nursing, Kwassui Women's University, Japan	Nurse Retention (E.G., Nurse Turnover, Nurses' Intention to Leave), Nurses' Stress (Work Stress, Family Related Stress, Stress Outcome), Employee's Work-Family Interface (Work-Family Conflict, Work-Family Enrichment)
4.	Associate Professor Shahryar Sorooshian School of Business, Economics and Law, University of Gothenburg, Sweden	Science and Technology Performance
5.	Diena Noviarini Ministry of Research and Technology, Ministry of Education and Cultural, Indonesia	The Empowerment of New Banten Island Made of Amounting Lava from the Underwater Mountain
6.	Dr Agnieszka Itendo-Milewska Ph.D., Head of Department of Psychology, Private University, Bialystok, Poland	What COVID-19 Revealed about Significant Personal Experience – and 4 Ways to Rethink Mental Health Problems

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

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

7.	Seema Vinayak Department of Psychology, Panjab University, Chandigarh, India ERICISTR2236057	Role of Cognitive-Social Moderators, Quality of Life and fear of COVID-19 in Essential Service Providers (ESPs).
8.	Ahmed Muthanna Shibel Department of Computer and Communication Systems Engineering, Faculty of Engineering, University Putra Malaysia, (UPM), Malaysia ERICRLSH2236055	Deep Learning Detection of Biometric Presentation Attack
9.	Bhanupriya Periaswamy Research Scholar, Electronics and Communication Engineering department, SRMIST, Chennai, Tamil Nadu, India ERICISTR2202053	A Novel Deep Learning Model-Based Vehicle Data Offloading and Optimal Resource Allocation for Vehicular Networks with Blockchain Technology

10.	Darshan Mahajan Business School / National Institute of Construction Management and Research, Pune, National Institute of Construction Management and Research, Pune, India ERCICSTR2202055	Dynamic Group Allocation Framework for IRCTC
11.	Sara Bennett High School Student, Singapore American School, Singapore ERCICRLSH2202054	Listener
12.	Chiao Hsu Tsai Department of Public Health, China Medical University, Taichung, Taiwan ERCICRLSH2202059	Online Listener
13.	Xiaoxiang Zhou Faculty of Biomedical Engineering, Southeast University, Nanjing, China ERCICRLSH2202060	A Rapid and Label-Free Platform for Virus Enrichment Based on Electrostatic Microfluidics
14.	Derek Huell Student of College of Sciences, Georgia Institute of Technology, Atlanta, United States ERCICRLSH2202061	Listener
15.	Noa Klein Noa Klein- Psychological, Binyamina, Israel ERCICRLSH2236063	Listener

**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 participants 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/mar-25-2022/6-30am>
6. You can attend the live session on 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 25 March 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.

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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:  
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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. Agnieszka Ilendo-Milewska**

Ph.D., Head of Department of Psychology, Private University,  
Białystok, Poland

**Topic: What COVID-19 Revealed about Significant Personal Experience – and 4 Ways to Rethink Mental Health Problems**

Ph.D. Agnieszka Ilendo-Milewska is a psychologist, certified coach, and career counsellor. She is a university professor and head of the Faculty of Psychology at the Private University of Pedagogy in Białystok, Poland. She is the head person and founder of the Private Primary School in Białystok and the head person of the Private Preschool in Białystok. She is also an expert at the Ministry of National Education in Warsaw. Her major research interests include self-regulation, dysfunctional behaviour, and social relation. Her scientist's project is concentrating on 'Self-regulation among middle school students and 'Emotions and relationships between groups'. She is also an Editorial Board Member of Social Science and Humanities Research Association (SSHRA), Journal Humanities and Social Sciences (HSS), PEOPLE Journal: International Journal of Social Sciences and International Journal of English Literature and Social Sciences (IJELS). She acts as an Honorary Peer Reviewer for Global Association of Research USA. She has published widely in Polish and English. She has authored several books: 'School environment in the students' experiences, tendencies of changes' (2016) and 'Dysfunction among middle school students' (2009). She awarded the Medal of the Commission of National Education in Poland for exceptional services to education and upbringing (2017), Medal Diligentiae for urgency and good posture, granted by the President of the City of Białystok (2018), Award of the Ministry of National Education for outstanding achievements in didactic and educational work (2019).

## **KEYNOTE SPEAKER**



### **Dr. Reeti Debnath**

PGDHMM, M.Phil., Ph.D., School of Health Sciences, NSHM,  
Knowledge Campus, Maulana Abul Kalam Azad University of  
Technology, India

**Topic: Mental Health in Pandemics: Implications of COVID-19 in an  
Indian Perspective**

Dr. Reeti Debnath is Program Coordinator (Public Health) at School of Health Sciences, NSHM, Knowledge Campus, affiliated to Maulana Abul Kalam Azad University of Technology, India. Dr. Reeti has graduated from University of Calcutta with a Honours in Chemistry, she has obtained Post Graduate Diploma in Health Care & Hospital Administration, from Indian Institute of Social Welfare & Business Administration, India. Later, she completed her Master in Philosophy and Doctoral Degree (Specialization in Healthcare Quality). As an avid researcher, she has published numerous articles in reputed national and international journals and edited books. She has been invited as a Guest Speaker in live Webinars, Television career shows and presented papers at various national and international conferences held in India and abroad. She has been invited by reputed institutes like TISS Mumbai, Indian Public Health Association (IPHA), Army Institute of Management, Mizoram University etc. for taking special lectures in their various Post Graduate Programs. Dr. Reeti Debnath is the Foreign Research Advisor for guiding PhD students at Kazakhstan Medical University and University Exam Setter at Maulana Abul Kalam Azad University of Technology (MAKAUT), India. Her research interests include Disease Epidemiology & Public Health, Maternal & Child Health, and Quality in Healthcare. She is an active member of different organizations like the Indian Science Congress Association (ISCA), the Indian Public Health Association (IPHA), and the International Association for Promotion of Healthcare and Life-Science Research (IAPHLRSR).

## PRESENTERS

(Applicants & Participants)

<p><b>Xiaoxiang Zhou</b> ERCICRLSH2202060</p>	<p style="text-align: center;"><b>A Rapid and Label-Free Platform for Virus Enrichment Based on Electrostatic Microfluidics</b></p> <p style="text-align: center;"><b>Xiaoxiang Zhou</b> Faculty of Biomedical Engineering, Southeast university, Nanjing, China</p> <p style="text-align: center;"><b>Abstract</b></p> <p>Virus surveillance and discovery are crucial for virus prediction and outbreak preparedness. Virus samples are frequently bulky and complicated so that effective virus detection remain challenging. Herein, we develop an 3D electrostatic microfluidic platform to rapidly and label-free enrich viruses from bulky samples at low concentrations. The platform consists of double microchannels for streamlining large volume processing and electrodes for enriching viruses by electrostatic interaction. The trajectories of simulation show that particle is successfully enriched under different forces of electrostatic field and different sample flow rates. We demonstrate that the electrostatic microfluidic platform can increase the limit of detection in 100-fold higher based on real-time PCR quantified analysis. Our design thus provides a simple, rapid, label-free and high-throughput viruses concentration platform and would thus have significant utility for various viral detection.</p>
<p><b>Md. Rahidul Islam</b> ERCICRLSH2202052</p>	<p style="text-align: center;"><b>Physical Activity and Diabetes Mellitus: A Review Article</b></p> <p style="text-align: center;"><b>Md. Rahidul Islam</b> Community Medicine Department, Dhaka Central International Medical College, Dhaka, Bangladesh</p> <p style="text-align: center;"><b>Abstract</b></p> <p>Physical activity is effective for glycemic control and reduces the risk of Diabetes. Regular physical activities control body weight and obesity and reduce insulin resistance and increase insulin sensitivity. Physical activity includes different types of activities such as walking, running, swimming, and other activities where physical movements are involved. Among all physical activities walking is the best for all ages/ groups of people. Diabetes increases the risk of different types of morbidities such as hypertension, cardiovascular diseases, kidney diseases, dyslipidemia, cerebrovascular diseases, eye problems, and many others. As physical activities decrease the risk of Diabetes, it decreases the other morbidities. So, it's very much essential for every person in society to reduce the morbidity and mortality rate.</p>
 <p><b>Aleksandra Drozd-Rzoska</b> ERCICRLSH2202053</p>	<p style="text-align: center;"><b>Supercriticality in Linseed Oil as Revealed in Dielectric Spectroscopy Studies</b></p> <p style="text-align: center;"><b>Aleksandra Drozd-Rzoska</b> Institute of High-Pressure Physics, Polish Academy of Science, Warsaw, Poland</p> <p style="text-align: center;"><b>Abstract</b></p> <p>Linseed oil is well known for its pro-health properties, leading to its application in food, cosmetic, and even medical products. Its properties are linked to the unique set of its constituents. This report shows that yet another, physical, factor can be important - the impact of hidden supercritical. Thus, the phenomenon is coupled to the continuous ('critical') or weakly discontinuous phase transition and the appearance of multimolecular fluctuations, which size and lifetime increase to infinity on cooling towards the critical point. This causes the unusual ability to feedback interactions with 'external agents'. In fact, the supercritical technology based on the gas-liquid critical point (mainly in CO<sub>2</sub>), is one of the most important 'green technologies', enabling for instance the selective removal of the non-desired component. This report presents the evidence for the liquid-liquid criticality in linseed oil at T ~ 240 K, with the 'supercritical impact' extending well above the room temperature. This poses the question of the influence of linseed oil supercritical on its properties. It also offers a hypothetical possibility of the significant increase of this impact via an exogenic-agent controlled shift of the liquid-liquid critical point. The supplementary high-pressure studies revealed that the impact of liquid-liquid critical points can be even stronger under compression. In the opinion of the author's results described in this report can offer a possibility of creating new functional features of linseed oil-based products.</p>

Ramilya Muradova  
ERCICRLSH2202062

Frequent Gynecological Aspects of Female Infertility in Kyrgyzstan

Ramilya Muradova

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Bishkek, Kyrgyzstan

Murzakhalova Luiza

Medical Faculty, Department of Obstetrics and Gynecology, Kyrgyz-Russian Slavic University,  
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Abstract

**Relevance:** The number and frequency of infertility among couples of childbearing ages in various countries of the world reaches more than 15%, according to WHO, which is a critical problem requiring urgent solutions. In the mechanism of development of infertility, the role of pathologies of the endometrium is undoubted and especially significant, because it is the adequate morpho functional state of the latter that is one of the main factors that ensure the successful implantation of a fertilized egg and the development of the embryo. According to a number of researchers, more than half of the patients included in assisted reproductive technologies (ART) programs have endometrial pathologies. **Purpose of research:** Evaluation of the state of the endometrium according to ultrasound, hysteroscopy in women with primary / secondary infertility, as well as verification using additional histopathological examination, followed by determination of the most informative method for diagnosing pathological endometrium, to improve the effectiveness of ART. **Materials and methods of research:** The main materials for the study were the case histories of 200 patients aged 20 to 47 years (mean age -33 years-old women), based on the clinic of Professor Asymbekova, Bishkek, Kyrgyzstan. Their retrospective analysis was carried out. At the first stage, two hundred patients, and this is 100% of the sample, were assigned an ultrasound examination of the small pelvis on the VolusonE6 device, using a multi-frequency vaginal sensor, with a frequency of 3.7-9.3 MHz on the 22nd day of the menstrual cycle, which corresponds to the period "windows of implantation". With the help of ultrasound, an assessment was made of the state of the endometrium, the norm of which is a value from 10 to 15 mm. Further, 181 patients (90.5% of the sample) underwent hysteroscopy, due to the method of minimally invasive examination of the uterine cavity, using a hysteroscope, for further diagnostic and surgical manipulations. At the next stage of the diagnostic study, manual vacuum aspiration (MVA) was mandatory for the above 90.5% of patients, followed by a histological examination of the material obtained from the uterine cavity, to verify the presence or absence of endometrial pathologies. **Results of research:** The data of the case histories of the patients were processed in the SPSS 16.0 program, obtaining the following results: Using ultrasound was possible to identify the normal state of the endometrium in 15 patients in 7.5% of cases, polyps were detected in 56 patients (28%), endometrial hyperplasia was observed in 60 patients, which accounted for 30% of cases, hypoplasia was observed in 4 patients - 2 % of cases. There were also cases with uterine myoma in 11 patients (5.5%), with adenomyosis in 27% of cases, in 54 patients. Researching using a hysteroscope, showed the following results: 19 patients (9.5%) did not undergo hysteroscopy. 42 patients (21%) were diagnosed with "primary" infertility, while "secondary" infertility was observed in 48 patients (24%). 33 patients (16.5%) made up the cohort of patients with endometrial polyps, and 38 patients (19%) were confirmed endometrial hyperplasia. The rest of the sample consisted of 2 patients of the postmenopausal period -1%, as well as 18 patients with prolapse of the pelvic organs -9%. The MVA procedure was performed in 181 patients, 19 patients (9.5%) refused the procedure. In 76 patients (38%), endometrial polyps were detected, 47%, in the face of 94 patients with endometrial hyperplasia, while hypoplasia was assessed only in 4.5% of the total sample in 9 patients. The remaining 2 patients accounted for 1% of postmenopausal patients. After taking aspartate, to establish the diagnosis, a histological examination of the obtained material was performed. The presence of polyps was confirmed in 63 patients (31.5%), in 81 patients (40.5%), endometrial hyperplasia was also confirmed, in 37 patients (18.5%) the endometrium was enlarged in the secretion phase. 9.5% of patients, namely 19 patients, were not presented for histological research. As a result, 62.5% of patients received the results of ultrasound and histological examination. However, in some of the 15 patients (7.5%), the endometrium was in a normal state on ultrasound, after a histological examination, pathological conditions were detected, an increased percentage of diseases. **Conclusions:** Summing up the results of the studies, after analyzing the results of a retrospective analysis, we can conclude that infertility is a multifaceted, polyetiological disease, one of the obvious risk factors of which is endometrial pathology, which patients do not always pay attention to. Only after a thorough history taking, determination of the etiology of the

disease, a phased diagnosis and further treatment of the disease is possible. After analyzing the results of research, it was found that not in all cases of exclusively ultrasound examination it is possible to identify pathologies of the endometrium. The inclusion of hysteroscopic, histological examination of the endometrium and MVA in the examination of patients with infertility in ART programs allows timely diagnosis and, in some cases, elimination of intrauterine pathology, which makes it possible to improve the condition of the endometrium and increase the effectiveness of overcoming female infertility.

Ramyani  
Bhattacharjee  
ERCICRLSH2235057

**Gender Role in Intimate Partner Violence in Young Adults and its Influence on Development of Future Relationships**

Ramyani Bhattacharjee  
MSc Clinical Psychology, Christ University, Bangalore, India

**Abstract**

Intimate Partner Violence has become one of the most relevant concerns in the dynamics of romantic relationships in young adults. Research suggests that even though it is prevalent in male and female genders, the experiences are different for both the groups. The objective of this study was to explore the experience of Intimate Partner Violence from the lens of young male and female survivors and to understand its influence on development of future relationships. Participants were survivors of IPV within the age of 18-25. A thematic analysis identified overarching themes for both the groups highlighting their experience: Reality alteration, controlling behavior, Tolerating abuse, Influence on personal characteristics, and Defense behaviors in future relationships. Future research can be conducted to delve deeper into the gender dynamics of Intimate Partner Violence and on constructing effective rehabilitation plans for the survivors of Intimate Partner Violence.



Ahmed Muthanna  
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ERCICRLSH2236055

**Deep Learning Detection of Biometric Presentation Attack**

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**Abstract**

The face recognition systems are increasingly important in today's society, being mainly employed as a security measure also every item, such as mobile phones and laptops, or more crucial security systems, such as the airport access control, which are examples of face recognition usages. The repetition of facial recognition system spoofing attacks has become a major source of worry within the biometric community. The spoofing attacks happens when someone trying to cheat the biometric system by present photo, 3-dimensional mask, or replay video for another person. The video attacks are the most frequent, cheapest, and simplest spoofing techniques to cheat face recognition systems. It occurs when someone attempts to impersonate another by producing a false biometric characteristic (replay video) of the user and presenting it to the sensor, thus impersonating the actual user. This research paper focuses on face liveness detection on video attacks, with the goal of determining if the provided characteristic came from a genuine legitimate client or not, by extracting frames from the videos and analyzing them by using a deep learning algorithm. As a result, we found the optimal number of frames after experiment and analysis is three frames which gave us the highest accuracy 96.93 % in less time of processing for face liveness detection. The database Replay-attack was utilized in this research.

**Keywords:** Biometric, Deep Learning, Presentation Attack, Face Liveness Detection, Video Attacks

Jacqueline Campbell  
ERCICRLSH2236053

Online Mood Mentoring as an Early Intervention strategy on Young People's Mental Health

Jacqueline Campbell  
Department of Public Health, Teeside University, Middlesborough, United Kingdom

Abstract

**Aim:** The impact of online mood mentoring on the resilience and mental health of school students. **Introduction:** It is well known that the symptoms of stress, anxiety and depression, formerly illnesses suffered in old age, are now commonly observed in children and young people. Furthermore, due to the Covid 19 Pandemic, young people are now exposed to a greater number of environmental, social and political risk factors than ever, that can negatively impact their mental health, which, if not addressed, can be taken into their adulthood life. As Covid-19 has brought on greater use of digital technologies to continue teaching and learning, greater use of emotional intelligence (EQ) strategies rather than, IQ fosters not only improved academic achievement, but improved mental health management, emotional intelligence and resilience, as the way forward guaranteeing future success of our children. Although there is a growing need for universal interventions in schools, government funding in the UK does not seem to reach schools for children who are most at risk and in need of support. Studies show how prompt intervention online, can prevent mental health difficulties developing later in life. **Methods:** This research pilot uses the grounded theory approach to analyse the impact of a digital mood mentoring program on a group of 10 students aged from 12 to 16 years old in one London secondary school over the period of one term, January to April 2021, using pre and post interviews from their parents and teachers to measure the impact of providing early intervention on young peoples' mood, mental health, and satisfaction. **Results:** Results obtained from this investigation indicated a significant impact on the mood and wellbeing of the sample being mentored with these improvements seen by parents, teachers, and the young people participating in this study. **Conclusion:** Early intervention online is as impactful as face-to-face intervention through mood mentoring and is beneficial to help young people develop their emotional intelligence and strategies to manage current difficulties that may challenge their mental health as a result of the Covid-19 Pandemic guaranteeing better quality of life, happiness and success for our children. **Discussion points:** Mood mentoring, online mental health intervention, developing resilience, confidence in mood mentoring, emotional intelligence  
**Keywords:** Moods, Early Intervention, Mental Health, Depression, Stress, Anxiety, Mood Management

**LISTENERS**

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