



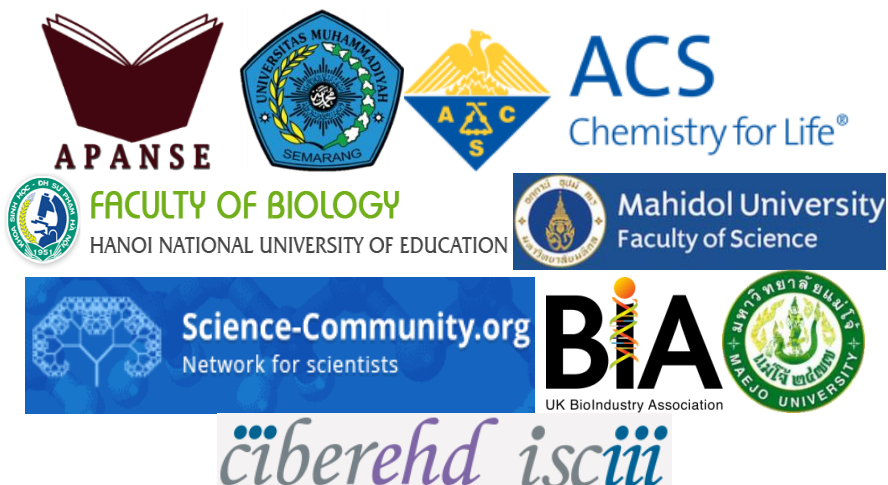
**International Conference on
Advances in Biological Science and Technology
ICABST2022**

**International Workshop on
Pharmaceutical and Clinical Research
WPCR2022**

Conference Program & Abstract Book

Online Video Conference

November 28th - 30th, 2022



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1. Welcome Message

Welcome message from Conference Chair

Dear Colleagues, welcome!

On behalf of the Organizing Committee, it's my privilege and pleasure to welcome you to 2022 International Conference on Advances in Biological Science and Technology. Based on the successfully held of ICABST2021 - - 2022 conference was planned to will be held during November 28-30 as an online video conference.

This conference is a series of academic conferences co-organised by actors and institutes. The initiator and primary organiser of this conference is the Asia-Pacific Association of Natural Science & Engineering (APANSE), whose professional approach was essential in putting together this event. Hereby I would like to thank all the scientific committee & review committee members. Their efforts are highly appreciated, as well as the academic partners from all around the world that worked together to organise this scientific event.

As an annual gathering, it provides an extensive platform for scientists, researchers and scholars to present their research results and newest findings in all fields of Biological Science and Technology, especially in Biotechnology and Bioengineering, Biomedical Engineering, Clinical Medicine, Biopharmaceuticals and Pharmacology, Animal and Plant Sciences and other related topics, discuss the practical challenges encountered recommend better solutions for biotechnology and biomedicine.

At last, I would like to thank you for all of you to join us at the ICABST2022 and I wish all of you a fruitful and exciting conference.

Prof. Domenico Lombardo

Conference Chair

International Organizing Committee of ICABST2022

CNR-Consiglio Nazionale delle Ricerche, IPCF- Istituto Processi Chimico-Fisici, Italy

Welcome message from WPCR Organizing Committee

Dear distinguished Delegates and Participants, Ladies and Gentlemen,

On behalf of the Organizing Committee it is my great pleasure and honour to welcome you at the 2022 International Workshop on Pharmaceutical and Clinical Research. WPCR2022 is a continuation of WPCR series, which is held simultaneously with ICABST 2022.

WPCR2022 focuses on the basic concept, scientific research design, production technology and clinical application in the field of pharmacy, emphasizing the popularization and improvement of pharmaceutical science and technology; while focusing on the comprehensive, basic and practical scientific and technological achievements and advanced experience, and providing a professional platform for researchers and practitioners at home and abroad to promote information exchange and communication in related fields.

There is no doubt that over the past few years Biotechnology and Biomedicine have been amongst the most dynamically developing areas of biology. Both of these disciplines provide new techniques, tools and products, which can be applied in such prominent fields as biomedicine, Pharmaceutical & Clinical Research and health care, and of course, in scientific research. In order to address these needs, this Conference provides an excellent occasion to discuss new ideas, share knowledge and experience, exchange opinions, considerations, as well as doubts within the constantly expanding areas of Biotechnology and Biomedicine.

Bearing this in mind, I wish you all fruitful discussions, resulting in new international co-operations and friendships.

With kind regards,

Dr. Julia Sidorova

CS faculty, Blekinge Institute of Technology, Sweden

WPCR2022 Organizing Committee

2. Introduction for Organizer/Co-organizer

Asia-Pacific Association of Natural Science & Engineering

Asia-Pacific Association of Natural Science & Engineering (APANSE) is a non-profit, non-governmental, international academic organization to promote and communicate research advances and achievements in Natural Science and Engineering by providing fast and high quality services for researchers from all kinds of universities, research centers, academic institutes, and other research societies. APANSE brings together science and technology educators, researchers, and professionals to inspire dialogue, share resources, and address the field's challenges. With holding and collaborating with conferences and workshops, APANSE promotes research communications and other academic activities focusing on Applied Science, Engineering, Physical Science, Life Science and Health Science. Meanwhile, APANSE owns scientific journals aiming to provide vehicles to publish original, high quality and unpublished contributions in these areas.

The aim of APANSE is to promote the development and practice of the natural science and technology profession, to advance international co-operation in the field of interest to research, development, and the application in science and human activity, and to further the dissemination and exchange of information on applied science and technology. For potential collaborations to organize a conference please contact at info@apanse.com.

Universitas Muhammadiyah Semarang

Universitas Muhammadiyah Semarang is a private university in Semarang , Central Java , Indonesia . At its inception, Universitas Muhammadiyah Semarang (UNIMUS) was the Health College of Muhammadiyah Semarang (PTKMS) which was established in 1982, consisting of 3 academies, namely: Nursing Academy, Nutrition Academy and Health Analyst Academy. With the aim of developing Muhammadiyah Charities, the establishment of the Muhammadiyah University of Semarang was initiated.

The establishment of the Muhammadiyah University in Semarang was initiated by the Regional Leadership of Muhammadiyah Central Java since 1996. This process was followed up by the formation of the Founding Committee of the Muhammadiyah University of Semarang based on the Decree of the Regional Leadership of Muhammadiyah Central Java Number: SK.PW/III.B/9.6/001/1997. With preparation through intensive meetings, resulted in an agreement on the establishment of Higher Education in the form of a University . On August 4, 1999 the Minister of Education and Culture of the Republic of Indonesia issued the Operational Permit of the University of Muhammadiyah Semarang with Number: 139/D/O/1999.

Academic Year 2006/2007 UNIMUS opened a new study program, namely Midwifery DIII Study Program with Operational Permit number: 2294/D/T/2006 dated 28 June 2006. In the 2008/2009 academic year a new study program was opened, namely S1 Accounting, SK Dikti Number: 2092/D/T/2008 dated July 7, 2008, S1 Doctoral Education SK. Dikti Number: 2940/D/T/2008 dated September 4, 2008, NERS Professional Study Program SK. Dikti number 267/D/O/2008 dated December 31, 2008, S1 Mathematics Education SK. Dikti number: 1040/D/T/2009 dated June 25, 2009, S1 English Education Sk. Dikti number: 1271/D/T/2009, DIV Health Analyst SK. Dikti number: 1941/D/T/2009 and S1 Nutrition Science Sk. Dikti number: 218/D/O/2010, In 2013 UNIMUS again won the trust of the government / ministry of Education and Culture by being granted an Operational Permit for the Chemical Education S1 Study Program Number 209/E/O/2012 dated June 5, 2012 and the Dentistry Study Program SK. Dikti Number: 129/EO/2013 dated April 18, 2013 so that in accordance with Law no. 12 of 2012 concerning Higher Education, the study program whose operational permit was decreased after August 10, 2012 has obtained a minimum accreditation, namely C, thus the Dentistry study program has received accreditation C. In addition, with the enactment of Law no. 20 of 2013 concerning Medical Education CHAPTER II article 7 paragraph (6) which states that "The Doctor's Profession Program and the Dentist Profession as referred to are an advanced program that cannot be separated from the undergraduate program.

So that up to 2014, the University of Muhammadiyah Semarang has 22 study programs consisting of 15 undergraduate programs , one diploma IV study program, four diploma III study programs and 2 professional study programs.

Maejo University

Maejo University (MJU) is one of the 26 state universities under the Commission on Higher Education of the Ministry of Education. Part of its glorious past was MJU's establishment in 1934 based on a major concept of HM The King, thus becoming one of the oldest degree-granting agricultural institutions in the country. Since then, it has rapidly progressed from being a teachers' training school to become one of the most prominent state universities in Thailand.

Today, as MJU continued to carve a niche in the country's educational system, it is prepared to face many challenges caused by many changes in the global world. As the new head of this reputable university, I foresee greater significance of its role as leader in agricultural excellence in the Asian region. Based on our culture and traditions, our graduates truly reflect the quality of education Maejo University continues to offer. They occupy important positions in various organizations especially those that relate and are based in agriculture. Most of them have become leaders of communities, spearheading rural and agricultural development that lead to nation building.

As it strives to fulfill this mission, Maejo University also hopes to provide enthusiasm to strengthen its international relations by striving to promote academic internationalization without sacrificing its distinct character.

Hanoi National University of Education

Founded in 1951, Hanoi National University of Education is a non-profit public higher-education institution located in the large metropolis of Hanoi (population range of over 5,000,000 inhabitants), Red River Delta. Officially recognized by the Ministry of Education and Training of Vietnam, Hanoi National University of Education (HNUE) is a medium-sized (uniRank enrollment range: 9,000-9,999 students) coeducational Vietnamese higher education institution. Hanoi National University of Education (HNUE) offers courses and programs leading to officially recognized higher education degrees such as bachelor degrees in several areas of study. See the uniRank degree levels and areas of study matrix below for further details. International students are welcome to apply for enrollment. HNUE also provides several academic and non-academic facilities and services to students including a library, housing, study abroad and exchange programs, as well as administrative services.

Mahidol University

Mahidol University has its origins in the establishment of Siriraj Hospital in 1888 by His Majesty King Chulalongkorn (Rama V), and the hospital's medical school is the oldest institution of higher learning in Thailand, granting its first medical degree in 1893. Later becoming the University of Medical Sciences in 1943, Mahidol University was renamed with great honor in 1969 by H.M. King Bhumibol Adulyadej, after his Royal Father, H.R.H Prince Mahidol of Songkla, who is widely known as the 'Father of Modern Medicine and Public Health in Thailand'. Mahidol University has since developed into one of the most prestigious universities in Thailand, internationally known and recognized for the high caliber of research and teaching by its faculty, and its outstanding achievements in teaching, research, international academic collaboration and professional services. This diversified institution now offers top quality programs in numerous social and cultural disciplines, including the most doctoral programs of any institution in Thailand, yet has maintained its traditional excellence in medicine and the sciences.

CIBEREHD

The CIBEREHD is a consortium with its own legal personality, with no physical contiguity, which aims to promote and cooperate in scientific research, development of knowledge and transferring this to society, in the area of liver and digestive diseases. The following bodies form part of the consortium: (1)The Ministry of the Economy and Competitiveness, through the Instituto de Salud Carlos III; (2)The Ministry of Education and Science, through the Consejo Superior de Investigaciones Científicas. The main purpose of the CIBER is the promotion and protection of health by fostering research in both the basic field and in the approach to clinical and translational aspects in the field of Liver and Digestive Diseases.

The following are specific purposes of the Consortium:

Research and development involving the CIBER research programme.

To contribute to the resolution of the problems of sanitary assistance related to the above mentioned program.

Promoting the participation of research groups in nationwide research activities and particularly the ones included in the European Framework Programmes of R+D+I.

Promoting the transfer of the results of research processes to society and in particular to the production sector.

Promoting dissemination and participation in teaching activities.

Media Partners



3. Committee Members

Conference Chair

Prof. Domenico Lombardo, CNR-Consiglio Nazionale delle Ricerche, IPCF- Istituto Processi Chimico-Fisici, Italy

Scientific Committee

Andrea Scribante, University of Pavia, Italy
Anna Ard évol, Universitat Rovira i Virgili, Spain
Ching-An Peng, University of Idaho, USA
Christophis Koroneos , University of Western Macedonia, Greece
Dinh-Toi Chu, University of Oslo, Norway
Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy
Farhad Memarzadeh, National Institutes of Health, USA
Gary Sweeney, York University, Canada
Gerrit Sch ürmann, Technical University Bergakademie Freiberg, Germany
Gohar Mushtaq, King Abdulaziz University, Saudi Arabia
Jason Guowei Sun, Asia-Pacific Association of Natural Science and Engineering, China
Khalid Rehman Hakeem, Universiti Putra, Malaysia
KIKUCHI Masumi, University of Tokyo, Japan
Muhammad Asad Ali, University of Veterinary and Animal Sciences, Pakistan
Nagendra Kumar Kaushik, Kwangwoon University, Korea
Pornpun Vivithanaporn, Mahidol University, Thailand
Suhaimi Suratman, Institute of Oceanography and Environment, Malaysia
Thi Thuy Pham, VNU-University of Science, Vietnam

Review Committee

Agn ès Drochon, National Center for Scientific Research, France
Ahmad Zahedi, James Cook University, Australia
Ahmed Saber Abu-zaiton, Al-albait University, Jordan
Alex Liu, Asia-Pacific Association of Natural Science and Engineering, China
AMAL AL-ABOUDI, University of Jordan, Jordan
Ayush Dogra, Panjab University, India
Ivaylo Christov, Institute of Biophysics and Biomedical Engineering, Bulgaria
Kesaven Bhubalan, Universiti Malaysia Terengganu, Malaysia
Le Nguyen Quoc Khanh, Nanyang Technological University, Singapore
Leyser Rodrigues Oliveira University Centre of Formiga, Brazil
Midhat Nabil Ahmad Salimi, Universiti Malaysia Perlis (UniMAP), Malaysia
Mohsen Hamzeh, Amirkabir University of Technology, Iran Pajaree Thongsanit, Naresuan University, Thailand
Palanisamy Sivanandy, International Medical University(IMU), Malaysia
Reshma Rani, Amity University, India
Roshni Paul, Birmingham City University, UK

Conference Secretariat

Jason Sun, Asia-Pacific Association of Science, Engineering and Technology, China
Alex Liu, Asia-Pacific Association of Science, Engineering and Technology, China

4. Conference Information

ICABST2022 Introduction

Based on the successfully held of ICABST2021 -- 2022 International Conference on Advances in Biological Science and Technology will be held during November 28-30 as an online video conference. ICABST2022 is organized by Asia-Pacific Association of Natural Science and Engineering (APANSE), co-organized by Hanoi National University of Education, Mahidol University, and supported by American Chemistry Society, IOP Science and other academic institutions & media partners.

As an annual gathering, it provides an extensive platform for scientists, researchers and scholars to present their research results and newest findings in all fields of Biological Science and Technology, especially in Biotechnology and Bioengineering, Biomedical Engineering, Clinical Medicine, Biopharmaceuticals and Pharmacology, Animal and Plant Sciences and other related topics, discuss the practical challenges encountered recommend better solutions for biotechnology and biomedicine. ICABST2022 will include keynote speeches, invited speeches, oral presentations and poster presentations. The conference certification will be issued to all attendees including listeners.

WPCR 2022 Introduction

WPCR2022 focuses on the basic concept, scientific research design, production technology and clinical application in the field of pharmacy, emphasizing the popularization and improvement of pharmaceutical science and technology; while focusing on the comprehensive, basic and practical scientific and technological achievements and advanced experience, and providing a professional platform for researchers and practitioners at home and abroad to promote information exchange and communication in related fields.

Topics include but not limited to

Industrial pharmacy, Biochemical pharmaceutical, Pharmaceutical preparations, Pharmacological toxicology;

Clinical application, Experimental and Clinical Pharmacology, Adverse reactions, Pharmacokinetics; Pharmacology, Pharmaceutical biology, Pharmaceutical analysis and control, Pharmaceutical and biomedical analysis;

Drug delivery, Pharmaceutical technology, Pharmaceutical chemistry, Pharmaceutical care;

Pharmaceutical services, Pharmacoeconomics, Pharmaceutical management;

Human anatomy, Embryology, Immunology, Pathology, Epidemiology, Toxicology

Pediatrics, geriatrics, Neurology, Oncology, Physical therapy, Nursing, Anesthesiology;

Imaging Medicine and Nuclear Medicine, Clinical Laboratory Diagnostics

Publications: All abstracts/full papers will be sent for peer review by two or more experts in related fields, and the decision will return in about 7-10/15-20 working days. Possible decisions on a manuscript are: acceptance, revision (minor or major), rejection. We firmly believe that ethical conduct is the most essential virtual of any academic. Hence any act of plagiarism is a totally unacceptable academic misconduct and cannot be tolerated.

Call for Proposals to co-organize ICABST 2023

ICABST/WPCR is pleased to announce this Call for Proposals for individuals or groups interested in co-organize the next ICABST conference, slated for the second quarter of 2023.

The proposal deadline is the April 15, 2023. If you are not personally interested but know of someone else who could do an excellent job of organizing this event, please feel free to forward this information.

Description of a Co-organizer:

1. Help to announce the conference information on institution email and social platform;
2. Provide academic support such as to create scientific program and/or recommend potential speakers; (optional)
3. Help to provide visa-support invitations to participants; (optional)
4. Circulate the conference information, advertise and promote the conference in scientific platform.

Benefits:

1. Have the opportunity to attend conference for free
2. To be one of the conference committee members/session chair (co-chair)
3. 1 page free Ad or a paper in conference proceedings

For related issues, please contact info@apanse.com

5. Conference Program

Presentation List

ID	Presenter	Title
	Domenico Lombardo	Welcome Message
1	Andrea Scribante	Current approaches to enamel remineralization: from fluoride to biomimetic technologies
2	Saima Naz	Establishment of Optimal Non-Pharmaceutical Clinical Information Management to Alleviate Spinal Stenosis
3	Seong-Ran Lee	Effects of Health Information System on Prevention of Psychological Degradation After Hysterectomy in Adult Women in Urban Areas
4	Seong-Ran Lee	Isolation of Lipase Producing Bacterium <i>Aeromonas veronii</i> LI.1 from Fish Waste using Solid Tween Media with Non-Bacto Agar
5	Bushra Jamil	Determination of colistin resistance by genotypic and phenotypic methods in <i>Acinetobacter Baumannii</i> isolated from NICU
6	Jiang Min	Generation of recombination monoclonal antibodies against CXCR4 from immunized rabbits via single B cell screening strategy
7	Chen Xihang	Cause analysis and prevention and treatment of sports ankle sprain in college students
8	Wang Yihao	A Robust Image Source Identification Method of Telemedicine Based on CNN
9	Ru Zhang	Fusing Multi-graph Structures for Visual Question Answering
10	Yang Zhen	Detecting Unknown type of faceswap deepfake images with enhanced mask learning
11	Dazhuang Liu	Mask based Continuous Frame Faceswap Video Generation for Deepfake Detection
12	Zhang Meili	Research on shortest path of medical communication network based on minimum spanning tree algorithm
13	Yue Yang	Research on design of medical protective clothing based on simulated annealing algorithm
14	Lihua Xia	The complete chloroplast genome of <i>Blidingia minima</i> , a kind of green macroalgae with medicinal value
15	Fan Rong	Anti-inflammatory Activity of <i>Tilia tuan</i>
16	Huang Cong	Research on the Innovation of New Professional Farmer training Mode of RPOR Mode
17	Cao Liru	Non-Pharmacological Management for Gestational Diabetes Mellitus
18	Shen Luyi	Risk factors for recurrence of GDM: a meta-analysis
19	Miao Liu	A summary of the Research on the Mechanism of Tuina Manipulation on Respiratory System
20	Tao Feng	A study on cognitive behavior and psychology of selective torsion in adolescents
21	Tianyi Cao	Research on Medical Quality Evaluation Model and Monitoring Management Mode under the Background of Big Data

ID	Presenter	Title
22	Yuanbin Wang	An Interesting Point Detector for Images under Geometric Affine Distortions
23	Yongfeng Wei	Automatic Detection of Ancient City Ruins Using STFI-RCNN and Remote Sensing Images
24	Caili Gong	Herbage Recognition Based on Knowledge Distillation
25	Yan Xia	Research on Data Enhancement Method of Image Segmentation Based on Convolutional Neural Network
26	Pengwei Guo	Research on Multimodal Image Fusion Method Based on Fully Convolutional Neural Network
27	Shun Yu	Research on Image Segmentation Algorithm Based on Machine Learning
28	Fanmei Zeng	The relationship between anemia and trace element content in infants aged 0-12 months in Heze and the effect of anemia on neuropsychological development
29	Lu Chen	Clinical effect of hemodialysis combined with hemodiafiltration on diabetic nephropathy
30	Hongxia Gao	Application observation of ribavirin in the treatment of patients with severe fever with thrombocytopenia syndrome
31	Jinsong Tang	Effects of bifidobacterium quadruplex viable tablets combined with enteral nutrition on gastrointestinal function and cognitive function in patients with severe stroke
32	Yonghua Lu	A case report of hypothyroidism complicated with myocardial zymogram elevation
33	Zhengyan Wang	The effect of chest physical therapy combined with electronic bronchoscopy lavage on patients with pneumonia
34	Zhuo Zhang	Efficacy of butylphthalein injection combined with dual antiplatelets in the treatment of acute cerebral infarction and its effect on neurological function and daily living ability
35	Jinhui Wang	A case of myocarditis, myositis, hepatitis and complete atrioventricular block caused by Navulizumab (an inhibitor of immune checkpoint)
36	Wanqiu Zhang	Effect of atorvastatin combined with bisoprolol on heart failure and chronic obstructive pulmonary disease and its influence on cardiopulmonary function
37	Zhiyan Yin	Effect of intravenous thrombolytic therapy combined with high-quality nursing on elderly patients with acute cerebral infarction
38	Zhilan Pan	Effect of TKI on quality of life in patients with chronic myelogenous leukemia
39	Yanmei Hou	The clinical significance of serum folic acid, vitamin B12 and ferritin in the second and third trimester of pregnancy for obstetrical eugenics
40	Lingyan ZhouXiaoLei Wang	Curative effect observation of Xuebijing on bladder tumor complicated with acute pyelonephritis and sepsis
41	Yifeng Dou	Study on heart disease prediction based on machine learning
42	Hua Yang	The Retinoid Derivant ECPIRM Regulates Th2 cytokine by Inhibiting NF-κB Signaling Pathway in Cutaneous T-Cell Lymphoma
43	Zhongtian Wang	Innovative Research on Application of Multimodal Image Fusion Navigation Robot Technology in Tumor Ablation
44	Guowei Shi	Study on Digital Twin Organ Mapping Prediction Method of Tumor Puncture Target Deviation Caused by patient respiration

ID	Presenter	Title
45	Ruyun Jing	Image Super-Resolution Using Deformable Convolution Group Fusion for Cancer Diagnosis
46	Xiao Chen	Adaptive Image Denoising Using Deep Convolutional Neural Network for Cardiovascular Disease Diagnosis
47	Limin Li	Automatic Detection and Classification of White Blood Cells by Improved Fuzzy Clustering Algorithm and Deep Learning Method
48	Weixing Wang	A Ridge Detection Algorithm with Fractional Calculus Function for Lung Tissue Images
49	Jiyan Zhang	Study on Test Method for Oxygen Transmission Rate of Thin Film Materials in Treatment of Hematological Diseases
50	Shuxian Deng	Stochastic Kinetic Analysis of Glucose Metabolism Processes in the Blood Of Diabetics
51	Bei Niu	Study on Isolation and Hypoglycemic Activity of Polysaccharides from <i>Poria cocos</i>
52	Yizhi Wang	Novel Piezoelectric Film-sensors Based on Molybdenum Disulfide Nanosheet and Applications in Early Diabetic Foot Examination
53	Jixue Xiao	An Intelligent Chronic Heart Disease Medical Monitoring System for Elderly People
54	Ye Liu	Evaluation of cancer-related fatigue and treatment with complementary and alternative medicine