

# *Certificate of Participation*

*This is to certify that*

**Nur Hidayati**

*participated and gave an Oral Presentation entitled:*

***Bacillus tequilensis Isolated from Fermented Intestine of Holothuria Scabra  
Produces Fibrinolytic Protease with Thrombolysis Activity***

*in International Conference on Advances in Biological Science and Technology (ICABST2020)*

October 28-30, 2020, Online Live Conference

## **Organized by**

Asia-Pacific Asso. of Natural Science & Engineering (APANSE)  
Hanoi National University of Education  
Mahidol University  
Spanish Biomedical Investigation Center  
American Chemistry Society  
WILEY Online Library  
IOP Science





**ICABST2020**

**2020 International Conference on  
Advances in  
Biological Science and Technology**

Conference Program & Abstract Book

**Online Video Conference**

October 28<sup>th</sup> - 30<sup>th</sup>, 2020



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Faculty of Science



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# 1. Welcome Message

## Welcome message from Organizing Committee

Dear Colleagues, welcome!

On behalf of the Organizing Committee, it's my privilege and pleasure to welcome you to 2020 International Conference on Advances in Biological Science and Technology. Based on the successfully held of ICABST2019 in Bangkok, Thailand -- – 2020 conference was planned to be held in Sanya, China; while on behalf of committee, we sincerely feel sorry for the effect caused by COVID-19 which results in this virtual conference instead of physical one.

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 ICABST2020 and I wish all of you a fruitful and exciting conference.

Prof. Domenico Lombardo

Conference Chair

International Organizing Committee of ICABST2020

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

## Welcome message from Conference Chair

Dear distinguished Delegates and Participants, Ladies and Gentlemen,

On behalf of the Organizing Committee it is my great pleasure and honor to welcome you at the 2020 International Conference on Advances in Biological Science and Technology.

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 agriculture, industry, environment, medicine and health care, and of course, in scientific research. The advancements in Biotechnology and Biomedicine raise new challenges and opportunities, which should be thoroughly considered and discussed. 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.

During the Conference, both oral presentations and poster sessions will be held. Oral presentations will encompass state-of-the-art lectures, delivered by speakers representing various disciplines. The essence of experimental science – the poster sessions, will be held on both days of the Conference. During these sessions you will have a chance to present and discuss all the posters.

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

With kind regards,

Dr. Dinh Toi Chu

Conference Chair

International Organizing Committee of ICABST2020

Faculty of Biology, Hanoi National University of Education, Vietnam

## **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](mailto:info@apanse.com).

### **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.

### **Hanoi National University of Education**

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 Chairs

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

Dr. Dinh Toi Chu, Faculty of Biology, Hanoi National University of Education, Vietnam

#### Scientific Committee

Andrea Scribante, University of Pavia, Italy

Anna Ardévol, Universitat Rovira i Virgili, Spain

Ching-An Peng, University of Idaho, USA

Christophis Koroneos, University of Western Macedonia, Greece

Dinh-Toi Chu, Hanoi National University of Education, Vietnam

Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

Farhad Memarzadeh, National Institutes of Health, USA

Gary Sweeney, York University, Canada

Gerrit Schüürmann, 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

Agnès 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

Mazhar Ul Islam, College of Engineering, Dhofar University, Oman

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

Sri Darmawati, Universitas Muhammadiyah Semarang, Indonesia

Stalis Norma Ethica, Universitas Muhammadiyah Semarang, Indonesia

#### Conference Secretariat

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

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

Michelle Xue, Asia-Pacific Association of Science, Engineering and Technology, China

## 4. Conference Information

### Conference Introduction

Based on the successfully held of ICABST2019 in Bangkok, Thailand -- 2020 International Conference on Advances in Biological Science and Technology was planned to be held in Sanya, China during Oct. 28-30. While due to the effect of COVID-19, ICABST2020 will be held during Oct. 28-30, 2020 by video conference instead.

ICABST2020 is organized by Asia-Pacific Association of Natural Science and Engineering, and supported by Hanoi National University of Education, Mahidol University, American Chemistry Society, IOP Science and other academic institutions & medias 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. ICABST2020 will include keynote speeches, invited speeches, oral presentations and poster presentations. The conference certification will be issued to all attendees including listeners.

### Call for Proposals to co-organize ICABST 2021

ICABST is pleased to announce this Call for Proposals for individuals or groups interested in co-organize the next ICABST conference, slated for the third quarter of 2021.

The proposal deadline is the February 20, 2021. 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](mailto:info@apanse.com)**



## 5. Conference Program

### 2020 International Conference on Advances in

### Biological Science and Technology

ICABST2020      October 28-30, 2020

#### Oral Presentation List

ID	Presenter	Title
Keynote Presentation 1	Roohollah Bagherzadeh	Advanced Nano-Fibrous Materials for Wearable Energy Harvesting Devices
Keynote Presentation 2	Julia Sidorova	Inexact Search and Bridged Pattern Recognition Scheme for Chemical Activity Prediction
Invited Presentation 1	Andrea Scribante	Use of ozone therapy for dental and orthopaedic purposes: a breakthrough in clinical practice?
Invited Presentation 2	Domenico Lombardo	Effect of Jiuwei Jiangzhi tablet on liver homogenate in rats with hyperlipidemia model
Invited Presentation 3	Denys Makarov	Analysis on distribution and drug resistance of pathogenic bacteria in patients with bloodstream infection in intensive care units
Oral Presentation 1	Dzung Trung Le	Biological invasions in forest ecosystems from Hai Duong Province, Northern Vietnam
Oral Presentation 2	Sri Darmawati	Pathogenicity Scoring System for Selection of Bacterial Consortium Formulated as Bioremediation Agent of Hospital Wastewater in Central Java
Oral Presentation 3	Ping Li	Effects of Membrane Viscosity on Capsule Dynamics in Shear Flow
Oral Presentation 4	Nur Hidayati	<i>Bacillus tequilensis</i> Isolated from Fermented Intestine of <i>Holothuria Scabra</i> Produces Fibrinolytic Protease with Thrombolysis Activity

Remarks: Most participants prefer to make poster presentations due to the different time zones.

## Poster Presentation List

No.	Title	Authors
P-01	Comparison Waterlogging Tolerance Potential of Cassava	Sengsoulichan Dethvongsa
P-02	Mechanism and expression of substance P in cervical cancer	Ying Wang
P-03	Clinical study of hypoparathyroidism after thyroid cancer surgery	Jian Shi
P-04	Research on wireless health data transmission system based on human energy collection	Yongqiu Liu
P-05	Design of high performance variable frequency power supply system for hospital mobile operating room	Jiamin Li
P-06	The effect of high frequency ultrasound combined with CT on the diagnostic rate and surgical prognosis of papillary thyroid carcinoma	Fei Shao
P-07	Effects of PM2.5 on the reproductive function of offspring male mice and the effects of different concentrations of PM2.5 on DNA methylation in offspring male mice	Zhengyao Wang
P-08	Observation of Curative Effect and Healing Time of 699 Cases of Fracture Patients Treated by Gukangling Fluid	Qiongxin Wang
P-09	Study on the effect of phenobarbital combined with naloxone in patients with neonatal asphyxia and its influence on stress factors	Chengyuan Li
P-10	Effects of lipid-lowering tablets on body weight and liver index of normal rats	Tian Xikui
P-11	Research on the Back Propagation Neural Network Haze Prediction Model Based on Particle Swarm Optimization	Zhi Zhao
P-12	Study on Application or Quality Control of FFF(3F) Technology in Tumor Radiotherapy	Jinglei Yang
P-13	Effect Analysis of Levocarnitine Combined with Insulin in Clinical Treatment of Type 2 Diabetes Mellitus	Youtao Zhang
P-14	Improvement of Lipi Huatan Quyu decoction on chronic inflammatory state of type 2 diabetes mellitus patients with non-alcoholic fatty liver disease and its effect on serum levels of Fetuin-B and chemerin	Yongli Pu
P-15	The effect of intrathecal injection of dexmedetomidine in rats with visceral pain and its effect on the activity of spinal cord neurons and astrocytes	Minjie Li
P-16	The nursing effect of family members' cooperative nursing intervention in patients with lung cancer chemotherapy and its influence on ADL and NRS score	Xiuli Wei
P-17	Blind Signal Separation of the Unknown Sources Number Based Under the Constraint of Space Direction	Jinde Huang
P-18	Study on the effect of alendronate sodium in diabetic osteoporosis	Ying Huang
P-19	Efficacy of acupoint catgut embedding on simple obesity with syndrome of spleen deficiency and accumulation of dampness and the effect on serum levels of leptin, NPY, ADP	Lingling Ji
P-20	Research on energy-saving optimization of improved DV-Hop localization algorithm in wireless sensor networks	Huijie Qu
P-21	Study on the mechanism of oleuropein combined with catgut embedding on acupoints for treatment and nursing of cerebral ischemia reperfusion injury	Qiuyue Li
P-22	The effect and clinical treatment guidance value of real-time fluorescent nucleic acid constant temperature amplification detection technology in children with <i>Mycoplasma pneumoniae</i>	Mianping Chen
P-23	Effect of 1064nm Q-switched Nd: YAG laser on skin pigmentation diseases and its effect on aesthetics	Xian Meng
P-24	Study on prediction and computer simulation of Loess Landslide	Yajun Jia
P-25	Study on the clinical effect of photodynamic periodontal therapy system in patients with peri-implantitis and the influence of RANKL and Shh levels	Hongbin Ma

P-82	The expression of EVI1 gene in patients with nasopharyngeal carcinoma and its correlation with pathology	Fei Wang
P-83	Investigation and surveillance of nosocomial infections in neonatal department of Ruian Maternal and Child Health Hospital	Weiwei Cai
P-84	Implementation and effect evaluation of mixed online and offline teaching of pharmacology based on the concept of OBE	Chunyan Gao
P-85	Study on the expression of blood glucose and blood lipid levels in elderly patients with atherosclerosis and their correlation with inflammatory factors	Xiaoling Wu
P-86	Application Of organ dose modulation technique in CT scanning Of children paranasal sinus	Xunhui Zhuang
P-87	Modeling and Analysis of the effect of Wenxin Granule on relieving arrhythmia after operation in patients with colorectal cancer	Qin Tian
P-88	A special review on clinical application of Excel rapid sampling	Li Xianyu
P-89	Clinical study of uterine artery embolization for refractory postpartum hemorrhage	Hao Yun
P-90	Effect of comprehensive nursing intervention on rehabilitation of patients after total hip arthroplasty	Li Li
P-91	Big data analysis and prevention research of Sudden death in athletes during sports	Penghua Gao
P-92	Meta-analysis of the effect of dietary Zinc supply on piglet growth performance	Feng Chao
P-93	Effects of dietary iron supplementation on piglet performance: a meta-analysis	Feng Chao
P-94	Study on the Farmer-Initiated Contacts for Rural Public Goods Supply: Taking the Case of Hubei Province, China	Fang Luo