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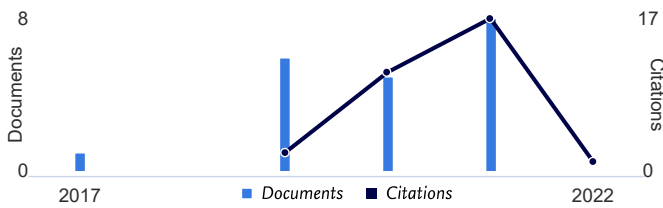
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Pathogenicity Scoring System for Selection of Bacterial Consortium Formulated as Bioremediation Agent of Hospital Wastewater in Central Java

[Darmawati S.^a](#), [Muchlissin S.I.^b](#), [Ernanto A.R.^c](#), [Sulistyaningtyas A.R.^c](#), [Fuad H.^a](#), [Rahman K.M.Z.^d](#), [Sabdono A.^b](#), [Ethica S.N.^a](#) ✉

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Bio-remediation potential of hydrolytic bacteria isolated from hospital liquid biomedical waste in Central Java

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

The conference proceedings contain the selected papers presented at the 2020 International Conference on Advances in Biological Science and Technology (ICABST2020). The conference is organized by Asia-Pacific Association of Natural Science and Engineering (APANSE, located in Zhengzhou, China), which has been successfully held during October 28-30, 2020. ICABST2020 was planned to be held in Sanya, China; while due to the effect caused by COVID-19, and many participants had already applied to the affiliation for their participation, so on behalf of committee, we sincerely feel sorry for the effect caused by COVID-19, and we had to decide to hold this virtual conference instead of physical one.

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, discuss the practical challenges encountered recommend better solutions for biotechnology. ICABST2020 includes keynote speeches, invited speeches, oral presentations and poster presentations. It provided unique opportunities for scientists to introduce novel ideas and studies in the following topics:

- ▶ Biotechnology and Bioengineering
- ▶ Biomedical Engineering
- ▶ Clinical Medicine
- ▶ Biopharmaceuticals and Pharmacology
- ▶ Animal and Plant Sciences
- ▶ Other Related Topics

In the opening ceremony, conference chair Prof. Domenico Lombardo (CNR-Consiglio Nazionale delle Ricerche, IPCF- Istituto Processi Chimico-Fisici, Italy) and the co-chair Dr. Dinh-Toi Chu (Hanoi National University of Education, Vietnam) inaugurated the conference by delivering welcome messages. Both of them gave an introduction of APANSE and warmly welcomed the delegates from all over the world. Prof. Domenico Lombardo also made a short report about the proposal of ICABST2021. In Plenary Session, Prof. Roohollah Bagherzadeh gave a talk with the title of “Advanced Nano-Fibrous Materials for Wearable Energy Harvesting Devices”; Dr. Julia Sidorova also gave a presentation about “Inexact Search and Bridged Pattern Recognition Scheme for Chemical Activity Prediction”; then Dr. Andrea Scribante shared their latest research on “Use of ozone therapy for dental and orthopaedic purposes: a breakthrough in clinical practice?”, at last Prof. Domenico Lombardo gave a summary about this session as well as giving a talk entitled “Soft Interaction and Colloidal Stability of Nanocarriers in Drug Delivery Applications”.

One hundred and nine delegates from 14 countries (Italy, Germany, Vietnam, Indonesia, Pakistan, China, Sweden, Iran, Canada, Oman, Thailand, US, France, and Turkey) attended the conference, including distinguished scholars who have outstanding influence in related fields. The conference included 2 Keynote Presentations, 3 Invited Presentations, 11 Oral Presentations (8 hours in total), as well as 94 Poster Presentations. ICABST2020 was held in the Microsoft Teams platform. All presentations and conference program were uploaded and displayed for all participants.

ICABST is an annual academic event, the ICABST2021 is under preparation. Both Organizing Committee and Scientific Committee welcome scholars and researchers to participate the future events. 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 15, 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.

This conference proceeding presents a selection from papers submitted to the conference from universities, research institutes and industries. All of the papers were subjected to peer-review by conference committee members and international reviewers. The papers selected depended on their quality and their relevancy to the conference. The volume tends to present to the readers the recent advances in the field of resources and environmental research and various related areas.

The Organizing Committee expresses deep gratitude to all organizers and participants of the conference for their active participation, interest and discussion which is a significant contribution to the development of biotechnology.



Jason Guowei Sun

Asia-Pacific Association of Natural Science and Engineering, China

December 25, 2020



2020 International Conference on Advances in Biological Science and Technology

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Ozone therapy in dentistry: from traditional applications towards innovative ones. A review of the literature

Simone Gallo¹ and Andrea Scribante¹

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Abstract

Ozone (O₃) is a natural gas deriving from dioxygen (O₂) and acting as a strong oxidant. Despite this characteristic, low doses of ozone can be beneficial for the organism due to the antioxidant response implemented by this latter. Accordingly, since the 19th century, several therapeutic applications have been proposed in medicine, but even dental pathologies can benefit from the use of this substance. In particular, the introduction of ozone therapy in dentistry dates to 1930 when it was proposed as a disinfectant and wound-healing agent. Nowadays, it is known as an antioxidant, anti-inflammatory, immunomodulatory, anti-hypoxic, biosynthetic and antimicrobial agent. The main forms of ozone administration are three (gaseous ozone, ozonated water and ozonated oils) but its therapeutic indications almost cover every field of dentistry. The aim of the present review is first to describe the main traditional uses of ozone in dentistry, and, subsequently, to present the innovative applications proposed both in dental and orthopaedic implantology.

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Comparison Waterlogging Tolerance Potential of Cassava

Sengsoulichan Dethvongsa¹, Nguyen Anh Vu² and Tran Khanh Van¹

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Abstract

This experiment was conducted to evaluate the waterlogging tolerance of cassava. Five cassava genotypes from CIAT: CM9912-167, GM214-62, GM1263-6, GM1406-13 and GM1521-10, were used to assess the impact of artificial waterlogging conditions on growth and development of cassava. Cassava plantlets (in vitro) were cultivated in soil pots, and after 3 months of growth, they were waterlogged for 12 days. After three days of waterlogging, it was found that all 5 genotypes of cassava were affected by the waterlogged conditions. Notably, the variety of CM9912-167 clearly showed physiological changes such as chlorosis of leaves, wilting leaves and some plants even died within 6 days. Other varieties of cassava showed a belated onset of symptoms. Genotypes GM1406-13 and GM1512-10 showed the highest percent of chlorosis leaves, they resisted the effects of waterlogging for 12 days which was the longest time period for the genotypes tested. Through this experiment, cassava has two types of response to flooding. The first was cassava showing early yellow leaf, starting from old leaves and losing those yellow leaves. The other was withered whole the plant, then leaves dries and fall off, only a few young leaves on the top. In conclusion, cassava with yellow leaves is more resistant to flooding.

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Application of Ergonomics in Health Care

X Chen¹, X Wang² and Cq Ai¹

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This paper defines the definition of human ergonomics, and introducing human ergonomics as an important subject in the medical and health services, and discusses the technical skills associated with human ergonomics and medical and health services, let us on the non-technical skills in medical and health services with the understanding of the important role. This paper analyzes the current situation of some non-technical skills in our hospital, and summarizes some effective methods and measures at home and abroad to reduce the influence of human factors in recent years.

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

Nur Hidayati¹, Nurrahman Nurrahman², Hayatun Fuad¹, Hendra Munandar³, Dewi Seswita Zilda⁴, Aditya Rahman Ernanto⁵, Amin Samiasih⁵, Oedjijono Oedjijono⁶ and Stalis Norma Ethica¹

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Abstract

Among essential treatment of cardiovascular disorders are fibrinolytic proteases. Most thrombolysis agents are fibrinolytic enzymes from group of bacterial proteases. This work reports a potent bacterium isolated from fermented intestine of *H. scabra*, which could produce fibrinolytic protease with high thrombolysis activity. Bacterial selection was conducted based on proteolytic and fibrinolytic activities indicated as clear zone on skim milk and fibrin agar media, respectively. Crude proteases from the selected bacterial isolates were subjected to thrombolytic activity test based on gravimetric method, which results were confirmed after 7 repetitions. As result, 4 fibrinolytic protease-producing bacterial isolates HFSI-3, HFSI-4, HFSI-5 and HFSI-8 were obtained. Among them, HFSI-5 isolate identified as *Bacillus tequilensis* on the basis of the 16S rRNA gene sequencing and morphological properties produced crude protease with the highest thrombolytic activity. The thrombolytic activity of crude protease produced by *B. tequilensis* HFSI-5 is worthy of comparing to that of standard fibrinolytic enzyme Nattokinase showing its potential as thrombolysis agent.

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