PROCEEDINGS

ICAMS
2020

The 1st International Conference on Agromedicine and Medical Sciences (ICAMS) 2020

In the 18th Dies Natalis of Faculty of Medicine University of Lampung

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PROCEEDINGS

ICAMS 2020
International Conference on Agromedicine
and Medical Sciences 2020

THE 1ST INTERNATIONAL CONFERENCE ON AGROMEDICINE AND MEDICAL SCIENCES (ICAMS) 2020

"Agromedicine: in the Spot Light of Advancement of Medical Science and Technology"

Bandar Lampung, Indonesia

October 22nd-23rd, 2020

Hosted by:

Faculty of Medicine,

University of Lampung

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The Dean of Faculty of Medicine, University of Lampung

Dr. Dyah Wulan SRW, S.K.M., M. Kes.

Alhamdulillah, praise the Lord because even in this COVID-19 pandemic, We can still hold this International Conference on Agromedicine and Medical Sciences (ICAMS) online. As the first series, the ICAMS is organized in order to celebrate the 8th Dies Natatalis of Faculty of Medicine, University of Lampung. This conference is a perfect medium for researchers, academicians, and practitioners to share and present their theoretical and practical ideas or research findings which are expected to be valuable for people.

We are excited and honored to have a chance to work with all the committees and parties involved in preparing this agromedicine and medical conference. Besides, I would like to say thanks and welcome to all participants of the International Conference on Agromedicine and Health Sciences. With the main theme "Agromedicine: in the Spot Light of Advancement of Medical Science and Technology", I hope that this international online conference will provide our participants with a great experience through a v ariety of knowledge and perspectives to innovate and advance in the field of health.

Certificate of Participation

ICAMS 2020
International Conference on Agromedicine and Medical Sciences 2020

This is to certify

Ersalina Nidianti

as

Oral Presenter

at The 1st International Conference on Agromedicine and Medical Sciences (ICAMS) 2020
held between 22-23 October 2020 at Lampung University, Lampung, Indonesia

Dr. Dyah Wulan SRW, S.K.M., M. Kes.
Dean The Faculty of Medicine of
The University of Lampung

Dr. dr. Evi Kurniawaty, M.Sc.
Committee Chair

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ANALYSIS OF THE TOXICITY OF BOVINE SERUM ALBUMIN NANOPARTICLE BASED CANCER DRUGS

Ersalina Nidianti[1*], Ary Andini[2], Rizka[3]

Department of Medical Laboratory Technology, Faculty of Health, Nahdlatul Ulama Surabaya of University [1,2,3]

Corresponding author ersalinanidianti@unusa.ac.id[1], aryandini@unusa.ac.id[2]*

Abstract

Cancer is a non-communicable disease that causes morbidity and mortality in all regions of the world. Basic Health Research Data on the prevalence of cancer in Indonesia shows an increase from 1.4 per 1,000 population in 2013 to 1.79 per 1,000 population in 2018. Cancer treatment is important in reducing the number of deaths (mortality) due to cancer sufferers. One of the cancer treatments is using the chemotherapy drug cisplatin. Cisplatin given intravenously as a short-term infusion in a saline solution for the treatment of malignant cancer. The administration of cisplatin in clinical cancer treatment is due to its toxic side effects which depend on the drug dose.

Purpose: The purpose of this study was to determine the level of toxicity of herbal cancer drugs and cisplatin-based chemotherapy drugs combined with Bovine Serum Albumin (BSA) nanoparticles

Research Methodology: This research is an experimental research. Toxicity test was carried out using the Brine Shrimp Lethality Test (BSLT) method with various concentrations of 1 ppm, 10 ppm and 100 ppm, while the controls used ethanola and DMSO

Results: Toxicity test used Artemia salina shrimp larvae. The toxic effect was identified by the percentage of mortality of shrimp larvae using probit analysis (LC_{50}). There are three categories, namely toxic, highly toxic, and non-toxic. The toxicity level of the NP-BSA with the LC_{50} value was 69.23 ppm. The higher the concentration, the higher the resulting toxicity.

Limitations: Write a brief limitation of the study

Contribution: Where this study can be useful? Give the name ofarea, disciplines, etc.

Keywords: Drug toxicity, Cisplatin, BSA Nanoparticles