

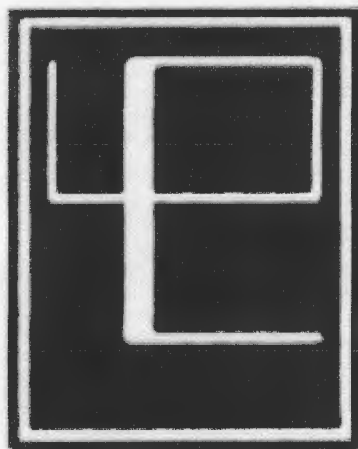
ABSTRACTS
BOOK

THE 1st iic
IGN-TTRC
INTERNATIONAL
CONFERENCE

“BIOTECHNOLOGY FOR HUMAN LIFE”



BOGOR AGRICULTURAL UNIVERSITY (IPB)
JULY 17th - 18th, 2012



PT. ELO KARSA UTAMA

PREFACE

It is always a great time to meet with scientists to talk about science and technology since what they say is only the facts of phenomena. This first international conference held by the IGN-TTRC, the Indonesia-German Network in Teaching, Training and Research Collaboration, is expected to have pictures of research progresses on biomolecule and biotechnology in the world, in particular in the Asia region as well as in Indonesia. The conference also invites students to involve scientifically as they will be the next developer of this world. That is the reason of having the theme of the conference that covers large scope of biotechnology researches.

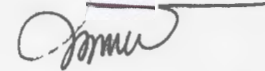
In this two day-conference, 25 research results will be presented orally and 31 are in form of posters. They were sent by scientists/academicians/students from Germany, Malaysia, Riau, West Sumatra, East Kalimantan, South Sulawesi and North Sulawesi, East Java, Yogyakarta, West Java, Banten and Jakarta. Six senior scientists have been invited to give their talk about recent development of their focus of research, five come from Germany and one from Indonesia.

Although this book contains only abstracts, we hope that the presentations would be the main focus of the conference that enlighten the discussion among all the participants. A list of participants along with their email address will be useful to start, maintain or develop interaction among the participants.

Have a fruitful conference.

Organizing Committee Chairwoman

Diah Ratnadewi



Diah Ratnadewi

FOREWORD

Since March 2011, seven Indonesian universities have engaged to collaborate with Kassel University. This collaboration aims at developing academic and scientific matters, especially for post-graduate studies. Directorate General of Higher Education of the Ministry of National Education of Republic Indonesia has been promoting as well as supporting any Indonesian university to increase its quality of education and researches to international level. Despite much efforts have been carried out at university level, collaboration with other universities having international reputation in some areas of study is believed to speed up the target.

Collaboration among the in-country universities is also encouraged since scientific communication among the scientists would make the researches going faster to reach outputs which are needed to help developing this country, i.e. for industries, medical or agriculture purposes. Fragmented researches in every research laboratories are wasting in term of time, money, as well as resources. Therefore the ign-ttrc was designed to pioneer such collaboration.

Biotechnology is a vast field of study. The mondial progresses and achievement of this kind of research has proven solving many human problems. Although controversy on the application of biotechnology results remains strong, the use of biotech products in some extent has given benefit to human being particularly in the third world. Indonesia has developed some regulations dealing with genetically modified organisms and their products that the acceptance has to be taken with careful and wise.

Several researches on molecular biology and biotechnology have been developing at IPB. The focuses are to be mentioned: rice plants for resistance to aluminum or diseases, *Jatropha* plant for more seed-productive, wheat plant for adaptation to tropical area, and more others. Almost all the research groups are working together with partners in Indonesia and in foreign countries.

In this occasion I would like to express that it is a great honor for IPB to be the host of the first international conference of ign-ttrc. We welcome all of you, senior and junior scientists to our university compound, and wish you all success.

Bogor, the 17th of July 2012
Vice Rector for Research and Collaboration,

Anas M. Fauzi

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