Annual Scientific Meeting of
The Indonesian Association of
Biochemistry and Molecular Biology

Bandung Biomolecular Medicine
Conference 2010
October 25th-26th, 2010

“Human Genetic and It’s Relation
to Infection and Oncology: Current Development
on Research and Therapy Intervention”

CONFERENCE BOOK

Presented by

Faculty of Medicine
Universitas Padjadjaran
Bandung, INDONESIA

The Indonesian Association of
Biochemistry and Molecular
Biology, Bandung, INDONESIA
Concentrate all your thoughts upon the work at hand. The sun’s rays do not burn until brought to a focus.
Alexander Graham Bell. Scientist (1847-1922)

Nothing in life is to be feared. It is only to be understood.
Marie Curie. Scientist (1867-1934)

All our science, measured against reality, is primitive and childlike—and yet it is the most precious thing we have.
Albert Einstein. Physicist (1879-1955)

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Message from the Chairman

Dear Colleagues

On behalf of the organizing committee it's really our great pleasure to invite general physicians, specialist, biochemists, biomolecular-scientists and students to participate in Bandung Biomolecular Medicine Conference 2010 and the annual meeting of Indonesian Association of Biochemistry and Molecular-Biology (PBBMI) 2010, with this year theme “Human genetic and it's Relation to Infection and Oncology, Current Development on Research and Therapy Intervention”. This international conference will take place in Bandung city, Indonesia, with world class-expert speakers from several continents. We sincerely believe, this conference will beneficially improve our understanding and gain new insight in biomolecular medicine, especially on infection and oncology field, for all participants.

Global environment- and socioeconomics-changes along with rapid progress of medical-science and technology, pursue the health-practitioners to over the best quality of health-services to the community. Regarding to give the best quality of health-services, it obvious that collaboration of multi-disciplinaries with multi-professionals is a must.

It's become PBBMI mission and responsibility to disseminating biochemistry and molecular-biology science and technology in this country; gathering the scientisists with high perfoma to do research in basic science and translate it into its daily-application, especially in medicines and health cares. Further to contribute some action to overcome the health problems in Indonesia.
This year annual scientific meeting, PBBMI Bandung rising the theme of environment related diseases, especially in infection and oncology. Both of these diseases contribute to the highest morbidity and mortality rates in Indonesia; as our institution (Faculty of Medicine, Universitas Padjadjaran-Hasan Sadikin General Hospital-Cicendo Eye Center Hospital) make a focus both in infection and oncology research using local man-power and resources.

This scientific meeting is aimed to discuss overviews and current research findings in infection and oncology field to lead our steps for its clinical application and the improvement of our therapy intervention. We are pretty sure that this meeting will be an exciting and fruitful of fresh discussion.

We are really looking forward to welcoming all of you in Bandung.

Prof. Dr. Muhammad Nurhailim Shahib, dr
Chairman of Bandung Biomolecular Medicine Conference 2010

Message from the Dean

Dear Colleagues,

Welcome to Bandung, the capital city of West Java, INDONESIA
Welcome to Faculty of Medicine, Universitas Padjadjaran, Bandung. Welcome to Hasan Sadikin Hospital and Cicendo Eye Center Hospital.

This year we are proudly present **Bandung Biomolecular Medicine Conference 2010**, in collaboration with Indonesian Association of Biochemistry and Molecular Biology. There are so many exciting and fulfilling initiatives taking place in our faculty and the medical research centers, as we achieve an excellence in our missions of education, research, patient care and service to community.

This international conference is in-accordance with 53rd anniversary of Universitas Padjadjaran, as our theme for this event covers the environment related diseases, especially in infection and oncology, of which both contribute to the highest morbidity and mortality rates in Indonesia. Our faculty has committed to education and research, as these are the pillars of an academic medical center that rest squarely on the foundation of clinical care.

For the next two days of our gathering, we sincerely welcome all the participants and distinguish speakers to discuss about Biomolecular Medicine Research. As well as enjoying the unforgettable memory in Bandung, Paris van Java.

Again, the Faculty of Medicine, Universitas Padjadjaran appreciated your interest to gather here in this international conference and welcome your involvement to strengthen our network, resulting in more collaborative research projects.

Prof. Dr. med. Tri Hanggono Achmad, dr
Dean of Medical Faculty, Universitas Padjadjaran, Bandung
Abstract

P5.1

Hepatoprotector Effect of Syzygium cumini Seed Extract to the MDA Levels

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Introduction: Paracetamol is analgesic used in dentistry, but hepatotoxicity can happened if use over dose. Syzygium cumini seed extract study showed that it had active antioxidant effect. The aim of study was to examine the hepatoprotective Syzygium cumini seed extract to MDA level in mice induced by paracetamol.

Methods: Thirty two mice were divided into 4 groups that K(-), K(+), P1 and P2. K(-) group as negative control group (without induced paracetamol and treatment), K(+) group as positive control group (only induced paracetamol), P1 group (induced paracetamol and Syzygium cumini dose 280 mg/kgBW) and P2 (induced paracetamol and Syzygium cumini dose 560 mg/kgBW). After all the mice was sacrificed and take hepar’s mice to measured MDA levels.

Results: All of datas in this study were analyzed with ANOVA and LSD test. ANOVA test had datas significantly in every groups. With LSD test had significantly datas hepatocytes between K(+) with K(-), and P2 groups.

Conclusion: Syzygium cumini seed extract could as hepatoprotective in MDA level’s mice induced high dose paracetamol.

Keywords: Syzygium cumini, Hepatoprotector, MDA levels

References: