BIBMC 2014

ABSTRACT BOOK

THE 3rd Bandung International Biomolecular Medicine Conference (BIBMC)

57th Anniversary, Faculty of Medicine, Universitas Padjadjaran (1957-2014)

18-19 SEPTEMBER, 2014
BANDUNG, INDONESIA

In Collaboration with:

rshs · Rumah Sakit Mata Cicendo · Santosa Hospital Bandung Central · School of Life Sciences and Technology · Dharmais Hospital National Cancer Center · bioFarma · The Trans Luxury Hotel · Medco Foundation

BIBMC 2014
ABSTRACT BOOK

Editor:
Ramdan Panigoro
Budi Setiabudiawan

FACULTY OF MEDICINE
UNIVERSITAS PADJADJARAN
2014

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FACULTY OF MEDICINE
UNIVERSITAS PADJADJARAN
2014

CONTENT

MESSAGE FROM THE CHAIRMAN OF THE 3RD BIBMC

On behalf of the organizing committee, I would like to extend a warm welcome to scientists, colleagues, students, and all participants of The 3rd Bandung International Biomolecular Medicine Conference. This year theme is **"Energetic Champions and Strategic Alliances : Translating Biomolecular Medicine Towards Indonesian Golden Generation"** held by Faculty of Medicine, Universitas Padjadjaran (UNPAD), in collaboration with International Strategic Alliances.

We are very proud to present you today some of our strategic alliances that have been key-roles in developing our human resources in Faculty of Medicine, Universitas Padjadjaran for years. We hope these partnerships will continue in the upcoming years to yield the new energetic champions that may contribute for the improvement of Indonesian health quality.

We are very much delighted and honored that this international conference is attended by world class-expert speakers from several countries that have generously agreed to display and disseminate current results of medical research, particularly those in the field of molecular medicine. We hope this conference will be able to provide a stimulating scientific atmosphere for all participants, thus accelerating the educational and research exchange, and collaboration among participants in this conference. We look forward to the interactive discussion among researchers in this conference.

In this occasion, let us give the highest appreciation for all organizing committee members and everyone that have worked hard for the success of this event. At the end, we hope that this scientific meeting could be a new milestone in developing a better health in Indonesia.

Prof. Ramdan Panigoro, MD, MSc, PhD

MESSAGE FROM THE DEAN, FACULTY OF MEDICINE, UNIVERSITAS PADJADJARAN

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

This year we are very proud to present you the **3rd Bandung International Biomolecular Medicine Conference**. There are so many exciting and fulfilling initiatives taking place in our faculty and 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 57th anniversary of Universitas Padjadjaran, as our theme for this event encompasses broad spectrum of life, such as infectious diseases, oncology, and genetics. In this era, globalization has created significant developments and changes in knowledge and technology. Therefore, as a part of this dynamic changes, we are urged to improve ourselves in every aspects, especially in biomolecular medicine. In order to establish an Indonesian golden generation on the celebration of the centennial of Indonesian Independence in 2045, our faculty has committed more in education and research, as they are the pillars of an academic medical center that rest squarely on the foundation of clinical care.

For these two days of gathering, we sincerely welcome all the participants and distinguished speakers to discuss about biomolecular medicine research and every updates in it, as well as enjoying the unforgettable memory in Bandung, Paris van Java. Again, the Faculty of Medicine, Unversitas Padjadjaran appreciate your interest to gather here in this international conference and welcome your involvement to strengthen our network, resulting in more collaborative strategic alliances.

Prof. Dr.med. Tri Hanggono Achmad, MD

ORGANIZING COMMITTEE

Patron	Prof. Dr.med. Tri Hanggono Achmad, MD *(Dean Faculty of Medicine Universitas Padjadjaran)*
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Member	Haryono Tansah, MD Julius Broto Dewanto, MD Anna Martiana, Dra Anisah Dahlan, Dra Yunisa Pamela, MD Rima Destya Triatin, MD Rendy Ignatius Siswanto, MD

PROGRAM AT A GLANCE

THURSDAY, 18 SEPTEMBER 2014

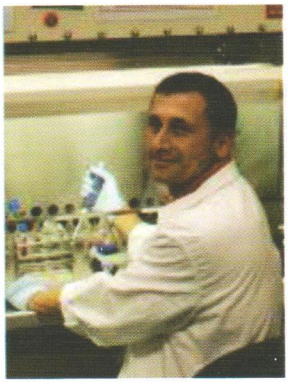
TIME	SPEAKERS NAME & TOPICS
08.00-08.30	**Herry Herman, MD, PhD & Edhyana Sahiratmadja, MD, PhD** Biomolecular Medicine Introductory
08.30-09.10	**Prof. Bladimiro Rincon Orozco** HPV Infection and Evasion Mechanisms From Innate Immunity
09.10-09.15	**Prof. Ramdan Panigoro, MD, MSc, PhD** Organizing Committee Report
09.15-09.25	**Prof. Amin Soebandrio, MD, PhD** Eijkman Institute Director Speech
09.25-09.35	**Prof. Dr. med. Tri Hanggono Achmad, dr.** Opening Speech
09.35-10.15	**Prof. Sangkot Marzuki, MD, PhD** Challenges & Future of Biomolecular Medicine Research in Indonesia
10.15-10.45	COFFEE BREAK
10.45-11.15	**Prof. Suthat Fucharoen** Translation Research In Thalassemia : From The Bench To Bedside
11.15-11.45	**Prof. Dr. M Nurhalim Shahib** Expression of HASH2 Gene as a Tool for Early Cancer Cell Detection
11.45-12.15	**Dr. Marselina Irasonia Tan** BRD4 Overexpression in Ovarian Cancer
12.15-13.30	LUNCH SYMPOSIUM
13.30-14.30	ORAL & POSTER PRESENTATION PARALEL SESSION
14.30-14.45	COFFEE BREAK
14.45-15.30	**Prof. Tatsuya Iso, MD, PhD** Capillary Endothelial Fatty Acid Binding Protein 4 & 5 Play a Critical Role in Fatty Acid Uptake in Heart & Skeletal Muscle
	Mas Rizky AA Syamsunarno, MD, PhD Fatty Acid Binding Protein 4 and 5 Play a Crucial Role in Adaptive Response to Prolonged Fasting and Cold Exposure in Mice
15.30-16.15	**Prof. Paul Michael Yen, MD** Novel Mechanisms of Thyroid Hormone Regulation of Hepatic Autophagy
	Ronny Lesmana, MD, PhD Thyroid Hormone Regulates Myosin Heavy Chain I Expression in Skeletal Muscle Via Autophagy
16.15-17.00	**Prof. Kazuhiko Kuwahara, MD, PhD** The Role of Mammalian TREX2 Complex in Sporadic Breast Cancers
	Andri Rezano, MD, PhD High Expression of DSS1, which Maintains Brca2 Stability, Suppresses DNA Damage Induced by Anti-Cancer Drugs in Breast Cancer Cells

FRIDAY, 19 SEPTEMBER 2014

TIME	SPEAKERS NAME & TOPICS
08.00-08.30	**Herry Herman, MD, PhD & Edhyana Sahiratmadja, MD, PhD** Faculty of Medicine UNPAD Biomolecular Research Highlights
08.30-09.30	**Prof. Katarina Ejeskär, PhD** Dysregulation of Cell Signaling Pathways in Tumors, Including Recent Research Regarding The Function Of PI3K Isoform P37Delta
09.30-10.00	**Prof. Irawan Yusuf, MD, PhD** Research Experience of Infectious Diseases in East Indonesia
10.00-10.15	COFFEE BREAK
10.15-11.00	**Prof. Akira Murakami, MD, PhD** The Path Towards Blindness Prevention Using Ocular Gene Approach: Gene Application in Ophtalmology
	Arief S Kartasasmita, MD, PhD Gene Approach to Prevent Severe Visual Impairment
11.00-11.45	**Prof Akihiro Harada, MD, PhD** The Role of Vesicle Traffic in Cell Polarity and Human Diseases
	Nur Atik, MD, PhD PKD: A Role in Cell Polarity, F-Actin Distribution and Carcinogenesis In Vivo
11.45-13.00	LUNCH / FRIDAY PRAYER
13.00-14.30	ORAL & POSTER PRESENTATION PARALEL SESSION
14.30-15.00	COFFEE BREAK
15.00-15.45	**Prof Eric AF Simoes, MB, BS, DH, MD** The Human Animal Interface of Avian Influenza: Current Research & Challenges
	Dwi Agustian, MD, MPH, PhD The Ecological Factors of Human Influenza A Infections in Rural Communities in Indonesia
15.45-16.30	**Prof Robert Hofstra, PhD** Congenital Digestive Diseases: From Bedside to Bench and Back
	Danny Halim, MD Lessons From Rare Congenital Digestive Diseases: What and How to Learn
16.30-17.00	**Prof Ramdan Panigoro, MD, MSc, PhD** Best Oral e-Poster Presentation Award & Closing

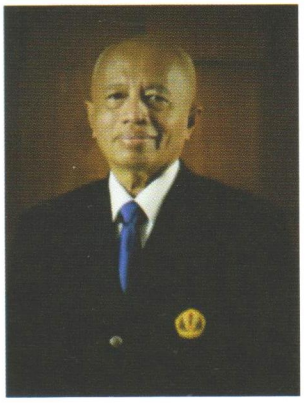
GLANCE OF SPEAKERS

Prof Dr Bladimiro Rincon Orozco
German Cancer Research Centre, Heidelberg, Germany



Senior Scientist at the German Cancer Research Center and Invited Professor at Industrial University of Santander. Expertise in Oncology, Immunology and Infectious Inflammation, as well as Cellular and Molecular Biology with strong emphasis in preclinical models and human assays. Proven ability to design, conduct, and publish high impact science in top-tier journals. Strong leadership, multidisciplinary teamwork with interdisciplinary national and international teams to develop high quality, high impact translational research that conduct to advancement of rationally designed drugs and diagnosis tools that improve the quality of people's lives.

Prof Ramdan Panigoro, MD, PhD
Dept. Biochemistry and Molecular Biology, Universitas Padjadjaran, Bandung, Indonesia

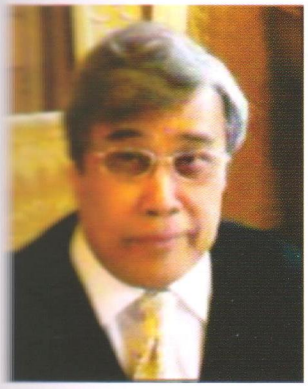


As the current Head of Department of Biochemistry and Molecular Biology Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia, Professor Ramdan Panigoro not only has passion in research, showed by numbers of his publications concentrating in Indonesian traditional herbals, but he has also known to have a talent as a negotiator. Such valuable capacity has gifted him to obtain many research grants from both national and international, and supported his career advancement not only at Faculty level, but until University level. At Universitas Padjadjaran, he was entrusted to become the Director of External Affairs, also once positions as a special staff of Vice President of Student Affairs. His involvement in numerous organizing committee of academic conferences has led him to become the chairman of this year Bandung International Biomolecular Medicine Conference, forwarding the theme: Energetic Champions and Strategic Alliances: Translating Biomolecular Medicine towards Indonesian Golden Generation, 18-19 Spetember 2014.

Prof Dr.Med Tri Hanggono Achmad, dr
Dean Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia

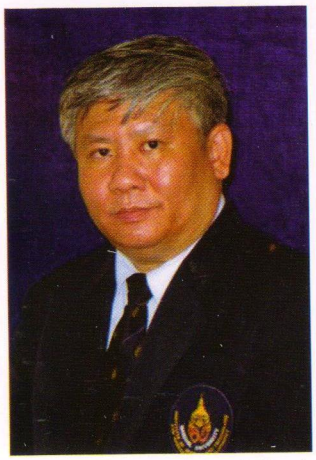
His outstanding leadership during his career as a professor and lecturer of Biochemistry and Molecular Biology in Faculty of Medicine Universitas Padjajdaran, Bandung, Indonesia has elected him to become the Dean of Faculty of Medicine Universitas Padjadjaran since 2010 up to present. Following his doctorate program (1995) in Department of Clinical Biochemistry, School of Medicine, University of Bonn, he has been actively involving in education and has been reforming research-development in Faculty of Medicine Universitas Padjadjaran. His academic- and research-background brought this Medical Faculty and even Universitas Padjadjaran to the higher level of academic-research atmosphere. He has very strong commitment to rebuild this institution into a world class research university, as he stated this commitment with motto 'From West Java to the World for Global Health'.

Prof Sangkot Marzuki, MD, PhD, DSc
President, Indonesian Academy of Sciences



Professor Sangkot Marzuki, President of the Indonesian Academy of Sciences, has scientific interest in the biogenesis of energy transducing membranes and related human genetic disorders of which he explored during his 17 years experience as medical faculty member of Monash University in Australia. He moved to Indonesia in 1992 to rebuild the Eijkman Institute, where he extended these interests to encompass human genome diversity and infectious diseases. For his contribution, he was awarded a higher doctorate from Monash University (1998), honorary doctorate from Utrecht University (2006), and received several prestigious Indonesian awards as well as an ASEAN Outstanding Scientist Award in 2005. Professor Marzuki graduated as a medical doctor from the University of Indonesia in 1968, obtained his M.Sc. from Mahidol University in Bangkok (1971), and Ph.D. from Monash University (1975). He holds honorary appointments as Professors of Medicine at Monash University, and of Medical Sciences at University of Indonesia. He served in the Indonesian National Research Council (1994-2004) and Higher Education Council (1996-2000; 2003-2008). He became the Governing Council Member of Asia-Pacific International Molecular Biology Network (1998-2008) and chairman of the Asia Pacific Network of Human Geneticists (1995-2005).

Prof Suthat Fucharoen, PhD
Thalassemia Research Center, Institute of Molecular Biosciences, Mahidol University, Thailand



Dr. Suthat Fuchareon is a Professor of Medicine, Thalassemia Research Center, Institute of Molecular Biosciences, Mahidol University, Nakornpathom, Thailand. He is internationally recognized for his work on thalassemia. His scientific interests encompass the spectrum of basic, translational, clinical and epidemiological research. Works from his center have set the standard for diagnosis and have defined molecular genetics, genomics, and genotypic/phenotypic correlations of thalassemic syndromes. His publications include clinical trials on the use of inducers of fetal hemoglobin and iron chelation, the use of MRI imaging for assessment of iron overload, as well as landmark epidemiologic studies defining the genetic diversity and public health burden of these diseases. He has received many rewards such as Outstanding Researcher Award and Outstanding Scientist Award of Thailand, the Royal Dusdhi Mala Medal, awarded by H.M. the King of Thailand. In 2011 he had received the Berend Houwen Lecture award from the International Society for Laboratory Hematology.

Prof Dr Muhammad Nurhalim Shahib, MD
Universitas Padjadjaran, Bandung, Indonesia

He is a professor and lecturer a Department of Biochemistry and Molecular Biology Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia. He plays a major role in pioneering and developing the Molecular Biology research in Universitas Padjadjaran. In 1989, he established the first master program for Biotechnology and Molecular Biology in the Faculty of Medicine. Prof. Nurhalim Shahib got his first patent (1995) for his invention in the technology to recycle the hospital – infectious – waste product. His other patents are: Transport Nutrient Process through Cell membrane without Radioactive (2008), Dry Extract Composistion of Crica papaya Linn, Phyllnatus nirui Lin and Curcuma zanthoriz Rox B for anti-Dengue (2009). There is another patent under submission. He received several awards, including from the President of Universitas Padjadjaran as well as from Indonesian government for his excellent achievements.

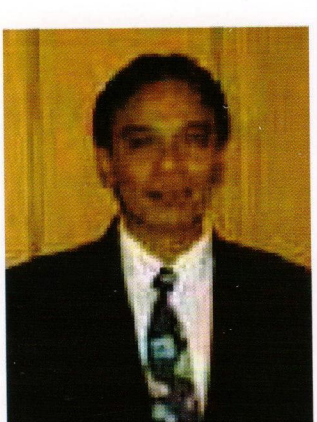
Dr Marselina Irasonia Tan
School of Life Science and Technology, Institut Teknologi Bandung, Indonesia

She is a lecturer in School of Life Sciences & Technology, Institut Teknologi Bandung. She got her doctorate degree in Molecular Biology from Medical University Lübeck in 1998. Because of her interest in Molecular Biology Science, she involves in research and produces a lot of international publications, for example "The expression of essential components for human influenza virus internalisation in Vero and MDCK cells" in 2013. She is actively involved in international and national organizations, such as Society for medicinal Plant Research - Gesellschaft fuer Arzneiplanzenforschung and Asosiasi Sel Punca Indonesia.

Ass Prof Katarina Ejeskär, PhD
School of Life Sciences University of Skövde, Sweden

Katarina Ejeskär is an associate professor on experimental clinical genetics at Sahlgrenska Cancer Center, Institution of Biomedicine, University of Gothenburg, Sweden. She is currently a senior lecturer and researcher at School of Life Sciences University of Skövde. She earned Master of Science in Molecular Biology from University of Gothenburg in 1995, and got PhD degree from the same university in 2000 with dissertation entitled "*Genetic alterations in Scandinavian neuroblastoma tumors*". She then continued her post-doctoral studies at Medical Faculty Dept. Clinical Genetics University of Gothenburg; and Murdoch Children's Research Institute, Cell and Gene Therapy Group, Melbourne, Australia. She is recognized for her publications as author and co-author in several journals like Medical Oncology, Journal of Molecular Signaling, International Journal of Oncology, Oncogene, British Journal of Cancer, Genes Chromosomes Cancer, BMC Cancer, and Molecular Cancer.

Prof Irawan Yusuf, MD, PhD
Universitas Hasanuddin, Indonesia



Irawan Yusuf held a medical doctor degree from Medical Faculty of Hasanuddin University Makassar in 1984 and finished his PhD in 1992 from Hiroshima University School of Medicine, Japan. He is a lecturer at department of Physiology since 1986. Besides being a Dean of Medical Faculty for two periods, he also involves in various research and development activities, especially in the field of molecular biology. He did research on Cellular Electrophysiology of Cardiac Cell Membrane (1987-1992) and became a Senior Researcher at the Eijkman Institute, Jakarta (1995-2002). Many scientific articles, books, papers, and research that related to the field of molecular and genetics have been written by him. He was awarded "2013 Bakrie Award" for his achievement in research.

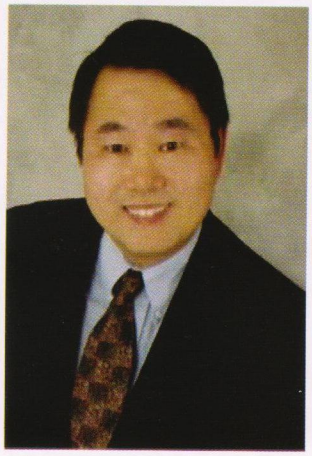
Prof Tatsuya Iso, MD, PhD
Department of Medicine and Biological Science Education and Research Support Center, Gunma University Graduate School of Medicine

He was graduated in 1990 from Gunma University School of Medicine. He continued his study on biochemistry and molecular biology in University of Southern California, USA. After eight years working as professor assistance, now he works as an Associate Professor, Gunma University, Department of Medicine and Biological Science, Education and Research Center. He received awards from an internationally known organization like AHA.

Mas Rizky Anggun Syamsunarno, MD, PhD
Department of Biochemistry & Molecular Biology, School of Medicine, Universitas Padjadjaran

He is a lecturer and staff of Biochemistry and Molecular Biology Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia. He finished his master degree in Postgraduate program Universitas Padjadjaran in 2010 and Doctorate degree in Gunma University-Japan in 2014. Now, he is a post-doctoral fellow in Department of Medicine and Biological Science. He has received award of Excellent Research by Dean of Gunma University in 2012 and scholarship from Japanese Ministry for his study.

Prof Paul M Yen, MD, PhD
Department of Cardiovascular and Metabolic Disorders, Duke-NUS Graduate School of Medicine, Singapore



Paul Michael Yen, an Associate Professor as well as the Director of Department of Cardiovascular and Metabolic Disorders, Duke-NUS Graduate School of Medicine, Singapore, has passion in the study of hormonal regulation of transcription, particularly thyroid hormone (TH). Using the molecular biology and genomic approaches, his laboratory explores whether epigenetic changes such as DNA methylation and histone modifications play a role in positive and negative regulation of transcription, endocrine tumors, long-term suppression of negative feedback by TH, and hormone-responsiveness during aging. His group recently found that Fox01 via SIRT deacetylation to regulate gluconeogenic genes, and they are currently studying this novel regulatory mechanism in greater detail. They also examine the potential beneficial effects and mechanism of TH and non-alcoholic fatty liver disease (NAFLD). His laboratory recent discovery of which TH as other hormones and compounds such as caffeine and epigallocathecin-3-gallate (EGCG) can induce autophagy coupled with increased β-oxidation of fatty acid has suggested novel potential therapeutic strategies for this condition. He also has initiated a clinical study examining whether levothyroxine can ameliorate hepatosteatosis and glucose control in diabetic Asian patients in patients with NAFLD.

Ronny Lesmana, MD, PhD
Department of Physiology, School of Medicine, Universitas Padjadjaran

He is a lecturer and staff of Physiology Department, Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia. After he finished his doctorate degree in Gunma University Japan, he continued his study as post doctoral fellow in Laboratory of Hormonal Regulation, Program in Cardiovascular and Metabolic Disorder, Duke-NUS Graduate Medical School. Although he is young, he has joined a lot of research and has published a lot of papers in international journals, such as "Possible involvement of IGF-1 signaling on compensatory growth of the infraspinatus muscle induced by the supraspinatus tendon detachment of rat shoulder", "Interaction of silencing mediator for retinoid and thyroid receptors with steroid and xenobiotic receptor on multidrug resistance 1 promoter", "Lactational exposure to hydroxylated polychlorinated biphenyl (OH-PCB 106) causes hyperactivity in male rat pups by aberrant increase in dopamine and its receptor", and "Alterations of biochemical marker levels and myonuclear numbers in rat skeletal muscle after ischemia–reperfusion".

Prof Kazuhiko Kuwahara, MD, PhD
Department of Immunology, Aichi Cancer Center Research Institute, 1-1, Kanokoden, Chikusa-ku, Nagoya, Japan

He is a professor and lecturer at Graduate School of Medicine, Kumamoto University, Japan at the Department of Immunology. He has a major role in pioneering and developing the Immunology research in Kumamoto University. Currently, he works as Laboratory Head of Division Immunology Aichi Cancer Center Research Institute, Japan. He received numerous award for his excellent academic performance such as from Novartis Foundation, Koruzumi and Karazawa Medical Foundation. He is also active in writing, and his latest publications are "Pcid2 inactivates developmental genes in human and mouse embryonic stem cells to sustain their pluripotency by modulation of Eid1 stability", "Histopathological evaluation of the diversity of cells susceptible to H5N1 virulent avian influenza virus".

Andri Rezano, MD, PhD
Department of Anatomy and Cellular Biology Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia

Andri Rezano earned his medical doctor and master degree from Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia. He then became lecturer at his almamater, at the Department of Anatomy and Cellular Biology, Faculty of Medicine. He continued his study in Japan where he earned the degree of PhD from School of Medical Sciences, Kumamoto University in 2014. He works on cancer biology (particularly breast cancer) and tries to elucidate functional mRNA export protein involved in transcription coupled DNA repair that maintain our genomic stability. Some of his writings as the first author and co-author had been published at BMC Cancer and Apoptosis journals, respectively.

Herry Herman, MD, PhD
Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia

He is lecturer and staff of Department of Orthopaedic and Traumatology Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia. He finished his doctorate degree in Cancer Pathology and Prevention from Roswell Park Cancer Institute (2000-2005) and Cornell University, New York, USA (2002-2005). After that, he continued his study to become Orthopaedic and Traumatology Specialist in Universitas Padjadjaran, finished in 2013. He is now active in teaching and researching. He is the present Head of Basic Medical Science Postgraduate program Universitas Padjadjaran. He has made a lot of research and books which was published both nationally and internationally. His book chapter title is The Biology of Genomic imprinting.

Edhyana Sahiratmadja, MD, PhD
Department of Biochemistry and Molecular Biology, Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia

Edhyana Sahiratmadja is a staff member of Department of Biochemistry and Molecular Biology, Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia. She earned her Medical Doctor from Nijmegen University, the Netherlands in 1995. Her passion in medical research guided her to pursue her PhD at Leiden University, the Netherlands and finished it in 2007 with dissertation entitled *Innate and Adaptive Host Responses and Their Genetic Controls in Tuberculosis: Studies in Indonesia, a highly TB endemic setting.* She has extensively participated in medical research in tuberculosis and she is a member of the Indonesian TB vaccine consortium. She has written several articles as first author and co-author, published on Indonesian and international peer-reviewed journals, i.e. International Journal of Tuberculosis and Lung Disease, Human Genetics, Infection and Immunity, British Journal of Nutrition, Clinical Infectious Diseases, PLoS Genetics, Tuberculosis, Infection Genetics and Evolution, Nature Genetics.

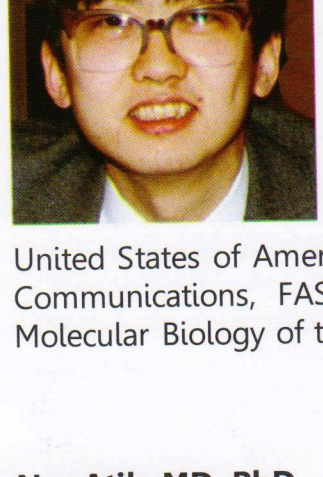
Prof Akira Murakami, PhD
Juntendo University, Tokyo, Japan

Akira Murakami M.D., Ph.D. is a graduate of Juntendo University School of Medicine. He was trained in ophthalmology at Juntendo University Hospital and worked at the National Eye Center of National Institute of Health as a special consultant from 1989, and Bascom Palmer Eye Institute of University of Miami as a research fellow of molecular genetics from 1990. Murakami is a Professor and Chairperson of Department of Ophthalmology, Juntendo University, Tokyo, Japan. He served as head of the WHO Tokyo Collaborating Centre for Prevention of Blindness for the western pacific region. Murakami's specialty is public health ophthalmology and genetics. He recently received the Outstanding Service in Prevention of Blindness Award from the Asia Pacific Academy of Ophthalmology for his significant contribution to PBL.

Arief Sjamsulaksan Kartasasmita, MD, PhD
Department Opthalmology, Cicendo Eye Hospital, School of Medicine
Universitas Padjadjaran, Bandung, Indonesia

He is a lecturer and staff of Opthalmology Department in Cicendo Eye Hospital and School of Medicine Universitas Padjadjaran. He finished his doctrorate degree in Juntendo School of Medicine, Japan and became opthalmologist from Universitas Padjadjaran. He concentrates in vitreo-retina study. Some of his publications are "The Correlation of Nucleus Opacity and Phako Time in Phacoemulsification Surgery", which has been presented in Singapore. He also has a lot of achievement in paper presentation nationally and internationally. Now, he is a Vice Dean of Faculty of Medicine Universitas Padjadjaran and active in teaching, researching, and attending a lot of international courses, such as Human Mutation Detection Training Course in The Netherlands and Short Course on Electrophysiology on Vision in Singapore.

Prof Akihiro Harada, MD, PhD
Department of Cell Biology, Graduate School of Medicine, Osaka University, Japan

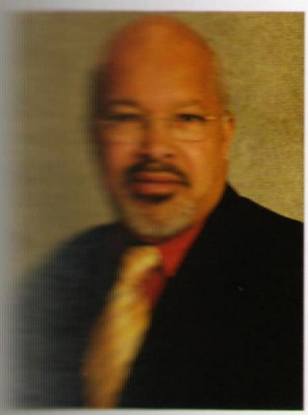


Akihiro Harada is currently professor of Department of Cel Biology, Graduate School of Medicine, Osaka University, Japan. H earned his Medical Doctor and PhD degree from University o Tokyo. Harada is a member of American Society of Cell Biolog Japan Society for Cell Biology, The Japanese Association o Anatomists, Japan Neuroscience Society, and The Molecula Biology Society of Japan. He is recognized for his research o analysis of molecular mechanism of cell polarity. He contribute as author and co-author on some articles that had been publishe on several widely-known journals like Cell Structure and Functio Nature, Proceedings of the National Academy of Sciences of th United States of America, Journal of Cell Science, Digestive Diseases and Sciences, Natu Communications, FASEB journal, Endocrinology, The Journal of Clinical Investigatio Molecular Biology of the Cell, and Traffic.

Nur Atik, MD, PhD
Department of Anatomy & Cellular Biology, School of Medicine, Universitas Padjadjaran

He is a lecturer and staff of Anatomy and Cellular Biology Universitas Padjadjaran. He finished his master degree in postgraduate program, Faculty of Medicine, Universitas Padjadjaran in 2007 and doctorate degree in Osaka University, Japan in 2014. He is now active in teaching and researching. He also got a lot of awards such as 5th Best Scientific Poster Presentation by Universitas Padjadjaran in 2007 and a lot of scholarships and trainings from Indonesian government for his study. He is also active in organizations such as Indonesian Medical Association (IDI), Indonesian Association of Anatomist (PAAI), Biochemical Society, Japanese Society of Developmental Biologist. He has involved in a lot of research, like "PKD1: a role in cell polarity, glucose tolerance, and actin polymerization in vivo?" which has been presented in Amsterdam.

Prof Eric Simoes, PhD
The Children Hospital, University of Colorado, USA

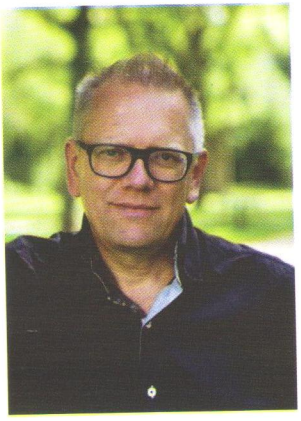


Eric A. F. Simoes is a Professor of Paediatrics at the University of Colorado Denver, School of Medicine, and a Professor of Epidemiology at the Colorado School of Public Health in Denver Colorado. He is the Co-Director of the Mother and Child Initiative of the Center for Global Health at the Colorado School of Public Health, a WHO Collaborating Institution. He received his DCH and MD from the University of Madras, India, in 1982 and 1984 and subsequently obtained his Fellowship in Pediatric Infectious Disease from the University of Colorado, where he works. He has been involved with the Integrated Management of Childhood Illness since its inception in the early 1990's. His research interests focus on the epidemiology and prevention of acute respiratory infections, including RSV, influenza and *Streptococcus pneumoniae*. Specifically he has been involved in understanding the epidemiology and burden of RSV disease both in developing countries and industrialized ones. He has conducted studies in this regard in India, Indonesia, Philippines, Denmark, and USA. In addition he has been involved in studies on the prevention of RSV and its long-term effects in Europe, USA, Indonesia and Japan.

Dwi Agustian, MD, PhD
Department of Epidemiology and Biostatistics, Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia

Dwi Agustian is the recent Head of Department of Epidemiology and Biostatistics Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia. He earned medical doctor degree from Faculty of Medicine, Universitas Padjadjaran. He continued his study at Maastricht University of The Netherlands. In 2014, he received his PhD degree in epidemiology from Colorado School of Public Health, United States. He is an active researcher, with his concentration about lower respiratory tract infections, pneumonia, referral system for maternal care, blindness, and Avian influenza research. He has written some articles as first author and co-author that has been published at Pediatric Research, Pediatric Infectious Disease Journal, Acta Medica Indonesiana, Medical Journal of Indonesia, and Majalah Kedokteran Bandung.

Prof Robert Hofstra, PhD
Department of Clinical Genetics, Erasmus Medical Centre, Rotterdam, Netherlands



He is a professor and lecturer at Erasmus Medical Centre, Rotterdam, Netherlands in Clinical Genetics. He has a major role in pioneering and developing the Clinical Genetics and Pediatric research in Rotterdam University. Currently, he works as a honorary professor in University College London UK, and a full professor of human genetics in Erasmus Medical Centre, Rotterdam, The Netherlands. He received a lot of awards for his excellent academic performance such as from Sophia foundation, NIH Grant, and MRace. He is also active in writing, and some of his publications are "Isolation, characterization, and genetic rescue of enteric nervous system stem cells for use as a novel therapy in Hirschsprung disease", "Analysis of HSCR patient exome sequence data using Zebrafish" (2013), and "A CLMP conditional knockout mouse model for Congenital Short Bowel" (2012). Besides of his activities in teaching, he involves in a lot of prestigious organizations such as Dutch Society of Human Genetics, European Society of Human Genetics, American Society of Human Genetics, and INSIGHT working group.

Danny Halim, MD (PhD Candidate)
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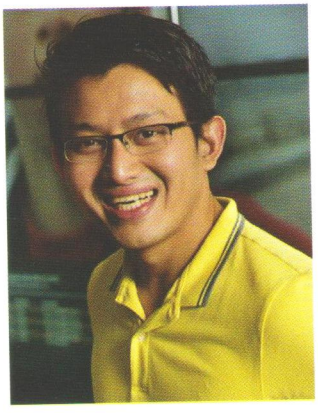

This young researcher from Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia, has showed his passion in research since his early years as medical student. During his study as medical student, he was working in Health Research Unit Faculty of Medicine, Universitas Padjadjaran as an Assistance in Tissue Culture laboratory. He was also working as research apprentice in molecular biology laboratory of Biotech and Research Division with Sanbe. After obtaining his medical doctor degree, he worked in Postgraduate Training in the Department of Cancer Prevention and Control, Roswell Park Cancer Institute, Buffalo, New York, United States. Currently, he is a Ph.D candidate under supervision of Prof. Robert Hofstra in Department of Clinical Genetics, Erasmus Medical Center. Recent distinguished award received was a Jan C. Molenaar award from Sophia foundation for the best presentation of a project to the board of the foundation by a young scientist. He has published a lot of research on international journal. "Stem Cell for Heart Failure-A Scientific Comic" is one of his published books.

OP20

NEXT TO HPV-16, HPV-18 AND HPV-52, HPV-45 IS PREVALENT AMONG CERVICAL CANCER PATIENTS IN HASAN SADIKIN HOSPITAL BANDUNG, INDONESIA

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Background

Cervical cancer, caused by persistent human papillomavirus infection mostly by HPV-16 and HPV-18, can be prevented by HPV vaccination. HPV vaccine available covers these both high-risk genotypes. Study in 3 areas in Indonesia has proposed that HPV-52 need to be included in the vaccination. However, HPV types have been shown to differ according to geographical distribution. Our study aimed to determine the distribution of HPV genotypes that infect cervical cancer patients from Bandung, Indonesia.

Methods

Viral DNA, extracted from randomly chosen cervical cancer and histopathologically classified as squamous cell carcinoma, were genotyped using commercially linear array tests that can detect both high- and low-risk genotypes.

Results and conclusion

The result revealed that of 87 cervical cancer tissue samples genotyped, HPV-16 and HPV-18 infected most of the samples (69% and 57%, respectively), followed by HPV-45 and HPV-52 (24% and 21%, respectively). These high-risk genotypes infected the cervical cancer as a single or multiple infections. We concluded that HPV-16 remains the major HPV infection in squamous cell carcinoma in Bandung, Western Java, Indonesia. The high number of genotypes HPV 45 may be interesting to be further explored and as other group has proposed for HPV-52 in Indonesia, here we also suggest to include HPV-45 in the next generation of HPV vaccine.

Keywords: Cervical cancer, HPV infection, HPV-45, Indonesia