



PROPOSAL

InCoB2019

“Bioinformatics for Precision Medicine”

Genetics Research Centre
Universitas YARSI
2018

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INTERNATIONAL CONFERENCE ON BIOINFORMATICS 2019

INTRODUCTION

The last decade has witnessed escalating popularity of bioinformatics, both in Indonesia and other parts of the world, due to the explosion of the biological data. Although the growth of bioinformatics in Indonesia is a little bit slower than its neighboring countries, many institutions in Indonesia have now set up bioinformatics research groups and incorporated bioinformatics skills and knowledge in their curriculums. Various bioinformatics trainings started to flourish in the country.

Genetics Research Centre of Universitas YARSI has been contributing to accelerate the growth of bioinformatics in Indonesia during the last few years. Working together *Asia Pacific Bioinformatics Network (APBioNet)*, we have organized several seminar and workshop related to bioinformatics, such as Introductory Bioinformatics Workshop 2017; International Symposium on Bioinformatics (InSyB) 2017, a flagship conference of APBioNet dedicated for the students and held for the first time in Indonesia; Bioinformatics Colloquium 2018 and Bioinformatics Workshop Fiesta 2018. These events were well received by scientific communities in Indonesia and neighboring countries.

APBioNet, established in 1998, is a non-profit organization with a main focus on fostering the growth of bioinformatics in Asia Pacific. Its mission, since the very beginning, has been to pioneer the growth and development of bioinformatics awareness, training, education, infrastructure, resources, and research among member countries and economies. APBioNet has more than 20 organizational and 2,000 individual members from over 12 countries in the region, from industry, academia, research, government, investors, and international organizations. Currently, APBioNet is one of the largest bioinformatics association in the region, also one of the oldest. Many of the initiatives and activities have been initiated through its flagship conference, the International Conference on Bioinformatics (InCoB)

InCoB is a flagship conference of APBioNet, which was initiated in Bangkok, in 2002. For the last 18 years, InCoB has been organized in various countries in Asia Pacific. It has grown in its second decade to become one of the largest bioinformatics conferences in the Asia-Pacific region that attract many practitioners from both life sciences and computer backgrounds. However, Indonesia has never been appointed as the host for InCoB (Table 1). Since 2016, Universitas YARSI has proposed to APBioNet to bring InCoB to Indonesia. Finally, in 2018 Indonesia was appointed as the host of InCoB 2019. This appointment represents the confidence and trust for Indonesia that must be acknowledged and supported together by the government, scientific communities and industries in Indonesia.

The InCoB 2019 is co-organized by Universitas YARSI and APBioNet, and supported by *Masyarakat Bioinformatika dan Biodiversitas Indonesia (MABBI)*, *International Society for*

Computational Biology (ISCB), *Global Organisation for Bioinformatics Learning, Education and Training* (GOBLEt) and *Southeast Asia Pharmacogenomics Research Network* (SEAPharm).

Table 1. List of Previous InCoBs

Year	Venue	Website
InCoB 2018	India	• www.incob2018.org
InCoB 2017	Shenzen, China	• http://datamining-web.it.uts.edu.au/bioinformatics/
InCoB 2016	Singapore	• https://incob.apbionet.org/incob16/
InCoB 2015	Tokyo, Japan	• http://www.jsbi.org/giw-incob2015/
InCoB 2014	Sydney, Australia	• http://incob2014.org/
InCoB 2013	Taicang, China	• http://ictbi.imed-cn.org/incob2013/
InCoB 2012	Bangkok, Thailand	• http://www.incob2012.org
InCoB 2011	Kuala Lumpur, Malaysia	• http://www.incob2011.org
InCoB 2010	Tokyo, Japan	• http://incob10.hgc.jp/
InCoB 2009	Singapore	• http://incob.apbionet.org/incob09
InCoB 2008	Taipei, Taiwan	• http://incob.binfo.org.tw
InCoB 2007	HongKong & Vietnam	• http://incob.apbionet.org/incob07/index.shtml
InCoB 2006	Delhi, India	• http://www.conferenceindia.org/Incob/
InCoB 2005	Busan, South Korea	• http://www.ksbi.org/bioinfo2005
InCoB 2004	Auckland, New Zealand	• http://www.jevon.org/incob/
InCoB 2003	Penang, Malaysia	• Not available
InCoB 2002	Bangkok, Thailand	• Not available

InCoB 2019 will be held from 9-12 September 2019. This year, it will take theme “*Bioinformatics for Precision Medicine*” and will include keynote talks, panel discussions, workshop and software demo, oral and poster sessions. The conference will be preceded by *The Global Organisation for Bioinformatics Learning, Education & Training* (GOBLET) Annual General Meeting and *South East Asian Pharmacogenomics Research Network* (SEAPharm) Meeting. The conference will also be co-located with *The Genomic Medicine Conference* (GMC), a flagship conference of *Genetics Research Centre - Universitas YARSI*. These four events promise a rare scientific discourse and a scientific exchange at the global level.

GOBLET is world level organization for bioinformatics learning, education and training. This organization set international standard for bioinformatics education, develop curriculums

and training materials, and equip bioinformatics trainers worldwide. GOBLET was co-founded by the leaders of 10 international organizations and associations (EMBnet, ISCB, APBioNet, ASBCB, SolBio, ISB, NBIC, SeqAhead, EBI, and BTN) with the goal to harmonize bioinformatics learning, education and trainings worldwide. Bringing GOBLET AGM to Indonesia would increase the chance and exposure of Indonesian communities to the world class bioinformatics experts and high-quality bioinformatics resources developed by GOBLET.

SEAPharm is a Southeast Asia research network in pharmacogenetics and personalized medicine. This network includes researchers and scientists from Singapore, Malaysia, Vietnam, Philippine, Brunei, Japan and Korea that routinely meet each year. This year, the annual meeting of SEAPharm will be held in Indonesia, hosted together with Genomic Medicine Conference. These activities hopefully could foster the growth of pharmacogenetics and personalized medicine in Indonesia.

InCoB and all its satellite events aim to increase research capacity, scientific dissemination, collaboration and publication at international level in bioinformatics- and genetics-related fields; to accelerate the knowledge exchange and technology transfer among delegates; and to expand network and strengthen collaboration between societies, both at local and global level.

PROGRAM

InCoB 2019 and all its co-located events will take place from 9-12 September 2019 and will include keynote talks, panel discussions, workshop and software demo, oral and poster sessions. The whole activities will be concentrated at Universitas YARSI, Jakarta, Indonesia.

The theme of InCoB 2019 is “**Bioinformatics for Precision Medicine**”. InCoB 2019 is interested in all areas of bioinformatics and computational biology including but not limited to:

- Big data in biology: analytics, machine learning methods and data sets
- Bioimaging
- Bioinformatics applications
- Bioinformatics models, methods and algorithms
- Biological sequence analysis
- Bio-ontology and semantics
- Clinical bioinformatics
- Data mining and biomedical knowledge discovery
- Database management
- Drug design and discovery
- Immunoinformatics
- Medical and health informatics
- Metabolomics
- Metagenomics
- Microarray analysis
- Molecular evolution and phylogeny
- Next generation sequencing
- Population genetics
- Proteomics
- Scalable data storage
- Structural bioinformatics
- Synthetic Biology

- Protein interactions and diseases
- Protein folding and conformational diseases
- Genetics of cell differentiation and reprogramming
- Genome and proteome manipulation
- Genomics
- System Biology
- Translational Bioinformatics
- Workflow and knowledge management
- High through-put omics and imaging platforms

Below are keynote speakers for InCoB 2019:

1. Prof Sir Munir Pirmohamed, MB ChB (Hons), PhD, FRCP, FRCP(E), FBPhS, FMedSci. University of Liverpool

Prof. Sir Munir Pirmohamed is a global leader in pharmacogenomics and personalized medicine. He has received many awards for his works, including Knights Bachelor from the Queen of England in 2015. Detailed information about him can be found [here](#).

2. Prof Katsushi Tokunaga, The University of Tokyo

He is a professor in genetics and the director of Japan Society of Human Genetics. Detailed information about him can be read [here](#).

3. Prof Christine Orengo, University College London

Prof. Christine Orengo is a professor of bioinformatics who is famous for his work in the field of protein structure, specifically the CATH database that he developed. More about her [here](#).

4. Dr Denis Bauer. CSIRO Australia

Dr. Denis Bauer is an internationally recognised expert in machine learning, specifically in processing big genomic data to help unlock the secrets in human DNA - secrets that could change the course of human history. Her achievements include developing an open-source, artificial intelligence-based search engine in the cloud that helps researchers pinpoint the exact genes they need to study or edit to cure disease. More about her, visit [this site](#).

5. Prof. Stuart C. Ray, MD, FACP, FIDSA. John Hopkins Medicine

Prof. Stuart C. Ray, MD, FACP, FIDSA serves as Vice Chair of Medicine for Data Integrity and Analytics and is a Professor in the Division of Infectious Diseases within the Department of Medicine, with secondary appointments in Viral Oncology and Health Sciences Informatics. He is Scientific Director of the JHU Laboratory for Integrated NanoDiagnostics, directs the virology laboratory and is a clinical investigator in the Center for Viral Hepatitis Research in the Division of Infectious Diseases. More information about him can be found on [this site](#).

6. Prof Adrian Hill, Oxford University

Professor Hill is Director of the Jenner Institute, which focuses on designing and developing vaccines for infectious diseases prevalent in developing countries, such as HIV/AIDS, malaria and tuberculosis. He also heads a group at the Wellcome Trust Centre for Human Genetics which studies genetic susceptibility factors for common bacterial diseases. He is a passionate believer in the power of molecular medicine to

design and deliver new health care interventions that will improve the lives of the poorest billion in sub-Saharan Africa and elsewhere. Find out more about him [here](#).

7. Dr Eija Korpelainen, C

Dr. Eija Korpelainen works currently as a Product manager at CSC - IT Center for Science. Being the national supercomputing centre, CSC provides bioinformatics services for all the universities and research institutes in Finland. Eija has long experience in enabling life scientists to analyze high-throughput data. In order to enable biologists to analyze data more efficiently, her team has developed the open source analysis software Chipster which is used worldwide. Dr. Eija will speak on behalf of GOBLET. More information about her can be found [here](#).

The target audience is around 400 people from across the globe, divided into the following categories:

1. Students (diplome, undergraduate and postgraduate)
2. Government agencies
3. Industries and professionals

The photos below were taken during InCoB 2018 in India (Figure 1).



Figure 1. InCoB 2018 in Delhi, India

InCoB attracts so many scientists and researchers from all over the world, because selected papers are published in top tier journals, such as **BMC Bioinformatics**, **BMC Genomics**, **BMC Systems Biology**, **BMC Medical Genomics**, **GigaScience**, **Bioinformatics**, **Computational Biology and Chemistry (CBAC)** and **PeerJ** (Figure 2).

Figure 2. Selected papers of InCoB 2017 published in BMC Bioinformatics.

Committee

Steering Committee

Prof. dr. Jurnalnis Uddin, P.A.K.
 Prof. dr. Abdul Salam M. Sofro, Ph.D., Sp.KT
 Prof. dr. Fasli Jalal, Sp.GK, Ph.D.
 Assoc. Prof. Dr. Asif Khan
 Dr. Tripanjiasih Susmiarsih, M.Biomed, PA

Program Committee Chairs

Prof. Christian Schönbach, PhD
 Hilyatuz Zahroh, MPKim, MSi
 Assoc. Prof. Dr. Mohammad Asif Khan
 Rika Yuliwulandari, PhD
 Prof. Dr. Shandar Ahmad
 Prof. Shoba Ranganathan, PhD

Local Organising Committee

Chair : dr. Rika Yuliwulandari, M.Sc., Ph.D.
 Vice Chair : Hilyatuz Zahroh, M.PKim, M.Si
 Scientific : Kinasih Prayuni, M.Si
 Nova Eka Diana

Treasurer	: Riski Gemara
Secretariat	: Dr. Dini Widianti Intan Razari, S.Si Silviatun Nihayah
Registration	: Dr. Juniarti Faradyna, S.Ti Meifani Saputri, ST
Event	: Triayu Septiani, M.Tp. Nurmaya, M.Ti.
Logistic	: Pendrianto, M.Si. Dedy Suseno
Documentation	: Slamet Robani, S.Ti.
Marketing	: Indah Permata Yuda, M.Si
Sponsorship	: Dr. Sophianita : Dr. Ndaru Andri
IT department	: Muhammad Fathurrahman, M.Kom. Ummi Azizah
F and B	: Dr. Ndaru Andri Nelly Ulfah

Supporting Bodies

InCoB 2019 is supported and endorsed by:

- International Society of Computational Biology (ISCBs)
- Global Organisation for Bioinformatics Learning, Education and Training (GOBLET)
- Southeast Asia Pharmacogenomics Research Network (SEAPharm)
- Masyarakat Bioinformatik dan Biodiversitas Indonesia (MABBI)

AGENDA

WHOLE AGENDA
InCoB 2019, GOBLET AGM 2019, GMC 2019 and SEAPharm Meeting 2019
Universitas YARSI, Jakarta, Indonesia, 9-12 September 2019

September 9, 2019			September 10, 2019			September 11, 2019	September 11, 2019	September 12, 2019	
TIME	GOBLET AGM	SEAPharm Meeting	GOBLET AGM day 2	InCoB day 1	Pharmacogenomics seminar (GMC-SEAPharm)	GOBLET AGM day 3	InCoB day 2	InCoB day 3	
9:00-9:30	GOBLET AGM 2019	SEAPharm Meeting 2019	Inauguration			GOBLET AGM 2019 continues	Special session: Bioinformatics in Indonesia	Special session: TBA	
9:30-10:15			Keynote talk: Sir Munir Pirmohammed				Keynote talk: Christine Orengo	Keynote talk: Stephan Schuster	
10:15-10:30			Break				Break	Break	
10:30-11:15			Keynote talk: Katsushi Tokunaga				Keynote talk: xxx	Invited talk: xxx	
11:15-12:00			Keynote talk: GOBLET representative				Keynote talk: Denis Bauer	InCoB parallel session	
12:00-1:00			Lunch & Poster viewing			Lunch	Lunch & Poster viewing	Lunch & Poster viewing	
1:00-1:45				Keynote talk: Prof Stuart Ray	Keynote Talk: Prof Jae Gook Shin		GOBLET Workshop	InCoB parallel session	Highlight tracks
1:45-2:30				GOBLET AGM 2019 continues	InCoB parallel session	Prof Wasun Chantratita	GOBLET workshop	InCoB parallel session	Keynote talk: Adrian Hill

2:30-2:45			Break			Break	Break	Break
2:45-3:30			GOBLET AGM 2019 continues	InCoB parallel session	GMC-SEAPharm parallel session	GOBLET workshop	Mini workshop/parall el session	Announcements & Awards
			GOBLET AGM 2019 continues	InCoB parallel session	GMC-SEAPharm parallel session	GOBLET workshop	Mini workshop/parall el session	InCoB 2019 Closing remarks
3:30-3:45			Break	Break	Break	Break	Break	
3:45-4:15			GOBLET AGM 2019 continues	Invited talk: xxx	GMC-SEAPharm parallel session	GOBLET workshop	Software demos	
4:15-4:45				InCoB parallel session	GMC-SEAPharm parallel session	GOBLET workshop	InCoB parallel session	
4:45-5:00	Wrap up	InCoB parallel session	Wrap up	Wrap up	APBioNet Annual Meeting			
5:20-7:00	GOBLET + SEAPharm Dinner	Gala Dinner for all						

SPONSORSHIP

Being one of the most prestigious and multi-disciplinary conferences in the area of Biomedical Sciences, the annual gathering of the International Conference on Bioinformatics (InCoB) has attracted the top bioinformaticians and interdisciplinary researchers from all over the world to showcase and discuss the most recent achievements and discoveries. We believe that your participation, as sponsors, for InCoB will allow your company to gain access to the large number of scientific participants, ranging from eminent experts to emerging scientists worldwide. This will be an excellent platform and opportunity to communicate your technology and products to leading scientific researchers, to recruit talented research personnel, and to network with delegates and other sponsors.

Sponsors can expect to see delegates during lunch, the morning and afternoon tea each day and the official welcome reception on the opening night. Exhibitors can avail to the following opportunities:

- Build new and strengthen existing relationships
- Increase brand awareness
- Demonstrate new devices and services
- Acquire instant market feedback
- Obtain first-hand market knowledge of developments in your industry
- Create prospective databases and direct sales leads

Sponsor Packages

1. Diamond Sponsor (IDR 200,000,000)

- Logo and recognition in the program book as Diamond sponsor
- Logo during the event (banners, backdrop, standing banner and screen)
- Verbal recognition on the speaker podium
- Recognition during the Gala Dinner
- Logo and recognition as Diamond sponsor before and after the event (website, flyers, posters, social media and e-mail).
- One-page full company advertising, full color, premium paper, in the program book
- Conference passes for 6 people
- Keynote speaker with non-commercial scientific theme (40 minutes)
- Exhibition booth for 4 days
- Company flyers in seminar kit bags

2. Platinum Sponsor (IDR 150,000,000)

- Logo and recognition in the program book as Platinum sponsor
- Logo during the event (banners, backdrop, standing banner and screen)
- verbal recognition on the speaker podium
- Recognition during lunch

- Logo and recognition as Platinum sponsors before and after the event (website, flyers, posters, social media and email)
- Full-page company advertising, full color, standard paper, in the program book
- Conference passes for 5 people
- Keynote speakers with non-commercial scientific themes (30 minutes)
- Exhibition booth for 4 days
- Company flyers in seminar kit bags

3. Gold Sponsor (IDR 100,000,000)

- Logo and recognition in the program book as Gold sponsor
- Logo during the event (banners, backdrop, standing banner and screen)
- Verbal recognition on the speaker podium
- Recognition during coffee break
- Logo and recognition as Gold sponsors before and after the event (website, flyers, posters, social media and email)
- Half page company advertisement, full color, standard paper, in the program book
- Conference passes for 3 people
- Presentation at industry-specific session (20 minutes)
- Exhibition booth for 4 days
- Company flyers in seminar kit bags

4. Silver Sponsor (IDR 50.000.000)

- Logo and recognition in the program book as Silver sponsor
- Logo during the event (banners, backdrop, standing banner and screen)
- verbal recognition on the speaker podium
- Logo and recognition as Silver sponsors before and after the event (website, flyers, posters, social media and e-mail).
- Conference passes for 2 people
- Exhibition booth for 4 days
- Company flyers in seminar kit bags

5. Exhibition Package (IDR 20,000,000)

- Logo and recognition in the program book as exhibitors
- Logo and recognition as sponsors before and after the event (website, flyers, posters, social media and e-mail).
- Exhibition booth for 3 days
- Conference passes for 2 people

6. Bronze sponsor (IDR 10,000,000)

- Logo and recognition in the program book as bronze sponsor
- Logo and recognition as sponsors before and after the event (website, flyers, posters, social media and e-mail).
- Conference pass for 1 person