

**The 17<sup>th</sup>**  
**Asian Bioinformatics Consortium**  
**(ABC) Symposium**  
**August 22<sup>nd</sup> to 23<sup>rd</sup>, 2019**

**Gui' an, Guizhou Province, China.**

**Program Version3.0**  
**(August 14<sup>h</sup>, 2019)**

The Asian Bioinformatics Consortium (ABC) Symposium (formerly known as the Japan-China-Korea Bioinformatics Training Course or Symposium) started in 2002 which aims at promoting bioinformatics research activity in the three Asian countries through scientific exchange, training future talents and exploring new translational biomedical strategies to improve human health.

## History



## Time

<b>Registration</b>	August 21st, 2019
<b>Symposium</b>	August 22nd to 23rd, 2019
<b>Departure</b>	August 24th, 2019

## Venue

Gui'an New Area, Guiyang, Guizhou Province, China.



## Local Organizers and Sponsors

- Shanghai Institute of Nutrition and Health (SINH), CAS
- Bio-Med Big Data Center, SINH, CAS
- Guizhou Science and Technology Information Center
- Guizhou Normal University
- Shanghai Center for Bioinformation Technology
- Shanghai Society for Bioinformatics
- Gui An Bio-Med Big Data Center, SIBS, CAS

## Attendants

- One keynote speaker and nine speakers from each country, 30 in total.
- A keynote speaker from each country will give 35-min presentation.
- Remaining nine speakers from each country will give 20-min presentation.

## Meeting Place

Conference Center, Guizhou Normal University (Hua Xi Campus)

(贵州师范大学, 花溪大学城, 会议中心)

## Accommodation



Hotel: Wan Yi Panorama Hotel (万宜丽景酒店: 贵阳市花溪区清溪路 111 号)

Address: No.111, Qing Xi Road, Hua Xi District, Guiyang, Guizhou Province.

Tel: 86-0851-83962888


## Cost and Facility

The attendance fee is free. Speakers should cover their own travel expenses.

- Three days' lodging will be provided by Bio-Med Big Data Center of Shanghai Institute of Nutrition and Health of CAS including August 21st, 22nd, 23rd.

## Invited Speakers

 <b>China</b>		
<b>Chen Runsheng</b>	Professor, Institute of Biophysics, CAS	<b>Topic:</b> <b>Noncoding sequences of genome and non coding RNA.</b>
<b>Zhao Guoping</b>	Professor, Institute of Plant Physiology and Ecology, CAS.	<b>Topic:</b> <b>Strive for international collaboration on the challenge of Bio-medical data — — From Genomics and through Biomes</b>
<b>Li Yixue</b>	Professor, CAS-MPG Partner Institute for Computational Biology, Shanghai Institute of Nutrition and Health, CAS.	/
<b>Xie Lu</b>	Professor, Shanghai Center for Bioinformation Technology.	<b>Topic:</b> <b>Gene expression and proteome landscape of Chinese HCC reveals prognostic determinants and therapeutic targets</b>
<b>Wang Zefeng</b>	Professor, CAS-MPG Partner Institute for Computational Biology, Shanghai Institute of Nutrition and Health, CAS.	<b>Topic:</b> <b>Increasing the human genome complexity at the RNA levels</b>
<b>Shen Tie</b>	Associate Professor, Guizhou Normal University	<b>Topic:</b> <b>Fluxomics: Big data for synthetic biology</b>
<b>Lv Hui</b>	Professor, Shanghai Jiao Tong University	<b>Topic:</b> <b>Joint analysis framework for multiomics and multidisease data</b>
<b>Wei Chaochun</b>	Professor, Shanghai Jiao Tong University	<b>Topic:</b> <b>HUPAN: a human pan-genome analysis pipeline</b>
<b>Shi Tieliu</b>	Professor, East China Normal University	<b>Topic:</b> <b>Deep Learning-Based Multi-Omics Data Integration Reveals Two Prognostic Subtypes in</b>

		<b>High-Risk Neuroblastoma</b>
<b>Wang Sijia</b>	Professor, CAS-MPG Partner Institute for Computational Biology, Shanghai Institute of Nutrition and Health, CAS.	<b>Topic:</b> <b>Human physical traits and the phenome research</b>
<b>Liu Qi</b>	Professor, Tongji University	<b>Topic:</b> <b>Initi-IO: An Integrative and Intelligentized Immuno-Oncology Study Platform</b>
 <b>Japan</b>		
<b>Gojobori Takashi</b>	Professor, KAUST, Saudi Arabia & NIG	<b>Topic:</b> <b>Digital Health, AI, and Biomedical Genomics</b>
<b>Saitou Naruya</b>	Professor, National Institute of Genetics	<b>Topic:</b> <b>Introduction of Yapanesean Genome Project with special reference to modern human genome analyses</b>
<b>Yoko Satta</b>	Professor, SOKENDAI Hayama	<b>Topic:</b> <b>Detecting signals of positive selection by two dimensional site frequency spectrum (2DSFS): a case study of schizophrenia related SNPs</b>
<b>Nakamura Yasukazu</b>	Professor, National Institute of Genetics	<b>Topic:</b> <b>Chromosome-scale assemblies are coming back: DB updates and future plan</b>
<b>Ituro Inoue</b>	Professor, National Institute of Genetics	<b>Topic:</b> <b>Viruses in the planet</b>
<b>Tadashi Imanishi</b>	Professor, Okai University Medical School	<b>Topic:</b> <b>Bioinformatics for the diagnosis of infectious diseases</b>
<b>Kosuke Hanada</b>	Associate Professor, Kyushu Technology University	<b>Topic:</b> <b>The origin and evolution of Japanese cultivated radishes</b>
<b>Masatoshi Matsunami</b>	Assistant Professor,	<b>Topic:</b>

	University of the Ryukyus Medical School	<b>A comprehensive reference transcriptome resource for the Iberian ribbed newt <i>Pleurodeles waltl</i>, an emerging model for developmental and regeneration biology</b>
<b>Hideaki Kanzawa</b>	Staff Scientist, National Museum of Science and Nature	<b>Topic: History of Yaponeseans inferred from ancient Yaponesean genome sequences</b>
<b>Kae Koganebuchi</b>	Specially appointed assistant professor, University of the Ryukyus Medical School	<b>Topic: Demographic history of the Ryukyu Islanders inferred from whole-genome sequencing</b>
 <b>Korea</b>		
<b>Kim Sanguk</b>	Professor, Pohang University of Science and Technology	<b>Topic: Evolution of functional modules and regulatory networks: Understanding genotype-phenotype relationship</b>
<b>Park Ji Hwan</b>	Senior Researcher, Korean Bioinformation Center	<b>Topic: Transcriptomic and proteomic approaches to identify regulatory NAC network of Arabidopsis leaf senescence</b>
<b>Choi Sun Shim</b>	Professor, Kangwon National University	<b>Topic: Functional relevance of first intron revealed by enrichment of epigenetic modification signals</b>
<b>Lee Younghee</b>	Assistant Professor, University of Utah, Asia Campus	<b>Topic: Alternative splicing and human diseases</b>
<b>Rhee Je-Keun</b>	Assistant Professor, Pusan National University	<b>Topic: Genomic and epigenomic data analysis using probabilistic evolutionary learning</b>

<b>Park Kiejung</b>	Specially Employed Professor, Sangmyung University	<b>Topic:</b> Development of a prediction system for positively selected genes against massive orthologous groups
<b>Choe Yong-Kyung</b>	Professor, Institut Pasteur Korea	<b>Topic:</b> Institut Pasteur Korea: role and works
<b>Choi Inhee</b>	Senior Researcher, Institut Pasteur Korea	<b>Topic:</b> Identification of TB Drug Targets from NGS
<b>Jeong Choongwon</b>	Assistant Professor, Seoul National University	<b>Topic:</b> The genetic history of admixture across inner Eurasia
<b>Hwang Seungwoo</b>	Principal Investigator, Korean Bioinformation Center	<b>(Poster presentation only)</b> Genome-wide DNA methylation profile of Korean CLL patients

## Program








Talk time for keynote speakers is 35 min. Talk time for other speakers is 20min




<b>Registration: Wednesday, August 21st , 2019</b> <b>Wan Yi Panorama Hotel.</b>	
13:00-18:00	Registration at Wan Yi Panorama Hotel.
18:30-20:00	Welcome Reception at Wan Yi Panorama Hotel.

<b>Day 1: Thursday, August 22<sup>nd</sup>, 2019</b> <b>Conference Center, Guizhou Normal University (Hua Xi Campus).</b>		
08:50-09:00	Introduction	Li Yixue & Xie Lu
<b>Session 1: Chaired by Wang Zefeng</b>		
09:00-09:35	<b>Keynote Talk 1:</b> <b>Noncoding sequences of genome and non coding RNA.</b>	 <b>Chen Runsheng</b> Institute of Biophysics, CAS
09:35-10:10	<b>Keynote Talk 2:</b> <b>Strive for international collaboration on the challenge of Bio-medical data—— From Genomics and through Biomes</b>	 <b>Zhao Guoping</b> Institute of Plant Physiology and Ecology, CAS
10:10-10:30	<b>Talk 1: Detecting signals of positive selection by two dimensional site frequency spectrum (2DSFS): a case study of schizophrenia related SNPs</b>	 <b>Yoko Satta</b> SOKENDAI Hayama
10:30-10:50	<b>Talk 2: Joint analysis framework for multi-omics and multi-disease data</b>	 <b>Lv Hui</b> Shanghai Jiao Tong University
10:50-11:10	<b>Talk 3: Institut Pasteur Korea: role and works</b>	 <b>Choe Yong-Kyung</b> Institut Pasteur Korea
11:10-11:30	<b>Talk 4: Deep Learning-Based Multi-Omics Data Integration Reveals Two Prognostic Subtypes in High-Risk Neuroblastoma</b>	 <b>Shi Tieliu</b> East China Normal University
11:50-13:00	Lunch at Howard Johnson Qunsheng Plaza Guizhou	
13:10-13:30	Taking Group Picture & Posters Preparation	
<b>Session 2: Chaired by Yixue Li</b>		
13:35-14:10	<b>Keynote Talk 3:</b>	 <b>Gojobori Takashi</b>



	<b>Digital Health, AI, and Biomedical Genomics</b>	KAUST, Saudi Arabia & NIG
14:10-14:30	<b>Talk 5: Transcriptomic and proteomic approaches to identify regulatory NAC network of Arabidopsis leaf senescence</b>	 <b>Park Ji Hwan</b> Korean Bioinformation Center
14:30-14:50	<b>Talk 6: Increasing the human genome complexity at the RNA levels</b>	 <b>Wang Zefeng</b> Shanghai Institute of Nutrition and Health, CAS.
14:50-15:10	<b>Talk 7: Alternative splicing and human diseases</b>	 <b>Lee Younghee</b> University of Utah, Asia Campus
15:10-15:30	<b>Talk 8: A comprehensive reference transcriptome resource for the Iberian ribbed newt Pleurodeles waltl, an emerging model for developmental and regeneration biology</b>	 <b>Masatoshi Matsunami</b> University of the Ryukyus Medical School
15:30-16:00	Tea Break	
<b>Session 3: Chaired by Lv Hui</b>		
16:00-16:20	<b>Talk 9: HUPAN: a human pan-genome analysis pipeline</b>	 <b>Wei Chaochun</b> Shanghai Jiao Tong University
16:20-16:40	<b>Talk 10: The genetic history of admixture across inner Eurasia</b>	 <b>Jeong Choongwon</b> Seoul National University
16:40-17:00	<b>Talk 11: History of Yaponeseians inferred from ancient Yaponeseian genome sequences</b>	 <b>Hideaki Kanzawa</b> National Museum of Science and Nature
17:00-17:20	<b>Talk 12: Development of a prediction system for positively selected genes against massive orthologous groups</b>	 <b>Park Kiejung</b> Sangmyung University
17:20-17:40	<b>Talk 13: Demographic history of the Ryukyu Islanders inferred from whole-genome sequencing</b>	 <b>Kae Koganebuchi</b> University of the Ryukyus Medical School
18:40-20:10	Dinner at Wan Yi Panorama Hotel, 6 <sup>th</sup> Floor	
20:30-21:30	Discussion Meeting about next year's Bioinformatics Symposium (Invited lecturers), <b>Azalea Hall</b> (杜鹃厅) 8 <sup>th</sup> Floor at Wan Yi Panorama Hotel	

Day 2: Friday, August 23 <sup>rd</sup> , 2019 Conference Center, Guizhou Normal University (Hua Xi Campus).		
<b>Session 4: Chaired by Xie Lu</b>		
08:55-09:30	<b>Keynote Talk 4: Evolution of functional modules and regulatory networks: Understanding genotype-phenotype relationship</b>	 <b>Kim Sanguk</b> Pohang University of Science and Technology
09:30-09:50	<b>Talk 14: Human physical traits and the phenome research</b>	 <b>Wang Sijia</b> Shanghai Institute of Nutrition and Health, CAS.
09:50-10:10	<b>Talk 15: Functional relevance of first intron revealed by enrichment of epigenetic modification signals</b>	 <b>Choi Sun Shim</b> Kangwon National University
10:10-10:30	<b>Talk 16: Genomic and epigenomic data analysis using probabilistic evolutionary learning</b>	 <b>Rhee Je-Keun</b> Pusan National University
10:30-10:50	<b>Talk 17: Viruses in the planet</b>	 <b>Ituro Inoue</b> National Institute of Genetics
10:50-11:10	<b>Talk 18: The origin and evolution of Japanese cultivated radishes</b>	 <b>Kosuke Hanada</b> Kyushu Technology University
11:30-12:50	Lunch at Howard Johnson Qunsheng Plaza Guizhou	
13:10-13:40	Poster Presentation 2	
<b>Session 4: Chaired by Wang Sijia</b>		
13:40-14:00	<b>Talk 19: Introduction of Yaponesian Genome Project with special reference to modern human genome analyses</b>	 <b>Saitou Naruya</b> National Institute of Genetics
14:00-14:20	<b>Talk 20: Initi-IO: An Integrative and Intelligentized Immuno-Oncology Study Platform</b>	 <b>Liu Qi</b> Tongji University
14:20-14:40	<b>Talk 21: Identification of TB Drug Targets from NGS</b>	 <b>Choi Inhee</b> Institut Pasteur Korea
14:40-15:00	<b>Talk 22: Bioinformatics for the diagnosis of infectious diseases</b>	 <b>Tadashi Imanishi</b> Okai University Medical School

15:00-15:20	Tea Break	
15:20-15:40	<b>Talk 23: Fluxomics: Big data for synthetic biology</b>	 <b>Shen Tie</b> Guizhou Normal University
15:40-16:00	<b>Talk 24: Chromosome-scale assemblies are coming back: DB updates and future plan</b>	 <b>Nakamura Yasukazu</b> National Institute of Genetics
16:00-16:20	<b>Talk 25: Gene expression and proteome landscape of Chinese HCC reveals prognostic determinants and therapeutic targets</b>	 <b>Xie Lu</b> Shanghai Center for Bioinformation Technology
16:20-16:30	Ending Remark	
18:00-19:40	Dinner at Wan Yi Panorama Hotel, 6 <sup>th</sup> Floor. ( If the participants have their own arrangement and do not need to take dinner in the hotel, please inform us in advance)	

**Day 3: Saturday, August 24<sup>th</sup>, 2019 Check-out  
Wan Yi Panorama Hotel.**

07:00-12:00	<b>Check-out at Wan Yi Panorama Hotel</b>	
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## Travelling Guidance



We will arrange the pick-up at the airport for participants.

If someone need to go to the hotel by himself or herself, travelling by taxi is highly recommended than any other ways.

A single trip from Guiyang Longdongbao International Airport to Wan Yi Panorama Hotel takes 50 minutes and costs around 75 RMB.

Please contact Ms. HE Qinwen if you need any help during the travelling.



Wan Yi Panorama Hotel is about 10 kilometers from the Conference Center in Guizhou Normal University (Hua Xi Campus) .

A shuttle bus will take all the participants to the conference center on 22<sup>nd</sup> and 23<sup>rd</sup> morning and take everyone back to the hotel after the symposium.



This is a guidance map of Guizhou Normal University (Hua Xi Campus).  
The conference center is located in the blue circle.

## Shuttle Bus

Date	Departure Time	Start & Terminal
August 22nd	08:00	Wan Yi Panorama Hotel——Conference Center in Guizhou Normal University (Hua Xi Campus)
August 22nd	18:00	Conference Center in Guizhou Normal University (Hua Xi Campus) ——Wan Yi Panorama Hotel
August 23rd	08:10	Wan Yi Panorama Hotel——Conference Center in Guizhou Normal University (Hua Xi Campus)
August 23rd	16:45	Conference Center in Guizhou Normal University (Hua Xi Campus) ——Wan Yi Panorama Hotel
August 23rd	20:00	Wan Yi Panorama Hotel——Guiyang Longdongbao International Airport

## Warm Reminder

1. The hotel check-in time is 14:00 and check-out time is no later than 12:00.
2. We'll pay for room costs (breakfasts included) . Other expenses including mini bar, laundry, and call, etc. would be kindly paid by yourself.
3. The internet access is free in the hotel room. Each room has its own wifi which

username will be the room number.

4. We recommend that all participants should take out the travel insurance to cover themselves against accident or illness.

## Contact

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