International Summer School Human Health and Life Sciences

Aug 1st-Aug 14th, 2022

Harbin Institute of Technology, Harbin, P.R.China

About Program

The first Human Health and Life Sciences Summer School International program will run from July 30 to August 14 in 2022 organized by School of Life Sciences and Technology. This program offers a wide variety of English taught courses such as "the physiology and pharmacology of sleep". We have invited 20 experts with outstanding achievements in the field of lipid metabolism regulation and disease, drosophila neuroscience and so on--- Academician Wang Xiaodong of the American Academy of Sciences, Academician Chen Xiongbiao of the Canadian Academy of engineering, Academician Wang Changyong of the Eurasian Academy of Sciences, as well as scholars from well-known institutions at home and abroad, such as the Chinese University of Hong Kong, the University of Saskatchewan in Canada, Columbia University in the United States, the University of Michigan, the University of Minnesota, the University of Southampton in the United Kingdom, Gwangju University of science and technology in South Korea, Hanyang University, and the University of Tsukuba in Japan Scholars to give short courses and lectures.

About Faculties



Wang Xiaodong, Ph.D.

 ◆ Academician of the National Academy of Sciences of the United States, foreign academician of the Chinese Academy of Sciences, director of the Beijing Institute of life sciences, and founder of Baiji Shenzhou (Beijing) Biotechnology Co., Ltd.



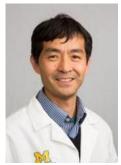
Chen Xiongbiao, Ph.D.

Academician of CAE, Professor of Biomedical Engineering Mechanical,
Biomedical at the University of Saskatchewan.



Wang Changyong, Ph.D.

• Academician of the Eurasian Academy of Sciences, deputy director of the Institute of military cognition and brain science, Academy of military medicine.



Liangyou Rui, Ph.D.

• Louis G.D' Alecy Collegiate Professor of Physiology Professor, Molecular and Integrative Physiology Professor, Internal Medicine, Medical School.



Michael Lazarus, Ph.D.

Professor in the Faculty of Medicine at the University of Tsukuba and a
Principal Investigator at the International Institute for Integrative Sleep
Medicine (WPI-IIIS).



Junmin Peng, Ph.D.

 Professor in the Departments of Structural Biology and Developmental Neurobiology, and Director of Center for Proteomics and Metabolomics at St.
Jude Children's Research Hospital in Memphis, Tennessee, USA.



Hanming Shen, Ph.D.

Professor in School of Science and Health ,University of Macau.



Wendong Huang, Ph.D.

• Professor in City of Hope National Medical Center, Metabolic regulation by bile acid signaling and gut microbiota.

Yongjun Kim, Ph.D.

• Professor in School of Life Sciences, GIST, Gwang-Ju, Republic of Korea

Remarks: There are still many experts who haven't introduced. Students can know more about them in the course.

Requirements

The fresh, sophomore and junior students having a strong interest in life science from foreign universities will be accepted. Students must have strong English listening and speaking skills since courses will be given in English.

Schedule of Curriculum

Class Schedule

Course Category	Name of Course	Experts	Credit hours	Credits
Courses	Regulation of lipid metabolism and diseases	Hanming Shen, Wendong Huang, Zheng Sun, Li Qiang		1.5 credit
	Drosophila neurobiology	Yongjun Kim, Greg Suh, Chunghun Lim, Anmo Kim, KIM NC, Woo Jae Kim	hours	
Lectures	Structural biology	Huang Zhiwei		1.5 credit
	Tumor biology Liangyou Rui, Wang Yihua, Deng Mingquan		24 credit	
	Biomaterials Chen Xiongbiao, Wang Changyong, Wang Ruibing		hours	
	Sleep Michael Lazarus, Junmin Peng			

2022 Human Health and Life Sciences International Summer School Program Schedule

Time Date	August 1 (Mon)	August 2(Tue)	August 3(Wed)	August 4(Thu)	August 5(Fri)	August 6(Sat)
8:00-11:00am	Drosophila vision	Visuomotor circuit for evasive flight turns in Drosophila	Metabolic signaling pathways& Neurobiology of sexual behavior of fruit fly	Neurobiology of sexual behavior of fruit fly	Frontier lectures on bioprinting and tissue engineering	
13:00-17:00		Biomaterials and frontier of nano Biotechnology	Progress in tumor treatment targets		Autophagy and metabolism	
18:00-19:00	Research progress of epithelial mesenchymal transformation in pulmonary fibrosis					
Time Date	August 8(Mon)	August 9(Tue)	August 10(Wed)	August 11(Thu)	August 12(Fri)	August 13(Sat)
8:30-12:00am	Modeling neurodegenerative diseases using Drosophila melanogast	Neurobiology of Systems Nutrient Sensing in Drosophila	Multi-omics-based Systems Biology to Basic and Clinic Research	Rhythm and metabolism	Lipobiology	Metabolic regulation by bile acid signaling and gut microbiota
13:00-16:00		The physiology and pharmacology of sleep	Circadian rhythms and sleep	Circadian rhythms and sleep		

Remarks: Time for activities maybe changed according to the actual situation, but the contents remain the same. Some lectures may be changed; the final schedule will be announced by 25th July.