



Timetable

Oct. 20, 2024 Sunday											
Open for Registration	Open for Registration Lobby of Kuntai Hotel 09:00-21:00 Oct. 20 08:00-18:00 Oct. 21 08:00-18:00 Oct. 22 08:00-18:00 Oct. 23										
Date & Time	Day1 Oct. 21, 2024 Monday			Date & Time	Day2 Oct. 22, 2024 Tuesday			Date & Time	Day3 Oct. 23, 2024 Wednesday		
08:30-09:00	Opening Ceremony The Ballroom										
09:00-09:30	Plenary Lecture-1 (PL-1) The Ballroom			09:00-09:30	Plenary Lecture-3 (PL-3) The Ballroom			09:00-09:30	Symposium-13 (S13) The Ballroom A	Symposium-14 (S14) The Ballroom B	Symposium-15 (S15) The Ballroom C
09:30-10:00	Plenary Lecture-2 (PL-2) The Ballroom			09:30-10:00	Special Lecture The Ballroom			09:30-10:00			
10:00-10:20	Group Photo The Ballroom Coffee Break Poster Hall			10:00-10:20	Coffee Break Poster Hall			10:00-10:20	Coffee Break Poster Hall		
10:20-12:00	Symposium-1 (S1) The Ballroom A	Symposium-2 (S2) The Ballroom B	Symposium-3 (S3) The Ballroom C	10:20-12:00	Symposium-7 (S7) The Ballroom A	Symposium-8 (S8) The Ballroom B	Symposium-9 (S9) The Ballroom C	10:20-12:00	Flash Talk-1 (FT-1) The Ballroom A	Flash Talk-2 (FT-2) The Ballroom B	Flash Talk-3 (FT-3) The Ballroom C
12:00-12:30	12:00-13:30 SFRR-Asia Business Meeting	Lunch The Ballroom		12:00-12:30	Lunch The Ballroom			12:00-12:30	12:00-13:30 SFRR-China Business Meeting	Lunch The Ballroom	
12:30-13:30	Conference 2-6&7 on the second floor of Kuntai Hotel	Poster Presentation in The Ballroom A The Ballroom A		12:30-13:30	Meet the Editors The Ballroom			12:30-13:30	Conference 2-6&7 on the second floor of Kuntai Hotel	Poster Presentation in The Ballroom C The Ballroom C	
13:30-15:10	Symposium-4 (S4) The Ballroom A	Symposium-5 (S5) The Ballroom B	Symposium-6 (S6) The Ballroom C	13:30-15:10	Symposium-10 (S10) The Ballroom A	Symposium-11 (S11) The Ballroom B	Symposium-12 (S12) The Ballroom C	13:30-14:00	Plenary Lecture-4 (PL-4) The Ballroom		
								14:00-14:30	Plenary Lecture-5 (PL-5) The Ballroom		
								14:30-14:50	Coffee Break Poster Hall		
15:10-15:30	Coffee Break Poster Hall			15:10-15:30	Coffee Break Poster Hall			14:50-17:00	Redox Future Perspective Forum The Ballroom		
15:30-17:30	Symposium- YIO-1 (Y-1) The Ballroom A	Symposium- YIO-2 (Y-2) The Ballroom B	Symposium- YIO-3 (Y-3) The Ballroom C	15:30-17:30	Symposium- YIO-4 (Y-4) The Ballroom A	Symposium- YIO-5 (Y-5) The Ballroom B	Symposium- YIO-6 (Y-6) The Ballroom C				
17:30-18:30	Exhibition Sharing Session The Ballroom C			18:00-22:00	Gala dinner (invited only)						17:00-18:00
18:30-20:00	Welcome Reception The Ballroom							18:00-22:00	Closing & Award Ceremony Banquet The Ballroom		
20:00-22:00	Early Career Researchers The Ballroom C										

Scientific Program

08:30-09:00	Opening Ceremony	The Ballroom
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Chair: Gunangjun Nie 聂广军 (National Center for Nanoscience and Technology, China)

Plenary Lecture -1 (PL-1)	The Ballroom
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Chair: Chang Chen 陈畅 (Institute of Biophysics, CAS, China)

09:00-09:30	Giovanni E Mann (King's College London, UK)
	Roadblock for clinical translation: importance of physiological oxygen levels for high throughput screening of redox

Plenary Lecture -2 (PL-2)	The Ballroom
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Chair: Malyn Ungsurungsie (Silpakorn University, Thailand)

09:30-10:00	Young-Joon Surh (Seoul National University, Korea)
	Warburg Effect Revisited: Role of NRF2 in Pseudohypoxic Stabilization of HIF-1 α

10:00-10:20	Group Photo Coffee Break	The Ballroom Poster Hall
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Symposium-1 (S1) Redox signaling in organelles/cell fate/development/reproduction	The Ballroom A
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Chair: Taotao Wei 卫涛涛 (Institute of Biophysics, CAS, China)
Hun Taeg Chung (Daegu Haany University, Korea)

10:20-10:40	Ming-Yi Bai 白明义 (Shandong University, China)
	H ₂ O ₂ promotes stomatal development and opening through regulating SnRK1



10:40-11:00	Wenhua Zheng 郑文华 (University of Macau University of Macau, China)
	Artemisinin attenuates astrocyte overactivation by inhibiting IRE1 phosphorylation and the downstream NF- κ B pathway in Alzheimer's disease
11:00-11:20	Takaaki Akaike (Tohoku University, Japan)
	Redox Signal Regulation by Supersulfides
11:20-11:40	Hun Taeg Chung (Daegu Haany University, Korea)
	Carbon monoxide sensitizes cancer cell to erastin-induced ferroptosis via ROS-PERK-ATF4
11:40-12:00	Erich Gnaiger (Beijing Huawei Zhongyi Technology Co. Ltd)
	Oxidative phosphorylation, H ₂ O ₂ production, mitochondrial membrane potential, coenzyme Q redox state, and calcium uptake: from tissue normoxia to deep hypoxia

Symposium-2 (S2)
Redox and aging①“Targeting Redox and Mitochondria to
delay aging and prevent age-related diseases”Forum

The Ballroom B

Chair: Ke Liu 刘科 (Sichuan University, China)
Malcolm Jackson (The University of Liverpool, UK)

10:20-10:40	Min-Xin Guan 管敏鑫 (Zhejiang University, China)
	Vitamin A treatment rescues retinal cell-specific deficiencies caused by Leber's hereditary optic neuropathy-linked mtDNA mutation
10:40-11:00	Yuguang Shi 史裕光 (Barshop Aging Institute, UT-Health, San Antonio)
	Cardiolipin Remodeling by ALCAT1 Controls the Mitochondrial Free Radical Clock
11:00-11:20	Zhiyin Song 宋质银 (Huazhong University of Science and Technology, China)
	A new mode of mitochondria-lysosome contacts under hypoxia
11:20-11:40	Yidong Bai (University of Texas Health San Antonio, USA)
	Mitochondrial electron transfer chain (ETC) in aging and longevity

Oct. 21



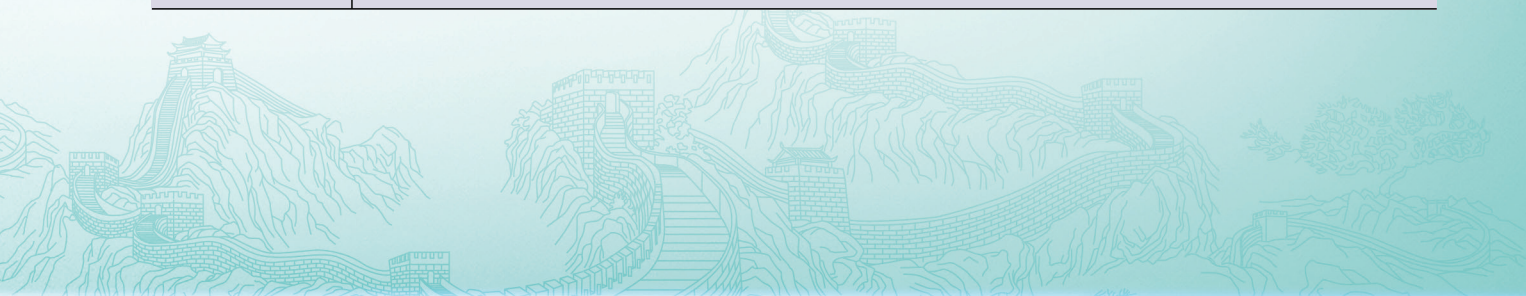
11:40-12:00	Malcolm Jackson (The University of Liverpool, UK)
	Dysregulation of hydrogen peroxide-mediated responses to contractile activity in skeletal muscle loss associated with ageing

Symposium-3 (S3) Redox and obesity, vascular function and metabolism		The Ballroom C
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Chair: Zhongbing Lu 陆忠兵 (University of Chinese Academy of Sciences, China)
 Juan Sastre (University of Valencia, Spain)

10:20-10:40	Xiao-Wei Chen 陈晓伟 (Peking University, China)
	ER oxi-lipidosis drives MASH pathogenesis
10:40-11:00	Changtao Jiang 姜长涛 (Peking University, China)
	Gut microbial enzymes: new targets for intervention in metabolic diseases
11:00-11:20	Junli Liu 刘军力 (Shanghai Jiao Tong University, China)
	Obstructive sleep apnea syndrome and hepatic lipid metabolism disorders
11:20-11:40	Juan Sastre (University of Valencia, Spain)
	Redox signaling in acute inflammation
11:40-12:00	Michael Jonathan Davies (University of Copenhagen, Denmark)
	Oxidation and enzyme-mediated changes to the artery wall in cardiovascular disease

12:00-13:30	SFRR-Asia Business Meeting Lunch Provided	Conference 2-6&7 on the second floor of Kuntai Hotel
12:00-12:30	Lunch	The Ballroom





12:30-13:30

Poster (P1-P100)

The Ballroom A

Symposium-4 (S4)

New approach for precision redox research

The Ballroom A

Chair: Xiangliang Yang 杨祥良 (Huazhong University of Science and Technology, China)

Kwang Pyo Kim (Kyung Hee University, Korea)

13:30-13:50

Bo Tang 唐波 (Laoshan Laboratory, China)

Fluorescence Imaging for the Progression of Oxidative Stress-Related Diseases

13:50-14:10

Yonggang Yao 姚永刚 (Kunming Institute of Zoology, CAS, China)

Primate Phenotype and Genetic Analyses – From Basic Research to Clinical Applications

14:10-14:30

Huiru Tang 唐惠儒 (Fudan University, China)

Quantitative metabolomics for redox biology and medicine

14:30-14:50

Youjun Yang 杨有军 (East China University of Science and Technology, China)

Near-infrared xanthene dyes and *in vivo* ROS sensing

14:50-15:10

Young-Sam Keum (Dongguk University, Korea)

Leucine 305 and 309 residues contribute to the formation of two human NRF2 bands in SDS-PAGE

Symposium-5 (S5)

Discovery of new molecules in redox network

The Ballroom B

Chair: Qiang Zhao 赵强 (Nankai University, China)

Ken-ichi Yamada (Kyushu University, Japan)

13:30-13:50

Jingbo Pi 皮静波 (China Medical University, China)

NRF1 and NRF2 coordinate osteoclastogenesis and bone remodeling via ROS-dependent and independent mechanisms

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13:50-14:10	Akira Nakai (Yamaguchi University Graduate School of Medicine, Japan)
	HSF1 regulates nuclear/cytoplasmic and mitochondrial proteotoxic stress responses
14:10-14:30	Bo Xie 谢波 (Shanghai Tissuebank Biotechnology Co.,Ltd (TAB))
	Grasip the void of Redox—the new relic of Tissue Bank
14:30-14:50	Ken-ichi Yamada (Kyushu University, Japan)
	Structural library and visualization of endogenously oxidized lipids
14:50-15:10	Youngjoo Kwon (Ewha Womans University, Korea)
	Regulation of protein-protein interactions as a new paradigm in drug discovery: Targeting the oncogenic role of E74 Like ETS transcription factor 3 (ELF3) through modulation of its protein protein interaction

Symposium-6 (S6) Redox modification of biomacromolecules	The Ballroom C
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Chair: Zhonghong Gao 高中洪 (Huazhong University of Science and Technology, China)
 Koji Uchida (The University of Tokyo, Japan)

13:30-13:50	Lee Jia 贾力 (Minjiang University, China)
	Biology and pharmaceutical development of S-nitrosylation
13:50-14:10	Huiyong Yin 尹慧勇 (City University of Hong Kong, China)
	Lipid Peroxidation and Cardiovascular Disease
14:10-14:30	Moran Benhar (Technion Israel Institute of Technology, Israel)
	The dynamic thiol redox proteome of macrophages and its role in the response to oxidative-inflammatory stress
14:30-14:50	Koji Uchida (The University of Tokyo, Japan)
	Immune memory against toxic aldehydes



14:50-15:10

Xingen Lei (Cornell University, USA)

A protein protein interaction between SOD1 and YWHAZ and YWHAH

15:10-15:30

Coffee Break

Poster Hall

Symposium-YIO-1 (Y-1)

Redox modification of biomacromolecules
Redox and obesity, vascular function and metabolism

The Ballroom A

Chair: Li Xu 徐力 (Jilin University, China)
Hyoung Kyu Kim (Inje University, Korea)

15:30-15:45

Lei Chen 陈雷 (Peking University, China)

Activation mechanism of phagocyte NADPH oxidase

15:45-16:00

Xueqing Ba 巴雪青 (Northeast Normal University, China)

OGG1 promotes iTreg differentiation and alleviates mouse IBD by facilitating Foxp3 transcriptional activation

16:00-16:15

Ming Lu 鲁明 (Shanghai Institute of Nutrition and Health, CAS, China)

A lactate-lipid peroxidation-acetate metabolic axis between tumor-associated macrophages and cancer cells fuels hepatocellular carcinoma metastasis

16:15-16:30

Shi Yuheng 石玉衡 (Fudan university, China)

STING: A Potential Target for Suppressing the Development of Clonal Hematopoiesis and Leukemia

16:30-16:45

Wen Wang 王雯 (Capital Medical University, China)

Disorder of nitration/S-sulphydration participates in hyperhomocysteinemia progression and liver damage

16:45-17:00

Bin Liu 刘斌 (Shantou University, China)

Endothelium-dependent contraction, NO and cardiovascular disorders in the absence of prostacyclin synthesis

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17:00-17:15	Hou-Zao Chen 陈厚早 (Chinese Academy of Medical Sciences & Peking Union Medical College, China)
	SIRT2 governs a cytoplasm-mitochondrial signal to repress mitochondrial ROS and vascular ageing
17:15-17:30	Hyoung Kyu Kim (Inje University, Korea)
	Tetrahydrobiopterin is a Promising Target of Diabetic Cardiomyopathy via Restoring Mitochondria Function

Symposium-YIO-2 (Y-2) Redox and cancer, infection and immunity Redox and environmental challenge		The Ballroom B
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Chair: Jianghong Man 满江红 (National Center of Biomedical Analysis, China)
 Chung S. Yang (Rutgers, The State University of New Jersey, USA)

15:30-15:45	Jianqiang Xu 许建强 (Dalian University of Technology, China)
	Two sesquiterpene lactones inhibit TXNRD1 and induce endoplasmic reticulum stress in cancer cells
15:45-16:00	Xiu-Ping Chen 陈修平 (University of Macau, China)
	Novel anticancer drug discovery strategies by targeting NQO1
16:00-16:15	Kelong Fan 范克龙 (Institute of Biophysics, CAS, China)
	Structure-Activity Relationship and Biomedical Applications of Nanozymes
16:15-16:30	Cui-xia Di 狄翠霞 (Institute of Modern Physics, CAS, China)
	Electron FLASH Irradiation Ameliorates Radiation-induced Developmental and Neurological Toxicity in Zebrafish Model
16:30-16:45	Tomohiro Sawa (Kumamoto University, Japan)
	Supersulfide regulation of innate immune responses
16:45-17:00	Tianli Zhang (Akita University, Japan)
	Supersulfides regulate NLRP3 inflammasome activation through sensing homeostasis



17:00-17:15	Guoping Yin 尹国平 (Beijing Tsinghua Changgung Hospital, China)
	OSA induced multiple-system damage via oxidative stress
17:15-17:30	Jian-gang Long 龙建纲 (Xi'an Jiaotong University, China)
	HTHB: A Potential Therapeutic Agent for Cognitive Impairment and Inflammation

Symposium-YIO-3 (Y-3)
Redox and neural function and mental health

The Ballroom C

Chair: Wenli Li 李文丽 (Air Force Medical University, China)
Changyang Gong 巩长畅 (Sichuan University, China)

15:30-15:45	Jun Wang 王军 (Hubei University of Technology, China)
	Redox biomarkers for prognosis of infectious diseases
15:45-16:00	Yuming Zhao 肇玉明 (Capital Medical University, China)
	DDAH1, a key neuroprotective player, promotes neurogenesis and neural repair after cerebral ischemia insults
16:00-16:15	Danqian Liu 刘丹倩 (Institute of Neuroscience, CAS, China)
	A physiological role of H ₂ O ₂ in sleep homeostasis
16:15-16:30	Ishii Tetsuro (University of Tsukuba, Japan)
	NRF2 translocation from dendrites to nucleus in glutamatergic pyramidal neurons induced by uncoupling of post-synaptic neuronal nitric oxide synthase via calcium influx through NMDAR
16:30-16:45	Meiling Wu 吴美玲 (The University of Hong Kong, China)
	Peroxynitrite reduces Treg cell expansion and function by mediating IL-2R nitration and aggravates multiple sclerosis pathogenesis
16:45-17:00	Xianhua Wang 王显花 (Peking University, China)
	ROMO1 shields the mitochondrial cysteinome from oxidations in diseases and aging

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17:00-17:15	Xu Zhang 张栩 (Tianjin Medical University, China)	
	Alox15/15-HpETE Aggravates Myocardial Ischemia-Reperfusion Injury by Promoting Cardiomyocyte Ferroptosis	
17:15-17:30	Yan Zheng 郑焱 (The First Affiliated Hospital of Xi'an Jiaotong University, China)	
	The Mechanisms of Plasma-Activated Solutions in Treating Atopic Dermatitis	
17:30-18:30	Exhibition Sharing Session	The Ballroom C
18:30-20:00	Welcome Reception	The Ballroom
Chair: Jian Kang Liu 刘健康 (University of Health and Rehabilitation Sciences/Xi'an Jiaotong University, China)		
20:00-22:00	Early Career Researcher	The Ballroom C





Plenary Lecture-3 (PL-3)

The Ballroom

Chair: Myung-Hee Chung (Seoul National University, Korea)

09:00-09:30

Yuji Naito (Kyoto Prefectural University of Medicine, Japan)

Gut frailty: its concept and the role of dietary fiber

Special Lecture

The Ballroom

Chair: Yang Liu 刘扬 (Institute of Chemistry, CAS, China)

09:30-10:00

Chang Chen 陈畅 (Institute of Biophysics, CAS, China)

Carry forward the cause and forge ahead into the future
— Memory of past 20 years SFRR-Asia biennial meetings

10:00-10:20

Coffee Break

Poster Hall

Symposium-7 (S7)

Redox signaling in organelles/cell fate/development/reproduction

The Ballroom A

Chair: Dongyun Shi 施冬云 (Shanghai Medical College of Fudan University, Shanghai, China)

Francisco Rafael Martins Laurindo (University of São Paulo, Brazil)

10:20-10:40

Wenjun Ding 丁文军 (University of Chinese Academy of Sciences, China)

Airborne PM2.5-induced oxidative stress aggravates neurotoxicity in olfactory bulb

10:40-11:00

Yanlin Ma 马燕琳 (The First Affiliated Hospital of Hainan Medical College, China)

Deciphering Umbilical Cord Blood Hematopoietic Stem/Progenitor Cell Alterations in Alpha-Thalassemia Using Single-Cell Transcriptomics

11:00-11:20

Liron Bar-Peled (Harvard Medical School Department of Medicine, USA)

Identification of Druggable and Redox Vulnerabilities in Cancer

Oct. 22

11:20-11:40	Francisco Rafael Martins Laurindo (University of São Paulo, Brazil)
	An endoplasmic reticulum-based model of intercellular redox communication.
11:40-12:00	Kyung-Soo Chun (Keimyung University, Korea)
	Apoptotic Effect of Terfenadine, a Histamine H1 Receptor Antagonist, and Terfenadine-loaded Human Serum Albumin Nanoparticles in Colorectal Cancer and Glioblastoma Cells

<p align="center">Symposium-8 (S8) Redox and aging ②“Targeting Redox and Mitochondria to delay aging and prevent age-related diseases”Forum</p>	The Ballroom B
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Chair: Young Zhang 张勇 (Tianjin University of Sport, Tianjin, China)
Liang-Jun Yan (University of North Texas Health Science Center, Fort Worth, TX, USA)

10:20-10:40	Han-Ming Shen 沈汉明 (University of Macau, China)
	Redox regulation of mitophagy by targeting PINK1
10:40-11:00	Xingguo Liu 刘兴国 (Guangzhou Biomedicine and Health Institute, CAS, China)
	NAD ⁺ dependent UPRmt activation underlies intestinal aging caused by mitochondrial DNA mutations
11:00-11:20	Quan Chen 陈隼 (Institute of Zoology, Chinese Academy of Sciences, China)
	Truncated oxidized phospholipids mediate synchronized ferroptosis and contribute to acute kidney injury
11:20-11:40	Liang-Jun Yan (University of North Texas Health Science Center, Fort Worth, TX, USA)
	NAD ⁺ -dependent enzymes in health and disease: Our key findings on NADH-ubiquinone oxidoreductase in diabetic pancreas
11:40-11:55	Kanglin Wang 王康林 (Knature Bio-pharma Co., Ltd.)
	Mitochondrial drug NAD ⁺ anti-aging strategy





Symposium-9 (S9)
Redox and cancer, infection and immunity

The Ballroom C

Chair: Pingping Shen 沈萍萍 (Nanjing University, China)
Junji Yodoi (Kyoto University, Japan)

10:20-10:40	Zigang Dong 董子钢 (Zhengzhou University, China)
	The role of redox metabolism in drug resistance of cancer therapy
10:40-11:00	Yoshiro Saito (Tohoku University, Japan)
	Redox biology regulated by selenoproteins- significance for biological defense and its relation to cancer
11:00-11:20	Martin Rottenberg (Karolinska Institutet, Sweden)
	Immune Mechanisms and Oxidative Stress Underlying the Interaction of Tuberculosis and Diabetes
11:20-11:40	Junji Yodoi (Kyoto University, Japan)
	TRX Thioredoxin redox regulator of inflammasome: Redoxisome Concept
11:40-12:00	Mee-Hyun Lee (Dongshin University, Korea)
	A Systemic Effects of Herbal Medicine on Colon Diseases

12:00-12:30	Lunch	The Ballroom
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12:30-13:30	Meet the Editors	The Ballroom
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Chair: Huiyong Yin 尹慧勇 (City University of Hong Kong, China)

Oct. 22



Symposium-10 (S10) Redox and environmental challenge		The Ballroom A
Chair: Libo Du 杜立波 (Institute of Chemistry, CAS, China) Jin-Won Hyun (Jeju National University, Korea)		
13:30-13:50	Yinghui Li 李莹辉 (China Astronaut Research and Training Center, China)	
	Research progress and thinking of space medicine omics	
13:50-14:10	Qi Xie 谢旗 (Institute of Genetics and Developmental Biology, CAS, China)	
	Gγ regulates PIP2 phosphorylation in ROS distribution to affect crop tolerant to alkaline stress	
14:10-14:30	Jin-Won Hyun (Jeju National University, Korea)	
	Particulate matter and reactive oxygen species	
14:30-14:50	Jung-Hwan Kim (Gyeongsang National University, Korea)	
	TCDD-induced Lysosomal SLC46A3 modulates hepatic cytosolic copper homeostasis resulting in triglyceride accumulation	
14:50-15:10	Dae Young Kwon (Korea Food Research Institute, Korea)	
	Redox History of Earth, and Life of Organisms and Foods Crops	

Symposium-11 (S11) Traditional Medicine Prophylaxis-Therapeutics and Redox Balance (Sponsored by The University of Hong Kong & Beijing Tong Ren Tang Chinese Medicine Co. Ltd.)		The Ballroom B
Chair: Simon Ming-Yuen LEE 李铭源 (The Hong Kong Polytechnic University, Hong Kong, China) Motohiro Nishida (Kyushu University, Japan)		
13:30-13:50	Jing-yan Han 韩晶岩 (Peking University, China)	
	Traditional Chinese medicine ameliorates cardiac and cerebral microvascular injury through regulating mitochondrial respiratory chain	



13:50-14:10	Jiangang Shen 沈剑刚 (The University of Hong Kong, China)
	Niu Huang Qingxin Wan is a promising anti-depressive agent to attenuate chronic stress induced depressive- and anxiety-like behaviors through promoting hippocampal neurogenesis and modulating TrkB/ERK/CREB signaling pathway
14:10-14:30	Xinli Li 李新立 (The First Affiliated Hospital of Nanjing Medical University, China)
	Qiliqiangxin in the Treatment of Heart Failure with Reduced Ejection Fraction ----- Research Progress
14:30-14:50	Motohiro Nishida (Kyushu University, Japan)
	Cardiac stress resistance regulated by sulfur metabolism
14:50-15:10	Yibin Feng 冯奕斌 (The University of Hong Kong, China)
	The role of oxidative stress and antioxidants in liver disease therapy

Symposium-12 (S12)
Natural products and nutrition in anti-aging and health management
 (Sponsored by The University of Hong Kong & Beijing Tong Ren Tang Chinese Medicine Co. Ltd.)

The Ballroom C

Chair: Bo Zhou 周波 (Lanzhou University, China)
 Ae-son Om (Hanyang university, Korea)

13:30-13:50	Lina Qu 曲丽娜 (China Astronaut Research and Training Center, China)
	Research on Space Biological Rhythm Intervention Strategies Based on Redox Regulation
13:50-14:10	Qinghui Ai 艾庆辉 (Ocean University of China, China)
	Phosphatidylethanolamine alleviates OX-LDL-induced macrophage inflammation by upregulating autophagy and inhibiting NLRP1 inflammasome activation
14:10-14:30	Andrew Bulmer (Griffith University, Australia)
	Translation of bilirubin's redox potential to preventative and therapeutic medicine – use of models, and the development of therapies

Oct. 22

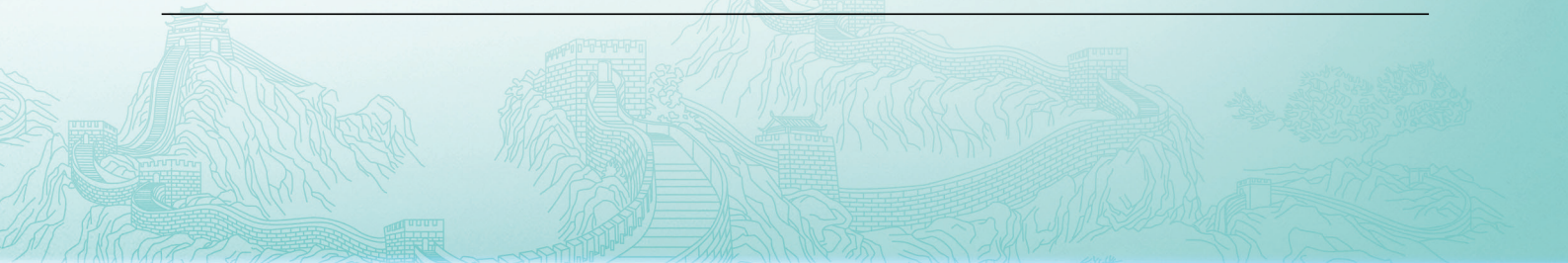
14:30-14:50	Hye-Kyung Na (Sungshin Women's University, Korea)
	A Catechol Isoquinoline Salsolinol Induces Cell Death of Human Liver Cancer Cells by Regulating the STAT1/3 Signaling
14:50-15:10	Yun-Sil Lee (Ewha Womans University, Korea)
	From Target Identification to Early-Stage Therapeutic Discovery: Leveraging In Vivo Preclinical Models

15:10-15:30	Coffee Break	Poster Hall
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Symposium-YIO-4 (Y-4) New approach for precision redox research Intelligence materials for precision redox intervention		The Ballroom A
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Chair: Xianquan Zhan 詹显全 (Cancer Hospital and Institute, Shandong First Medical University, China)
Kenji Sato (Kyoto University, Japan)

15:30-15:45	Ling Fu 付玲 (Academy of Military Medical Sciences, China)
	Chemical proteomics reveals mechanisms of bacterial response to ROS mediated by antibiotics
15:45-16:00	Yuan Guo 郭媛 (Northwest University, China)
	Molecule-Guided Precise Identification and Intervention of Senescence
16:00-16:15	Yangping Liu 刘阳平 (Tianjin Medical University, China)
	Simultaneous Quantitation of Persulfides, Biothiols and Hydrogen Sulfide through Efficient Sulfur Exchange Reaction with Trityl Spin Probes
16:15-16:30	Ai-Hui Tang 唐爱辉 (University of Science and Technology of China, China)
	Spatial Transcriptome Profiling of a Huntington's Disease Mouse Brain with BASSFISH





16:30-16:45

Kenji Sato (Kyoto University, Japan)

Generation of short chain aldehydes and increase of oxidative stress in mice by intake of fructose

16:45-17:00

Yue Yuan 袁月 (University of Science and Technology of China, China)

GSH-induced in situ peptide self-assembly for precise tumor imaging and ROS-based therapy

17:00-17:15

Yang Li 李洋 (Shenzhen Institute of Advanced Technology, CAS, China)

Molecular targeting nano drug candidates

17:15-17:30

Lizeng Gao 高利增 (Institute of Biophysics, CAS, China)

Nanozybiotics: Advancing Antimicrobial Strategies Through Biomimetic Mechanisms

Symposium-YIO-5 (Y-5)

Discovery of new molecules in redox network
Natural products and nutrition in anti-aging and health management

The Ballroom B

Chair: Jun Lu 陆军 (Southwest University, China)

Ock Jin Park (Hanyang university, Korea)

15:30-15:45

Zhi-Yong Mao 毛志勇 (Tongji University, China)

Targeting DNA repair to extend lifespan

15:45-16:00

Jinzhì Lu 鲁锦志 (The First Affiliated Hospital, Yangtze University, China)

Redox-Regulated Iron Metabolism and Ferroptosis in Ovarian Cancer: Molecular Insights and Therapeutic Opportunities

16:00-16:15

Moshi Song 宋默识 (Institute of Zoology, CAS, China)

Restored PGAM5-mediated Oxeiptosis Eliminates ROS^{High} Cardiomyocytes and Improves Cardiac Function during Cardiac Aging

Oct. 22

16:15-16:30	Jin Li 李瑾 (Beijing Hospital, China)
	Exploring the Neuroinflammatory Pathways of 8-oxoGTP and Their Effects on Cognitive Decline
16:30-16:45	Jin Meng 孟劲 (Capital Medical University, China)
	ATF-4 and hydrogen sulfide signaling mediate longevity in response to inhibition of translation or mTORC1
16:45-17:00	Guozhen Cui 崔国祯 (Zunyi Medical University, China)
	Network Medicine landscape on the Health-Enhancing Properties of Natural Antioxidants
17:00-17:15	Jing Qu 曲静 (Institute of Zoology, CAS, China)
	Cellular Senescence and Rejuvenation
17:15-17:30	Chalermpong Saenjum (Chiangmai University, Thailand)
	A hybrid sweet potato (Maejo 341) mitigates LPS-induced inflammation and RANKL-induced osteoporosis by regulating ROS-mediated pathways

Symposium-YIO-6 (Y-6)
Redox signaling in organelles/cell fate/development/reproduction

The Ballroom C

Chair: Zhangjian Huang 黄张建 (China Pharmaceutical University, China)
Youngtae Jeong (Daegu Gyeongbuk Institute of Science and Technology, Korea)

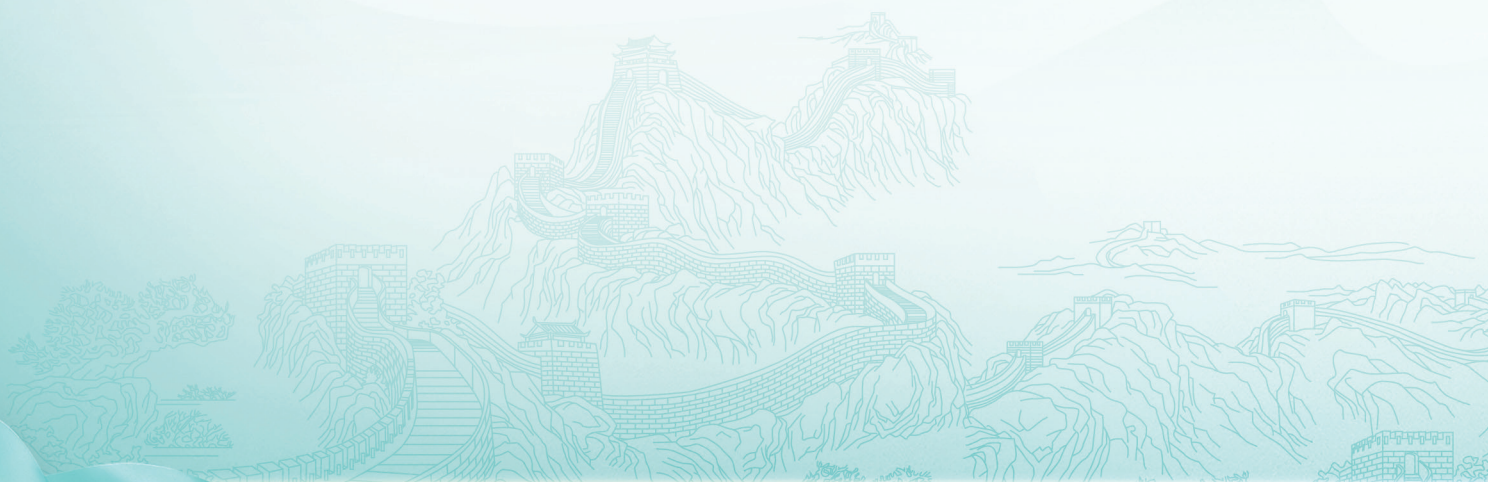
15:30-15:45	Jie He 何杰 (Institute of Neuroscience, CAS, China)
	cxcl18b-defined transitional state-specific nitric oxide signaling drives injury-induced Müller Glia proliferation in the zebrafish retina
15:45-16:00	Peng Huang 黄鹏 (Shenzhen University, China)
	Transforming nutrition into reactive oxygen species for tumor treatment



16:00-16:15	Weihua Yu 于卫华 (The Fourth Military Medical University, China)
	Mitochondrial dynamics and redox balance control macrophage cell fate
16:15-16:30	Ye Tian 田烨 (Institute of Genetics and Developmental Biology, CAS, China)
	Mitochondrial Superoxide Stress Response: Implications for Aging and Health
16:30-16:45	Lei Wang 王磊 (Institute of Biophysics, CAS, China)
	The ER redox-taxis: from basic research to the intervention of aging and diseases
16:45-17:00	Chao Li 李超 (East China Normal University, China)
	Regulation of plant development by peptides–receptor kinases–ROS signaling
17:00-17:15	Youngtae Jeong (Daegu Gyeongbuk Institute of Science and Technology, Korea)
	Reciprocal role of the Keap1-Nrf2 pathway in the self-renewal and differentiation of airway stem cells and tongue stem cells
17:15-17:30	Yong Yeon Cho (Catholic University, Korea)
	Involvement of UVB/ROS-mediated signaling pathway in karyoptotic cell death

18:00-22:00	Gala dinner (invited only) Meet at the lobby of Kuntai Hotel at 6 PM
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Oct. 22



Symposium-13 (S13) Redox and neural function & mental health

The Ballroom A

Chair: Lin Mei 梅林 (Chinese Academy of Medical Sciences & Peking Union Medical College, China)
Lin Mantell (St. John's University, USA)

09:00-09:20	Chuanzhu Yan 焉传祝 (Qilu Hospital of Shandong University, China)
	Flavin adenine dinucleotide metabolism and related neuromuscular disorders
09:20-09:40	Ping Li 李平 (Shandong Normal University, China)
	In-situ Fluorescence Imaging of Brain Disease-associated Bioactive Molecules
09:40-10:00	Lin Mantell (St. John's University, USA)
	Mechanisms of $\alpha 7$ nicotinic acetylcholine receptor in modulating inflammatory lung injury and infection

Symposium-14 (S14) Intelligence materials for precision redox intervention

The Ballroom B

Chair: Fangyuan Li (Songjiang Hospital, Shanghai Jiao Tong University School of Medicine, China)
Yong Sang Song (Seoul National University, Korea)

09:00-09:20	Guangjun Nie 聂广军 (National Center for Nanoscience and Technology, China)
	Regulation and restoration of microenvironment homeostasis of intestinal diseases based on nanotechnology
09:20-09:40	Jun Zhou 周军 (Huazhong University of Science and Technology, China)
	Molecular mechanisms of selenium intervention in metabolic diseases through regulation of redox homeostasis
09:40-10:00	Yong Sang Song (Seoul National University, Korea)
	Next-generation RNA Sequencing-based Deep-learning Model to Predict Chemoresistance in High-grade Serous Ovarian Carcinoma

Symposium-15 (S15) Lifestyle and redox regulation

The Ballroom C

Chair: Cheng-Gang Zou 邹成钢 (Yunnan University, China)
Osamu HANDA (Kawasaki Medical School, Japan)





09:00-09:20

Tong-Jin Zhao 赵同金 (Fudan University, Shanghai, China)

Surplus fatty acid synthesis increases oxidative stress in adipocytes and induces lipodystrophy

09:20-09:40

Hao Wu 吴昊 (Capital University of Physical Education and Sports, China)

Effects of Hyperbaric Oxygen Intervention on Oxidative Stress in the Body after High-Intensity Interval Training

09:40-10:00

Osamu HANDA (Kawasaki Medical School, Japan)

The role of ileal mucosa -associated microbiota in the patients with Crohn's disease

10:00-10:20

Coffee Break

Poster Hall

Flash Talk-1 (FT-1)

The Ballroom A

Chair: Suhua Wang 王素华 (Guangdong University of Petrochemical Technology, China)

10:20-10:25

Kishimoto Ayuta (Shibaura Institute of Technology, Japan)

Detection and evaluation of novel oxidizing substances in sodium hypochlorite using Trolox

10:25-10:30

Ujihara Miyu (Kyoto University, Japan)

High sensitive LC-MS/MS method for determining malondialdehyde in biological sample using thiobarbituric derivatization

10:30-10:35

Yan Wang 王炎 (Tianjin Medical University, China)

A Chelator-linked Trityl Probe Enabling Highly Specific, Sensitive and Quantitative Detection of Cu(I) by EPR Spectroscopy

10:35-10:40

Wong Nai-Kei (Shantou University Medical College, China)

Deciphering the RSS code in cellular senescence

10:40-10:45

Zhijuan Hu 胡志娟 (Guangzhou Institute of Biomedicine and Health, CAS, China)

A novel protein CYTB-187AA encoded by the mitochondrial gene CYTB modulates mammalian early development

Oct. 23

Chair: Ju Cui 崔菊 (Country Beijing Institute of Geriatrics, National Health Commission, China)

10:45-10:50	Zongmin Li 李宗敏 (Peking University First Hospital, China)
	Elucidating the reducibility of sulfur dioxide on cysteine proteomes
10:50-10:55	Mi Xinya (Kyushu University, Japan)
	TRPC6-mediated Zn^{2+} influx improves heart failure through supersulfide formation
10:55-11:00	Xinhua Qiao 乔新华 (Institute of Biophysics, CAS, China)
	Exploring the collaboration of redox and autophagy systems based on a genome-wide new redox genes screening
11:00-11:05	Chenlin Su (Kyushu University, Japan)
	TRPC6-mediated Zn^{2+} influx mitigates cardiac fibrosis through maintaining redox homeostasis
11:05-11:10	Jiao Meng 孟姣 (Institute of Biophysics, CAS, China)
	A novel redox gene atad-3 identified by whole genome RNAi screening in <i>Caenorhabditis elegans</i>

Chair: Chalermpong Saenjum (Chiangmai University, Thailand)

11:10-11:15	Yong Wang 王勇 (Ocean University of China, China)
	Ferrocene Correlates with Ferroptosis: Multiple Approaches to Explore Ferrocene-appended GPX4 Inhibitors as Anticancer Agents
11:15-11:20	Shuo Sun 孙硕 (Institute of Biophysics, CAS, China)
	Discovery of small molecule inhibitors specifically targeting the Ero1 α -PDI oxidative protein folding pathway
11:20-11:25	Yongjie Zhang 张永杰 (China Pharmaceutical University, China)
	Unraveling the roles of Glutathione S-transferase P in protein S-glutathionylation modulation: Implications of therapeutic targets for oxidative organ injury
11:25-11:30	Jinwen Yang 杨劲文 (Huazhong University of Science and Technology, China)
	Detection of Protein Tyrosine Nitration or Amination
11:30-11:35	Siyu Tian 田丝雨 (Hebei Normal University, China)
	Brain-targeted liposomes with neuroprotective effects for precise therapy of ischemic stroke



11:35-11:40	Xi Hu 胡希 (Anhui University of Chinese Medicine, China)
	Nanomaterials for tumor-cell-specific catalytic therapy
11:40-11:45	Yingnan Liu 刘英楠 (University of Salzburg, Austria)
	Nano-assemblies overcome cancer multidrug resistance for effectively synergistic chemo-immuno-oncotherapy
11:45-11:50	Guofang Zhang 张国芳 (Shenzhen Institute of Advanced Technology, CAS, China)
	Nanomedicine by Modulating ROS for Oncotherapy
	Jing Mu 穆婧 (Peking University Shenzhen Hospital, China)
11:50-11:55	Protective effect of platinum nano-antioxidant and nitric oxide against hepatic ischemia-reperfusion injury
11:55-12:00	Xiaoyan Zhong 仲晓燕 (Soochow University, China)
	Scintillating nanodots as sonosensitizers for cancer sonodynamic therapy

Flash Talk-2 (FT-2)

The Ballroom B

Chair: Yan An 安艳 (Soochow University, China)

10:20-10:25	Yuanyuan Wang 王圆圆 (Institute of Biophysics, CAS, China)
	Targeting the integrated stress response and redox balance is a new strategy in meningioma inhibiting
10:25-10:30	Jiabin Yu 于佳斌 (Jeju National University, Korea)
	Loss of poly(ADP-ribose) polymerase 1 promotes catalase activation via the endothelin receptor
10:30-10:35	Chaorui Guo 郭朝瑞 (China Pharmaceutical University, China)
	Myeloperoxidase (MPO) plays a key role in mitophagy in murine macrophages
10:35-10:40	Lili Xin 信丽丽 (Soochow University, China)
	PM2.5 induced iron accumulation-associated liver injury via activation of ferroptosis and NLRP3 inflammasome
10:40-10:45	Huaiwei Liu 刘怀伟 (Shandong University, China)
	Polysulfides mediate multiple types of protein modification and tumor growth

Oct. 23

Chair: Jinchuan Hu 胡晋川 (Fudan University, China)

10:45-10:50	Zhongwei Zhao 赵仲伟 (Beijing University of Chemical Technology, China)
	Physiologically relevant Fenton-like reactions and redox cycles of labile iron species: implications for ferroptosis and Alzheimer's disease
10:50-10:55	Seino Anna (Shibaura Institute of Technology, Japan)
	The changes of genes and protein which affects mitochondrial fusion and fission in AD transgenic mice
10:55-11:00	Yingmin Zhang 张英敏 (Beijing Hospital, China)
	The molecular mechanism study of oxidized microRNA regulating P21 and promoting aging
11:00-11:05	Zhongda Li 李忠达 (Hebei Normal University, China)
	The Beneficial Effects of Knockout of Astrocytic Ceruloplasmin on Learning and Memory Function in Aging Mice
11:05-11:10	Lvtao Zeng 曾律滔 (Beijing Hospital, China)
	Analysis of aging biomarkers and construction of a physiological age prediction model based on cytokine profiling

Chair: Yan Zhao 赵燕 (Institution, Country Harbin Institute of Technology (Weihai), China)

11:10-11:15	Jing Wu 武婧 (Soochow University, China)
	PM2.5-induced premature senescence in HUVECs through the SIRT1/PGC-1 α /SIRT3 pathway
11:15-11:20	Dong He 何东 (Shantou University, China)
	Disruption of E-prostanoid 3 receptor on cardiomyocytes protects against heart ischemia reperfusion injury
11:20-11:25	Shanzhuang Niu 牛善壮 (Yunnan University, China)
	The molecular mechanism of lysosome function impairment and promotes fat accumulation by loss of G6PD
11:25-11:30	Cuomao Niangji 娘吉措毛 (Qinghai University Affiliated Hospital, China)
	Metabolic reprogramming in placental mitochondria respiration contributes to the reproductive success of indigenous Tibetan women living at high altitude
11:30-11:35	Xiaolin Tian 田晓琳 (Shanxi Medical University, China)
	Fecal microbe transplantation ameliorates arsenic-and-fluoride-induced nephrotoxicity of offspring rats co-exposure to arsenic and fluoride through microbiota-gut-kidney axis



Chair: Tomohiro Sawa (Kumamoto University, Japan)

11:35-11:40	Zhang Lu (The University of Hong Kong, China)
	Ganoderma Lucidum Spore Lehuo Powder Attenuates Experimental Autoimmune Encephalomyelitis by Modulating Microglial Activation and Polarization through the NF- κ B Signaling Pathway
11:40-11:45	Bingping Yang 杨冰萍 (Shantou University Medical College, China)
	Disruption of circadian rhythms promotes ventricular arrhythmia via oxidative stress and electrocardiography alternation
11:45-11:50	Fei Zhou 周飞 (University of Macau, China)
	Chrysanthemolide J mitigates acetaminophen-induced hepatotoxicity through LKB1 and PP2A-mediated mitochondrial hormesis
11:50-11:55	Mengchen Liu 刘梦晨 (Zhuhai campus of Zunyi Medical University, China)
	Network Medicine landscape on the Health-Enhancing Properties of Natural Antioxidants

Flash Talk-3 (FT-3)

The Ballroom C

Chair: Julia Li Zhong 钟莉 (Chongqing University, China)

10:20-10:25	Xu Zhang 张旭 (Zhengzhou University, China)
	Hydrogen Peroxide Turn on Heat as Thermogenic agents and signals: Cellular Thermoregulation in Physiologies and Pathphysiologies
10:25-10:30	Qianlei Yang 杨乾磊 (Soochow University, China)
	Redox regulated Mitophagy in Arsenite-induced Malignant Transformation of Human Keratinocytes
10:30-10:35	Chenghua Luo 罗成华 (Shihezi University, China)
	Endogenous hydrogen sulfide promotes the proliferation and metastasis of breast cancer through PGK1 S-sulfhydration
10:35-10:40	Jia Han 韩佳 (Kanazawa Medical University Hospital, Japan)
	High PRDX4 Expression Can Predict Worse Pathological Characteristics in Cutaneous Squamous Cell Carcinom
10:40-10:45	Jie Chen 陈杰 (Shanghai Jiao Tong University School of Medicine, China)
	Radix Rehmanniae and its Active Ingredients Ameliorate CFA-Induced Inflammation by Attenuating Macrophage-Mediated Localized Response and Nitrative Damage

Oct. 23

Chair: Junmin Zhang 张军民 (Lanzhou University, China)

10:45-10:50	Pengfei Liu 刘朋飞 (The Second Affiliated Hospital of Xi'an Jiaotong University, China)
	Pharmacological targeting of NRF2 represents a promising therapeutic approach for ferroptosis-related diseases
10:50-10:55	Qingyu Wang 王清宇 (Beijing Hospital, China)
	Increased oxidative stress induced by high-fat and high-fructose diets contribute to type 2 diabetes and its associated complications
10:55-11:00	Yau-Tuen Chan (The University of Hong Kong, China)
	Role of miR-3689a-3p in the regulation of mitochondrial oxidative stress in the sorafenib resistance of hepatocellular carcinoma
11:00-11:05	Guoquan Liu 刘国全 (Peking University Health Science Center, China)
	LPO-dependent lipid rafts inhibit immunogenic ferroptosis and pyroptosis in melanoma
11:05-11:10	Yusheng Lu 卢余盛 (Minjiang University, China)
	S-nitrosylation enhances RhoA activity and promotes tumor cell invasion and metastasis

Chair: Kuei-Hung Lai (Taipei Medical University, Taiwan, China)

11:10-11:15	Xize Li 李析泽 (University of Health and Rehabilitation Sciences, China)
	The circ_0071616-miR-140-3p-USP34 axis mediates FoxM1 deubiquitination in Helicobacter pylori-induced gastric malignant transformation
11:15-11:20	Tingxu Jin 金庭旭 (Soochow University, China)
	A Bayesian benchmark concentration analysis for urinary fluoride and intelligence in adults in Guizhou, China
11:20-11:25	Qiong Wu 吴琼 (Hebei Normal University, China)
	Circadian-Cognitive Synchrony Disrupted: Iron's Influence on Rhythmic and Memory-Related Neural Functions
11:25-11:30	Qianjin Liu 刘前进 (Xuzhou Medical University, China)
	Mechanism analysis of oxidative stress and inflammation in brain diseases
11:30-11:35	Lingyan Su 苏凌燕 (Yunnan Agricultural University, China)
	S-nitrosoglutathione reductase alleviates morphine analgesic tolerance by restricting PKC α S-nitrosation



11:35-11:40	Zhen Li 李振 (Shenzhen Hospital of Integrated Traditional Chinese and Western Medicine, China)
	Phase separation of BRD2 promotes ferritinophagy in depression
11:40-11:45	Xiaoli Zhang 张小莉 (Shanxi Medical University, China)
	Mechanism of arsenic regulation of mitochondrial damage and autophagy induced synaptic damage through SIRT1 and protective effect of melatonin
11:45-11:50	Treethip Sukkho (Chiang Mai University, Thailand)
	Osteoprotective and osteoblastic potential of the <i>Sambucus javanica</i> Reinw ex Blume subsp. <i>javanica</i> leave

12:00-13:30	SFRR-China Business Meeting Lunch Provided	Conference 2-6&7 on the second floor of Kuntai Hotel
12:00-12:30	Lunch	The Ballroom
12:30-13:30	Poster (P101-P210)	The Ballroom C

Plenary Lecture-4 (PL-4)		The Ballroom
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Chair: Jian Kang Liu 刘健康 (University of Health and Rehabilitation Sciences/Xi'an Jiaotong University, China)

13:30-14:00	Rui-Ping Xiao 肖瑞平 (Peking University, China)
	Role of CaMKII in heart cell fate regulation

Plenary Lecture-5 (PL-5)		The Ballroom
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Chair: Yan-Zhong Chang (Hebei Normal University, China)

14:00-14:30	Zu-Hang Sheng (National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health(NIH), USA)
	Energy Matters: Reprogramming of Redox Signaling and Mitochondrial Energy Metabolism in Aged Neurons

14:30-14:50	Coffee Break	Poster Hall
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Oct. 23

14:50-17:00	Redox Future Perspective Forum —The road map for future redox biology and medicine	The Ballroom
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Topic 1, Redox is the basis of life and the common reason for diseases.

Topic 2, The main challenge of redox biology and medicine research in the future.

Topic 3, Advocating “International Redox-decode Project” with multidisciplinary global-level collaborations, in both basic and clinical research.

Chair: Rui-Ping Xiao 肖瑞平 (Peking University, China)

14:50-16:30	Opening Message (Video) from Prof. Helmut Sies, Heinrich-Heine-Universitat Düsseldorf, Germany Panelist Discussion Chang Chen, China / Andrew Bulmer, Australia / Francisco Laurindo, Brazil / Giovanni Mann, UK / Juan Sastre, Spain / Lin Mantell, USA / Malcolm Jackson, UK / Michael J Davies, Denmark / Xingen Lei, USA / Young-Joon Surh, Korea / Yuji Naito, Japan / Zu-Hang Sheng, USA
16:30-17:00	Open for Discussion

17:00-18:00	Exhibition Exchange	Exhibition Hall
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18:00-22:00	Closing & Award Ceremony & Banquet	The Ballroom
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Chair: Jiangang Shen 沈剑刚 (The University of Hong Kong, China)

