

Abstracts of papers presented
at the 2025 Cold Spring Harbor Asia Conference

FROM MECHANISMS TO THERAPIES: TARGETING CARDIOMETABOLIC COMPLICATIONS IN OBESITY & DIABETES

December 15–December 19, 2025

Arranged by

Ana Maria Cuervo, *Albert Einstein College of Medicine*

Roger Foo, *National University Health System*

Antonio Vidal-Puig, *University of Cambridge*

Huangtian Yang, *Shanghai Institute of Nutrition and Health, CAS*



Cold Spring Harbor Conferences Asia
Cold Spring Harbor Laboratory



**FROM MECHANISMS TO THERAPIES: TARGETING
CARDIOMETABOLIC COMPLICATIONS IN OBESITY AND DIABETES**

Monday, December 15 – Friday, December 19, 2025

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|-----------|---------|--|
| Monday | 7:00 pm | 1 Keynote Session: Lipotoxicity in Cardiometabolic Diseases |
| Tuesday | 9:00 am | 2 The Problem: Cardiometabolic Complications: Mechanisms and Pathophysiology |
| Tuesday | 2:00 pm | Poster Session |
| Tuesday | 7:00 pm | 3 Metabolic Flexibility and Inter-organ Communication |
| Wednesday | 9:00 am | 4 Cellular Response to Metabolic Stress: Inflammation, Autophagy, and Stress Adaptation |
| Wednesday | 1:30 pm | <i>Visit to Old Suzhou*</i> |
| Wednesday | 7:00 pm | 5 Interaction with Exposome: Environmental Factors and Gene-Diet Interactions |
| Thursday | 9:00 am | 6 Cardiometabolic Disease Modeling |
| Thursday | 2:00 pm | 7 Epigenetics and Gene Regulation in Metabolism |
| Thursday | 5:00 pm | <i>Cocktails and Banquet</i> |
| Friday | 9:00 am | 8 Precision Medicine, Therapies, and Biomarkers for Cardiometabolic Disease |

Oral presentation sessions are located in the CSHA Auditorium

Poster session is in the Lake Front Hall.

Cocktail social hour is held outside in the Suz Garden.

Old Suzhou visits depart from the CSHA lobby

**optional tour requires additional fee.*

Meal locations and times are as follows:

Lunch: Main Cafeteria 12:00pm - 1:30pm

Dinner: Main Cafeteria 6:00pm - 7:30pm

Banquet: Suz Garden 6:00pm

More information will be available at CSHA office.

(Map at the end of this abstract book)

PROGRAM

MONDAY, December 15—7:00 PM

SESSION 1 KEYNOTE SESSION

Chairpersons: **Antonio Vidal-Puig**, University of Cambridge, Cambridge, United Kingdom
Huangtian Yang, Chinese Academy of Sciences, Shanghai, China

New gut microbial metabolites and enzymes regulate the host's metabolic homeostasis

Changtao Jiang [35'+10']

Presenter affiliation: Peking University, Beijing, China.

1

Lipid-sensing nuclear receptors—Gatekeepers of cardiometabolic health

Bart Staels [35'+10']

Presenter affiliation: University of Lille, Lille, France.

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TUESDAY, December 16—9:00 AM

SESSION 2 THE PROBLEM: CARDIOMETABOLIC COMPLICATIONS: MECHANISMS AND PATHOPHYSIOLOGY

Chairpersons: **Rong Tian**, University of Washington, Seattle, Washington, USA
Takashi Miki, Chiba University Graduate School of Medicine, Chiba, Japan

Systemic magnesium dysregulation connects metabolic stress to liver pathophysiology

Malu Martinez Chantar [20'+5']

Presenter affiliation: CIC bioGUNE, Derio, Spain.

3

Exercise management of metabolic dysfunction-associated fatty liver disease

Yida Tang [20'+5']

Presenter affiliation: Peking University, Beijing, China; Peking University Third Hospital, Beijing, China.

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Characteristics of lipid metabolism in metabolic comorbidities
Xiongzong Ruan [20'+5']
Presenter affiliation: Chongqing Medical University, Chongqing, China. 5

Impaired mitochondria quality control in heart failure with preserved ejection fraction
Rong Tian, Durba Banerjee, Yajun Wang, Akira Yoshii, Melisa Herrero, Tim McMillen, Lena Johnson [20'+5']
Presenter affiliation: University of Washington, Seattle, Washington. 6

Break

The zinc transporter ZIP7 and diabetic cardiomyopathy
Ningzhi Yang, Hualu Zhang, Zhelong Xu [10'+5']
Presenter affiliation: Tianjin Medical University, Tianjin, China. 7

Shared metabolic regulators in obesity and cardiovascular disease
Ling Chen, Yujie Zhu, Lemin Zheng, Liangwan Chen [10'+5']
Presenter affiliation: Peking University, Beijing, China. 8

Global molecular landscape of early MASLD progression in obesity
Qing Zhao, William De Nardo, Ruoyu Wang, Yi Zhong, Umur Keles, Gabrielé Sakalauskaite, Li Na Zhao, Huiyi Tay, Paul R. Burton, Volker M. Lauschke, Hyungwon Choi, Matthew J. Watt, Philipp Kaldis [10'+5']
Presenter affiliation: Lund University, Clinical Research Centre (CRC), Malmö, Sweden. 9

Endothelial dysfunction drives myocardial telomere attrition and metabolic dysfunction in heart failure with preserved ejection fraction
Xin Wan, Hongmei Li, Shuying Huang, Xiaolu Bao, Suhui He, Alian Zhang, Huili Zhang, Alex C. Chang [10'+5']
Presenter affiliation: Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China. 10

Bone morphogenetic protein 9 (BMP9) signalling in brown and white adipocytes
Benjamin Constant, Xudong Yang, Lu Long, Ioannis Kamzolas, Jingxu Guo, Evangelia Petsalaki, Antonio Vidal-Puig, Wei Li [10'+5']
Presenter affiliation: University of Cambridge, Cambridge, United Kingdom. 11

POSTER SESSION

Telomeric recapping restores myocardial glucose homeostasis in diabetic cardiomyopathy

Xiaolu Bao, Yinlong Zhao, Xin Wan, Suhui He, Alex CY Chang

Presenter affiliation: Shanghai Jiao Tong University School of Medicine, Ninth People's Hospital, Shanghai, China.

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GPR146 in adipose tissue drives adipose-liver crosstalk and promotes hepatic steatosis

Yu Shi, Kaiyan Cheng, Thi Tun Thi, Yifan Wang, Yang Yang, Xiaoyun Cao, Vanna Chhay, Yujia Shen, Haojie Yu

Presenter affiliation: National University of Singapore, Singapore.

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Identifying novel drivers of cardiac lineage specification and cardiomyocyte maturation using paired short/long-read scRNA-seq

Ryan D. Fan, Elaine Cao, Aneesh Bondugula, Faith Ong, Jay W. Shin, Roger Foo

Presenter affiliation: National University of Singapore, Singapore; ASTAR, Singapore.

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TMEM189/PEDS1 deficiency aggravates metabolic dysfunction-associated steatohepatitis by promoting hepatic macrophages activation

Pengli Guo, Yingyu Chen

Presenter affiliation: Peking University, Beijing, China.

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The role of altered lipid composition during MASLD development

Hao Jia, Shuhua Yue, Antonio Vidal-Puig

Presenter affiliation: University of Cambridge, Cambridge, United Kingdom.

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Telomere deprotection promotes the pathogenesis of HFpEF by impairing myocardial mitochondrial function

Xin Wan, Hongmei Li, Shuying Huang, Xiaolu Bao, Alex Chia Yu Chang#

Presenter affiliation: Shanghai Institute of Precision Medicine, Shanghai, China.

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- Tenascin-X regulates vascular cell plasticity by inhibiting TGF- β signaling during vascular disease**
Guozheng Liang
 Presenter affiliation: Soochow University, Suzhou, China; Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany. 18
- Depletion of mPGES-1 ameliorates lipopolysaccharide-induced sepsis in mice**
Teng Yue Luo
 Presenter affiliation: Chinese Academy of Medical Sciences, Beijing, China. 19
- Decoding macrophage-specific genetic drivers of coronary artery disease through integrative genomics and high-content functional screening**
 Yu Shi, Chenhui Ma, Yifan Wang, Jingyu Qin, Haojie Yu
 Presenter affiliation: Yong Loo Lin School of Medicine, National University of Singapore, Singapore. 20
- Unexpected cardioprotection in doxorubicin-treated mice during sepsis—Dennd4a-GLUT4 axis as a potential mediator of metabolic remodelling**
Kasturi Markandran, Rina Wang Miao Qin, Yee Phong Lim, Ching Kit Chen
 Presenter affiliation: Yong Loo Lin School of Medicine, National University of Singapore, Singapore. 21
- Structural insights into CNNM-mediated magnesium transport**
 Carolina Conter, Davide Pietrafesa, Maria Luz Martinez-Chantar, Luis Alfonso Martinez-Cruz
 Presenter affiliation: CIC bioGUNE (Center for Cooperative Research in Biosciences), Derio, Spain. 22
- Role of *Pla2g6* in adipocyte differentiation and function**
Jaime Navarro Perez, Cristina Galiana Rosello, Sergio Rodriguez Cuenca, Sonia Rodriguez Fernandez, Francisco Garcia Garcia, Antonio Vidal Puig, Stefania Carobbio
 Presenter affiliation: Centro de Investigacion Principe Felipe, Valencia, Spain. 23
- Mapping stress response-QTLs using iPSC-cardiomyocytes for heart failure**
Brandon Tan, Zi Hao Lin, Wei Qiang Seow, Roger Foo
 Presenter affiliation: National University of Singapore, Singapore. 24

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| <p>Genetically informed subtyping of obesity using EHR-linked Biobank data enhances precision prediction of comorbidities and pharmacotherapy response <u>Shulan Tian</u>, Huihuang Yan, Andres J Acosta, Maria L Collazo-Clavell, Konstantinos N Lazaridis, Eric W Klee Presenter affiliation: Mayo Clinic, Rochester, Minnesota.</p> | 25 |
| <p>Adipocyte-derived exosomal miR-5099 reduces adipose inflammation to improve metabolic health of obese mice <u>Li Wang</u>, Lijun Di Presenter affiliation: University of Macau, Macau, China.</p> | 26 |
| <p>MAOA-targeted gene therapy for pathological cardiac hypertrophy critically modulates nuclear cAMP nanodomains Wenjing Xiang, Supeng Li, Xingsheng Sun, Huaihao Fu, Yifan Zhao, Yang Kevin Xiang, Haibo Ni, <u>Ying Wang</u> Presenter affiliation: Southeast University, Nanjing, China.</p> | 27 |
| <p>Arachidonic acid provides cardioprotection while mitigating gastrointestinal bleeding in pigs with acute myocardial infarction subjected to reperfusion and dual antiplatelet treatment <u>Xuejian Yang</u>, Qing Wan, Jianfeng Yang, Hong Chen, Miao Wang Presenter affiliation: State Key Laboratory of Cardiovascular Disease, Fuwai Hospital, Beijing, China.</p> | 28 |
| <p>CRISPR screening for novel genes regulating macrophage cholesterol efflux in atherosclerosis <u>Yang Yang</u>, Yu Shi, Vanna Chhay, Haojie Yu Presenter affiliation: National University of Singapore, Singapore.</p> | 29 |
| <p>Protein palmitoylation in pathophysiology of cardiometabolic complications Tongyao Wang, Zihang Huang, <u>Linqi Zeng</u>, Aijun Sun, Junbo Ge Presenter affiliation: Zhongshan Hospital, Fudan University, Shanghai, China; National Health Commission, Shanghai, China; Chinese Academy of Medical Sciences, Key Laboratory of Viral Heart Diseases, Shanghai, China.</p> | 30 |
| <p>Unlocking the secrets of cardiac metabolism in heart failure Xiaokai Zhang, <u>Linqi Zeng</u>, Aijun Sun, Junbo Ge Presenter affiliation: Zhongshan Hospital, Fudan University, Shanghai, China; Zhongshan Hospital, Fudan University, Shanghai, China; National Health Commission, Shanghai, China, Chinese Academy of Medical Sciences, Key Laboratory of Viral Heart Diseases, Shanghai, China.</p> | 31 |

Cardiac fibroblast Foxm1 deficiency prevents pressure overload-induced cardiac remodeling via the Usp10/p38γ MAPK axis

Shuai Song, Linqi Zeng, Xiaokai Zhang, Zihang Huang, Aijun Sun, Junbo Ge

Presenter affiliation: Zhongshan Hospital, Fudan University, Shanghai, China; National Health Commission, Shanghai, China, Chinese Academy of Medical Sciences, Key Laboratory of Viral Heart Diseases, Shanghai, China.

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How excess fat affects cardiac electrophysiology—Preclinical obesity, clinical obesity with cardiac arrhythmias and ECG features

Nan Zhang, Jinhua Zhao, Gary Tse, Tong Liu

Presenter affiliation: Tianjin Key Laboratory of Ionic-Molecular Function of Cardiovascular Disease, Tianjin, China.

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TUESDAY, December 16—7:00 PM

SESSION 3 METABOLIC FLEXIBILITY AND INTER-ORGAN COMMUNICATION

Chairpersons: **Xinliang Ma**, Thomas Jefferson University, Philadelphia, Pennsylvania, USA
Stefania Carobbio, Centro de Investigacion Principe Felipe, Valencia, Spain

RNAkines are secreted messengers shaping health and disease

Chen-Yu Zhang [20'+5']

Presenter affiliation: Nanjing Univrsity, Nanjing, China.

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Targeting adipocytes against metabolic cardiovascular disease

Xin-Liang Ma [20'+5']

Presenter affiliation: Thomas Jefferson University, Philadelphia, Pennsylvania.

35

A high-throughput physiological screen reveals a conserved catecholamine-dependent axis regulating systemic metabolic flexibility

Antonio Vidal-Puig, Guillaume Bidault [20'+5']

Presenter affiliation: University of Cambridge, Cambridge, United Kingdom; Centro Investigacion Principe Felipe, Valencia, Spain; Cambridge University Nanjing Centre of Technology and Innovation, Nanjing, China.

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Break

Obesity and whole-life-cycle cardiovascular disease risk prevention and control

Ming Xu [10'+5']

Presenter affiliation: Peking University Third Hospital, Beijing, China. 37

From silence to dialogue—Secreted microRNAs bridge inter-organ metabolic communication

Xiaohong Jiang [10'+5']

Presenter affiliation: Nanjing University, Nanjing, China. 38

Bile acid-FXR signaling drives macrophage efferocytosis and heart repair via fatty acid metabolic reprogramming

QuanChi L. Liu, RuiLin C. Chen, XiaoMing X. Xu, ZhaoYi L. Luo, JianLong C. Cui, CongYe L. Li, YongZhen G. Guo, WenJun Y. Yan, YunLong X. Xia, Ling T. Tao [10'+5']

Presenter affiliation: The First Affiliated Hospital of Air Force Medical University, Xi'an, China. 39

Hydoxycholeic acid suppresses hepatosteatosis via a iNKT Cell-PPAR α immunometabolic axis

Eunyoung Lee, Ryo Hatano, Hayato Yoshikawa, Jing Li, Sergio Rodriguez-Cuenca, Antonio Vidal-Puig, Takashi Miki [10'+5']

Presenter affiliation: Chiba University, Chiba, Japan; University of Cambridge, Cambridge, United Kingdom. 40

WEDNESDAY, December 17—9:00 AM

SESSION 4 CELLULAR RESPONSE TO METABOLIC STRESS: INFLAMMATION, AUTOPHAGY AND STRESS ADAPTATION

Chairpersons: **Shuxiang Dong**, Shanghai Jiao Tong University, Shanghai, China
Maria Moreno-Aliaga, University of Navarra, Pamplona, Spain

Pharmacological attenuation of the integrated stress response in health and disease

Lauren Lebon, Karin Lin, Katherine Labbe, Bryan King, Ngoc Vu, Rejani B. Kunjamma, Nina Ly, James Lee, Jyoti Asundi, Amos Baruch, Bryson D. Bennett, Carmela Sidrauski [20'+5']

Presenter affiliation: Calico Lifes Sciences LLC, South San Francisco, California. 41

Chaperone-mediated autophagy—Regulating metabolic adaptation one protein at a time

Ana Maria Cuervo [20'+5']

Presenter affiliation: Albert Einstein College of Medicine, New York, New York.

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The duet of cardiac protection—Mitochondrial metabolism and inflammation

Aijun Sun [20'+5']

Presenter affiliation: Fudan University, Shanghai, China.

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Break

Chaperone-mediated autophagy in mesenchymal stem cells regulates adipogenic differentiation and hematopoietic stem cell maintenance

Shuxian Dong [10'+5']

Presenter affiliation: Shanghai Jiaotong University, Shanghai, China.

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Adipocyte-specific deletion of *Prdm1* confers resistance to diet-induced obesity and prevents MASLD development in mice

Adrián Idoate-Bayón, Irene Vides-Urrestarazu, Neira Sáinz, Álvaro Pejenaute, Mónica Alfonso-Nuñez, Marta Fernández-Galilea, José A. Martínez-Climont, M. Pilar Lostao, María J. Moreno-Aliaga [10'+5']

Presenter affiliation: University of Navarra, Pamplona, Spain; CIBEROBN, Madrid, Spain; IdiSNA, Pamplona, Spain.

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Protecting the diabetic heart from acute myocardial ischemia-reperfusion injury to prevent heart failure

Linh Chi Dam, Sze Jie Loo, Devika Menon, Gustavo E. Crespo-Avilan, Jianhong Ching, Shengjie Lu, Sonia Chothani, Wei-Wen Lim, Sauri Hernandez-Resendiz, Derek J. Hausenloy [10'+5']

Presenter affiliation: Duke-NUS Medical School, Singapore; National Heart Centre Singapore, Singapore.

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RBP6-mediated JUNB degradation disrupts endothelial 3D genome architecture in diabetes

Lei Jiang, Xiaofei Yang, Wei Huang, Ruixin Zhou, Shiyu Zheng, Yelan Li, Ning Tan, Siim Pauklin, Sakthivel Sadayappan, Chunxiang Zhang, Wanzi Hong, Mingyang Wang, Hannah Morgan, Keara Little, Furong Li, Gangjian Qin, Liuyang Cai, Yuliang Feng [10'+5']

Presenter affiliation: Southern University of Science and Technology, Shenzhen, China.

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WEDNESDAY, December 17—1:30 PM

Visit to Old Suzhou

WEDNESDAY, December 17—7:00 PM

SESSION 5 INTERACTION WITH EXPOSOME: ENVIRONMENTAL FACTORS AND GENE-DIET INTERACTIONS

Chairperson: **Jiayu Feng**, National University of Singapore, Singapore

A multi-omics atlas of insulin sensitization defines molecular subgroups and predictors of response to the Pan-PPAR agonist chiglitazar in type 2 diabetes

Zehui Cao, Haonan Chen, Jiaqi Li, Naixin Zhang, Xianping Lu, Leming Shi, Yuanting Zheng [20'+5']

Presenter affiliation: Fudan University, Shanghai, China; International Human Phenome Institutes (Shanghai), Shanghai, China. 48

Isoform regulation is a key factor in metabolic adaptation to nutrient changes

Lei Sun [20'+5']

Presenter affiliation: Wuhan University, Wuhan, China. 49

Metabolite sensing and cardiometabolic diseases

Yaxin Niu, Shengmin Hu, Yanfeng Zhang, Li Chen, Lin Xu, Tongjin Zhao, Ruth Loos, Ruobing Ren, Peng Li, Antonio Vidal-Puig, Linzhang Huang [20'+5']

Presenter affiliation: Fudan University, Shanghai, China. 50

New concept and new approach based precision nutrition and metabolic health studies

Xu Lin, Yanpu Wu, Kanhui Kang [20'+5']

Presenter affiliation: Chinese Academy of Sciences, Shanghai, China; niversity of Chinese Academy of Sciences, Hangzhou, China. 51

ALDH2 rs671 polymorphism and metabolic signatures in patients with cardiovascular diseases

Linqi Zeng, Xiaokai Zhang, Aijun Sun, Junbo Ge [10'+5']

Presenter affiliation: Zhongshan Hospital, Fudan University, Shanghai, China; National Health Commission, Shanghai, China; Chinese Academy of Medical Sciences, Key Laboratory of Viral Heart Diseases, Shanghai, China. 52

SESSION 6 **CARDIOMETABOLIC DISEASE MODELING**

Chairpersons: **Gabriele G. Schiattarella**, Charité-Universitätsmedizin
and Max Delbrück Center for Molecular Medicine, Berlin,
Germany
 Bin Zhou, Peking University, Beijing, China

Systems modelling and mechanisms of interorgan crosstalk in HFpEF

Gabriele Schiattarella MD PhD [20'+5']

Presenter affiliation: Charité-Universitätsmedizin Berlin and Max
Delbrück Center for Molecular Medicine, Berlin, Germany.

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Tracing the origins of de novo coronary collateral formation in cardiac repair

Mingjun Zhang, Kathy O. Lui, Bin Zhou [20'+5']

Presenter affiliation: Chinese Academy of Sciences, Shanghai, China.

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Upgrading AAV vectors for heart diseases

Yuxuan Guo [10'+5']

Presenter affiliation: State Key Laboratory of Vascular Homeostasis
and Remodeling, Peking University, Beijing, China.

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Human epicardial adipocytes—The establishment of differentiation models, molecular mechanisms of fate determination and their role in cardiac fibrosis

Lingye Chen, Zhongyan Chen, He Xu, Bin Li, Jixing Gong, Nan Cao
[10'+5']

Presenter affiliation: Sun Yat-Sen University, Guangzhou, China.

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Break

Inflammation and intervention in ischemic heart disease

Miao Wang [10'+5']

Presenter affiliation: Chinese Academy of Medical Sciences and
Peking Union Medical College, Beijing, China.

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A scaffold-free human 4-cell-type cardiac microtissue model for investigating metabolic stress-induced heart failure

Khe Ying Chong, Chang Jie Mick Lee, Roger Sik Yin Foo [10'+5']

Presenter affiliation: Cardiovascular and Metabolic Disease Translational Research Programme, National University of Singapore, Singapore.

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Modeling lipid metabolism deficiency and cardiac dysfunction in human engineered heart tissue

Bangfen Pan, Adriano de Britto Chaves Filho, Zihao chen, Ali Reza Saadatmand, Almut Schulze, Johannes Backs [10'+5']

Presenter affiliation: Heidelberg University, Medical Faculty Heidelberg, Heidelberg, Germany; Heidelberg University Hospital, Heidelberg, Germany; German Center for Cardiovascular Research (DZHK), Heidelberg, Germany.

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Preclinical obesity, clinical obesity with cardiac phenotypes and CVD mortality

Nan Zhang, Jinhua Zhao, Gary Tse, Tong Liu [10'+5']

Presenter affiliation: Tianjin Key Laboratory of Ionic-Molecular Function of Cardiovascular Disease, Tianjin, China.

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THURSDAY, December 18—2:00 PM

SESSION 7 EPIGENETICS AND GENE REGULATION IN METABOLISM

Chairperson: **Haojie Yu**, National University of Singapore, Singapore

The m6A RNA modification pathway in the regulation of cardiac and systemic metabolism

Federica Accornero [20'+5']

Presenter affiliation: Brown University, Providence, Rhode Island.

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Epigenetic mechanisms in type 2 diabetes and cardiometabolic disease

Charlotte Ling [20'+5']

Presenter affiliation: Lund University, Malmö, Sweden.

62

Genetic subtypes of obesity—Dissecting mechanisms and translating insights

Ruth J.F. Loos [20'+5']

Presenter affiliation: University of Copenhagen, Copenhagen, Denmark.

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Break

Mutation of an epigenetic modifier causes fatty liver disease in mice

Elena Ivanova, Andrews Simon, Isabel Fuster Martinez, Antonio Vidal-Puig, Gavin Kelsey [20'+5']

Presenter affiliation: Babraham Institute, Cambridge, United Kingdom; University of Cambridge, Cambridge, United Kingdom.

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METTL14 inhibits atherogenesis through epigenetically activating fatty acid oxidation in VSMCs

Lei Cui, Kathy Lui [10'+5']

Presenter affiliation: The Chinese University of Hong Kong, Hong Kong, China.

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SIRT6 protects against cardiomyocyte lipotoxicity in hypothyroidism-induced myocardial injury

Chen Li, Yuangengshuo Wang, Jun Hao, Yi-Da Tang [10'+5']

Presenter affiliation: Peking University Third Hospital, Beijing, China; Peking University, Beijing, China.

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FRIDAY, December 19—9:00 AM

SESSION 8 PRECISION MEDICINE, THERAPIES AND BIOMARKERS FOR CARDIOMETABOLIC DISEASE

Chairperson: **Daniel Yim**, National University of Singapore, Singapore

Novel targets of intervention for cardiometabolic healthy longevity

Yibin Wang [20'+5']

Presenter affiliation: DukeNUS Medical School, Singapore.

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Integrative single-cell and knowledge graph analyses reveal regulatory networks and therapeutic targets in brown adipose tissue differentiation

Fatima Baldo, Sonia R. Fernandez, Toni J. Vidal-Puig, Namshik Han [20'+5']

Presenter affiliation: University of Cambridge, Cambridge, UK.

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| <p>Mapping deeper into mouse models of coronary artery disease— Dual-omic atlas of cardiac tissue remodeling post myocardial infarction</p> <p>Lexie Zhao, Chenyuan Huang, Jiong-Wei Wang, Elisa Liehn, Roshni Singaraja, <u>Hyungwon Choi</u> [20'+5'] Presenter affiliation: National University of Singapore, Singapore.</p> | 69 |
| <p>Plasmalogen modulation as a therapeutic strategy for cardiometabolic disease</p> <p><u>Peter J. Meikle</u> [20'+5'] Presenter affiliation: Baker Heart and Diabetes Institute, Melbourne, Australia; La Trobe University, Melbourne, Australia.</p> | 70 |
| <p>Break</p> | |
| <p>Suppression of the prostaglandin I2-type 1 interferon axis induces extramedullary hematopoiesis to promote cardiac repair after myocardial infarction</p> <p><u>Ding Ai</u> [20'+5'] Presenter affiliation: Tianjin Medical University, Tianjin, China.</p> | 71 |
| <p>GPR75 in obesity and fatty liver disease—From mechanistic discovery to antagonist development</p> <p>Chenhui Ma, Xiaoyun Cao, Vanna Chhay, Yifan Wang, Thi Tun Thi, Yu Shi, Hui Li, Yilin Min, Kai Yan Cheng, Yang Yang, <u>Haojie Yu</u> [10'+5'] Presenter affiliation: National University of Singapore, Singapore.</p> | 72 |
| <p>Large scale multi-omic based unsupervised clustering of systemic metabolic disorders</p> <p><u>Jiayu Feng</u>, Roger Foo [10'+5'] Presenter affiliation: National University of Singapore, Singapore.</p> | 73 |