



第十八次中国暨国际生物物理大会（线上直播）

直播时间：2020年11月16-18日

第十八次中国暨国际生物物理大会线上会议日程

2020/11/16（周一）

院士论坛-纳米生物学与纳米生物催化（纳米酶）：新形势下的机遇与挑战/Academician Forum- Nanobiology and Nanobiocatalysis (Nanozymes): Opportunities and Challenges in a New Era Chairs: Xiyun Yan, Xiaogang Qu		
时间	报告人	报告题目及单位
15:00-15:30	Shaojun Dong	纳米酶的原子级结构设计与模拟 <i>(Changchun Institute of Applied Chemistry, CAS, China)</i>
15:30-16:00	Weihong Tan	TBD <i>(Hunan University, China)</i>
16:00-16:30	Jianlin Shi	Nanocatalytic Medicine <i>(Shanghai Institute of Ceramics, CAS, China)</i>
16:30-17:00	Jinghong Li	TBD <i>(Tsinghua University, China)</i>
17:00-17:30	Chunhai Fan	Framework Nucleic Acids-Guided Single-Molecule Analysis <i>(Shanghai Jiao Tong University, China)</i>



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代谢流技术和应用/Metabolic Flux Analysis: Techniques And Applications Chairs: Chen Yang, Hui Zhang

时间	报告人	报告题目及单位
15:30-15:45	Huiru Tang	Fast Quantitative Fluxomics For Metabolic Reprogramming (Fudan University, China)
16:00-16:15	Zhengjiang Zhu	Global Isotope Tracing In Untargeted Metabolomics For Measuring Metabolic Activity And Dynamics (Shanghai Institute Of Organic Chemistry, Cas, China)
16:15-16:30	Shuhai Lin	Stable Isotope-Assisted Metabolomics Reveals Glutamate Utilization In Lung Cancer (Xiamen University, China)
16:30-16:40	Yi Chi	Novel Metabolomics Technologies For Translational Medicine (Metabo-Profile Biotechnology (Shanghai) Co., Ltd.)
16:55-17:05	Haihong Zha	代谢流质谱分析挑战及技术进展 (Sciex, China)
17:05-17:20	Hui Zhang	Application Of Metabolic Flux Analysis In Biomedicine (Guangdong University Of Technology)

诊疗探针的基础研究与转化/Diagnostic And Therapeutic Agents: Translating Of Basic Research Into Real Medical Applications Chairs: Guangjun Nie, Daishun Ling

时间	报告人	报告题目及单位
15:30-15:40	Chunhai Fan	Opening Speech (Shanghai Jiao Tong University, China)
15:40-16:05	Yuanpei Li	Two-Way Magnetic Resonance Tuning And Enhanced Subtraction Imaging -A New Era For Non-Invasive And Quantitative Biological Imaging (University Of California, Davis, Usa)
16:05-16:30	Zongqiang Cui	Single Virus Tracking (Wuhan Institute Of Virology, Cas, China)
16:30-16:55	Gang Liu	Armed Oncolytic Adenovirus With Engineered Cell Membrane Expressing Pdl For Combinations Of Immune Checkpoint Blockade And Virotherapy (Xiamen University, China)
16:55-17:20	Aiguo Wu	Titanium Dioxide Based Nanoprobes In Cancer Theranostics (Ningbo Institute Of Materials Technology&Engineering, Cas, China)
17:20-17:40	Tianfeng Chen	Selenium Nanoparticles Regulates Selenoprotein To Boost Cancer Cell Immunotherapy (Jinan University, China)
17:40-18:00	Fangyuan Li	Stimuli-Responsive Nanoprobes For Molecular Imaging (Zhejiang University, China)
18:00-18:15	Xi Hu	Activity-Tunable Nanomaterials For Hepatobiliary And Pancreatic (Hbp) Cancers (The First Affiliated Hospital Of Zhejiang University, China)
18:15-18:30	Yang Du	Multifunctional Nanoassembly For Tumor Selective Phototherapy (The Second Affiliated Hospital Of Zhejiang University, China)



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微量元素前沿进展/Frontiers Of Bio-Trace Elements		
Chairs: Fudi Wang, Jing-Xia Liu		
时间	报告人	报告题目及单位
15:30-16:00	Fudi Wang	Ferroptosis As a Target For Protection Against Liver And Heart Disorders (Zhejiang University, China)
16:00-16:25	Minghui Gao	Metabolic Control Of Ferroptosis (Harbin Institute Of Technology, China)
16:25-16:50	Liwei Xie	Transferrin Receptor (Tfrr1) Ablation In Satellite Cells Impedes Skeletal Muscle Regeneration Through Activation Of Ferroptosis (Guangdong Institute Of Microbiology, Cas, China)
17:00-17:25	Lingqiang Zhu	Loss Of Ferroportin Induces Memory Impairment Via Promoting Ferroptosis In Alzheimer' s Disease (Huazhong University Of Science And Technology, China)China)
17:25-17:50	Yi Liang	Cryo-Em Structure Of An Amyloid Fibril Formed By Full-Length Human Prion Protein And Modulated By Zinc (Wuhan University, China)
17:50-18:15	Jing-Xia Liu	Studies On Fish Developmental Genetics In Imbalanced Copper Homeostasis (Huazhong Agricultural University, China)

表型组学前沿研究/Frontiers In Phenomics		
Chairs: Li Jin, Jianping Weng		
时间	报告人	报告题目及单位
15:00-15:30	Yixue Li	A Pharmaco-Genomic Landscape In Human Liver Cancers-From Cell Lines To Patients (Shanghai Institute Of Nutrition And Health, Cas, China)
16:30-17:00	Xiangmi Xu	β -地中海贫血的表型变异研究及临床应用 (Southern Medical University, China)

2020/11/17 (周二)



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创新分子诊断，推进精准医疗/Innovating Molecular Diagnosis, Promoting Precision Medicine

Chairs: Zhengli Yang, Lei Zheng

时间	报告人	报告题目及单位
13:10-13:55	Yaoguang Liu	Tbd (South China Agricultural University, China)
13:55-14:20	Jinliang Xing	Ngs-Based Profiling Reveals a Critical Contributing Role Of Somatic D-Loop Mtdna Mutations In Hbv-Related Hepatocarcinogenesis (The Fourth Military Medical University, China)
14:20-14:45	Lei Zheng	Tbd (Southern Hospital Of Southern Medical University, China)
14:45-15:10	Ming Chen	Tbd (Third Military Medical University, China)
15:10-15:35	Fenyong Sun	新型肝癌标志物的研发与转化 (Shanghai 10th People's Hospital, China)
15:35-16:00	Jiyun Yang	Molecular Genetic Diagnosis In Patients With Disorders Of Sex Development (Sichuan People's Hospital Of University Of Electronic Science And Technology, China)

罕见代谢性疾病的药物和基因治疗进展/Advances In Drug And Gene Therapy For Rare Metabolic Diseases

Chairs: Hongwen Zhou, Hong Chen

时间	报告人	报告题目及单位
13:05-13:30	Yaxiong Tao	Monogenic Obesity: Towards Precision Medicine (South China Agricultural University, China)
13:35-14:00	Yanbing Li	Cah的诊断和治疗 (The First Affiliated Hospital Of Sun Yat Sen University, China)
14:05-14:30	Bin Zhou	家族性高胆固醇血症的基因编辑和治疗 (Center Of Excellence And Innovation In Molecular Cell Science, Cas, China)
14:35-15:00	Yaoming Xue	Ihh的诊治策略 (Southern Hospital Of Southern Medical University, China)
15:05-15:30	Keqin Zhang	Progress In The Diagnosis And Treatment Of Fibrodysplasia Ossificans Progressiva (Tongji Hospital Affiliated To Tongji University, China)
15:35-16:00	Hong Chen	探秘雄激素不敏感综合征 (Zhujiang Hospital Of Southern Medical University, China)



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生物膜与人类健康/Biomembrane And Health

Chairs: Xingguo Liu, Chuanmao Zhang

时间	报告人	报告题目及单位
13:00-13:25	Wei Li	How Does The Recycling Endosome Bypass The Microtubule Intersections During Its Long-Range Transport? (Capital Medical University, China)
13:25-13:50	Anbing Shi	Let-502/Rock Modulates Rab-5 Dynamics In a Distinct Subset Of Sorting Endosomes (Huazhong University Of Science And Technology, China)
13:50-14:15	Xingguo Liu	Mr. & Mrs. Mitochondria And Nucleus In Cell Reprogramming (Guangzhou Institute Of Biomedicine And Health, Cas, China)
14:15-14:40	Jianfeng Liu	Allosteric Control Of Dynamic GPCR Dimers (Huazhong University Of Science And Technology, China)
14:40-15:05	Dong Li	Structured Illumination Microscopy For Super-Resolution Live-Cell Imaging (Institute Of Biophysics, Cas, China)
15:05-15:30	Xiaoyan Zhang	Golgi Structure Formation, Function And Response To Cellular Stresses (Huazhong Agricultural University, China)
15:30-15:55	Yuequan Shen	Structure And ATP Gating Mechanism Of CalHM1 Channel (Nankai University)
15:55-16:05	Qilin Lian	Nano-Scopy, Multi-Dimensional Imaging Helps To Decode Biological Information (Leica Microsystems, Shanghai, China)

健康与疾病的代谢调控/Metabolic Regulation In Health And Diseases

Chairs: Ping Gao, Hongwei Zhou

时间	报告人	报告题目及单位
13:00-13:25	Xun Huang	Neuronal Lipid Droplets And Neurodegeneration (Institute Of Genetics And Developmental Biology, Cas, China)
13:25-13:50	Hongwei Zhou	人体微生物组新型标志物挖掘 (Southern Medical University, China)
13:50-14:15	Xin Pan	The Firework Of Life: a Mitochondrial Ca ²⁺ Transient Mediates Acute Energy Supply For Mitotic Progression. (Academy Of Military Medical Sciences, China)
14:15-14:40	Ping Gao	Cmyc-Mediated Epigenetic Regulation Of Cancer Metabolism (South China University Of Technology, China)
14:40-15:05	Shicheng Su	长城烽火台：膜信号分子调控炎症微环境 (Sun Yat-Sen University, China)
15:05-15:30	Zijian Zhao	肠道菌群失衡与生精障碍 (Guangdong University Of Technology, China)
15:30-15:55	Jingyan Zhang	肠道微生物调控宿主发育的机制研究 (Fudan University)



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干细胞衰老机制与疾病防治策略/Stem Cell Ageing And Disease Prevention		
Chairs: Junping Liu, Guanghui Liu		
时间	报告人	报告题目及单位
16:30-16:45	Jing Qu	Single-Cell Transcriptional Landscape Of Primate Aging (Institute Of Zoology, Cas, China)
16:45-17:00	Baohua Liu	Sirt7 And Hair Follicle Stem Cells In Aging (Shenzhen University, China)
17:00-17:15	Zhixiong Xiao	毛囊干细胞衰老及异常增生的机制 (Sichuan University, China)
17:15-17:30	Guanghui Liu	Programming And Reprogramming Of Aging (Institute Of Zoology, Cas, China)
17:30-17:45	Xinguang Liu	衰老相关蛋白的筛选及Pck1作用的分子机制研究 (Guangdong Medical University)
17:45-18:00	Yangzhou Song	Dna Repeat Stability In Stem Cell Aging (Sun Yat-Sen University, China)
18:00-18:15	Jing Ye	Telomeric Protein Trf2 In Neurogenesis (Shanghai Jiao Tong University, China)
18:15-18:30	Lihui Wang	Mechanism Of Pulmonary Alveolar Stem Cell Senescence (Hangzhou Normal University, China)
18:30-18:45	Xiaoman Wang	From Custom Compound Library To Organic Synthesis (Institute Of Biochemistry And Cell Biology, Shanghai Institutes For Biological Sciences, China)

生物大分子与人类健康/Biomacromolecules And Health		
Chairs: Runming Xun, Yihua Huang		
时间	报告人	报告题目及单位
16:30-16:55	Jin Wang	Modeling The Biomolecules: From Proteins To Genes (The State University Of New York At Stony Brook, Usa)
16:55-17:20	Peng Zhang	Structural And Regulatory Mechanism Of Eukaryotic Phospholipase D (Cas Center For Excellence In Molecular Plant Sciences/ Institute Of Plant Physiology And Ecology, China)
17:20-17:45	Peilong Lu	Computational Design Of Transmembrane Proteins (Westlake University, China)
17:45-18:00	Changlin Tian	Preliminary Analysis Of Fundamental Properties Of Ion Channels Using Molecular Biophysical Methods (Beijing Chaoyang Hospital Affiliated To Capital Medical University, China)
18:00-18:25	Zhiwei Huang	Crispr-Cas适应性免疫系统及其被病毒拮抗的分子机制 (Harbin Institute Of Technology, China)
18:25-18:50	Xiangxi Wang	Structure-Based Development Of Human Antibody Cocktails Against Sars-Cov-2 (Institute Of Biophysics, Cas, China)
18:50-19:15	Yi Shi	Viral Polymerase And Design Broad-Spectrum Drug (Institute Of Microbiology, Cas, China)
18:15-19:30	Wei Chen	Mechanical Activation Of Sars-Cov-2 Spike Directs Viral Infection (Zhejiang University, China)



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纳米科技与健康 I/Nanotechnology And Health I Chairs: Xingjie Liang, Bingyang Shi

时间	报告人	报告题目及单位
16:30-16:55	Kenneth A. Dawson	Tbd <i>(University College Dublin)</i>
16:55-17:10	Bingyang Shi	Tbd <i>(Henan University)</i>
17:10-17:25	Daishun Ling	Dynamic Nanoparticle Assemblies For Biomedical Applications <i>(Zhejiang University, China)</i>
17:25-17:40	Peter S Timashev	Biological Atomic Force Microscopy: A Nano-Eye And A Nano-Probe <i>(Sechenov First Moscow State Medical University)</i>
17:40-18:05	Wolfgang J. Parak	Tbd <i>(Universität Hamburg)</i>
18:05-18:30	Zhuang Liu	Biomaterials To Boost Cancer Immunotherapy <i>(Soochow University, China)</i>
18:30-18:55	Yihai Cao	Clinical Translation Of Nanomedicine <i>(Karolinska Institute, Sweden)</i>
18:55-19:20	Peixuan Guo	Controlling Motion Direction Of Asymmetrical Hexameric Nanomotor By Rubbery Hinge, Arginine Finger And Channel Chirality <i>(The Ohio State University)</i>
19:20-19:45	Kam W. Leong	Tbd <i>(Columbia University)</i>

2020/11/18 (周三)



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纳米科技与健康 II/Nanotechnology And Health II Chairs: Bingyang Shi, Yuanyu Huang, Weisheng Guo

时间	报告人	报告题目及单位
13:00-13:25	Yaping Li	Engineered Drug Delivery Systems For Enhancing Cancer Immunotherapy <i>(Shanghai Institute Of Materia Medica, Cas, China)</i>
13:25-13:50	Haiyan Xu	Intracellular Ros Modulation Of Nanomaterials And Implications To Leukemia Treatment <i>(Institute Of Basic Medicine, Chinese Academy Of Medical Sciences)</i>
13:50-14:05	Xin Zhang	脑部疾病纳米基因药物递送策略：From Nature To “Nature” <i>(Institute Of Process Engineering, Cas)</i>
14:05-14:20	Yingqiu Xie	Carbon Nanodots: Exploit Strengths And Avoid Weaknesses <i>(Nazarbayev University)</i>
14:20-14:35	Weisheng Guo	Thinking Precise Nanomedicine To Circumvent The Adaptive Treatment Tolerance From The Clinic Perspective <i>(Guangzhou Medical University)</i>
14:35-14:50	Shuaidong Huo	Gold-Dna Assembly For Controlled Gene Silencing <i>(Xiamen University)</i>
14:50-15:05	Kelong Fan	Nanozyme: Design And Functionalization For Tumor Theranostic <i>(Institute Of Biophysics, Cas)</i>
15:10-15:25	Rongqi Huang	Biocompatible And Biodegradable Nanoparticles For Combined Cancer Therapy <i>(Fudan University, China)</i>
15:25-15:40	Leyu Wang	Graphene Elastic Conductive Composite Hydrogels With Three-Dimensional Vascular Channels For Myocardial Infarction Repair <i>(Southern Medical University, China)</i>
15:40-15:55	Chao Wang	Engineering Cell-Derived Systems For Immunotherapy <i>(Suzhou University, China)</i>
15:55-16:10	Yue Pan	Magnetic Core-Shell Nanomaterials For Mri/Ct Imaging-Guided Combined Photothermal/Radiation Therapy <i>(Sun Yat-Sen University, China)</i>
16:10-16:25	Yuanyu Huang	Nucleic Acid (Sirna) Delivery And Therapeutic Development <i>(Beijing Institute Of Technology, China)</i>
16:25-16:40	Dechao Niu	Block Copolymer-Mediated Silicon-Based Biomaterials <i>(East China University Of Science And Technology, China)</i>
16:40-16:55	Xue Xue	Blood-Brain Barrier Penetrating Sirna Nanomedicine For Alzheimer's Disease Therapy <i>(Nankai University, China)</i>
16:55-17:10	Xianzhu Yang	The Nanoassembly Of Doxorubicin And Sirna For Cancer Therapy <i>(South China University Of Technology, China)</i>



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冷冻电镜助力新冠病毒结构研究及疫苗与药物研发/Cryo-Em Used In Novel Coronavirus Research To Support Vaccine, Treatment Development Chairs: Yao Cong, Qingtao Shen

时间	报告人	报告题目及单位
15:00-15:20	Xinquan Wang	Bat And Pangolin Coronavirus Spike Glycoprotein Structures Provide Insights Into Sars-Cov-2 Evolution (Tsinghua University, China)
15:20-15:40	Qiang Zhou	Study On Infection Mechanism Of Sars-Cov-2 (Westlake University, China)
15:40-16:00	Sai Li	Molecular Architecture Of The Sars-Cov-2 Virus (Tsinghua University, China)
16:00-16:20	Yan Zhang	瑞德西韦抑制新冠病毒复制的机制 (Zhejiang University, China)
16:20-16:40	Yao Cong	Conformational Dynamics Of Sars-Cov-2 Trimeric Spike Glycoprotein In Complex With Receptor Ace2 Revealed By Cryo-Em (Institute Of Biochemistry And Cell, Cas, China)
16:40-16:52	Tianqing Zhang	New Advances In Cryo-Em And Clem (Thermo Fisher Scientific)

运动科学与健康/Exercise Science And Health Chairs: Ru Wang, Ning Chen

时间	报告人	报告题目及单位
13:55-14:20	Feng Gao	The Search For Exerkines: Challenges And Perspectives (Air Force Medical University, China)
14:20-14:45	Ning Chen	The Targeted Application Potentials Of Exercise Science Studies (Wuhan Sports University, China)
14:45-15:10	Li Zhang	The Neural Mechanism Of Exercise Training In Improving Mental Or Cognitive Disorders (Jinan University, China)
15:20-15:45	Ru Wang	Exercise And Nutrition Interventions For Diabetes (Shanghai University Of Sport, China)
15:45-16:10	Lei Feng	Health Education Of Weight Control (Shanghai Dianfeng Health Technology Co., Ltd., China)
16:35-17:00	Longhua Liu	Ppar γ Deacetylation Confers The Anti-Atherogenic Effect While Improving Endothelial Function (Shanghai University Of Sport, China)