

# 中国医学科学院

## 2024 中国医学科学院-自然期刊学术会议 会议通知

尊敬的专家：

为进一步促进基因组学和遗传学国际顶尖专家分享交流科研学术进展与成果，共建开放共享的合作平台，推动中外医学健康领域科研信息共享、科技成果共用，中国医学科学院拟于北京时间 2024 年 10 月 9 日至 10 月 11 日在中国北京举办 2024 中国医学科学院-自然期刊学术会议：基因组学（Human genetics and genomics: maximizing power to address complexity and human health）学术会议，诚邀您大家参加会议，分享最新科研进展，交流中外最新科研进展，建立更宽领域、更深层次的合作平台和网络。会议具体安排如下：

### 一、会议主题

#### 1. 人类遗传学与生物样本库（复杂特征和多样性）

Human genetics and biobanks (complex traits and diversity)

#### 2. 测序、变异检测和分析中的新兴技术

Emerging technologies in sequencing, variation  
detection and analysis

3. 基因组医学与多基因风险评分 (PRS)

Genomic medicine and PRS

4. 人类遗传学与生物样本库 (复杂特征和多样性)

Cancer genomics (single-cell, spatial etc.)

二、会议具体事项

1. 时间：北京时间 2024 年 10 月 9 日至 10 月 11 日 (10 月 9 日报到)

2. 地点：北京丽晶酒店 2 层大宴会厅 (地址：北京市东城区金宝街 99 号)

3. 日程 (详见附件)

4. 费用：参会人员差旅、食宿费用自理。

期待与您相约北京，共襄盛会！

联系人：玄之玄，15201507142；康娟，15001210942

附件：会议日程



## 一、会议基本信息：

会议时间：2024 年 10 月 9-11 日

会议地点：北京丽晶酒店

会议规模：200-250 人

会议主题：人类遗传学与基因组学 - 聚焦复杂性与健康

会议亮点：

随着高通量测序技术的飞速发展，我们能够以前所未有的精度解析人类基因组，从而揭示基因如何影响个体的生长、发育以及疾病易感性。在这一主题下，我们聚焦于复杂性疾病与健康的关系。复杂性疾病，如心脏病、糖尿病、癌症等，往往由多个基因与环境因素共同作用所致。通过基因组学研究，我们能够识别出与这些疾病相关的基因变异，并理解它们如何与环境因素相互作用，最终导致疾病的发生。

*Nature, Nature Genetics, Nature Methods, Nature Communications* 与中国医学科学院北京协和医学院合作举办“人类遗传学与基因组学 - 聚焦复杂性与健康”主题研讨会。在为期 3 天的会议中，我们将与国际顶级期刊编辑、国际遗传学与基因组学领域领军人物一起，深入探讨基因组学及遗传学复杂性与人类健康的关系与策略影响。

我们将重点讨论一下相关领域的主题：

- 1) **Human genetics and biobanks (complex traits and diversity)**  
人类遗传学与生物样本库（复杂特征和多样性）
- 2) **Cancer genomics (single-cell, spatial etc.)**  
癌症基因组学（单细胞、空间组学等）
- 3) **Genomic medicine and PRS**  
基因组医学与多基因风险评分（PRS）
- 4) **Emerging technologies in sequencing, variation detection and analysis**  
测序、变异检测和分析中的新兴技术

主办单位：中国医学科学院北京协和医学院

Springer Nature

协办单位：昌平国家实验室

北京大学

北京博奥晶典生物技术有限公司

赛纳生物科技（北京）有限公司

## 二、会议日程：

<b>Human Genetics and Genomics:</b> <b>Maximizing Power to Address Complexity and Human Health.</b>		
<b>Oct 9-11, 2024 (Wed-Fri)</b> <b>Regent Beijing, 99 Jinbao Street, Dongcheng District, 100005, China</b>		
<b>Oct 9<sup>th</sup> (Wed)</b>		
<b>12:00</b>	<b>13:00</b>	Registration Check-in 2 <sup>nd</sup> Floor, Regent & Lunch 3 <sup>rd</sup> Floor, Regent
<b>13:00</b>	<b>14:40</b>	<b>Opening Ceremony</b> Ballroom, Regent  <b>Jianwei Wang</b> Vice President of the Chinese Academy of Medical Sciences and Peking Union Medical College (CAMS & PUMC)
<b>13:00</b>	<b>13:20</b>	Welcome Remarks  <b>Xuetao Cao</b> Vice-minister and member of the Leading Party Members Group of the National Health Commission, Beijing, China
<b>13:20</b>	<b>14:00</b>	Keynote Lecture  <b>Single Cell Genomics: Technological Revolution, Scientific Advance and Medical Applications</b>  <b>Xiaoliang Sunney Xie</b> Changping Laboratory, Peking University, Beijing, China
<b>14:00</b>	<b>14:40</b>	Keynote Lecture  <b>Statistical Genetics Elucidates Disease Biology, Personalized Medicine, and Drug Discovery</b>  <b>Yukinori Okada</b> University of Tokyo, Osaka University Graduate School of Medicine, RIKEN Center for Integrative Medical Sciences, Osaka, Japan
<b>14:40</b>	<b>17:20</b>	<b>Session 1: Human Genetics and Biobanks (Complex Traits and Diversity)</b> <b>Chair:</b> Michelle Trenkmann, <i>Nature</i> Xiaoliang Sunney Xie, Changping Laboratory
<b>14:40</b>	<b>15:10</b>	<b>Harnessing the Power of Genetic Diversity in African Populations</b>  <b>Michele Ramsay</b> University of the Witwatersrand, Johannesburg, South Africa
<b>15:10</b>	<b>15:20</b>	<b>Flash Talk 1:</b> Genomic complexity in humans: genetic diversity, evolutionary origins, and functional implications Yafei Mao Shanghai Jiao Tong University, Shanghai, China

		<p><b>Flash Talk 2:</b> Decoding the genetic basis of abdominal aortic aneurysm Cuiping Pan Greater Bay Area Institute of Precision Medicine, Guangzhou, China</p>
15:20	16:10	Coffee Break and Posters Review
16:10	16:30	<p><b>Cross-ancestry Genome-wide Association Study augments Genetic Insights and Clinical Potentials for Refractive Error</b>  <b>Jian Yang</b> Westlake University, Hangzhou, China</p>
16:30	16:50	<p><b>Beyond Continental Groups: Unveiling Dynamic Human Genetic Communities with a Novel Network Analysis Pipeline</b>  <b>Mashaal Sohail</b> (Online) National Autonomous University of Mexico, Mexico</p>
16:50	17:20	<p><b>The Born in Guangzhou Cohort Study Enables Generational Genetic Discoveries</b>  <b>Xiu Qiu</b> Guangzhou Women and Children's Medical Center, Guangzhou, China</p>
18:00	19:00	<p>Reception Dinner 3<sup>rd</sup> Floor, Hua's Restaurant, Macau Center Wangfujing</p>
<b>Oct 10<sup>th</sup> (Thu)</b>		
08:15	09:00	<p>Breakfast 3<sup>rd</sup> Floor, Regent</p>
09:00	11:20	<p><b>Session 2: Emerging Technologies in Sequencing, Variation Detection and Analysis</b> <b>Chair:</b> Lin Tang, <i>Nature Methods</i> Yanyi Huang, PKU</p>
09:00	09:30	<p><b>Single-Cell &amp; Spatial Omics from Ice Age to Space Adventure</b>  <b>Rong Fan</b> Yale University, New Haven, USA</p>
09:30	09:50	<p><b>AI-empowered Spatial Transcriptomics and Precision Pathology</b>  <b>Mingyao Li</b> University of Pennsylvania Perelman School of Medicine, Philadelphia, USA</p>
09:50	10:00	<p><b>Flash Talk 3:</b> Simultaneous mapping of 3D genome structure and chromatin modification in single cells Jiankun Zhang Changping Laboratory, Beijing, China</p> <p><b>Flash Talk 4:</b> Measuring the impact of every single coding variant on human hemoglobin protein stability through deep mutational scanning (DMS) Xiaoyan Jia Greater Bay Area Institute of Precision Medicine, Guangzhou, China</p>

10:00	10:30	Coffee Break and Posters
10:30	11:00	<p><b>Multiplexed Profiling of RNA in-situ Through Single-Round of Imaging in Three-Dimensional Tissue</b></p> <p><b>Yanyi Huang</b> Peking University, Beijing, China</p>
11:00	11:20	<p><b>Genomics and Microfluidics Technology for Life Sciences Research</b></p> <p><b>Angela Wu</b> Hong Kong University of Science and Technology, Hongkong, China</p>
11:20	11:40	<p><b>Genetic Diversity and the Pangenome Reference 2.0 of Chinese Populations</b></p> <p><b>Shuhua Xu</b> Chinese Pangenome Consortium (CPC) , Fudan University, Shanghai, China</p>
12:00	14:00	<p><b>Student Mentor Session Lunch</b> 3<sup>rd</sup> Floor, Regent</p> <p><b>Mentor:</b> Michele Ramsay, Wits University Yanyi Huang, PKU Rong Fan, Yale Mia Petljak, NYU Mingyao Li, UPenn Xiu Qiu, BGCS Safia Danovi, <i>Nature Genetics</i> Lin Tang, <i>Nature Methods</i></p>
14:30	17:45	<p><b>Session 3: Genomic Medicine and PRS</b></p> <p><b>Chair:</b> Margot Brandt, <i>Nature Communications</i> Xiaoqun Wang, CPL</p>
14:30	14:50	<p><b>Spatial Transcriptome Reveals the Region-specific Genes and Pathways in Neocortical Development</b></p> <p><b>Xiaoqun Wang</b> Institute of Biophysics, Chinese Academy of Sciences, Beijing, China</p>
14:50	15:20	<p><b>Genome-First Cardiovascular Medicine</b></p> <p><b>Pradeep Natarajan</b> Massachusetts General Hospital, Harvard Medical School, Boston, USA</p>
15:20	15:30	<p><b>Flash Talk 5:</b> TBD</p> <p><b>Flash Talk 6:</b> TBD</p>
15:30	16:00	Coffee Break and Posters
16:00	16:30	<p><b>Founder Variants in Arabia: Catalysts of Precision Medicine and Beyond</b></p> <p><b>Fowzan Sami Alkuraya</b> King Faisal Specialist Hospital, Alfaisal University, Riyadh, Kingdom of Saudi Arabia</p>

<b>16:30</b>	<b>16:50</b>	<b>Translational Genomics of Complex Disease</b>  <b>Eleftheria Zeggini</b> Helmholtz Munich, Technical University Munich School of Medicine, Munich, German
<b>16:50</b>	<b>17:30</b>	<b>Panel Discussion: Data deposition</b>  <b>Member:</b> Shuhua Xu, FDU Fan Bai, PKU Eleftheria Zeggini, Helmholtz Michele Ramsay, Wits University
<b>17:30</b>	<b>17:45</b>	Poster prize award <b>Presenter:</b> Margot Brandt, <i>Nature Communications</i> Safia Danovi, <i>Nature Genetics</i> Lin Tang, <i>Nature Methods</i> Michelle Trenkmann, <i>Nature</i> Chen Wu, CAMS
<b>18:30</b>	<b>20:00</b>	Speaker Dinner 3 <sup>rd</sup> Floor, Regent
<b>Oct 11<sup>th</sup> (Fri)</b>		
<b>08:15</b>	<b>09:00</b>	Breakfast 3 <sup>rd</sup> Floor, Regent
<b>09:00</b>	<b>11:45</b>	<b>Session 4: Cancer Genomics (Single-cell, Spatial etc.)</b> <b>Chair:</b> Safia Danovi, <i>Nature Genetics</i> Chen Wu, CAMS
<b>09:00</b>	<b>09:30</b>	<b>Towards the Holistic Understanding of the Tumor Microenvironment and Its Impact on Immunotherapies</b>  <b>Zemin Zhang</b> Peking University, Beijing, China
<b>09:30</b>	<b>09:50</b>	<b>Deep Whole Genome Analysis of 494 Hepatocellular Carcinomas</b>  <b>Fan Bai</b> Peking University, Beijing, China
<b>09:50</b>	<b>10:00</b>	<b>Flash Talk 7:</b> Understanding tumor evolution in Hepatocellular Carcinoma through a multi-omic approach Weiwei Zhai Institute of Zoology (IoZ), Chinese Academy of Sciences, Beijing, China  <b>Flash Talk 8:</b> Squamous cell carcinoma resistant to chemotherapy by evolving toward a hybrid squamous differentiation state Shaosen Zhang National Cancer Center /Cancer Hospital, Chinese Academy of Medical Sciences (CAMS) and Peking Union Medical College (PUMC), Beijing, China
<b>10:00</b>	<b>10:30</b>	Coffee Break and Posters
<b>10:30</b>	<b>11:00</b>	<b>Spatial Clonal Evolution within Three-Dimensional Tumor Structures</b>

		<b>Li Ding</b> Washington University, Washington, USA
<b>11:00</b>	<b>11:20</b>	<b>Dissecting Origins and Activities of Mutagenic Processes in Cancer Using Their Mutational Signatures</b>  <b>Mia Petljak</b> New York University, New York, USA
<b>11:20</b>	<b>11:40</b>	<b>Dynamic Genomic and Cellular Alterations During Multi-step Cancer Development</b>  <b>Chen Wu</b> National Cancer Center/Cancer Hospital, Chinese Academy of Medical Sciences, Beijing, China
<b>11:40</b>	<b>11:45</b>	Closing remarks/meeting wrap up  <b>Chen Wu</b>
<b>12:00</b>	<b>13:00</b>	Lunch 3 <sup>rd</sup> Floor, Regent

### 三、会议缴费

票价类型	2024年5月1日前	2024年5月1日后
学生票	1600元/人	2000元/人
科研人员票	2400元/人	3000元/人
企业票	4000元/人	5000元/人
团体优惠	团体参会20人以上可享受9折优惠，团体参会50人以上可享受8折优惠	
注册权益	含大会主题环保包、会议手册、会议投稿集册及文具（会议交通食宿自理）	
发票须知	统一开具电子发票 请在注册时填写发票信息，如有疑问请联系邮箱： <a href="mailto:dbhz_bj@163.com">dbhz_bj@163.com</a>	

### 四、付款方式

银行汇款 收款单位账户信息 户名：北京博奥晶典生物技术有限公司 开户行：华夏银行股份有限公司北京姚家园支行 人民币账号：10243000000466873
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#### 附言注明：

“代表姓名”并请及时登陆会议网站核实发票开具情况。在会议官方网站下载或在会议现场下载领取会议通知电子版。



## 情况说明

北京博奥晶典生物技术有限公司作为协办方于 2024 年 10 月 9-11 日在北京丽晶酒店举办。会议注册费用收款方为北京博奥晶典生物技术有限公司。

特此说明

2024 年中国医学科学院-自然期刊学术会议

2024 年 4 月 1 日