



WESTLAKE SYMPOSIUM FOR THE FUTURE OF PROTEOMICS

Date: 13 Nov, 2024



Westlake Symposium for the Future of Proteomics

Date: 13 Nov, 2024

Location: Westlake University (Yungu Campus)

13 Nov, 2024 Schedule

9:00 - 9:05 ● **Welcome Remarks**
Tiannan Guo (China) Westlake University

1. Proteomics and biology

1.1. Overview

9:05 - 9:20 ● **Multi-PROTeomics is the central method to study biological processes as complex systems**
Ruedi Aebersold (Switzerland) ETH Zürich

1.2. Proteome networks

9:20 - 9:35 ● **Proteome-wide network and dynamics**
Rong Zeng (China) National Center for Protein Sciences (Shanghai)

1.3. Understudied proteome

9:35 - 9:50 ● **In-vivo crosslinking MS for protein interactome analysis**
Lihua Zhang (China) Dalian Institute of Chemical Physics, CAS

9:50 - 10:05 ● **Protein Discovery: assessing translation of novel ORFs and discovering function**
Rob Moritz (USA) Institute for Systems Biology

10:05 - 10:20 ● **Termini are not just the ends of proteins**
Chris Overall (Canada) The University of British Columbia

10:20 - 10:35 ● **Non-canonical proteins in cancer**
Teck Yew Low (Malaysia) National University of Malaysia

10:35 - 10:50 ● **Panel Discussion/Q&A**

10:50 - 11:05 ● **Tea Break**

2. Proteomics-driven precision medicine

2.1. Selected technologies

11:05 - 11:20 ● **Immunopeptidomics - from basic cell biology to next generation vaccine design**
Anthony Purcell (Australia) Monash University

11:20 - 11:35 ● **Glycoproteomics: method and clinical applications**
Hui Zhang (USA) Johns Hopkins University

2.2. Diseases at focus

11:35 - 11:50 ● **Multi-dimensional clinical proteomics of colorectal cancer**
Connie Jimenez (Netherlands) Amsterdam University Medical Center

11:50 - 12:05 ● **Proteomics of postmortem brains Alzheimer's disease**
Ka Wan Li (Netherlands) Vrije Universiteit Amsterdam

12:05 - 12:20 ● **Panel Discussion/Q&A**

12:20 - 13:30 ● **Lunch Break**

2.3. Clinical cohorts

13:30 - 13:45 ● **Pathology, proteomics and precision medicine**

Ed Nice (Australia) Monash University

13:45 - 14:00 ● **Population proteomics**

Uwe Völker (Germany) University of Greifswald

14:00 - 14:15 ● **One health proteomics**

Paola Roncada (Italy) Università degli Studi Magna Græcia, Catanzaro

3. Proteomics-driven drug discovery

14:15 - 14:30 ● **Proteomics can drive drug discovery**

Ben Collins (UK) Queen's University Belfast

14:30 - 14:45 ● **From surface proteomics to drug discovery**

Bernd Wollscheid (Switzerland) ETH Zürich

14:45 - 15:00 ● **Approaches to advance proteomics-based biomarker and drug profiling**

Philip Lössl (China) ABSa Technology

15:00 - 15:30 ● **Panel Discussion/Q&A**

15:30 - 15:50 ● **Tea Break**

4. Proteomics for Agriculture

15:50 - 16:05 ● **Proteomics Revolution: Transforming Food, Agriculture, and Aquaculture Research**

Qingsong Lin (Singapore) National University of Singapore

5. AI proteomics

5.1. MS and AI

16:05 - 16:20 ● **Mass spectrometry beyond boundaries: AI solutions for unsolved challenges in proteomics**

Paulo Costa Carvalho (Brasil) Fiocruz Paraná

16:20 - 16:35 ● **Two action plans for AI proteomics: MassNet and iYeast**

Tiannan Guo (China) Westlake University

16:35 - 16:50 ● **Foundation Model driven AI for Omics**

Han Wen (China) DP Technology

5.2. Data sharing

16:50 - 17:05 ● **Federated deep learning enables cancer subtyping by proteomics**

Qing Zhong (Australia) ProCan, The University of Sydney

5.3. AI-empowered Perturbation biology

17:05 - 17:20 ● **Challenges for perturbation biology: AI methods and focus on human health**

Chris Sander (USA) Harvard Medical School

5.4. Multi-modal integration

17:20 - 17:35 ● **Enhanced AI model performance and clinical applications by multi-modal integration and diverse data sources**

Kang Zhang (China) Wenzhou Medical University

17:35 - 18:05 ● **Panel Discussion/Q&A**

18:05 - 18:15 ● **Closing Remarks**

Tiannan Guo (China) Westlake University

14 Nov, 2024 Schedule

9:30 - 11:30  Hiking



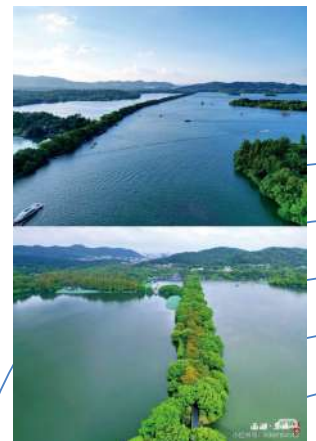
Hiking Route

徒步路线：曲院风荷 - 苏堤 - 花港观鱼 - 太子湾 - 浙里本味（午餐）

徒步时间：边走边拍照大概2小时左右

Hiking route: Qu Yuan Fenghe - Su Causeway - Huagang Guanyu - Taizi Bay - Zheli Benwei (Lunch)

Hiking time: Approximately 2 hours while walking and taking photos.



入校指引 Entrance Guide

会议地点：西湖大学云谷校区6号门入校 学生活动中心、餐厅 2楼

Meeting Location: Westlake University (Yungu Campus), enter through Gate 6. Student Activity Center and Cafeteria, 2nd Floor.



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