

5TH JAPAN-GERMANY SYMPOSIUM ON ADVANCED PREVENTIVE MEDICINE

DÜSSELDORF, GERMANY 19 – 20 SEPTEMBER, 2023

PROGRAMME

COOPERATING INSTITUTIONS:







Heinrich Heine Universität

Düsseldorf

hhu





D Universitätsklinikum Düsseldorf

Dear colleagues,



Welcome to Düsseldorf!

I am delighted to extend my warmest greetings to each and every one of you as we gather for the *5th Japan-Germany Symposium on Advanced Preventive Medicine*. It is an honor and a privilege to welcome distinguished minds from both Japan and Germany to this collaborative platform.

Our shared commitment to advancing preventive medicine is a testament to our dedication to improving the well-being of individuals around the globe. Through our collective expertise and innovative ideas, we have the potential to shape the future of healthcare and make significant strides in combating various health challenges.

This symposium serves as a unique opportunity for us to exchange knowledge, insights, and experiences. Let us engage in meaningful discussions, foster interdisciplinary collaborations, and ignite the spark of innovation that drives us forward. By synergizing our efforts, we can pave the way for novel approaches in disease prevention and health promotion.

I am particularly grateful to all the organizers, speakers, researchers, and participants who have come together to make this event a reality. Your dedication and enthusiasm are the driving forces behind our collective success, and I have no doubt that our interactions during these days will be rich and inspiring.

As we embark on this journey of knowledge sharing and exploration, let us remain open to new ideas, receptive to different perspectives, and steadfast in our pursuit of advancing preventive medicine. Together, we can unlock new horizons and create a lasting impact on the health and well-being of generations to come.

Thank you all for your long-standing commitment and your active contribution to this meeting which shall further intensify the friendship and cooperation between our institutions!

Warm regards,

Michael Roden

Director; Divison of Endocrinology and Diabetology Medical Faculty and University Hospital at Heinrich Heine University Düsseldorf

Director; German Diabetes Center (DDZ) Leibniz Center for Diabetes Research at Heinrich Heine University Düsseldorf

Format

The 5th Japan-Germany Symposium on Advanced Preventive Medicine will take place as a hybrid event from 19 to 20 September 2023, providing the option to join us in person in Düsseldorf, Germany or online via ZOOM.

All sessions in the scientific programme will take place onsite at the meeting venue in Düsseldorf at the times indicated in the programme and will be live-streamed for delegates attending the meeting virtually.

Meeting venue

The in person meeting will take place at: Deutsches Diabetes-Zentrum (DDZ) // German Diabetes Center Auf´m Hennekamp 65 40225 Düsseldorf

Contact persons

Symposium Secretary: Kálmán Bódis (kalman.bodis@ddz.de) Symposium Organizers: Kalliopi Pafili (Kalliopi.Pafili@med.uni-duesseldorf.de), Bastian Nonnenberg (banon100@uni-duesseldorf.de) If you have any questions or need help: Mobil: +49(0)160-9750 2580

Transportation

The German Diabetes Center can easily be reached by several tram and underground stations within walking distance. You can buy a ticket in almost every tram or at a ticket counter at a tram stop.

Alternatively, you can download the Rheinbahn App, available for iOS and Android: https://www.rheinbahn.de/fahren/mehr-mobilitaet/rheinbahn-app





Catering during the symposium

Two coffee breaks and one lunch are planned for the participants each day.

- Day 1: Coffee breaks at 9:30 and 10:45
 - Snacks & drinks during Postersession at 12:00
- Day 2: Coffee breaks at 9:45 and 11:00 Farewell lunch at 13:00

Dinner

All Japanese guests are cordially invited to dinner on the first evening with freshly tapped traditional Altbier and typical Rhenish cuisine.

Tuesday, 19 September, at 19:00 Brauerei Schumacher - Stammhaus Oststraße 123 40210 Düsseldorf



Flughafen B

ose

SU U70 U76 U78

Founded in 1838, the Altbier manufactory Schumacher is located in the middle of the Japanese quarter "Little Tokyo", not far from the famous Königsallee.

It can easily be reached with the following tram lines: U70, U74, U75, U76, U77, U78 und U79, Stop at "Oststraße"

Your way to the airport

By Train:

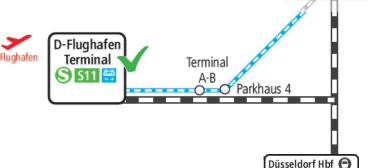
The S-Bahn **S11** stops at the **Düsseldorf Airport Terminal** station in the basement of the terminal building. The S11 runs from Düsseldorf central station (Hbf) to the airport.

By Taxi:

- Taxi Düsseldorf phone: 0211-33 333
 Rheintaxi:
- phone: 0211-21 21 21

By Uber:

In Düsseldorf you have also the option to travel with Uber. Simply book via the Uber App!



OSKAR MINKOWSKI- AND PAUL LANGERHANS-ROOM

TIME	SESSION	
8:00 - 8:15 JT: 15:00 - 15:15	OPENING REMARKS	
8:15 - 9:00 JT: 15:15 - 16:00	DIABETES MELLITUS	
9:00 - 9:30 JT: 16:00 - 16:30	ELDERLY HEALTH AND WELFARE	
10:00 - 10:45 JT: 17:00 - 17:45	CARDIOVASCULAR DISEASES	
11:00 - 11:45 JT: 18:00 - 18:45	COLLABORATIVE STUDIES	
11:45 - 13:30	POSTERSESSION	

JT: Japan Time

OSKAR MINKOWSKI- AND PAUL LANGERHANS-ROOM

TIME	SESSION	
8:00 - 8:45 JT: 15:00 - 15:45	ENVIRONMENTAL & LIFESTYLE- RELATED DISEASES	
8:45 - 9:45 JT: 15:45 - 16:45	METABOLIC DISORDERS	
10:00 - 11:00 JT: 17:00 - 18:00	PREVENTIVE MEDICINE	
11:15 - 12:00 JT: 18:15 - 19:00	MICROBIOME & PROTEOMICS	
12:00 - 12:40 JT: 19:00 - 19:40	SHORT PRESENTATIONS	
12:40 - 13:00 JT: 19:40 - 20:00 JT: Japan Time	CLOSING REMARKS	

DO YOU HAVE ANY TECHNICAL QUESTIONS?

Person in charge for ZOOM: Dr. Olaf Spörkel, olaf.spoerkel@ddz.de

8:00 - 8:15 Opening Remarks

Heiner Fangerau (HHU) Atsushi Tajima (KU) Michael Roden (HHU/DDZ)

8:00 - 9:00 Session I: Diabetes mellitus

Chair: Toshinari Takamura (KU)

Hiroyuki Nakamura (KU): Prospective cohort study of nutrition including dietary vegetable protein and animal fats on diabetes from the Shika Study

Oana-Patricia Zaharia (HHU/DDZ): Endotypes of type 2 diabetes

Masaya Koshizaka (CU): Type 2 diabetes treatment based on racial difference regarding SGLT2 inhibitor and metformin

9:00 - 9:30 Session II: Elderly health and welfare

Chair: Christian Herder (DDZ)

Hirotomo Yamanashi (NU): Behavioral risk factors of multimorbidity patterns in Asian countries

Yu-Ru Chen (CU):

Does the neighborhood built and social environment reduce long-term care costs for Japanese older people? The JAGES2010-2019 Cohort Study

Abbreviations:

Chiba University (CU) • Kanazawa University (KU) • Nagasaki University (NU) • German Diabetes Center (DDZ) Heinrich-Heine-University (HHU) • Leibniz Research Institute for Environmental Medicine (IUF)

10:00 - 10:05 Welcome Message

Nikolaj Klöcker (HHU)

10:05 - 10:50 Session III: Cardiovascular diseases

Chair: Masaya Koshizaka (CU)

Lucas Busch (HHU): Large artery stiffness (LAS) and isolated systolic hypertension (ISH)

Julian-Dario Rembe (HHU): Biomolecular marker profiling and disease pattern analysis in chronic hard-to-heal wounds for diagnostics and therapy stratification

Patricia Wischmann (HHU): Impact of RBC dysfunction in anemia on cardiovascular function following acute myocardial infarction

11:00 - 11:45 Session IV: Collaborative studies

Chair: Michael Roden (HHU/DDZ)

Christian Herder (DDZ): Biomarkers of distal sensorimotor polyneuropathy

Akinori Hara (KU):

Effect of fatty acid metabolizing enzyme gene polymorphisms on the relationship between polyunsaturated fatty acid intake and kidney function

Keita Suzuki (DDZ):

Investigation of the interaction between genetic polymorphisms of essential fatty acid metabolizing enzymes and their intake on chronic kidney disease

11:45 - 12:00 Introduction of Postersession

Hiroyuki Nakamura (KU)

12:00 - 13:30 Postersession

Chair: Kálmán Bódis, Kalliopi Pafili (HHU/DDZ)

Christian Binsch:

Deletion of Tbc1d4/As160 abrogates cardiac glucose uptake and increases myocardial damage after ischemia/reperfusion

Bedair Dewidar / Geronimo Heilmann: Lipotoxic liver disease: phenotypes and mechanisms

Christian Herder: Biomarkers in diabetes endotypes and comorbidities

Birgit Knebel: Tissue-specific functional and (epi)-genetic changes after metabolic stress

Nina Saatmann:

Association of thyroid hormone levels with nonalcoholic fatty liver disease in recent onset diabetes

Martin Schön:

Continuous representation of type 2 diabetes heterogeneity on a tree-like graph structure stratifies risk of complications

Edyta Szczerba / Sabrina Schlesinger: A DASH eating pattern in diabetes: revealing the association with subcutaneous, visceral and liver fat

Michael Turewicz:

Temporal response to insulin treatment in human skeletal muscle cells

We are pleased to exhibit the scientific posters of our colleagues from Japan, who cannot be present in Düsseldorf.

8:00 - 8:45 Session I: Environmental & lifestyle-related diseases

Chair: Hiroyuki Nakamura (KU)

Kazuhiko Arima (NU):

Association of behavioral characteristics with bone health among community-dwelling residents

Thomas Haarmann-Stemmann (IUF):

A gene variant of AKR1C3 contributes to interindividual susceptibilities to atopic dermatitis triggered by particulate air pollution

Mami Tamai (NU):

Prediction of rheumatoid arthritis and IgG4-related disease development from the results of Nagasaki Island Study: Cross-sectional and prospective study of rheumatic diseases in a residential health checkup-based healthy population

8:45 - 9:45 Session II: Metabolic disorders

Chair: Atsushi Tajima (KU)

Kálmán Bódis (HHU/DDZ): Role of insulin sensitivity in complications of diabetes

Keita Suzuki (KU): Association of hepatokine LECT2 with insulin resistance and liver enzymes in the Japanese general population

Kalliopi Pafili (HHU/DDZ): Liver and adipose tissue energy metabolism in the pathogenesis of NAFLD

Toshinari Takamura (KU): Pathology of type 2 diabetic liver

10:00 - 11:00 Session III: Preventive medicine

Chair: Thomas Haarmann-Stemmann (IUF)

Hirohito Tsuboi (KU): Serum levels of TNF α and IL-17A can affect depressive symptoms: Findings from the Shika Cohort Study in Japan

Yoko Matsuoka (CU):

Does the smartphone-based shopping mall-walking program encourage people to walk more? A multilevel analysis of nationwide big data in Japan

Katharina Rolfes (IUF):

Impact of low dose UVA radiation on UVB radiation-induced DNA damage and skin carcinogenesis

Akinori Hara (KU):

Association between ambient polycyclic aromatic hydrocarbons and cough prevalence in patients with chronic respiratory diseases: an observational study in two regions of Japan

11:15 - 12:00 Session IV: Microbiome and proteomics

Chair: Kouichiro Yoshiura (NU)

Jiang Chuanhao (KU): Genetic diversity and host-specificity of Chilomastix spp.

Cynthia Monserrat Galicia-Medina (KU): Cysteine post-translational modifications targeted by selenoprotein Pmediated reductive stress and impact in type 2 diabetes

Sebastian Scharf (HHU):

Insights into gut microbiomes in stem cell transplantation by comprehensive shotgun long-read sequencing

12:00 - 12:40 Session V: Short Presentations

Chair: Hiroyuki Nakamura (KU)

Fumihiko Suzuki (KU): Association between bone mineral density and oral frailty on renal function: Findings from the Shika Study

Kouyuki Hirayasu (KU): Identification and characterization of the novel fusion gene LILRB3-LILRB5 by long-read sequencing technology

Kenichi Sakurai (CU): Association between gut microbiota and mother and child health

Hiromasa Tsujiguchi (KU):

Prospective relationship between autistic traits and nutrient intakes among Japanese children: Results of the Shika Study

12:40 - 13:00 Closing Remarks

Toshinari Takamura (KU)

Michael Roden (HHU/DDZ)

Chiba University (CU)

Name	Affiliation	Email-Address
CHEN , Yu-Ru	Graduate School of Medical and Pharmaceutical Sciences	yuruchen@chiba-u.jp
KOSHIZAKA, Masaya	Center for Preventive Medical Sciences	overslope@chiba-u.jp
MATSUOKA, Yoko	Center for Preventive Medical Sciences	y-matsuoka@chiba-u.jp
SAKURAI, Kenichi	Dept Nutrition and Metabolic Medicine, Center for Preventive Medical Sciences	sakuraik@faculty.chiba-u.jp

Kanazawa University (KU)

Name	Affiliation	Email-Address
CHUANHAO, Jiang	Dept Global infectious disease, Graduate School of Advanced Preventive Medical Sciences	jiangchuanhao95@gmail.com
HARA, Akinori	Dept Hygiene and Public Health, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences	hara-akinori@med.kanazawa-u.ac.jp
HIRAYASU, Kouyuki	Dept Evolutionary Immunology, Advanced Preventive Medical Sciences Research Center	hirayasu@med.kanazawa-u.ac.jp
NAKAMURA, Hiroyuki	Dept Hygiene and Public Health, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences	hiro-n@po.incl.ne.jp
MONSERRAT GALICIA- MEDINA, Cynthia	Dept Endocrinology and Metabolism, Graduate School of Advanced Preventive Medical Sciences	cynthia.galicia.medina@gmail.com
SUZUKI, Keita	Advanced Preventive Medical Sciences Research Center	keitasuzuk@gmail.com
SUZUKI , Fumihiko	Dept Hygiene and Public Health, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences Dept Geriatric Dentistry, Ohu University School of Dentistry	f-suzuki@den.ohu-u.ac.jp
TAJIMA, Atsushi	Dept Bioinformatics and Genomics, Graduate School of Advanced Preventive Medical Sciences	atajima@med.kanazawa-u.ac.jp
TAKAMURA, Toshinari	Dept Endocrinology and Metabolism, Kanazawa University Graduate School of Medical Science	ttakamura@med.kanazawa-u.ac.jp
TSUBOI, Hirohito	Research group Psychosomatic Medicine, Institute of Medical, Pharmaceutical & Health Sciences	tsuboih@staff.kanazawa-u.ac.jp
TSUJIGUCHI, Hiromasa	Dept Hygiene and Public Health, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences	t-hiromasa@med.kanazawa-u.ac.jp

Nagasaki University (NU)

Name	Affiliation	Email address
ARIMA, Kazuhiko	Dept Public Health, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences	arima@nagasaki-u.ac.jp
TAMAI, Mami	Dept Immunology and Rheumatology, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences	tamaim@nagasaki-u.ac.jp
YAMANASHI, Hirotomo	Dept General Medicine, Nagasaki University Graduate School of Biomedical Sciences	yamanashi@nagasaki-u.ac.jp
YOSHIURA, Kouichiro	Dept Human Genetics, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences	kyoshi@nagasaki-u.ac.jp

Heinrich-Heine-University Düsseldorf (HHU) / German Diabetes Center (DDZ)

Name	Affiliation	Email address
BINSCH, Christian	Institute for Clinical Biochemistry and Pathobiochemistry (DDZ)	christian.binsch@ddz.de
BÓDIS, Kálmán	Division Endocrinology and Diabetology, Medical Faculty and University Hospital (HHU), Institute for Clinical Diabetology (DDZ)	kalman.bodis@ddz.de
BUSCH, Lucas	Division of Cardiology, Pulmonology and Vascular Medicine, Medical Faculty (HHU)	hanslucas.busch@med.uni- duesseldorf.de
DEWIDAR, Bedair	Institute for Clinical Diabetology (DDZ)	bedair.dewidar@ddz.de
FANGERAU, Heiner	Dept History, Philosophy and Ethics of Medicine, Medical Faculty (HHU)	heiner.fangerau@uni-duesseldorf.de
HEILMANN, Geronimo	Institute for Clinical Diabetology (DDZ)	Geronimo.Heilmann@ddz.de
HERDER, Christian	Institute for Clinical Diabetology (DDZ)	christian.herder@ddz.de
KLÖCKER, Nikolaj	Medical Faculty (HHU)	med.dekanat@med.uni- duesseldorf.de
KNEBEL, Birgit	Institute for Clinical Biochemistry and Pathobiochemistry (DDZ)	birgit.knebel@ddz.de
NONNENBERG, Bastian	German Diabetes Center (DDZ)	banon100@uni-duesseldorf.de

Heinrich-Heine-University Düsseldorf (HHU) / German Diabetes Center (DDZ)

Name	Affiliation	Email address
PAFILI, Kalliopi	Division Endocrinology and Diabetology, Medical Faculty and University Hospital (HHU), Institute for Clinical Diabetology (DDZ)	Kalliopi.Pafili@med.uni- duesseldorf.de
REMBE , Julian-Dario	Dept Vascular and Endovascular Surgery, Medical Faculty (HHU)	Julian-Dario.Rembe@med.uni- duesseldorf.de
RODEN, Michael	Division Endocrinology and Diabetology, Medical Faculty and University Hospital (HHU), Institute for Clinical Diabetology (DDZ)	michael.roden@ddz.de
SAATMANN, Nina	Institute for Clinical Diabetology (DDZ)	nina.saatmann@ddz.de
SCHARF, Sebastian	Institute of Medical Microbiology and Hospital Hygiene (HHU)	Sebastian.Scharf@uni- duesseldorf.de
SCHLESINGER, Sabrina	Institute for Biometrics and Epidemiology (DDZ)	sabrina.schlesinger@ddz.de
SCHÖN, Martin	Institute for Clinical Diabetology (DDZ)	martin.schoen@ddz.de
SUZUKI, Keita	Institute for Clinical Diabetology (DDZ)	Keita.Suzuki@ddz.de
SZCZERBA, Edyta	Institute for Biometrics and Epidemiology (DDZ)	Edyta.szczerba@ddz.de
TUREWICZ, Michael	Institute for Clinical Biochemistry and Pathobiochemistry (DDZ)	michael.turewicz@ddz.de
WISCHMANN, Patricia	Division of Cardiology, Pulmonology and Vascular Medicine, Medical Faculty (HHU)	Patricia.Wischmann@med.uni- duesseldorf.de
ZAHARIA, Oana-Patricia	Division Endocrinology and Diabetology, Medical Faculty and University Hospital (HHU), Institute for Clinical Diabetology (DDZ)	Oana-Patricia.Zaharia@ddz.de

Leibniz Research Institute for Environmental Medicine (IUF)

Name	Affiliation	Email address
HAARMANN-STEMMANN, Thomas	Leibniz Research Institute for Environmental Medicine	Thomas.Haarmann-Stemmann@IUF- Duesseldorf.de
ROLFES, Katharina	Leibniz Research Institute for Environmental Medicine	Katharina.Rolfes@IUF- Duesseldorf.de