

PROGRAM

Friday April 24th

- 11.00 – 13.00 Registration
- 12.00-13.00 Lunch in exhibition area
- 13.00-13.15 Welcome and opening of the meeting
Ole Petter Ottersen, Rector of the University of Oslo
Kåre I. Birkeland, Chair of the Scientific and Organizing committee
- 13.15-14.30 **Virus as a cause of type 1 diabetes** Chair: **Valdemar Grill**
Knut Dahl-Jørgensen (University of Oslo, Norway)
Barnediabetesfondens Johnny Ludvigsson Nordic Prize lecture
The pathogenesis of type 1 diabetes - new aspects from the DiViD study
Malin Flodström Tullberg (Karolinska Institutet, Sweden)
Enterovirus infections and Type 1 Diabetes - Can a Vaccine Test Causality?
- 14.30-15.00 Coffee and exhibition
- 15.00-17.00 **Oral presentation I** Chair: **Tore Julsrud Berg**

1. Bjørsvik C, Grimnes G, Jorde R: THE TROMSØ STUDY: FIT FUTURES: PREVALENCE OF DIABETES AND EPIDEMIOLOGICAL FEATURES OF HBA_{1c} IN HEALTHY ADOLESCENTS
2. Ofstad AP, Ulmoen GR, Orvik E, Birkeland KI, Gullestad L, Johansen OE: LONG LONG-TERM GLYCAEMIC BENEFITS OF INTENSIFIED MULTIINTERVENTION FOR TYPE 2 DIABETES –A 5 YEAR FOLLOW-UP STUDY OF THE ASKER AND BAERUM CARDIOVASCULAR DIABETES (ABCD) STUDY
3. Ullsten S, Vågesjö E, Pillipson M and Carlsson P-O: RESIDENT PANCREATIC MACROPHAGES ARE IMPORTANT FOR ISLET DEVELOPMENT AND LONG-TERM FUNCTION
4. Main AM, Gillberg L, Jacobsen, AL, Nilsson EA, Hansen T, Pedersen O, Ribel-Madsen R, Vaag AA: DNA METHYLATION OF THE *HIF3A* GENE IN FIRST DEGREE RELATIVES OF T2D PATIENTS – CROSS-TISSUE VALIDATION AND ASSOCIATION WITH GENE EXPRESSION AND OBESITY RELATED TRAITS
5. Lund J, Jensen J, Langleite TM, Feng YZ, Mudry J, Kase ET, Gulseth HL, Rustan AC, Thoresen GH: EFFECTS OF TRAINING *IN VIVO* IS PRESERVED IN CULTURED HUMAN MYOTUBES
6. Neeland IJ, McGuire DK, Chilton B, Crowe S, Lund SS, Woerle HJ, Broedl UC, Johansen OE: IMPACT OF EMPAGLIFLOZIN ON ANTHROPOMETRY AND MARKERS OF VISCERAL ADIPOSITY IN PATIENTS WITH TYPE 2 DIABETES (T2D): EFFECTS BY AGE, SEX, AND DEGREE OF ABDOMINAL OBESITY
7. Grill V, Fleiner HF, Bjørklund A, Reimers N, Astor M, Filipsson K: A RANDOMIZED CLINICAL TRIAL TESTING FOR EFFECTS BY EARLY INSULIN TREATMENT IN LATENT AUTOIMMUNE DIABETES IN ADULTS (LADA): BASELINE DATA
8. Berg C, Strøm H, Selmer R, Stene LC: IS THE INCREASE IN DIABETES LEVELLING OFF? - USE OF GLUCOSE-LOWERING DRUGS IN NORWAY 2005-2014
9. Hjellestad I, Nilsen RM, Sjøfteland E, Husebye E, Jonung T: ABDOMINAL AORTIC ANEURYSMS – GLYCAEMIC STATUS AND MORTALITY: DM AND AAA – A LETHAL COMBINATION

17.00-17.15 Break and exhibition

17.15-18.15 **Novo Nordisk Foundation Lecture**

Chair: **Bolli Thorsson**

Torben Hansen (The Novo Nordisk Foundation Center for Basic Metabolic Research, Denmark)

The impact of our genomes on metabolic health

19.00 Welcome reception in Oslo City Hall

PROGRAM **Saturday April 25th**

There will be two separate parallels until 16.00

PARALELL 1

09.00-09.45

New insulins

Chair: **Kåre I. Birkeland**

Allan Vaag (Copenhagen University, Denmark)

New long-acting insulin analogs real benefits or emperor's new clothes?

09.45-11.00

Oral presentation II

Chair: **Hanne Løvdal Gulseth**

10. Ludvigsson J, Örtqvist E, Rathsmann B, Åman J, Hanås R, Carlsson A, Elding Larsson H, Ek T, Torbjörnsdotter T, Samuelsson U, Elluru SR, Casas R: DIABGAD- IMMUNE INTERVENTION WITH GAD-ALUM + VITAMIN D + IBUPROFEN AT ONSET OF TYPE 1 DIABETES. AN INTERIM ANALYSIS
11. Mancia G, Cannon CP, Tikkanen I, Zeller C, Ley L, Hach T, Woerle HJ, Broedl UC, Johansen OE: BLOOD PRESSURE (BP) REDUCTION WITH THE SODIUM GLUCOSE CO-TRANSPORTER 2 INHIBITOR (SGLT2-I) EMPAGLIFLOZIN (EMPA) IN TYPE 2 DIABETES (T2D) IS SIMILAR IN TREATMENT NAÏVE AS IN THOSE ON ONE OR ≥ 2 ANTIHYPERTENSIVE AGENTS – FURTHER INSIGHTS FROM A DEDICATED 24H ABPM STUDY
12. Kapur R, Heller S, Mathieu C, Wolden ML, Zinman B: RATE RATIOS FOR NOCTURNAL CONFIRMED HYPOGLYCAEMIA WITH INSULIN DEGLUDEC VS. INSULIN GLARGINE USING DIFFERENT DEFINITIONS
13. Pham TT, Virtanen KA, Hannukainen JC, Kiviranta R, Hällsten K, Oikonen V, Nuutila P: PPAR- γ AGONIST ROSIGLITAZONE IMPROVES FEMORAL BONE MARROW FAT INSULIN SENSITIVITY IN EARLY DIAGNOSED TYPE II DIABETES PATIENTS
14. Halden TAS, Eide IA, Hartmann A, Åsberg A, Dahle DO, Reisæter AR, Jenssen T: MORTALITY RISK IN POSTTRANSPLANTATION DIABETES MELLITUS: DISCORDANCE BETWEEN THE GLUCOSE AND HBA1C BASED DIAGNOSTIC CRITERIA

11.00-11.30

Coffee and exhibition

11.30-13.00

Oral presentation III

Chair: **Kristian F. Hansen**

15. Bjørngaas MR, Olsen SE, Åsvold BO, Sand T, Nilsen KB: IMPAIRED AWARENESS OF HYPOGLYCAEMIA AND PERIPHERAL AUTONOMIC NEUROPATHY IN TYPE 1 DIABETES
16. Haferstrom ECD, Hansen TI, Olsen SE, Håberg AK, Bjørngaas MR: REDUCED COGNITIVE FUNCTION IN PEOPLE WITH TYPE 1 DIABETES AND IMPAIRED AWARENESS OF HYPOGLYCAEMIA
17. Elvebakk O, Tronstad C, Gulseth HL, Jenssen T, Bjørngaas MRR, Høgetveit JO, Martinsen Ø, Birkeland K: PHYSIOLOGICAL AND SYMPTOMATIC RESPONSES TO HYPOGLYCEMIA IN PATIENTS WITH IMPAIRED AWARENESS

18. Pedersen-Bjergaard U, Alsifri SN, Aronson R, Cigrovski Berković M, Enters-Weijnen C, Forsén T, Galstyan G, Geelhoed-Duijvestijn P, Goldfracht M, Gydesen H, Lalic N, Ludvik B, Moberg E, Ramachandran A, Khunti K: PATIENT RESPONSES FOLLOWING HYPOGLYCEMIA IN THE HAT STUDY: A GLOBAL POPULATION-BASED STUDY OF INSULIN-TREATED PATIENTS WITH DIABETES
19. Wisting L, Frøisland DH, Skrivarhaug T, Dahl-Jørgensen K, Bang L, Natvig H, Lask B, Rø Ø: COMORBID TYPE 1 DIABETES AND DISTURBED EATING BEHAVIORS – ASSESSMENT, PREVALENCE, PSYCHOLOGICAL CORRELATES AND METABOLIC CONTROL
20. Klavness MN, Berg TJ: PROGNOSIS OF PATIENTS WITH A DIABETIC FOOT ULCER (DFU)
21. Fleiner HE, Bjørø T, Midthjell K, Grill V, Åsvold BO: ASSOCIATIONS BETWEEN DIABETES AND HYPOTHYROIDISM IN THE HUNT STUDY IN NORWAY ARE STRONG AND GENDER NEUTRAL WITH AUTOIMMUNE DIABETES BUT NOT PRESENT WITH TYPE 2 DIABETES

13.00-14.00 Lunch and exhibition

14.00-15.20 **Gestational diabetes – a Nordic approach** Chair: **Anne Karen Jenum**

Peter Damm (Copenhagen University, Denmark)

Risto Kaaja (Turku University, Finland)

Anne Karen Jenum (University of Oslo, Norway)

15.20-15.30 **Oral presentation IV** Chair: **Anne Karen Jenum**

22. Sletner L, Jenum AK, Mørkrød K, Birkeland KI, Vangen S: FETAL GROWTH IN ETHNIC EUROPEANS AND SOUTH ASIANS WITH AND WITHOUT GESTATIONAL DIABETES. A POPULATION-BASED COHORT STUDY IN GRORUDDALEN, OSLO, NORWAY

PARALELL 2

09.00-10.15

Inflammation in diabetes

Chair: **Cecilie Wium**

Myriam Aouadi (Karolinska Institutet, Sweden)

Inflammation in the adipose tissue

Bente Halvorsen (University of Oslo, Norway)

Inflammation in the liver and vessel

Arne Yndestad (University of Oslo, Norway)

Inflammation in the heart

10.15-11.00

Oral presentation V

Chair: **Elisabeth Qvigstad**

23. Ofstad AP, Ulimoen GR, Orvik E, Endresen K, Birkeland KI, Ueland T, Aukrust P, Gullestad L, Johansen OE: ACTIVIN A IS ASSOCIATED WITH HIGHER EXTENT OF CORONARY ARTERY DISEASE (CAD), BUT NOT WITH INCREASED RATE OF PROGRESSION DURING 7 YEARS FOLLOW-UP, IN SUBJECTS WITH TYPE 2 DIABETES
24. von Düring ME, Jenssen TG, Bollerslev J, Godang K, Eide IA, Åsberg A, Hartmann A: VISCERAL FAT IS ASSOCIATED WITH HYPERGLYCEMIA AFTER KIDNEY TRANSPLANTATION
25. Tingstad R, Charnock C, Aas V: BACTERIAL COMPONENTS AND THEIR EFFECT ON ENERGY METABOLISM IN HUMAN SKELETAL MUSCLE CELLS

11.00-11.30

Coffee and exhibition

11.30-13.00

Oral presentation VI

Chair: **Jens Petter Berg**

26. Bornstedt ME, Gjerlaugsen N, Bredahl MK, Julien K, Pepaj M, Thorsby PM: VITAMIN D ENHANCE INSULIN SECRETION AND INFLUENCE GENETIC EXPRESSION IN INS1E β -CELLS
27. Thorsby PM, Bredahl MK, Gjerlaugsen N, Pepaj M: PROTEOMIC ANALYSIS OF THE INS-1E SECRETOME REVEALS NOVEL VITAMIN D-REGULATED PROTEINS
28. Singh R, Hals I, Gederaas O, Grill V: TOXICITY OF IAPP (AMYLIN) IN BETA CELLS IS INCREASED BY PHOTOCHEMICAL ACTIVATION
29. Bøås H, Tapia G, de Muinck E, Cinek O, Stene LC, Rasmussen T, Rønningen KS: SAFFOLD VIRUS, A HUMAN CARDIOVIRUS, IS NOT ASSOCIATED WITH PERSISTENT ISLET AUTOANTIBODIES IN A LONGITUDINAL BIRTH COHORT STUDY
30. Hals I, Bruerberg S, Grill V: MITOCHONDRIAL COUPLING EFFICIENCY IS SWIFTLY DECREASED BY HYPEROXIA RECIPROCALLY TO EFFECTS BY HYPOXIA
31. Grapensparr L, Carlsson P-O: SURFACE-COATING WITH ENDOTHELIAL PROGENITOR CELLS IMPROVES BLOOD PERFUSION, OXYGEN TENSION AND VASCULAR DENSITY IN EXPERIMENTALLY TRANSPLANTED HUMAN PANCREATIC ISLETS
32. Reine TM, Vuong TT, Rutkovskiy A, Meen AJ, Vaage J, Jenssen TG, Kolset SO: PROTEOGLYCANS IN THE DIABETIC KIDNEY

13.00-14.00 Lunch and exhibition

14.00-15.30

News in diabetes genetics

Chair: **Lise Bj. Gundersen**

Lise Bjørkhaug Gundersen (University of Bergen, Norway)

Functional studies can identify rare variants as risk factors for type 2 diabetes

Simon Dankel (University of Bergen)

On the crossroads of obesity and diabetes: Old genes, new networks

Karianne Fjeld (University of Bergen)

A recombined diabetes gene as risk factor for chronic pancreatitis

PLENARY PROGRAM

15.30-16.00

Coffee and exhibition

16.00-16.45

The failing diabetic heart

Chair: **Tore Julsrud Berg**

Peter Rossing (Steno Diabetes Center & Copenhagen University, Denmark)

Diabetes and the heart

Kari Anne Sveen (Oslo University Hospital, Norway)

Diabetic cardiomyopathy

16.45-17.30

SSSD Young Investigator Awards

Chair: **Kolbein Gudmundsson**

Nikhil R Gandasi (Uppsala University, Sweden)

Contact-induced clustering of syntaxin and munc18 docks secretory granules to the exocytosis site

Ida Moltke (University of Copenhagen, Denmark)

A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes

17.30-18.00

General Assembly of SSSD. Presentation of next year's meeting

20.00

Congress Dinner at Festningen Restaurant, Oslo

PROGRAM

Sunday April 26th

09.00-9.45

Diabetic nephropathy

Chair: **Kristian F. Hansen**

Invited speaker: **Per Henrik Groop** (University of Helsinki, Finland)

Diabetic nephropathy 2015 – from basic science to clinical practice

09.45-10.30

Oral presentation VII

Chair : **Kurt Højlund**

33. Lund-Blix NA, Størdal K, Skrivarhaug T, Bakken IJ, Magnus P, Pål R. Njølstad PR, Joner G, Stene LC: INFANT FEEDING AND RISK OF CHILDHOOD-ONSET TYPE 1 DIABETES: PRELIMINARY DATA FROM THE PAGE-STUDY
34. Toverud EL, Abuelmagd W, Mahmood K, Taghiadzhe N, Jukovljevic M, Håkonsen H: DIABETIC PAKISTANI WOMEN IN OSLO, NORWAY, AND THEIR NEED FOR INFORMATION
35. Wium C, Gulseth HL, Godang K, Eriksen EF, Birkeland KI: ETHNIC DIFFERENCES IN THE RELATION BETWEEN VISCERAL ADIPOSE TISSUE AND GLUCOSE METABOLISM
36. Lindahl JP, Massey RJ, Hartmann A, Aakhus S, Endresen K, Günther A, Midtvedt K, Holdaas H, Leivestad T, Horneland R, Øyen O, Jenssen T: LONG-TERM PROGRESSION OF CORONARY ARTERY DISEASE AFTERSIMULTANEOUS PANCREAS-KIDNEY TRANSPLANTATION COMPARED WITH KIDNEY TRANSPLANTATION ALONE IN PATIENTS WITH TYPE 1 DIABETES

10.30-11.00

Coffee and exhibition

11.00-11.45

Knud Lundbeck Award and lecture

Chair: **Knut Dahl Jørgensen**

Erik Renström, Lund University Diabetes Center, Sweden:

Pathophysiology and something that might be called human love

11.45-12.55

Oral presentation VIII

Chair: **Bente K. Kihovd**

37. Maria C. Magnus, Geir Joner, Torild Skrivarhaug, Pål R. Njølstad, Per Magnus, Lars C. Stene: POSTNATAL WEIGHT AND AND HEIGHT AND SUBSEQUENT RISK OF TYPE 1 DIABETES IN THE NORWEGIAN MOTHER AND CHILD COHORT STUDY
38. Abadpour S, Gopel S, Foss A, Korsgren O, Scholz H: GLIAL CELL-DERIVED NEUROTROPHIC FACTOR PROTECTS HUMAN ISLETS FROM APOPTOSIS INDUCED BY SERUM STARVATION AND ENDOPLASMIC RETICULUM STRESS
39. Hewitt S, Risstad H, Høgestøl I, Kristinsson J, Mala T: TYPE-2 DIABETES AND WEIGHT LOSS 5 YEARS AFTER GASTRIC BYPASS
40. Qvigstad E, Gulseth HL, Risstad H, le Roux CW, Berg TJ, Mala T, Kristinsson J: EVALUATION OF A NOVEL REVERSAL OF ROUX-EN-Y GASTRIC BYPASS FOR POSTPRANDIAL HYPERINSULINEMIC HYPOGLYCAEMIA
41. Fischer A-HT, Lindqvist A, Shcherbina L, Wierup N: ROUX-EN-Y GASTRIC BYPASS SURGERY IMPROVES GLYCEMIA IN A RAT MODEL OF TYPE 2 DIABETES
42. Shcherbina L, Fischer A-HT, Wierup N: CART IS A REGULATOR OF GIP AND GLP-1 EXPRESSION AND SECRETION

12.55-13.00

Close of the meeting

13.00-14.00

Farewell & lunch on the go