

CONFERENCE PROGRAM

WEDNESDAY
SEPTEMBER 11, 2024

09:00 – 10:00 AM

REGISTRATION

LOCATION: UNIVERSITY OF ANTWERP - GRAUWZUSTERS
KLOOSTER, LANGE SINT-ANNA STRAAT 7, 2000 ANTWERP

10:00 – 10:15 AM

WELCOME BY THE ORGANIZING COMMITTEE

CLAUDIO D'INCAL, LUSINE HARUTYUNYAN, KELLY VERBRUGGEN,
ANKE VAN DIJCK, NATHALIE VAN DER AA, AND FRANK KOOY

MORNING SESSION CHAIRED BY PROF. DR. R. FRANK KOOY

10:15 – 11:00 AM

ILLANA GOZES (VP DRUG DEVELOPMENT EXONAVIS THERAPEUTICS LTD)

ADNP AND THE INVESTIGATIONAL DRUG, DAVUNETIDE: FROM
DISCOVERY TO PRECISION MEDICINE HIGHLIGHTING SEX-DEPENDENCY

11:00 – 11:15 AM

SELECTED SHORT COMMUNICATION:

JESSICA ROSENBLUM (ANTWERP, BELGIUM)

ABNORMAL FETAL ULTRASOUND LEADING TO THE DIAGNOSIS OF ADNP
SYNDROME

11:15 – 11:45 AM

COFFEE BREAK

11:45 – 12:15 AM

HANS VAN BOKHOVEN (NIJMEGEN, THE NETHERLANDS)

IPSC-DERIVED NEURONS TO DISSECT MECHANISMS OF DISEASE IN
NEURODEVELOPMENTAL DISORDERS AND PRECLINICAL THERAPEUTIC
TESTING

12:15 – 12:30 PM

SELECTED SHORT COMMUNICATION:

DANIJELA BATAVELJIC (ANTWERP, BELGIUM)

EFFECTS OF EARLY EXPOSURE TO NMDA RECEPTOR NR1-SPECIFIC
ANTIBODIES ON THE DEVELOPING MOUSE STRIATUM

12:30 – 13:30 PM

LUNCH

CONFERENCE PROGRAM

WEDNESDAY
SEPTEMBER 11, 2024

AFTERNOON SESSION CHAIRED BY PROF. DR. HANS VANBOKHOVEN

13:30 – 14:10 PM

GIUSEPPE TESTA (HUMAN TECHNOPOLE AND THE UNIVERSITY OF MILAN, ITALY)

KEYNOTE SPEAKER: TOWARDS HIGH RESOLUTION MODELING OF HUMAN NEURODIVERSITY

14:10 – 14:40 PM

SOFIA PUVOGEL (NIJMEGEN, THE NETHERLANDS)

MOLECULAR BASES OF HUMAN NEURONAL NETWORK ACTIVITY
HETEROGENEITY IN NEURODEVELOPMENTAL DISORDERS

14:40 – 14:55 PM

SELECTED SHORT COMMUNICATION:

ALESSANDRO VITRIOLO (MILAN, ITALY)

DISRUPTION OF ADNP-KDM1A-GTF2I COMPLEX DRIVES NEURAL DIFFERENTIATION DEFECTS IN HELSMOORTEL-VAN DER AA SYNDROME

14:55 – 15:10 PM

SELECTED SHORT COMMUNICATION:

DALE ANNEAR (ANTWERP, BELGIUM)

PARACENTRIC INVERSION DISRUPTING THE SHANK2 GENE RESOLVED BY WHOLE GENOME SEQUENCING AND CYTOGENOMICS

15:10 – 15:30 PM

COFFEE BREAK

15:30 – 16:00 PM

ANA FERREIRA (CAMBRIDGE, UK)

ADNP AND ITS ROLE IN IMMUNITY

16:00 – 16:30 PM

EMANUELA PASCIUTO (ANTWERP, BELGIUM)

THE ROLE OF THE IMMUNE SYSTEM IN THE ADNP DEFICIENCY MODEL OF SYNDROMIC AUTISM

CONFERENCE PROGRAM

THURSDAY
SEPTEMBER 12, 2024

09:00 – 9:30 AM

REGISTRATION

LOCATION: UNIVERSITY OF ANTWERP - GRAUWZUSTERS
KLOOSTER, LANGE SINT-ANNA STRAAT 7, 2000 ANTWERP

MORNING SESSION CHAIRED BY PROF. DR. ILLANA GOZES

09:30 – 10:00 AM

FRANK KOOY & ANKE VAN DIJCK (ANTWERP, BELGIUM)

THE EVOLVING INSIGHTS IN THE CLINICAL PRESENTATION(S) OF THE HELSMOORTEL-VAN DER AA SYNDROME

10:00 – 10:40 AM

CLAUDIO PETER D'INCAL (ANTWERP, BELGIUM)

ON THE NOVEL ADNP HETEROZYGOUS MOUSE MODEL

10:40 – 10:55 AM

SELECTED SHORT COMMUNICATION:

LIDIA CAROTENUTO (ANTWERP, BELGIUM)

IDENTIFICATION AND PHARMACOLOGICAL CHARACTERIZATION OF C4, A NEW KV7 CHANNEL OPENER TO TREAT NEURONAL HYPEREXCITABILITY DISORDERS

10:55 – 11:20 AM

COFFEE BREAK

11:20 – 12:00 AM

MARC BÜHLER (BASEL, SWITZERLAND)

KEYNOTE: THE MOLECULAR FUNCTIONS OF ACTIVITY-DEPENDENT NEUROPROTECTIVE PROTEIN

12:00 – 12:30 PM

PIERRE MATTAR (OTTAWA, CANADA)

DISSECTING CHAHP FUNCTIONS IN NEURODEVELOPMENT USING NOVEL GENETIC MODELS

12:30 – 13:30 PM

LUNCH

CONFERENCE PROGRAM

THURSDAY
SEPTEMBER 12, 2024

AFTERNOON SESSION CHAIRED BY CLAUDIO D'INCAL

13:30 – 14:10 PM

JOSEPH BUXBAUM (MOUNT SINAI, USA)

KEYNOTE: FINDINGS FROM THREE APPROACHES TO DRUG DISCOVERY.
IN ADNP SYNDROME

14:10 – 14:40 PM

DAVID SEGAL (MIND, DAVIS, USA)

THREE APPROACHES TO ADNP GENE ACTIVATION THERAPY

14:40 – 14:55 PM

SELECTED SHORT COMMUNICATION:

MARCUS KAJI (ANTWERP, BELGIUM)

TARGETING KCNQ2 DEVELOPMENTAL ENCEPHALOPATHY USING HIGH-DENSITY MEA DRUG SCREENING IN A PATIENT-DERIVED NEURONAL MODEL

14:55 – 15:30 PM

COFFEE BREAK

15:30 – 16:00 PM

SARAH VERGULT (GHENT, BELGIUM)

USING EPIGENOMICS TO INTERPRET THE IMPACT OF NONCODING STRUCTURAL VARIATION IN NEURODEVELOPMENTAL DISORDERS AND ELUCIDATE THE ROLE OF NOVEL CANDIDATE GENES

16:00 – 16:15 PM

SELECTED SHORT COMMUNICATION:

LISA HAMERLINCK (GHENT, BELGIUM)

STRUCTURAL VARIANTS DISRUPT A CRITICAL REGULATORY REGION DOWNSTREAM OF FOXG1

16:00 – 16:30 PM

WIM VANDEN BERGHE (ANTWERP AND GHENT, BELGIUM)

DECODING EPIGENETIC ROADMAP OF SYNAPTIC PLASTICITY IN AUTISM SPECTRUM DISORDERS

CLOSING REMARKS OF THE SCIENTIFIC PROGRAM

**RECEPTION AT “GRAND CAFÉ HORTA” FOR PARENTS, PATIENTS, AND SCIENTISTS OFFERED BY TREPUNT STAN (TREPUNT VERSTANDELIJKE HANDICAP VZW) AND HVDAS BELGIUM
LOCATION: GRAND CAFÉ & ART NOUVEAU ZAAL, HOPLAND 2, 2000 ANTWERPEN
18:30 – 20:30 PM**

CONFERENCE PROGRAM

FRIDAY
SEPTEMBER 13, 2024

08:30 – 9:30 AM

REGISTRATION PARENT COMMUNITY DAY

LOCATION: UNIVERSITY OF ANTWERP - GRAUWZUSTERS
KLOOSTER, LANGE SINT-ANNASTRAAT 7, 2000 ANTWERP

MORNING SESSION CHAIRED BY KELLY VERBRUGGEN & NATHALIE VAN DER AA

09:30 – 10:00 AM

KELLY VERBRUGGEN & NATHALIE VAN DER AA (ANTWERP, BELGIUM)

INTRODUCTION AND SYNDROME HISTORY

10:00 – 10:15 AM

FRANK KOOY (ANTWERP, BELGIUM)

UPDATE ON THE CLINICAL PRESENTATION OF HELSMOORTEL-VAN DER
AA SYNDROME PATIENTS

10:15 – 10:45 AM

CLAUDIO PETER D'INCAL (ANTWERP, BELGIUM)

THE HELSMOORTEL-VAN DER AA SYNDROME FROM A MOLECULAR
PERSPECTIVE: BRIDGING PARENTS AND SCIENTISTS

10:45 – 11:15 AM

COFFEE BREAK

11:15 – 11:45 AM

LIS GYS (ANTWERP, BELGIUM)

INVESTIGATING GAIT CHARACTERISTICS IN HELSMOORTEL VAN DER AA
SYNDROME USING INSTRUMENTED 3D GAIT ANALYSIS

11:45 – 12:30 PM

KELLY VERBRUGGEN, ANKE VAN DIJCK, LUSINE HARUTYUNYAN & NATHALIE VAN DER AA (ANTWERP, BELGIUM)

THERAPEUTIC TRAJECTORY: FROM SUPPORT TO SUPPLEMENT

12:30 – 13:30 PM

LUNCH

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SEPTEMBER 13, 2024

AFTER SESSION CHAIRED BY PROF. DR. R. FRANK KOOY

13:30 – 14:00 PM

MARC BÜHLER (NOVARTIS RESEARCH INSTITUTE)

APPROACHES TO TARGET THE GENETIC CAUSE OF HELSMOORTEL-VAN DER AA SYNDROME

14:00 – 14:30 PM

ILLANA GOZES, VIVIENNE MARGOLIS & NADYA LISOVODER (GALILEE-CBR LTD)

LONGITUDINAL GENOTYPE-PHENOTYPE CHARACTERIZATION OF ADNP DEFICIENCIES: EMBARKING ON DAVUNETIDE CLINICAL DEVELOPMENT

14:30 – 15:00 PM

ALEXANDER KOLEVZON (SEAVER CENTER, USA)

AN OPEN-LABEL STUDY EVALUATING THE OUTCOMES OF LOW-DOSE KETAMINE IN CHILDREN WITH ADNP SYNDROME

15:00 – 15:30 AM

COFFEE BREAK

15:30 – 15:45 PM

GERMAN PARENT COMMUNITY

15:45 – 16:00 PM

ITALIAN PARENT COMMUNITY

16:00 – 16:30 PM

KELLY VERBRUGGEN (ANTWERP, BELGIUM)

HOW TO REACH OUR GOALS AS A PATIENT COMMUNITY IN EUROPE?

CONCLUDING REMARKS AND FUTURE PERSPECTIVES

RECEPTION WITH BUBBLES FOR PARENTS AND SCIENTISTS

17:00 – 19:00 PM