

Budapest
Hungary

NOVEMBER 2014

16th : 19th

Twins 2014

The Joint 3rd World Congress on Twin Pregnancy & The 15th Congress of the International Society a Global Perspective & Twin Studies (ISTS)

in honour of Professor Luis Keith

ORGANIZING SECRETARIAT



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The Joint 3rd World Congress on The 15th Congress of the
Twin Pregnancy & International Society
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Welcome to our Twins2014 International Congress in the beautiful city of Budapest.

Once again this is a multi-disciplinary event featuring the finest academic research in twin studies as well as the latest advances in twin pregnancy related clinical problems.

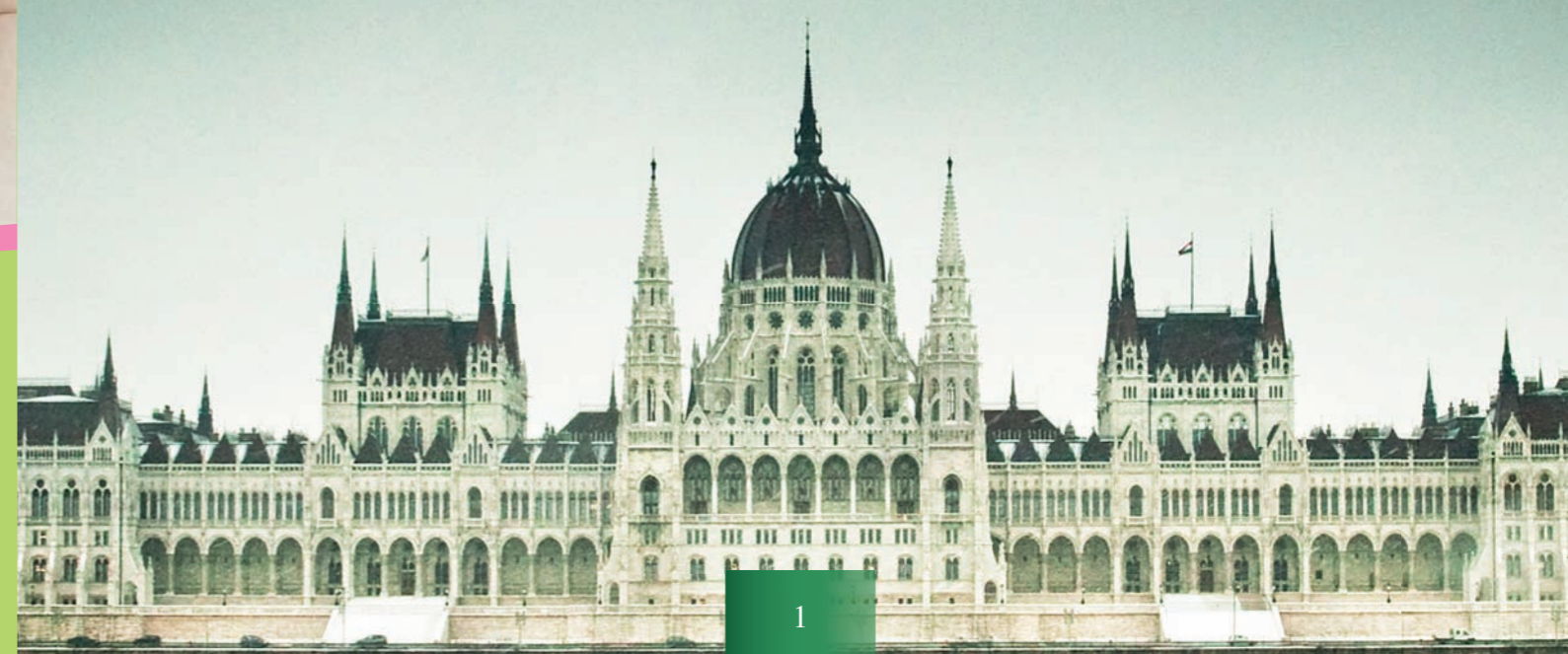
The program this year focuses on the latest developments in the biology and genetics of twinning, pre and perinatal factors and the fast moving field of epigenetics and personalised medicine. Twins and twin researchers continue to provide the finest cutting edge research and this biannual event is a great occasion to share knowledge and celebrate this unique opportunity.

We hope you enjoy the congress, the fantastic program – and the city!

G. C. Di Renzo

R. Quintero

T. Spector





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ORGANIZING COMMITTEE

Chairpersons

G. C. Di Renzo, *Italy*
 R. Quintero, *USA*
 T. Spector, *UK*

International Scientific Committee

S. Dickinson, *Australia*
 H. Muñoz, *Chile*
 D. Oepkes, *The Netherlands*

ISTS Organizing Committee

J. Harris, *Norway*
 N. Lambalk, *The Netherlands*
 G. Willemsen, *The Netherlands*

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 N. Lambalk, *The Netherlands*
 G. Willemsen, *The Netherlands*
 N. Martin, *Australia*
 C. Derom, *Belgium*
 N. Segal, *USA*
 M. Rankin, *Australia*
 J. Barrett, *Canada*
 M. Bartels, *The Netherlands*
 K. Christensen, *Denmark*
 J. Denton, *UK*

Local Organizing Committee

L. Littvay
 Z. Papp
 A. Tarnoki
 D. Tarnoki

Sunday, November 16th

10:30 - 13:00 **BARCELONA HALL**
PRECONGRESS COURSE 1: Monitoring during pregnancy and labour
 Coordinator: G. H. A. Visser, *The Netherlands*

Discussants:

- The first trimester scan
K. Bilardo, The Netherlands
- Dichorionic twins; monitoring during pregnancy
G. H. A. Visser, The Netherlands
- How to manage triplets and higher order multiples
Y. Yogeve, Israel

Monitoring during labour
G.H.A. Visser, The Netherlands

10:30 - 13:00 **SEVILLA HALL**
PRECONGRESS COURSE 2: Twin management - terminology: a consensus conference
 Coordinator: R. Quintero, *USA*

The purpose of the course is to discuss and make recommendations on terminology of normal and complicated twin/multiple gestations:

- *Taxonomy of twins*
- *Definition of twin-twin transfusion syndrome and its complications*
- *Staging of twin-twin transfusion syndrome*
- *Definition of laser surgical techniques*
- *Definition of selective intrauterine growth restriction*
- *Classification of selective intrauterine growth restriction*
- *Definition of twin-anemia-polycythemia syndrome*
- *Staging of twin-anemia-polycythemia syndrome*
- *Discordant anomalous twins*

Discussants:

- D. Oepkes, The Netherlands*
- H. Muñoz, Chile*
- F. Slaghekke, The Netherlands*
- E. Kontopoulos, USA*
- G. Clerici, Italy*



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10:00 - 16:15

CORDOBA HALL

PRECONGRESS COURSE 3: Advanced course on epigenetics and twinning

(supported by EpiTrain)

10:00 - 10:10

Welcome by Professor T. Spector, United Kingdom

Session 1 - Coordinator: T. Murphy, United Kingdom

10:10 - 10:40

Epigenetics: the challenges and an example

T. Spector, United Kingdom

10:40 - 11:00

Epigenetics in young twins

R. Saffery, Australia

11:00 - 11:20

Epigenetics in autoimmune disease

R. Lyle, Norway

11:20 - 11:50

BREAK - POSTER PRESENTATION

Session 2 - Coordinator: J. Craig, Australia

11:50 - 12:10

True concordance of diabetes in twins

K. Piestalinen, Finland

12:10 - 12:30

Epigenetics in the Hunger Winter Families Study

B. Heijmans, The Netherlands

12:30 - 12:50

Epigenetics of mental health disease

T. Murphy, United Kingdom

12:50 - 13:50

LUNCH - POSTER PRESENTATION

Session 3 - EpiTrain Fellows presentations

Coordinator: T. Spector, United Kingdom

13:50 - 14:05

Cells abnormal growth and DNA damage bypass - under epigenetic control

R. Loureiro, Spain

14:05 - 14:20

Epigenomic approach to unravel the weight loss associated markers from a 12 month intervention study

S. Bollepalli, Finland

14:20 - 14:35

Allele-specific DNA methylation across brain and blood

S. Marzi, United Kingdom

14:35 - 14:50

Characterizing DNA methylation heritability across the genome

J. E. Castillo Fernandez, United Kingdom

14:50 - 15:00

BREAK - POSTER PRESENTATION

Session 4 - Coordinator: J. Kaprio, Finland

15:05 - 15:20

EUrodiscotwin - the use of the discordant twin pair model

T. Spector, United Kingdom

15:20 - 16:00

Keynote Lecture - Causal modeling and twins

G. Davey Smith, USA

16:00 - 16:15

Closing remarks

T. Spector, United Kingdom

13:30 - 15:30

PARK 1 HALL

PRECONGRESS COURSE 4: A workshop on how to effectively manage a national multiple birth organisation (for ICOMBO members)

Coordinator: M. Rankin, Australia

An opportunity for ICOMBO members to share and learn about how to effectively manage their organisations. Topics to be discussed include how to attract and retain members; how to generate funds for their organisation; and clever ways to share and store information in the 21st century.

16:45 - 17:45

PARK 1 HALL

ISTS BOARD MEETING

Coordinator: G. Willemsen, The Netherlands

18:00 - 21:30

BOLERO HALL

OPENING CEREMONY & WELCOME RECEPTION

Chairpersons: G. C. Di Renzo, Italy; R. Quintero, USA; T. Spector, United Kingdom

Opening lecture: Twins in history and art

D. Lippi, Italy



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Monday, November 17th

08:30 - 09:30 BOLERO HALL

PARALLEL SESSION 1A:

Preconceptional aspects of multiple pregnancy - How to avoid multiples in PMA

Coordinators: S. Daya, Canada - N. Lambalk, The Netherlands

The outcomes of twin pregnancies with assisted reproduction

S. Daya, Canada

PMA and multiple pregnancy. How to improve perinatal outcome

A. Antsaklis, Greece

Epidemiology of twin pregnancy in our environment (short communication)

A. Herrera Muñoz, Spain

Conception mode: influence on first trimester maternal serum markers free β -HCG and PAPP-a used for aneuploidy screening in twin pregnancies (short communication)

I.H. Linskens, The Netherlands

08:30 - 09:30 CORDOBA HALL

PARALLEL SESSION 1B: International Twin Studies of Cooperation, Competition and Altruism

Coordinator: N. Segal, USA

Prosocial and pro-self behavior in children: findings from the differential productivity task

K. Yirmiya, Israel

Twin studies of tacit coordination: new findings in an adolescent and adult sample

N. Segal, USA

MOVIE: Quintuplets

K. Vitkova Rulikova, Czech Republic

09:30 - 10:00 BOLERO HALL

KEYNOTE LECTURE

introduced by I. Blickstein, Israel

Mendelian randomization and beyond: strengthening causal inference in epidemiological and omic sciences

G. Davey-Smith, United Kingdom

10:00 - 10:30 COFFEE BREAK & POSTER VIEWING

10:30 - 12:30 BOLERO HALL

PARALLEL SESSION 2A: Obstetrical issues in twin pregnancy (I): prenatal non invasive and invasive testing

Coordinators: D. Oepkes, The Netherlands - G. Monni, Italy

Amnio or CVS in multiples?

G. Monni, Italy

NIPT in twins: fetal cell-free DNA fraction and aneuploidy assessment

T. Musci, USA

Non invasive twin zygosity assessment and aneuploidy detection by maternal plasma DNA sequencing

T.Y. Leung, Hong Kong

Ultrasound and twins: pitfalls and curiosities

Y. Zalel, Israel

Crown-rump length discordance and fetal structural abnormalities in twin pregnancies (short communication)

A. Khalil, United Kingdom

Amniocentesis in dichorionic twin pregnancies does not increase the risk of adverse outcome until 24 weeks (short communication)

A. Piazzese, Italy

10:30 - 12:30 CORDOBA HALL

PARALLEL SESSION 2B: Wellbeing

Coordinator: M. Bartels, The Netherlands

An overview of twin-family and molecular genetic studies into wellbeing

M. Bartels, The Netherlands

Overlap between Wellbeing and Mental Illness throughout the life span

B. Baselmans, The Netherlands

The Glass is Half Full and Half Empty: optimism and pessimism as distinct systems with multiple biological influences

T. Bates, United Kingdom

Genetic and Environmental influences on subjective well-being inventory in Japanese Adults

K. Omura, Japan

Genes, personality and life satisfaction

E. Reysamb, Norway

Life satisfaction and work absenteeism – a discordant twin analysis

R.E. Orstavik, Norway

Sense of coherence and subjective well-beings in middle aged population

R. Tomizawa, Japan

Psychoactive medication in a population-based twin sample. Use and relationship with well-being

J. R. Ordoñana, Spain



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12:30 - 13:30 LUNCH BREAK & POSTER VIEWING

13:30 - 15:30 BOLERO HALL

PARALLEL SESSION 3A: Obstetrical issues in twin pregnancy (II): prematurity

Coordinators: R. Romero USA - H. Muñoz, Chile

Cervical screening: which cut-off for twins?

S. Hassan, USA

Cervix in twin pregnancy: the Chilean experience

H. Muñoz, Chile

Progestogens and twins: do they work on the prevention of preterm birth and neonatal morbidity?

R. Romero, USA

Cerclage vs. other methods to prevent twins preterm birth

E. Borges da Fonseca, Brazil

The pessary and twins preterm birth prevention

L. Cabero Roura, Spain

Arabin cervical pessary to prevent preterm birth in twin pregnancies with short cervix (short communication)

S. Arduino, Italy

Role of a glucocorticoid dose after the administration of a complete course with two doses for fetal lung maturation in twin pregnancies (short communication)

V. J. Diago Almela, Spain

13:30 - 15:30 CORDOBA HALL

PARALLEL SESSION 3B: Cancer and Multiple birth

Coordinators: N. Lambalk, The Netherlands - J. Harris, Norway

Increased breast cancer risk after a multiple pregnancy in IVF-treated women: a nationwide Dutch cohort study

F. Van Leeuwen, The Netherlands

Cancer risk in opposite-sexed twins

L. Ahrenfeldt, Denmark

Australian twin and family studies of mammographic density and breast cancer: insights into early-life risk factors

J.L. Hopper, Australia

20 years of studying melanoma risk factors in Queensland twins

N. Martin, Australia

Methods for studying heritability of cancer diagnosis using twins

S. Möller, Denmark

Heritability and familial risk of cancer in the Nordic Twin Cohorts

L. A. Mucci, USA

15:30 - 16:00 COFFEE BREAK & POSTER VIEWING

16:00 - 18:00 BOLERO HALL

PARALLEL SESSION 4A: Neonatal issues in raising twins

Coordinators: L. Zimmermann, The Netherlands - G. Donzelli, Italy

Intergenerational effect of preterm birth and small-for-gestational-age among twins and singletons (short communication)

M. Bladh, Sweden

Demise of the leading twin is an independent risk factor for early preterm birth

(short communication)

B. Hamou, Israel

Long term follow up of complicated monochorionic twins, TTTS, TAPS and selective IUGR

E. Lopriore, The Netherlands

The twins brain: what do they risk?

L. Ramenghi, Italy

Long-term neurologic outcome of children born after randomisation for the Solomon trial

(short communication)

J. M. M. van Klink, The Netherlands

Respiratory outcome of twins

B. Kramer, The Netherlands

16:00 - 18:00 BOLERO HALL

PARALLEL SESSION 4B: Addiction

Coordinator: J. Vink, The Netherlands

The Neuregulin signalling pathway in addictions

A. Loukola, Finland

The genetic landscape of Cannabis Use: a meta-analysis including over 27,000 subjects

J. Vink, The Netherlands

The genetics basis of Cotinine levels in daily smokers: results from a genome-wide meta-analysis

A. Taylor, United Kingdom

Unraveling the genetic of alcohol dependence: heritability estimates and GWAS based on the AUDIT measure

H. Mbarek, The Netherlands



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Is there genetic overlap between personality, expectancies and symptoms of Cannabis Use disorders?

L. Mezquita, Spain

Mechanisms of assortative mating for smoking behavior in a population based twin-study

J.L. Treur, The Netherlands

Association between SNUS use in adolescence and cigarette smoking in early adulthood - a prospective study among Finnish twins

D. Araneda, Finland

18:00 - 19:30 BOLERO HALL

MOVIE SESSION: "Twin Sisters"
introduced by N. Segal, USA

Tuesday, November 18th

08:30 - 09:00 BOLERO HALL

KEYNOTE LECTURE

Introduced by T. Spector, United Kingdom

The latest development in twin studies

D. Boomsma, The Netherlands

08:30 - 10:00 CORDOBA HALL

ICOMBO Multiple Birth Organization BUSINESS meeting

Coordinator: M. Rankin, Australia

09:00 - 10:00 BOLERO HALL

PARALLEL SESSION 5: Twin Studies in Europe

Chairpersons: Z. Papp, Hungary - L. Littvay, Hungary

Coordinators: A. Tarnoki, Hungary - D. Tarnoki, Hungary

Twin studies in Central and Eastern Europe:

Twin studies and registries in Central Eastern Europe

A. Tarnoki, Hungary

Twin studies in Hungary

D. Tarnoki, Hungary

The heritability of coronary artery anatomy

P. Maurovich-Horvat, Hungary

Inheritance of left ventricular deformation

A. Kovács, Hungary

Twinship as a resource

A. Pári, Hungary

The Hungarian twin registry: present and future

L. Littvay, Hungary

10:00 - 10:30 COFFE BREAK & POSTER VIEWING

10:30 - 12:30 BOLERO HALL

PARALLEL SESSION 6A: Obstetrical issues in twin pregnancy (III): growth

Coordinators: G. Rizzo, Italy - S. Hassan, USA

First trimester prediction of twin growth disturbances

J.L. Bartha, Spain

NCD, obesity and twins

Y. Yogev, Israel



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Twin Pregnancy: double risk for metabolic syndrome

L. Voto, Argentina

Placental anomalies in twins

C. Hubinont, Belgium

Laser therapy for twin-twin transfusion syndrome: where are we today?

R. Quintero, USA

Twin chorionicity and the risk of preeclampsia (short communication)

I. Szymusik, Poland

Perinatal outcomes of selective IUGR and non-selective IUGR in twin pregnancy

(short communication)

J. Lee, Korea

10:30 - 12:30 CORDOBA HALL

PARALLEL SESSION 6B: Metabolic syndrome, diabetes and cardiovascular risk factors

Coordinator: *K. Ohm-Kyvik, Denmark*

Genetics of cardiovascular diseases

K. Silventoinen, Finland

Identification of an adipose specific gene environment interaction associated with BMI

C. Glastonbury, United Kingdom

Effects of genetic and environmental influences on abdominal adipose tissue compartments and hepatic lipid accumulation: a classical twin study

A.L. Jermendy, Hungary

Fast food consumption and body mass index: a twin study

G. Duncan, USA

Causes of variability and correlations among biomarkers of cardiovascular disease - twin versus genome-wide common SNPS models

X. Chen, Sweden

Relationship between pre-diabetes and sleep duration in men from the Danish Geminakar twin cohort

C. Dalgård, Denmark

Relationship between metabolic syndrome and Breslow's 7 health practice index without genetic factors: a study of Japanese adult twins

K. Tanaka, Japan

Genetic effects on thyroid gland size in Hungarian TWINS

A. D. Tarnoki, Hungary

12:30 - 13:30 LUNCH BREAK & POSTER VIEWING

13:30 - 15:30 BOLERO HALL

PARALLEL SESSION 7A: Obstetrical issues in twin pregnancy (IV): labour and delivery

Coordinators: *J.F. Barrett, Canada - E. Kontopoulos, USA*

Timing of delivery of twins

R. Sokol, USA

Timing of delivery of monochorionic twins

I. Blickstein, Israel

The Twin Birth Study: the secondary analyses begin! Labour induction and successful vaginal birth

J.F. Barrett, Canada

Problems of labour induction in twins

M. Robson, Ireland

Optimal mode of delivery for the second twin

D. Farine, Canada

How and when to deliver twins?

B. Arabin, Germany

13:30 - 15:30 CORDOBA HALL

PARALLEL SESSION 7B: Epigenetics and Telomere Studies

Coordinators: *J. Harris, Norway - R. Lyle, Norway*

A common DNA methylation signature in whole blood samples from monozygotic twins discordant for malignant tumor development

L. Roos, United Kingdom

Are twins reared apart more epigenetically discordant than twins reared together?

N. L. Segal, USA

DNA Methylation in Urologic Chronic Pelvic Pain: a MAPP Research Network Twin Study

E. Strachan, USA

Changes in DNA methylation in rheumatoid arthritis and the effect of smoking, anti-CCP and treatment. An epigenome wide association study in monozygotic RA discordant twin pairs

A. J. Svendsen, Denmark

Lower placental telomere length may be attributed to maternal residential traffic exposure; a twin study

E. Bijens, Belgium

Greater Resemblance of Telomere Length in Dizygotic Twins with increasing paternal age

U. Halekoh, Denmark

Leukocyte Telomere Length (LTL) in Urologic Chronic Pelvic Pain: a MAPP Research Network Twin Study

E. Strachan, USA



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13:30 - 15:30 PARK 1 HALL

PARALLEL SESSION 7C: ICOMBO symposium

Coordinator: M. Rankin, Australia

Family care nursing in the multiple birth families - evidence based strengthening is needed - based on PhD Kristiina Heinonens research

U. Kumpula, Finland

Similarities and Differences in the delivery of maternity care in English Speaking Countries

K. Reed, United Kingdom

Post-Partum Mood Disorder (Post Natal Depression)

S. Griffith, USA

The first quintuplets in Czech Republic

K. Vitkova Rulikova, Czech Republic

Understanding the emotional challenges of a twin pregnancy: how it impacts parenting and impedes individuality

J. Friedman, USA

Postnatal depression symptomatology and breastfeeding

L. Colodro-Conde, Spain

15:30 - 16:00 COFFEE BREAK & POSTER VIEWING

16:00 - 17:30 BOLERO HALL

PARALLEL SESSION 8A: Obstetrical issues in twin pregnancy (V): malformations and pathologies unique to twins

Coordinators: A. Antsaklis, Greece - Z. Papp, Hungary

Twin mythology in the American continent (short communication)

D. Czukerberg, USA

The original features of the twin placenta

L. Lewi, Belgium

Management of discordant anomalous twins

E. Kontopoulos, USA

Acute TTTS in labour

D. Skupski, USA

Prognosis for an isolated single umbilical artery in twin pregnancies (short communication)

T. Cade, Australia

Pathology of co-twins with "vanished twins" in high risk pregnancy (short communication)

I. Gordienko, Ukraine

16:00 - 17:30 CORDOBA HALL

PARALLEL SESSION 8B: Anthropometric traits

Coordinator: K. Silventoinen, Finland

Association of height with physical and psychosocial traits: the role of genetic and environmental factors

A. Jelenkovic, Spain

Explaining individual differences in BMI: contributions from the Netherlands Twin Register

G. Willemsen, The Netherlands

Early-life nutritional determinants of childhood BMI

M. Diasparra, Canada

Is Post-Traumatic Stress Disorder (PTSD) associated with increased body mass index?

J. Goldberg, USA

Genetic and Environmental Effects on Fat Distribution: The Healthy Twin Study

J.N. Kim, Korea

The impact of genetic and environmental factors on maternal gestational weight gain: a twin study based on the Swedish twin registry

E. Scheers Andersson, Sweden

17:30 - 18:00 BOLERO HALL

KEYNOTE LECTURE

introduced by R. Quintero, USA

Ultrasound and Doppler in the first trimester - What we can predict in twins?

G. Rizzo, Italy

18:00 - 18:45 CORDOBA HALL

ISTS General Meeting

Chairperson: T. Spector, United Kingdom

Secretary General: G. Willemsen, The Netherlands



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Wednesday, November 19th

08:30 - 10:30 BOLERO HALL

PARALLEL SESSION 9A: Monochorionic twins (I): surgery and TTTS

Coordinators: R. Quintero, USA – D. Oepkes, The Netherlands

Cardiac manifestations of TTTS

N. Manning, United Kingdom

Donor twin catch-up growth after laser surgery for twin-twin transfusion syndrome

R. Quintero, USA

TAPS: how severe is it, how to treat it?

D. Oepkes, The Netherlands

TAPS: how to diagnose it, how to prevent it?

F. Slaghekke, The Netherlands

Development of survival rates after laser therapy for severe TTTS in a series of 851 consecutive cases

K. Hecher, Germany

Fetal brain injury in survivors of twin pregnancies complicated by demise of one twin as assessed by in utero MR imaging

M. Kilby, United Kingdom

Is the sequential laser technique for twin-to-twin transfusion syndrome truly superior to the standard selective technique? A meta-analysis (short communication)

J. Akkermans, The Netherlands

08:30 - 10:30 CORDOBA HALL

PARALLEL SESSION 9B: Bulmer session on new developments with the biology of twinning

Coordinators: N. Lambalk, The Netherlands - C. Derom, Belgium

Biology of MZ twinning

B. Reversade, Singapore

How chimaeric are dizygotic monochorionic twins? (short communication)

J. M. Craig, Australia

Can we do more to help parents of newborn twins understand about zygosity and chorionicity?

T. L. Cutler, Australia

Monozygotic twins after assisted reproduction: a change in chorionicity (short communication)
C. Derom, Belgium

Mid-pregnancy, perinatal and neonatal reproductive endocrinology in twins and singleton controls

E.A.M. Kuijper, The Netherlands

Historical twinning rates in Norway

T. Nilsen, Norway

Spot the difference and know the similarity; genetic counseling in monozygotic twins

P.J.G. Zwijnenburg, The Netherlands

Pitx2 positions the embryonic axis and regulates twinning

C. Stern, United Kingdom

The genetic landscape of Twinning: a meta-analysis of genome-wide association studies from the Twinning Gwas Consortium

H. Mbarek, The Netherlands

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 BOLERO HALL

PARALLEL SESSION 10A: Monochorionic twins (II): other issues

Coordinators: I. Blickstein, Israel - B. Arabin, Germany

Twin pregnancy and delivery as a window for future health?

B. Arabin, Germany

MC twinning as an embryonic accident

I. Blickstein, Israel

Functional and acquired cardiovascular anomalies in monochorionic twins

N. Manning, United Kingdom

First trimester fetal reduction in monochorionic multiples and perinatal outcome

A. Mikhailov, Russia

Contemporary management of monoamniotic twins

V. Stefanovic, Finland



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The Joint 3rd World Congress on The 15th Congress of the
**Twin Pregnancy & International Society
a Global Perspective & Twin Studies (ISTS)**



Budapest
Hungary

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11:00 - 12:30 CORDOBA HALL

PARALLEL SESSION 10B: Biomarkers and the International Network of Twin Registries

Coordinator: J. Harris, Norway

Intro and INTR

J. Harris, Norway

Why biomarkers in twin research?

J. M. Craig, Australia

Biospecimens for twin research: what and how?

J.M. Craig, Australia

Cotinine as a biomarker for tobacco use

J. Kaprio, Finland

Self-reported dietary intake patterns correlate strongly with blood metabolites using a non-targeted metabolomics approach in a population based twin)

T. Pallister, United Kingdom

CODATwins project: understanding macro-environmental variation in genetic and environmental effects

J. Kaprio, Finland

12:30 - 13:00 BOLERO HALL

CLOSING LECTURE

introduced by T. Spector, United Kingdom

The Microbiome

D. Ehrlich, France

13.00 - 13:40 BOLERO HALL

AWARD CEREMONY AND CLOSING REMARKS - THE NEXT TWINS CONGRESS IN 2017

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POSTER SESSION 1

November 16th - 17th

- 1 - The colombo twin and singleton study follow-up study.
K. Jayaweera
- 2 - Causes of co-occurring somatic, anxious, and depressive symptoms in adolescents.
H. Ask
- 3 - Paediatric back pain: a twin family case control study investigating genetic risk and associations.
A. Bott
- 4 - Paediatric anxious depression: genetic risk and associations with common pain disorders and restless legs syndrome.
A. Bott
- 5 - Paediatric restless legs syndrome with or without growing pains: novel insights from a twin family study.
D. Champion
- 6 - Parent-reported iron deficiency: genetic risk and associations with the common pain disorders of childhood.
D. Champion
- 7 - The influence of general anaesthesia and surgery in old age: a twin study.
U. Dokkedal
- 8 - A meta-analytic twin approach to unraveling the complex etiology of multiple sclerosis.
C. Fagnani
- 9 - Common aetiological substrates for asthma and respiratory allergies: a lesson from italian twins.
C. Fagnani
- 10 - Innate and acquired influences on empathy: a large survey on italian twins.
C. Fagnani
- 11 - Sleep behavior in twins from infancy to adulthood.
A. M. Torgersen
- 12 - Genetic and environmental influences on tojikomori syndrome in japan.
F. Inui
- 13 - Heritability of teeth with danish twin registry.
Y. Kurushima
- 14 - The genetic contribution to the association between number of teeth and arterial sclerosis.
Y. Kurushima
- 15 - Assessment of oral conditions in twins.
B. Vardhana
- 16 - Environmental influences on gene expression in personality from the viewpoint of pedagogical case studies for twins in junior and high school
S. Tsuihiji
- 17 - Childhood motor development and leisure-time physical activity in young adulthood: a discordant twin-pair analysis.
S. Aaltonen
- 18 - The genetic and environmental contributions to correlations between perceptions of family environment and activity in russian adolescent twins.
I. Voronin
- 19 - Work-home interference and burnout: a study based on swedish twins.
V. Blom
- 20 - Early respiratory infections: genetic factors, family environment and passive smoking.
E. Medda
- 21 - A large survey on behaviour, lifestyle and sleep habits among italian adolescent twins.
E. Medda
- 22 - Genetic and lifestyle factors for low back pain in brazilian twins: establishment of the first brazilian twin registry as part of a global network.
J. Hopper
- 23 - Heritability of disease – what it is and what it isn't.
J. Hopper
- 24 - Nature of individual differences in working memory: russian twin study.
V. Ismatullina
- 25 - What have we learned from twin studies about learning?
Y. Kovas
- 26 - Diversity of leisure-time sport activities in adolescence as a predictor of leisure time physical activity in adulthood: a finnish twin study.
S. Mäkelä
- 27 - The nature of the relationship between preschool drawing and school mathematics: insights from a large twin study.
M. Malanchini
- 28 - Generalised anxiety disorder – a twin study of genetic architecture, genome-wide association and differential gene expression.
S. Verdi
- 29 - Externalizing behavior problems in adolescence and sickness absence in adulthood.
J. Narusyte
- 30 - Cross-cultural genetic-informative study of personality traits.
E. Nizamova
- 31 - Sibling relationships at 3-years-old affect theory of mind at 4-years-old among japanese twins.
M. Nozaki
- 32 - Associations between short-term memory and food group intakes independent of genetic and family environmental factors.
S. Ogata
- 33 - Depression symptomatology and cognitive decline – a 10 year follow-up study of danish twins to identify shared etiology.
I. Petersen
- 34 - Impulsivity, delinquency and substance abuse in adolescence – can common genetic or environmental factors explain why these traits often co-occur?
K. B. Seglem
- 35 - Digestive symptoms are influenced by genetic and family environmental factors of depressive symptoms.
H. Tanaka
- 36 - Socioeconomic status and sick leave granted for mental and somatic disorders: a prospective study of young adult twins.
F. A. Torvik
- 37 - Heritability of intelligence through adolescence: longitudinal study.
I. Voronin
- 38 - A co-twin control study of the relationship between anxiety disorders and dimensional representations of dsm-iv personality disorders.
A. Welander-Vatn
- 39 - Maltreatment among singletons and twins in japan: a population-based study
Y. Yokoyama
- 40 - Novel athero-protective biomarker anti-oxcl - heritability and genetic co-regulation with anti-pc and traditional cvd biomarkers.
X. Chen
- 41 - Congenital heart defects in twins: occurrence and prognosis.
A. M. Herskind
- 42 - Study design: amyloid pathology in cognitively normal elderly twins.
E. Konijnenberg
- 43 - A genome-wide association study on hallux valgus angle (hva) identifies candidate loci: the healthy twin study korea.
S. J. Lee
- 44 - The influences of genetic and environmental factors on sleep quality.
K. Ohm Kyvik
- 45 - Twin study of genetic and environmental influences on insulin resistance.
C. Dalgård
- 46 - Association of copy number at the salivary amylase gene amy1 and serum amylase levels with metabolic profiles.
T. C. Martin
- 47 - Association between height and metabolic risk factors of cardio-vascular diseases in japanese and finnish twins.
K. Silventoinen
- 48 - Heritability of abdominal aortic diameter: a hungarian twin study.
D. Laszlo Tarnoki
- 49 - Ovarian cancer in twin pregnancy.
A. H. Muñoz
- 50 - Obsessive-compulsive symptoms: genome-wide association and beyond.
A. Den Braber
- 51 - Genomic literacy of twins and their family members.
C. Hayashi
- 52 - Heritability of lower urinary tract symptoms in men.
E. Strachan
- 53 - Posttraumatic stress disorder symptoms and migraine headache: examining models of co-occurrence with twin analyses.
E. Strachan
- 54 - Conditioned pain modulation in urologic chronic pelvic pain: a mapp research network twin study.
E. Strachan
- 55 - On the role of non-shared environment for executive functioning in adhd: a twin-differences design study.
C. Willfors
- 56 - Aggression in children: unraveling gene-environment interplay to inform treatment and intervention strategies.
M. Bartels
- 57 - Twins with discordant birth weight: anthropometric, hormonal and metabolic follow-up during the first two years of life.
M. Baricco
- 58 - Bivariate genetic analysis of drug abuse ascertained through medical and crime registries in swedish twins, siblings and half-siblings.
H. Maes
- 59 - Trap-syndrome with specific “nephrocardius” formations.
A. Mikhailov
- 60 - The influence of genomic variability on phenotypic discordance – towards polish registry of monozygotic twins (mzt) discordant for chronic medically relevant conditions.
R. Ploski



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POSTER SESSION 2

November 18th - 19th

- 1 - Characterizing dna methylation heritability across the genome.
J. E. Castillo-Fernandez
- 2 - Contribution of genetics and of environmental exposures to the activity of the dna repair enzyme *ogg1* in twins.
L. Nisticò
- 3 - Ice falcon: falsifying the multivariate twin model.
J. Hopper
- 4 - The variance and covariance structure of social environments.
J. R. Harris
- 5 - The multiqol study: a cross-sectional community survey of quality of life concerns of parents of young multiple birth children in australia.
M. Umstad
- 6 - Non-response bias for health statistics in the vietnam era twin registry.
J. Goldberg
- 7 - A bayesian approach to mixture distributions of twin data with an application to cortisol awakening response (car).
R. Holst
- 8 - R and openmx functions for multivariate analyses of twin data.
M. Neale
- 9 - Towards a global twin registry using the world wide web.
J. L. Hopper
- 10 - Strong associations between particulate air pollution and fetal growth in twins.
E. Bijlens
- 11 - Reduction as a method describing the lifeworld of the multiple birth families in finland.
K. Heinonen
- 12 - Fatal ch+i109+h117
S. Ooki
- 13 - Where were twins born in hungary?
(Regional aspects since 1970)
A. Pári
- 14 - Individual feedback on personal research results via the netherlands twin register portal: participants love it!
G. Willemsen
- 15 - Lower genital tract infection screening in twin pregnancies for prevention of late miscarriage and extremely preterm birth.
V. Borgarello
- 16 - The outcome of twin pregnancies discordant for trisomy 21
E. Egan
- 17 - Twin pregnancy: maternal age related complications.
M. A. Leal Garcia
- 18 - The association between mid-trimester cervical length, maternal systemic and placental inflammation, and preterm birth in twin pregnancies.
K. H. Park
- 19 - Intrauterine fetal death in twins- chorionicity dependent or not?
S. Plesinac
- 20 - Unconscious and emotional processes in twin pregnancy.
F. Savio
- 21 - Prevalence of congenital heart disease in twin pregnancies in cork university maternity hospital between 2009 and 2013
L. Szittyá
- 22 - A review of intrauterine deaths in twin pregnancies occurring in cork university maternity hospital between 2009 and 2012
L. Szittyá
- 23 - Effect of assisted reproductive conception and art type on perinatal outcome in a population of 897 twin pregnancies.
G. Bordi
- 24 - Triplet pregnancy: is the mode of conception related to perinatal outcomes?
M. Umstad
- 25 - Maternal and fetal outcomes in twin pregnancies obtained from oocyte donation.
B. Masturzo
- 26 - Placental disorders in bichorionic twin pregnancy in relation to conception, spontaneous versus homologue/heterologue assisted reproduction.
A. Cardani
- 27 - Outcome of multiple pregnancies at misurata teaching hospital.
A. Elbareg
- 28 - Prenatal diagnosis and perinatal outcome of ureterocele in twin pregnancies.
A. Herrera Muñoz
- 29 - Stillbirth rates and risk factors for stillbirths among zygotic twins and singletons in japan.
Y. Imaizumi
- 30 - Thoraco-omphalopagus conjoined twins diagnosed at 14 weeks of gestation.
N. Kim
- 31 - Carbetocin for post-partum hemorrhage prevention in twin pregnancy.
K. Kosinska-Kaczynska
- 32 - Pregnancy complications in twin gestation.
K. Kosinska-Kaczynska
- 33 - Twin pregnancy complicated by the intrauterine death of one twin. Problems and perinatal outcomes according to chorionicity.
V. J. Diago Almela
- 34 - Management of twin pregnancies with bulging membranes by rescue cerclage after the exclusion of intraamniotic inflammation and subclinical chorioamnionitis.
V. J. Diago Almela
- 35 - Monochorionic placentas: are all the same?
C. Paiva
- 36 - Case report of 143days delayed delivery of the second twin after the miscarriage of the first fetus at the 16th week of pregnancy.
H. Son
- 37 - Nation wide comparison of perinatal outcome of induced versus natural twins in the netherlands 2000-2012
N. Lambalk
- 38 - Caesarean delivery for the second twin – audit of clinical practice at a large tertiary referral centre.
L. Szittyá
- 39 - Midterm cervical length as a risk indicator for cesarean delivery in twin pregnancy.
L. Van De Mheen
- 40 - The heritability of early motor development in 2 years-old dutch twin pairs stratified by gestational age.
C.E.M. Van Beijsterveldt
- 41 - Does breastfeeding behavior run in families? Evidence from twins, their sisters and their mothers in the netherlands.
P. Merjonen
- 42 - Perinatal and neuro-developmental outcome of triplets : a population-based approach.
E. Thiery
- 43 - The outcomes of triplets and quadruplets born in a single level iii centre over a 10 year period.
A. Martin
- 44 - Multiple birth and mental health from pregnancy to 5 years after birth: a prospective population-based cohort study.
E. Ystrom
- 45 - Obstetric and perinatal outcomes in monochorionic monoamniotic twin pregnancies.
S. Barras
- 46 - Mirror syndrome after fetoscopic laser therapy for twin-twin transfusion syndrome - a case report.
A. Brandão
- 47 - Monoamniotic twins: outcome of 41 consecutive cases in a single institution.
M. Demyanenko
- 48 - Complicated monochorionic pregnancies, fetal therapy and neurological injury.
M. De la Calle
- 49 - Blood pressure in twins with and without twin-twin transfusion syndrome.
S. Genova
- 50 - Evolution of stage 1 twin-to-twin transfusion syndrome: cohort study and meta-analysis.
A. Khalil
- 51 - Cerebroplacental ratio and perinatal mortality in monochorionic twin pregnancies.
A. Khalil
- 52 - Prediction of monochorionicity-related vascular complications in twin pregnancies presenting with amniotic fluid discordance.
A. Khalil
- 53 - Critical steps of laser therapy for twin-to-twin transfusion syndrome: a delphi survey.
S.H.P. Peeters
- 54 - Cardiovascular status in multiple pregnancies complicated with twin-twin transfusion syndrome.
M. Radoń-Pokracka
- 55 - Selective reduction using intravascular potassium chloride injection after laser surgery for twin-twin transfusion syndrome.
R. Quintero
- 56 - Neurologic outcome in a population of monochorionic twins.
B. Scelsa
- 57 - Neurological and cognitive long-term development of monochorionic twins after intrauterine laser-therapy for twin-twin-transfusion syndrome.
P. Volz
- 58 - The sri lankan twin registry.
A. Sumathipala
- 59 - The creative process and identity of twin artists in contemporary art.
M. Del Rey Jorda
- 60 - Seasonality in twin birth rates, greece, 2004-2008
S. Gavrilí
- 61 - Changes of multiple pregnancies; dutch trends over the decade 1994 through 2011
T. König
- 62 - Twin zygosity analysis comparing facial 3d-stereophotogrammetry and dna-method
T. Heikkinen



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GENERAL INFORMATION

CONGRESS VENUE

Danubius Hotel Flamenco
1113 Budapest, Tas vezér utca 3-7
Hungary

OFFICIAL LANGUAGE

English

REGISTRATION DESK & HELP DESK OPENING TIME

November 16th 9.00 am to 8.00 pm
November 17th 8.00 am to 8.00 pm
November 18th 8.00 am to 6.00 pm
November 19th 8.00 am to 2.00 pm

ON SITE REGISTRATION FEES (VAT INCLUDED)

Non ISTS Members*	€ 400,00
ISTS Members	€ 300,00
ICOMBO non-ISTS Members*	€ 230,00
ICOMBO ISTS Members	€ 150,00
Phd Student non-ISTS Members*	€ 200,00
Phd Student ISTS Members	€ 130,00
Pre-congress Course 3 - Advanced course on epigenetics and twinning ONLY	€ 100,00

The fee includes:
UEMS accreditation
Access to all scientific sessions
Congress Kit
Final Scientific Program
Certificate of attendance
5 Coffee breaks
2 Lunches
Welcome reception

You are kindly required to wear your badge during all congress events, including the social activities.
Please note that admission to scientific sessions is strictly restricted to participants with badges.

CERTIFICATE OF ATTENDANCE

The certificate of attendance will be uploaded on a dedicated area of the congress website. Each delegate will receive an email in order to download his/her own certificate.

THE EUROPEAN ACCREDITATION COUNCIL FOR CME (EACCME®)

The Joint 3rd World Congress on Twin Pregnancy & The 15th Congress of the International Society Twin studies ISTS has been accredited by European Accreditation Council for Continuing Medical Education.

EACCME credits are recognized Europe-wide and in North America. They can be converted into their national equivalent by contacting your national CME Authority.

EACCME credits are recognized by the American Medical Association (AMA) towards Physicians Recognition Award (PRA).

15 European CME Credits (ECMEC) have been assigned for the entire congress. The certificate will be available in the congress bag.

SCIENTIFIC CONTRIBUTIONS

Accepted abstracts are published on the official journal of the International Society for Twin Studies (ISTS), Twin Research and Human Genetics, which is included in the congress bag. Posters are displayed on November 16th - 19th in the exhibition area.

Oral communications are included in the Scientific Program.

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For your patients facing severe birth defects or pregnancy complications, the Jackson Fetal Therapy Institute at Jackson Memorial Hospital in Miami, Florida can help.

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In a high-risk procedure, Dr. Rubén Quintero, Dr. Eftichia Kontopoulos and their specialized team saved the life of Leyna Gonzalez (pictured) by surgically removing a tennis-ball sized oral teratoma at 17 weeks of gestation through operative fetoscopy.



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