



Budapest
Hungary

NOVEMBER 2014
16th | 19th

Twins

2014

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

TWINS 2014

**The Joint 3rd World Congress on Twin Pregnancy and
15th Congress of the International Society of Twin Studies (ISTS):
*in honour of Luis Keith***

***Budapest
November 16th-19th, 2014***

Danubius Hotel Flamenco



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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)**

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

K. Hack, The Netherlands

Selective IUGR in monochorionic twins

E. Gratacos, Spain

How to manage triplets and higher order multiples

Y. Yogev, 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*



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Discussants:

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

10:00 - 16:15 CORDOBA HALL

PRECONGRESS COURSE 3: Advanced course on epigenetics and twinning (sponsored 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
C. Bell, 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



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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**

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



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12.30 - 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

THROUGHOUT THE DAY - POSTER SESSION 1

8:30 - 9:30 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

8:30 - 9:30 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
Karen Yirmiya, Israel

Twin Studies of Tacit Coordination: New Findings in an Adolescent and Adult Sample
N. Segal, USA

"Quintuplets" FILM
K. Vitkova Rulikova, Czech Republic

9:30 - 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



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10:00 - 10:30 BREAK

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 (*Short Communication*)



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K. Omura, *Japan*

Genes, personality and life satisfaction (*Short Communication*)

E. Røysamb, *Norway*

Life satisfaction and work absenteeism - a discordant twin analysis (*Short Communication*)

R.E. Orstavik, *Norway*

Sense of coherence and subjective well-beings in middle aged population (*Short Communication*)

R. Tomizawa, *Japan*

Psychoactive medication in a population-based twin sample. Use and relationship with well-being (*Short Communication*)

J. R. Ordoñana, *Spain*

12:30 - 13:30 BREAK

13:30 - 15:30 BOLERO HALL

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

Coordinators: S. Hassan, 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?

G.C. Di Renzo, *Italy*

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*



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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 (*Short communication*)

L. Ahrenfeldt, Denmark

Australian twin and family studies of mammographic density and breast cancer: insights into early-life risk factors (*Short communication*)

J.L. Hopper, Australia

20 years of studying melanoma risk factors in Queensland twins (*Short communication*)

N. Martin, Australia

Methods for studying heritability of cancer diagnosis using twins (*Short communication*)

S. Möller, Denmark

Heritability and familial risk of cancer in the Nordic Twin Cohorts (*Short communication*)

L. A. Mucci, USA

Common immune-related exposures/conditions and risk of non-Hodgkin lymphoma: a case-control study in discordant twin pairs (*Short communication*)

W. Cozen, USA

15:30 - 16:00 BREAK

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



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Malformations and twinning
G. Corsello, Italy

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

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

Respiratory outcome of twins
B. Kramer, The Netherlands

16:00 - 18:00 CORDOBA HALL

PARALLEL SESSION 4B: Addiction

Coordinator: *J. Vink, The Netherlands*

The Neuregulin signalling pathway in addictions (*Short communication*)
A. Loukola, Finland

The genetic landscape of Cannabis Use: a meta-analysis including over 27,000 subjects
(*Short communication*)
S. Stringer, The Netherlands

The Genetics Basis of Cotinine Levels in Daily Smokers: Results from a genome-wide meta-analysis
(*Short communication*)
A. Taylor, United Kingdom

Unraveling the genetic of alcohol dependence: heritability estimates and GWAS based on the AUDIT measure (*Short communication*)
H. Mbarek, The Netherlands

Is there genetic overlap between personality, expectancies and symptoms of Cannabis Use disorders? (*Short communication*)
L. Mezquita, Spain

Mechanisms of assortative mating for smoking behavior in a population based twin-study (*Short communication*)
J.L. Treur, The Netherlands

Association between SNUS use in adolescence and cigarette smoking in early adulthood - a prospective study among Finnish twins (*Short communication*)
D. Araneda, Finland

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18:00 - 19.30 BOLERO HALL
FILM SESSION: "Twin Sisters"
introduced by N. Segal, USA



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Tuesday, November 18th

THROUGHOUT THE DAY - POSTER SESSION 2

8:30 - 9:00 BOLERO HALL

KEYNOTE LECTURE

Introduced by T. Spector, United Kingdom

The latest development in twin studies
D. Boomsma, The Netherlands

8:30 - 10:00 CORDOBA HALL

ICOMBO Multiple Birth Organization BUSINESS meeting

Coordinator: M. Rankin, Australia

9:00 - 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 (*Short communication*)

A. D. Tarnoki, Hungary

Twin studies in Hungary (*Short communication*)

D. L. Tarnoki, Hungary

The heritability of coronary artery anatomy (*Short communication*)

P. Maurovich-Horvat, Hungary

Inheritance of left ventricular deformation (*Short communication*)

A. Kovács, Hungary

Twinship as a resource (*Short communication*)

R. Hegedűs, A. Pári, Zs. Drjenovszky, Hungary

The Hungarian twin registry: present and future (*Short communication*)

L. Littvay, Hungary



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10:00 - 10:30 **BREAK**

10:30 - 12:30 BOLERO HALL

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

Coordinators: G. Rizzo, Italy - E. Gratacos, Spain

First trimester prediction of twin growth disturbances
J.L. Bartha, Spain

NCD, obesity and twins
Y. Yogeve, Israel

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 (*Short communication*)
K. Silventoinen, Finland

Identification of an adipose specific gene environment interaction associated with BMI
(*Short communication*)
C. Glastonbury, United Kingdom

Effects of genetic and environmental influences on abdominal adipose tissue compartments and hepatic lipid accumulation: a classical twin study (*Short communication*)
A.L. Jermendy, Hungary

Fast food consumption and body mass index: a twin study (*Short communication*)
G. Duncan, USA



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Causes of variability and correlations among biomarkers of cardiovascular disease - twin versus genome-wide common SNPS models (*Short communication*)

X. Chen, Sweden

Relationship between pre-diabetes and sleep duration in men from the Danish Geminakar twin cohort (*Short communication*)

C. Dalgård, Denmark

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

K. Tanaka, Japan

Genetic effects on thyroid gland size in Hungarian TWINS (*Short communication*)

A. D. Tarnoki, Hungary

12:30 - 13:30 BREAK

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



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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 (*Short communication*)

L. Roos, United Kingdom

Are twins reared apart more epigenetically discordant than twins reared together? (*Short communication*)

N. L. Segal, USA

DNA Methylation in Urologic Chronic Pelvic Pain: A MAPP Research Network Twin Study (*Short communication*)

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 (*Short communication*)

A. J. Svendsen, Denmark

Lower placental telomere length may be attributed to maternal residential traffic exposure; a twin study (*Short communication*)

E. Bijmens, Belgium

Greater Resemblance of Telomere Length in Dizygotic Twins with increasing paternal age (*Short communication*)

J. Hjelmborg, Denmark

Leukocyte Telomere Length (LTL) in Urologic Chronic Pelvic Pain: A MAPP Research Network Twin Study (*Short communication*)

E. Strachan, USA

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



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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 BREAK

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



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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: G. Willemsen, The Netherlands

20:00 - 23:00 SOCIAL AND FACULTY DINNER



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Wednesday, November 19th

8:30 - 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 TTS 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

8:30 - 10:30 CORDOBA HALL

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

Coordinator: 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?
(*Short communication*)
T. L. Cutler, Australia



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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
(*Short communication*)
E.A.M. Kuijper, The Netherlands

Historical twinning rates in Norway (*Short communication*)
T. Nilsen, Norway,

Spot the difference and know the similarity; genetic counseling in monozygotic twins
(*Short communication*)
P.J.G. Zwijnenburg, The Netherlands

Pitx2 positions the embryonic axis and regulates twinning (*Short communication*)
C. Stern, United Kingdom

The genetic landscape of Twinning: a meta-analysis of genome-wide association studies from the
Twinning Gwas Consortium (*Short communication*)
H. Mbarek, The Netherlands

10:30 - 11:00 BREAK

11:00- 12:30 BOLERO HALL

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

Coordinator: J. Harris, Norway

Intro and INTR
J. Harris, Norway

Why biomarkers in twin research? (*Short communication*)
J. M. Craig, Australia

Biospecimens for twin research: what and how? (*Short communication*)
J.M. Craig, Australia

Cotinine as a biomarker for tobacco use (*Short communication*)
J. Kaprio, Finland

Self-reported dietary intake patterns correlate strongly with blood metabolites using a non-
targeted metabolomics approach in a population based twin (*Short communication*)
T. Pallister, United Kingdom



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CODATwins project: understanding macro-environmental variation in genetic and environmental effects (*Short communication*)
J. Kaprio, Finland

11:00- 12:30 CORDOBA HALL

PARALLEL SESSION 10B: 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

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