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**Budapest**  
Hungary

NOVEMBER 2014  
**16<sup>th</sup> | 19<sup>th</sup>**

# TWINS

# 2014

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

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## TWINS 2014

The Joint 3<sup>rd</sup> World Congress on Twin Pregnancy and  
15<sup>th</sup> Congress of the International Society of Twin Studies (ISTS):

*Budapest*

*November 16<sup>th</sup>-19<sup>th</sup>, 2014*

*Danubius Hotel Flamenco*

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NOVEMBER 2014  
16<sup>th</sup> | 19<sup>th</sup>

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

*Sunday, November 16<sup>th</sup>*

10.30 - 13.00 BUDA HALL

**PRECONGRESS COURSE 1: Monitoring during pregnancy and labour**

Coordinator: G.H.A. Visser, Netherlands

Discussants:

The first trimester scan  
*K. Bilardo, Netherlands*

Dichorionic twins; monitoring during pregnancy  
*K. Hack, 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, Netherlands*

13:00 -14:00

**BREAK**

10.30 - 13.00 PARK 1 HALL

**PRECONGRESS COURSE 2: Consensus: Twin management - terminology: a consensus conference**

Coordinator: R. Quintero, USA

Discussants:

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



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10.00 - 16.15 PARK 2 HALL

**PRECONGRESS COURSE 3: Advanced course on epigenetics and twinning**

10:00 - 10.10 Welcome by Professor Tim Spector, United Kingdom

**Session 1**

Coordinator: Jon Mills, United Kingdom

10.10-10.40 Epigenetics the challenges and an example  
*Chris Bell, United Kingdom*

10.40-11.00 Epigenetics in young twins  
*Richard Saffery, Australia*

11.00-11.20 Epigenetics in autoimmune disease  
*Robert Lyle, Norway*

11:20 -11.50 **BREAK - POSTER PRESENTATION**

**Session 2**

Coordinator: Jeff Craig, Australia

11.50-12.10 True concordance of diabetes in twins  
*Kirsi Piestalinen, Finland*

12.10-12.30 Epigenetics in the Hunger Winter Families Study  
*Bas Heijmans, Netherlands*

12.30-12.50 Epigenetics of mental health disease  
*Jon Mills, United Kingdom*

12:50-13.50 **BREAK- POSTER PRESENTATION**

**Session 3- EpiTrain Fellows presentations**

Coordinator: Tim Spector, United Kingdom

13:50-14.05 Cells abnormal growth and DNA damage bypass - under epigenetic control  
*Rute Loureiro, Spain*

14:05-14.20 Epigenomic approach to unravel the weight loss associated markers from a 12 month intervention study  
*Sailalitha Bollepalli, Finland*

14:20-14.35 Allele-specific DNA methylation across brain and blood  
*Sarah Marzi, United Kingdom*



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14:35-14.50 Characterizing DNA methylation heritability across the genome  
*Juan Castillo Fernandez, United Kingdom*

14:50 -15:00 **BREAK**

#### Session 4

Coordinator: Jaako Kaprio, Finland

15:05-15.20 EUrodiscotwin - the use of the discordant twin pair model  
*Tim Spector, United Kingdom*

15:20-16.00 Keynote Lecture - Causal modeling and twins  
*George Davey Smith USA*

16:00-16.15 Closing remarks  
*Tim Spector, United Kingdom*

16:15-16.30 **BREAK**

12.30 - 15.30 PARK 3 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 3 HALL

**ISTS BOARD MEETING**

Coordinator: G. Willemsen, Netherlands

18.00- 21.30 RAVEL 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 17<sup>th</sup>

## 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, 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 our middle twin pregnancies (*Short Communication*)  
*M.M. Gálvez Contreras, Spain*

Conception mode: influence on first trimester maternal serum markers free  $\beta$ -HCG and PAPP-a used for aneuploidy screening in twin pregnancies (*Short Communication*)  
*I.H. Linskens, Netherlands*

8:30 - 9:30 CORDOBA HALL

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

Coordinators: 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  
*Nancy Segal, USA*

Understanding associations among personality, friend support, and psychological distress in adult twins  
*Briana Horwitz, USA*

9:30 - 10:00 RAVEL HALL

### KEYNOTE LECTURE: introduced by I. Blickstein

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, 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*)

*B. Masturzo, Italy*

10:30 - 12:30 CORDOBA HALL

**PARALLEL SESSION 2B: Wellbeing**

Coordinator: M. Bartels, Netherlands

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

*M. Bartels, Netherlands*

Overlap between Wellbeing and Mental Illness throughout the life span

*B. Baselmans, Netherlands*

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

*T. Bates, United Kingdom*



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Genetic and Environmental influences on subjective well-being inventory in Japanese Adults (*Short Communication*)

K. Omura, *Japan*

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

E. Røysamb, *Norway*

Dispositional Life Satisfaction and DSM Axis II Personality Disorders (*Short Communication*)

R.B. Nes, *Norway*

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

R. Tomizawa, *Japan*

Genetic and Environmental Sources of Personality Development and Well-Being in Old Age (*Short Communication*)

C. Kandler, *Germany*

12:30 - 13:30

**BREAK**

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. 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 booster after the administration of a complete course with two doses for fetal lung maturation in twin pregnancies (*Short Communication*)



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*I.R. Monfort Ortiz, Spain*

13:30 - 15:30 CORDOBA HALL

**PARALLEL SESSION 3B: Cancer and Multiple birth**

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

Increased breast cancer risk after a multiple pregnancy in IVF-treated women: a nationwide Dutch cohort study (25 minutes)

*F. van Leeuwen, Netherlands*

Cancer risk in opposite-sexed twins (13 minutes)

*L. Ahrenfeldt, Denmark*

Risk of lymphoma attributable to the genome: a twin study (13 minutes)

*W Cozen, USA*

Australian twin and family studies of mammographic density and breast cancer: insights into early-life risk factors (13 minutes)

*J.L. Hopper, Australia*

20 years of studying melanoma risk factors in Queensland twins (13 minutes)

*N, Martin, Australia*

Methods for studying heritability of cancer diagnosis using twins (13 minutes)

*S. Möller, Denmark*

Heritability and familial risk of cancer in the Nordic Twin Cohorts (13 minutes)

*L.A. Mucci, USA*

Common immune-related exposures/conditions and risk of non-Hodgkin lymphoma: a case-control study in discordant twin pairs. (13 minutes)

*J. Wang, USA*

15:30 - 16:00

**BREAK**

16:00- 18:00 BOLERO HALL

**PARALLEL SESSION 4A: Neonatal issues in raising twins**

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





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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*)

*O. Erez, Israel*

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*

Respiratory outcome of twins

*B. Kramer, NL*

16:00 - 18:00 CORDOBA HALL

**PARALLEL SESSION 4B: Addiction**

Coordinator: J. Vink, Netherlands

The Neuregulin signalling pathway in addictions

*A. Loukola, Finland*

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

*S. Stringer, Netherlands*

The Genetics Basis of Cotinine Levels in Daily Smokers: Results from a genome-wide meta-analysis

*J. Ware, United Kingdom*

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

*H. Mbarek, Netherlands*

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, Netherlands*

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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

**FILM SESSION:**

"Twin Sisters", introduced by Nancy Segal, USA



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Tuesday, November 18<sup>th</sup>

## THROUGHOUT THE DAY - POSTER SESSION 2

8:30 - 9:00 BOLERO HALL

**KEYNOTE LECTURE:** Introduced by Tim Spector, United Kingdom  
The latest development in twin studies  
*D. Boomsma, Netherlands*

9:00 - 10:00 BOLERO HALL

### PARALLEL SESSION 5A: Twin Studies in Europe

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

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

- 9.00 - 10.00 Twin studies in Central and Eastern Europe  
Twin studies and registries in Central Eastern Europe  
*A.D. Tarnoki, Hungary*
- Twin studies in Hungary  
*D. L. Tarnoki, Hungary*
- The heritability of coronary artery anatomy  
*P. Maurovich-Horvat, Hungary*
- Inheritance of left ventricular deformation  
*A. Kovács, Hungary*
- Twinship as a resource  
*R. Hegedűs, Hungary*
- The Hungarian twin registry: present and future  
*L. Littvay, Hungary*

8:30 - 10:00 PARK HALL

### ICOMBO Multiple Birth Organization BUSINESS meeting

Coordinators: M. Rankin, Australia

10:00 - 10:30

**BREAK**

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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. Yogev, Israel*

Twin Pregnancy: double risk for metabolic syndrome  
*L. Voto, Argentina*

Placental anomalies in twins  
*C. Hubinont, Belgium*

IUGR in multiples  
*E. Gratacos, Spain*

Short Communication: Twin chorionicity and the risk of preeclampsia  
*I. Szymusik, Poland*

Short Communication: Perinatal outcomes of selective IUGR and non-selective IUGR in twin pregnancy  
*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*

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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

**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*

Twin pregnancy delivery as a window for future health  
*B. Arabin, Germany*



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13:30- 15:30 CORDOBA HALL

**PARALLEL SESSION 7B: Epigenetics and Telomere Studies**

Coordinators: Jennifer 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. Bijmens, Belgium*

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

*J. Hjelmborg, Denmark*

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

*E. Strachan, USA*

13:30- 15:30 PARK HALL

**PARALLEL SESSION 7C: ICOMBO symposium**

Coordinator: M. Rankin, Australia

Family care nursing in the multiple birth families - evidence based strengthening is needed (15 minutes)

*K. Heinonen, Finland*

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

*K. Reed, United Kingdom (20 minutes)*

Post-Partum Mood Disorder (Post Natal Depression) (20 minutes)

*S. Griffith, USA*

The first quintuplets in Czech Republic (15 minutes)

*K. Vitkova Rulikova, Czech Republic*



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Understanding the emotional challenges of a twin pregnancy: how it impacts parenting and impedes individuality (20 minutes)

*J. Friedman, USA*

Postnatal depression symptomatology and breastfeeding (15 minutes)

*L. Colodro-Conde, Spain*

The multiqol study: a cross-sectional community survey of quality of life concerns of parents of young multiple birth children in Australia (15 minutes)

*C. Bolch, Australia*

15:30 - 16:00

**BREAK**

16:00 - 17:30 BOLERO HALL

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

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

Twin Mythology in the American Continent (*Short Communication*)

*D. Czukerberg, USA*

The cardiovascular malformations

*J. Carvalho, United Kingdom*

The placenta

*L. Lewi, Belgium*

Management of discordant anomalous twins

*E. Kontopoulos, 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**

Coordinators: 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, 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 PLENARY 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 PARK HALL

**ISTS General Meeting**

Chairperson: T. Spector, United Kingdom

Secretary: G. Willemsen, Netherlands

20:00 - 23.00 **SOCIAL AND FACULTY DINNER**

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## Wednesday, November 19<sup>th</sup>

8:30 - 10:30 BOLERO HALL

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

Coordinators: R. Quintero, USA - D. Oepkes, 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, Netherlands*

TAPS: how to diagnose it, how to prevent it?  
*F. Slaghekke, 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*

Acute TTTS in labour  
*D. Skupski, USA*

8:30 - 10:30 CORDOBA HALL

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

Coordinator: N. Lambalk, Netherlands, C. Derom, Belgium

Biology of MZ twinning  
*B. Reversade, Singapore*

How chimaeric are dizygotic monochorionic twins?  
*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  
*C. Derom, Belgium*



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Mid-pregnancy, perinatal and neonatal reproductive endocrinology in twins and singleton controls.  
*E.A.M. Kuijper, 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, Netherlands*

Pitx2 positions the embryonic axis and regulates twinning  
*A. Torlopp, United Kingdom*

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

Using Biomarkers in Population-based Studies  
*T. Seeman, USA*

Why biomarkers in twin research?  
*W. Cozen, USA*

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  
*K. Silventoinen, Finland*

11:00- 12:30 CORDOBA HALL

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**PARALLEL SESSION 10B: Monochorionic twins (2): other issues**

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

Monochorionic twins behaviour  
*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 RAVEL HALL

**CLOSING LECTURE** introduced by T. Spector, United Kingdom

The Microbiome  
*D. Ehrlich, France*

13:00 - 13:40 RAVEL HALL

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

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