43rd annual Meeting of the Behavior Genetics Association

June 28 – July 2, 2013
Marseille European Capital of Culture 2013
Behavior Genetics Association

The purpose of the Behavior Genetics Association is to promote the scientific study of the interrelationship of genetic mechanisms and behavior, both human and animal; to encourage and aid the education and training of research workers in the field of behavior genetics; and to aid in the dissemination and interpretation to the general public of knowledge concerning the interrelationship of genetics and behavior, and its implications for health and human development and education.

For additional information about the Behavior Genetics Association, please contact the Secretary, Valerie Knopik (valerie_knopik@brown.edu) or visit the website (www.bga.org).

EXECUTIVE COMMITTEE

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<th>Position</th>
<th>2012-2013</th>
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<td>Tim Bates</td>
<td>Matthew Keller</td>
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2013 MEETING INFORMATION

The 43rd Annual Meeting of the Behavior Genetics Association is being held at Campus Saint Charles Aix Marseille University. Scientific sessions will occur throughout the day June 29 – July 2.

The Opening Reception will be in the Garden in front of Amphi Mathématiques Physique (Building 9) from 18:00 to 21:00 on Friday, June 28.

The Conference Banquet and Awards Ceremony will be held Monday, July 1 at Fort Ganteaume, beginning with cocktails at 18:30.

A Festschrift for Professor Norman Henderson will be held on Tuesday, July 2 in Amphi Mathématiques Physique.

Local Hosts: Michèle Carlier and Pierre Roubertoux

We thank the following generous contributors to the 2013 student bursaries:

Anonymous
Sally Manson Anderson
Timothy Bates
Norman Henderson
Kelly Klump
Valerie Knopik

Jenae Neiderhiser
Michael Pogue-Geile
Chandra Reynolds
Michael Stallings
James R. Wilson
# Meeting Overview

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<th>Date</th>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td><strong>FRIDAY, June 28</strong></td>
<td>18:00</td>
<td>Reception</td>
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<td>Academic Achievement, Cognitive Develop. Neuro-Endophenotypes</td>
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<td>Statistical &amp; Analytical Methods</td>
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<td>14:45</td>
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<td>International Network of Twin Registries</td>
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<td>17:15</td>
<td>Tour of Old Marseille (registration closed)</td>
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<td><strong>SATURDAY, June 29</strong></td>
<td>9:00</td>
<td>Opening &amp; Plenary Address – Nicolas Lévy</td>
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<td>Inattention, Disinhibition &amp; ADHD</td>
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<td><strong>SUNDAY, June 30</strong></td>
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<td>Marriage, Family, and Well-Being</td>
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<td>Dobzhansky Award Lecture: Matt McGue</td>
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<td>11:40</td>
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<td>Cognition and Educational Attainment</td>
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<td>Genes and Autistic Spectrum Disorders Sympos. Substance Use Initiation &amp; Disorders</td>
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<td>Banquet, Presidential Address &amp; Awards</td>
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The Behavior Genetics Association gratefully acknowledges the contributions of members of the Executive Committee

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<td>Ronald Wilson, Sandra Scarr, Steven Vandenberg, Robert Plomin, Thomas Bouchard, JHF van Abeelen, Richard Rose, Vicki Pollock</td>
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<td>J.P. Scott, Gerald McClearn, John L. Fuller, John. Defries, John Loehlin, Sandra Scarr, Daniel Hanson</td>
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Note: Members of the BGA Executive Committee were identified from archival records for several of the early years. If you see an error, please notify the BGA Secretary, Valerie Knopik (valerie_knopik@brown.edu).
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<th>Thompson</th>
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<td>David Fulker</td>
<td>Soo Hyun Rhee &amp; Stephen Petrill</td>
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<td>Brian D’Onofrio &amp; Nathan Gillespie</td>
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<td>Tom Bouchard</td>
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<td>Meike Bartels &amp; Michael Galsworthy</td>
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<td>Sandra Scarr</td>
<td>Jennifer Lau</td>
<td>Nathan Gillespie et al.</td>
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<td>Nick Martin</td>
<td>Heather Gelhorn</td>
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<td>Richard Rose</td>
<td>Jane Mendle &amp; Paige Harden</td>
<td>Carol Prescott et al.</td>
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<td>John Hewitt</td>
<td>Marleen de Moor &amp; Kees Jan Kan</td>
<td>Danielle Dick et al.</td>
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<td>David Blizard</td>
<td>Thomas Frisell</td>
<td>Douglas Matthews et al.</td>
<td>Alexandra Burt</td>
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<td>Andrew Heath</td>
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<td>Jonas Olofsson et al.</td>
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<td>Matt McGue</td>
<td>Roseann Peterson &amp; Claire Coyne</td>
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<td>Kenneth Kendler</td>
<td>Scott Vrieze</td>
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<td>Th. Dobzhansky</td>
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<td>1973</td>
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<td>Y-M Hur</td>
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<td>2011</td>
<td>V Knopik</td>
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<td>2012</td>
<td>T Bates</td>
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### Friday, June 28

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<td>16:00-19:00</td>
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<td>Garden in front of Amphi Mathématiques Physique</td>
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<td>16:00-17:50</td>
<td>Executive Committee Meeting I</td>
<td>Building 5, DOSI room, Floor 7, staircase b</td>
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<tr>
<td>18:00-21:00</td>
<td>Opening Reception</td>
<td>Garden in front of Amphi Mathématiques Physique</td>
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### Saturday, June 29

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<td>8:00 – 17:00</td>
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<td>Garden in front of Amphi Mathématiques Physique</td>
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<td>9:00-9:15</td>
<td>WELCOME to BGA 2013 and to Marseille</td>
<td>Amphi Sciences Naturelles</td>
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<td>Eric Turkheimer, BGA President</td>
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<td>Michèle Carlier, Local Host</td>
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<td>Pascal Huguet, Director de Recherce, CNRS</td>
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<td>9:15 - 10:15</td>
<td>Plenary Address: Nicolas Lévy</td>
<td>Amphi Sciences Naturelles</td>
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<td>Introduction: Pierre Roubertoux</td>
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<td></td>
<td><em>Ten years of translational research in Prelamin A defective Proferoid disorders; Lessons and perspectives for rare diseases</em></td>
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<td>Nicolas Lévy, M.D., Ph.D. heads the Department of Medical Genetics at the Children's Hospital La Timone in Marseille, and the Laboratory of &quot;Medical Genetics, Functional Genomics&quot; at Institute of Health and Medical Research (Inserm). He created and now chairs the &quot;Foundation for Rare Diseases&quot;.</td>
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<td>Professor Lévy is internationally recognized for his work implicating the LMNA and ZMPSTE24 genes in the pathogenesis of several disorders, including Charcot-Marie-Tooth, Hutchison-Gilford Progeria Syndrome and muscular dystrophies. This work led to the recognition of the common mechanisms among these disorders and revision of their nosology. He will speak about his research on Proferoid disorders, which ranges from transgenic mice models to clinical studies, and the implications for identifying treatments and genetic mechanisms in other diseases.</td>
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<td>10:15 - 10:35</td>
<td>Coffee / Tea Break</td>
<td>Garden in front of Amphi Mathématiques Physique</td>
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This symposium brings together presentations from four different labs on three continents to examine behavioral and environmental factors that provide context for understanding academic achievement and cognitive development. We will begin with data from the Florida Twin Project on Reading, Behavior, and Environment examining behavior problems and a risk index of home environment as they relate to reading achievement in elementary and middle school (Taylor et al.). Next, macro-environmental context is examined by investigators using data from different countries showing the effects of standardization within country on reading in first grade (Byrne et al.). Researchers using data from the TEDS project will show how differences among MZ twins in reading achievement affect development of cognitive abilities (Ritchie et al.). Finally, data are presented from a new study of “tiny” twins examining family contexts for cognitive development (Tucker-Drob et al.).

| 10:35  | Behavior problems and academic support at home as contexts for reading achievement | Jeanette Taylor; Amy Mikolajewski; Sara Hart; Christopher Schatschneider |
| 10:55  | Subsample standardization in twin studies of academic achievement | Brian Byrne |
| 11:15  | Influences of reading ability on the development of intelligence: Evidence from a longitudinal monozygotic twin-discordant design (T) | Stuart Ritchie; Timothy Bates; Robert Plomin |
| 11:35  | Gene-Environment correlation in cognitive development during the first 5 years of life: First results from the Texas Tiny Twin Project | Elliot Tucker-Drob; Amanda Cheung; Kathryn Harden |
| 11:50  | Discussion – Timothy Bates |

Paper Session: Neuro-Endophenotypes

<p>| 10:35-12:05 | Chair: William Kremen |
| 10:35       | Inverse genetic relationship of regional cortical thickness and surface area with general cognitive ability | William Kremen; Eero Vuoksimaa; Chi-Hua Chen; Matthew Panizzon; Michael Neale; Carol Franz; Michael Lyons |
| 10:50       | Human cognitive ability is influenced by genetic variation in components of postsynaptic signaling complexes assembled by MAGUK proteins (T) | William Hill; Gail Davies; Louie van de Lagemaat; Andrea Christoforou; Carla Fernandes; David Liewald; Mike Croning; Antony Payton; Leone Craig; Lawrence Whalley; Michael Horan; William Ollier; Narelle Hansell; Margaret Wright; Nick G. Martin; Grant Montgomery; Vidar Steen; Stephanie Le Hellard; Thomas Espeseth; Astri Lundervold; Ivar Reinvang; John Starr; Neil Pendleton; Seth Grant; Timothy Bates; Ian Deary |
| 11:05       | EEG spatial synchronization in twins | Elena Vorobyeva; Pavel Ermakov |
| 11:20       | Frequency specificity in the genetic relation between EEG oscillation power and brain volume | Dirk Smit; Eco de Geus; Hugo Schnack; Hilleke Hulshoff Pol; Dorret Boomsma |
| 11:35       | Subcortical brain volume change during adolescence (T) | Suzanne Swagerman; Rachel Brouwer; Eco de Geus; Hilleke Hulshoff Pol; Dorret Boomsma |
| 11:50       | ENIGMA2: Genome-wide scans of subcortical brain volumes in 16,125 subjects from 28 cohorts worldwide | Sarah Medland (for the ENIGMA consortium) |</p>
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<th>Time</th>
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<th>Speaker(s)</th>
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<td>Lunch (Provided)</td>
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<td>13:15-14:45</td>
<td><strong>Paper Session: New Developments in Statistical &amp; Analytical Methods</strong></td>
<td><strong>Chair:</strong> Conor Dolan</td>
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<td>13:15</td>
<td>Genetic simplex models including GE_covariance: identification, power, and consequences of misspecification in the classical twin design</td>
<td>Conor Dolan</td>
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<td>13:30</td>
<td>Estimating variance explained by all variants in meta-analyses with heterogeneity (T)</td>
<td>Raymond Walters; Meike Bartels; Gitta Lubke</td>
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<td>13:45</td>
<td>GWAS of cannabis use in a family-based sample from the Netherlands Twin Register: A comparison of two analytic strategies (T)</td>
<td>Camelia Minica; Conor Dolan; Jouke Jan Hottenga; Dorret Boomsma; Jacqueline Vink</td>
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<td>14:00</td>
<td>Simulating genomic data under gene-environment interplay</td>
<td>Brad Verhulst; Michael Neale; Lindon Eaves</td>
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<td>14:15</td>
<td>Statistical pitfalls in the genetic analysis of multiple disorders in psychiatric genetics</td>
<td>Michael Miller</td>
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<td>14:30</td>
<td>Multivariate gene-based genome-wide association analysis</td>
<td>Sophie van der Sluis; Danielle Posthuma; Conor Dolan*</td>
<td>*presenter</td>
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<tr>
<td>13:15-14:45</td>
<td><strong>Paper Session: Inattention, Disinhibition &amp; ADHD</strong></td>
<td><strong>Chair:</strong> Irwin Waldman</td>
<td>Amphi Mathématiques Physique</td>
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<td>13:15</td>
<td>Gene-based analyses of attention deficit hyperactivity disorder (ADHD) GWAS data</td>
<td>Irwin Waldman</td>
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<td>13:30</td>
<td>Classification of varying genetic expression and structure within adolescent monozygotic and dizygotic twins discordant for high and low attention and activity</td>
<td>Jane Ebejer; Sarah Medland; Nick G. Martin; Margaret Wright; Grant Montgomery; Joseph Powell; Peter Visscher; David Duffy</td>
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</tr>
<tr>
<td>13:45</td>
<td>Meta-analysis of genome-wide association studies on ADHD: A dimensional approach (T)</td>
<td>Maria Groen-Blokhuis; Andrew Whitehouse; Henning Tiemeier; Irene Pappa; Astanand Jugessur; Matthew McGue; Anke Hinney; Beate St. Pourcain; Carla Tiesler; Maciej Trzaskowski; Mariona Bustamante; Christel Middeldorp; Dorret Boomsma; EAGLE consortium</td>
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<tr>
<td>14:00</td>
<td>The heritability of clinically diagnosed Attention-Deficit/Hyperactivity Disorder in children and adults</td>
<td>Henrik Larsson; Zheng Chang; Brian D’Onofrio; Paul Lichtenstein</td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>Maternal age at childbirth and risk for ADHD in offspring (T)</td>
<td>Zheng Chang; Paul Lichtenstein; Niklas Långström; Brian D’Onofrio; Henrik Larsson</td>
<td></td>
</tr>
<tr>
<td>14:30</td>
<td>Genetic effects and maternal smoking during pregnancy on behavioral disinhibition: A population-based cohort study</td>
<td>Taylor Smith; Rohan Palmer; Valerie Knopik</td>
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</tr>
</tbody>
</table>
Large samples of twin data are essential for research aimed at elucidating factors underlying normal and disease development and to accelerate genomic and post-genomic discoveries. Within the International Society of Twin Studies we have established a working group to promote an International Network of Twin Registries (INTR). The main purpose of the INTR is to foster scientific collaborations and promote twin research through the development of sustainable and shared research resources. Harmonization and the development of tools that facilitate data sharing and the co-analysis of data are central to this endeavor and some of this is already ongoing in twin-study collaborations. In order to build the INTR it is important to build upon the experiences and solutions of these projects. This symposium will provide an overview of the INTR goals and activities to date. The presentations feature harmonization approaches, findings and methods for analyzing data across multiple twin cohorts that are being undertaken in several projects. An open discussion will provide opportunities to share ideas for further development of the INTR.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>15:05</td>
<td><strong>Introduction</strong></td>
<td>Jennifer Harris</td>
</tr>
<tr>
<td>15:15</td>
<td><strong>Summary from 2nd INTR Consortium meeting</strong></td>
<td>Joohon Sung</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Harmonizing measures of depressive symptoms: the IGEMS consortium</strong></td>
<td>Margaret Gatz</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Can we estimate the same personality traits if different inventories have been assessed in multiple cohorts? An application of Item Response Theory in 28 cohorts</strong></td>
<td>Marleen de Moor; Stéphanie van den Berg; Dorret Boomsma</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>CODATwins consortium: A new project for understanding macro-environmental variation in genetic and environmental effects</strong></td>
<td>Karri Silventoinen; Jaakko Kaprio</td>
</tr>
<tr>
<td>16:15</td>
<td><strong>DataSHIELD as a way to co-analyze data without physically sharing data: opportunities for twin analyses with OpenMx</strong></td>
<td>Julia Isaeva; Jennifer Harris</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>The Nordic Twin Cancer (NorTwinCan) project</strong></td>
<td>Jaakko Kaprio; Jennifer Harris</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>Open Discussion</strong></td>
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<tr>
<td>Time</td>
<td>Session Title</td>
<td>Speaker(s)</td>
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<tr>
<td>15:05</td>
<td>Manipulation tactics and basic psychological needs</td>
<td>Ana Butkovic; Tena Vukasovic; Denis Bratko</td>
</tr>
<tr>
<td>15:20</td>
<td>The comparative study of culture and conformity in humans and non-human animals</td>
<td>Nicolas Claidiere</td>
</tr>
<tr>
<td>15:35</td>
<td>Their genes are your environment: Social genetics of breeding behavior in birds</td>
<td>Mark Adams; Matthew Robinson; Ben Hatchwell</td>
</tr>
<tr>
<td>15:50</td>
<td>Etiology of correlations between subjective impressions of faces and measures of personality and IQ (T)</td>
<td>Theresa Adams; Dorian Mitchem; Matthew Keller</td>
</tr>
<tr>
<td>16:05</td>
<td>Partisan attachment and political orientations</td>
<td>Edward Bell; Christian Kandler</td>
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<tr>
<td>16:20</td>
<td>The genetic sources of core political attitudes and the role of personality traits: A cross-cultural twin study</td>
<td>Christian Kandler; Edward Bell; Chizuru Shikishima; Shinji Yamagata; Rainer Riemann</td>
</tr>
</tbody>
</table>

**17:15**  
Tour of Old Marseille  
(registration closed)
### Symposium: Genetically-Informed Studies of Marriage, Family, and Well-Being

**Organizers:** Christopher Beam & Briana Horwitz  
**Discussant:** Erica Spotts

This symposium examines how genes and environments work together to explain the health benefits of marriage. The first presentation, by Beam et al., examines whether the genetic and environmental influences on life satisfaction, psychological well-being, and emotional well-being depend on differences in marital satisfaction. The second presentation tests the hypothesis that marriage buffers against the genetic effects of perceived stress on depressive symptoms. Third, Johnson et al. combine twin methodology with a longitudinal design to examine the prospective effects of parent relationship quality on offspring psychopathology. The fourth presentation (Horwitz et al.) uses a sample of twins and their spouses to examine assortative mating effects, including whether phenotypic preference and social homogamy explain partner similarity for traits reflecting partner bonding behaviors.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 9:00       | Marital status moderation of the genetic covariance between stress and depression (T)  
Christopher Beam; Diana Dinescu; Robert Emery; Eric Strachan; Eric Turkheimer |
| 9:15       | Marital satisfaction and well-being: Moderation of genetic and environmental influences differs depending on type of well-being  
Susan South |
| 9:30       | Parent relationship quality and offspring psychopathology (T)  
Daniel Johnson; Soo Rhee; Mark Whisman; Michael Stallings; Robin Corley; John Hewitt |
| 9:45       | Do partners assort for traits reflecting pair-bonding behaviors?  
Briana Horwitz; Chandra Reynolds; Erica Spotts; Jody Ganiban; Paul Lichtenstien; David Reiss; Jenae Neiderhiser |
| 10:00      | Discussion – Erica Spotts |

### Paper Session: Anxiety and Affective Disorders

**Chair:** Nick Martin

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 9:00       | Trying to crack the molecular genetics of depression  
Nick Martin |
| 9:15       | Genetic risk scores for depression: Comparison of gene, pathway and genome-wide approaches  
Jaime Derringer; Matthew McQueen; John Hewitt |
| 9:30       | Parental bipolar disorder and adverse outcomes in offspring: Exploring mechanisms using a cousin-comparison design (T)  
Amir Sariaslan; Mikael Landen; Brian D’Onofrio; Paul Lichtenstein |
| 9:45       | Anxiety, depression and sick leave due to various diagnoses: A population-based study of young adult Norwegian twins  
Fartein Ask Torvik; Line Gjerde; Gun Peggy Knudsen; Ted Reichborn-Kjennerud; Espen Røysamb; Nikolai Czajkowski; Kristian Tambs; Ragnhild Ørstavik |
| 10:00      | Examining the intergenerational transmission of anxiety in a genetically informative design: A children-of-twins study  
Tom McAdams; Fruhling Rijsijk; Jurgita Narusyte; Jody Ganiban; Erica Spotts; David Reiss; Jenae Neiderhiser; Paul Lichtenstein; Thalia Eley |
| 10:15-10:35| Coffee / Tea Break |
### Dobzhansky Award Lecture: Matt McGue

**General cognitive ability and social inequality: A behavioral genetic perspective**

Dr. McGue is Professor of Psychology, University of Minnesota. In 2011 he received the Dobzhansky Award, the highest honor given by the Behavior Genetics Association.

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chair</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:35</td>
<td><strong>Dobzhansky Award Lecture</strong></td>
<td></td>
<td>Amphi Sciences Naturelles</td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Paper Session: Stress, Resilience and Well-Being</strong></td>
<td>Meike Bartels</td>
<td>Amphi Sciences Naturelles</td>
</tr>
<tr>
<td>11:40</td>
<td>Early childhood adversity and adolescent violence: A dual methods approach to G x E interactions</td>
<td>Jane Mendle; Rebecca Ryan; Marie Carlson; Sarah Moore; Kathryn Harden</td>
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<tr>
<td>11:55</td>
<td>Stressful family environments during infancy and child sleep trajectories from 18 months to 6 years: Associations with biological parent sleep problems and internalizing</td>
<td>Kimberly Rhoades; Leslie Leve; Jenae Neiderhiser; Gordon Harold; Daniel Shaw; Misaki Natsuaki; Jody Ganiban; David Reiss</td>
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<tr>
<td>12:10</td>
<td>Offspring death and subsequent psychiatric morbidity in bereaved parents: addressing mechanisms in a total population cohort (T)</td>
<td>Therese Ljung; Sven Sandin; Niklas Långström; Bo Runeson; Paul Lichtenstein; Henrik Larsson</td>
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<tr>
<td>12:25</td>
<td>Sources of covariation between marital status and depressive symptoms across the lifespan: A genetically informative study of Swedish twins (T)</td>
<td>Erin Horn; Eric Turkheimer; Robert Emery</td>
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<tr>
<td>12:40</td>
<td>A longitudinal investigation of psychiatric resilience in twins</td>
<td>Ananda Amstadter</td>
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<tr>
<td>12:55</td>
<td>Genome-wide association meta-analyses for happiness, satisfaction with life and overall well-being</td>
<td>Meike Bartels; Aysu Okbay; Erasmus; Jaime Derringer; Jan-Emmanuel De Neve; Cornelius Rietveld; Camelia Minica; Raymond Walters; Bob Krueger; David Cesarini; Phillip Koellinger; Daniel Benjamin</td>
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<tr>
<td>11:45</td>
<td><strong>Paper Session: Outcomes of Tobacco and Cannabis Exposure: Consequences or Correlates?</strong></td>
<td>Valerie Knopik</td>
<td>Amphi Mathématiques Physique</td>
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<tr>
<td>11:45</td>
<td>A longitudinal investigation of cannabis use in adolescence and subsequent cognitive decline</td>
<td>Daniel Irons; Lisa Legrand; William Iacono; Matt McGue</td>
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<tr>
<td>12:00</td>
<td>Is the relationship between cannabis use and educational attainment causal or due to common liability?</td>
<td>Karen Verweij; Michael Lynskey; Arpana Agrawal; Nick Martin; Anja Huizink</td>
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<tr>
<td>12:15</td>
<td>Smoking during adolescence as a risk factor for attention problems in adulthood (T)</td>
<td>Jorien Treur; Gonneke Willemsen; Meike Bartels; Catherina van Beijsterveldt; Dorret Boomsma; Jacqueline Vink</td>
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<tr>
<td>12:30</td>
<td>Prenatal active or passive tobacco smoke exposure and the risk of child externalising problems: Evidence from a genetically-sensitive research design</td>
<td>Darya Gayssina; Jenae Neiderhiser*; Leslie Leve; David Reiss; Jody Ganiban; Daniel Shaw; Misaki Natsuaki; Gordon Harold</td>
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<tr>
<td>12:45</td>
<td>Genes, maternal smoking during pregnancy and child internalizing problems: An investigation using ALSPAC</td>
<td>Valerie Knopik; Taylor Smith; Rohan Palmer</td>
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## SUNDAY, JUNE 30  con’t

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>13:10-14:10</td>
<td><strong>Lunch (Provided)</strong></td>
<td>Garden</td>
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<tr>
<td>14:10 - 15:40</td>
<td><strong>Paper Session: Advances in Measurement &amp; Methodology</strong>&lt;br&gt;<strong>Chair:</strong> Dorret Boomsma</td>
<td>Amphi Sciences Naturelles</td>
</tr>
<tr>
<td>14:10</td>
<td>Linking PALGA and NTR: Information on chorionicity in multiples from the Netherlands Twin Register&lt;br&gt;Dorret Boomsma; Tina Glasner; Minni McMaster; Lucy Overbeek; Toos van Beijsterveldt; Jacqueline Vink</td>
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<tr>
<td>14:25</td>
<td><strong>NLSY Kinship Links:</strong> Creating biometrical design structures from cross-generational data&lt;br&gt;William Beasley; David Bard; Michael Hunter; Kelly Meredith; Joseph Rodgers</td>
<td></td>
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<td>14:40</td>
<td>Genetic factor scoring from common and independent pathway models&lt;br&gt;Ryne Estabrook; Michael Neale</td>
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<tr>
<td>14:55</td>
<td><strong>New developments in OpenMx:</strong> Applications to substance use and abuse&lt;br&gt;Michael Neale; Ryne Estabrook; Nathan Gillespie; Elisabeth Hahn; Steven Aggen</td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td><strong>Weighing information from item data in GWAS meta-analyses</strong>&lt;br&gt;Stéphanie van den Berg; Marleen de Moor; Inga Schwabe; Jean-Paul Fox; Cees Glas</td>
<td></td>
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<tr>
<td>15:25</td>
<td>Assessing genetic influences on human behavior: An analytical and empirical investigation of informant and context dependency of heritability&lt;br&gt;Kees-Jan Kan; Tina Glasner; Toos van Beijsterveldt; Meike Bartels; Dorret Boomsma</td>
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<tr>
<td>14:10 - 15:40</td>
<td><strong>Paper Session: Cognitive Development and Autism Spectrum</strong>&lt;br&gt;<strong>Chair:</strong> Soo Rhee</td>
<td>Amphi Mathématiques Physique</td>
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<tr>
<td>14:10</td>
<td>The longitudinal association between temperament in toddlerhood and executive functions in late adolescence (T)&lt;br&gt;Ashley Smith; Soo Rhee; Naomi Friedman; Robin Corley; John Hewitt; JoAnn Robinson</td>
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<tr>
<td>14:25</td>
<td>Biometric nonlinear growth curves for cognitive development among NLSY children and youth&lt;br&gt;David Bard; Michael Hunter; William Beasley; Joseph Rodgers; Kelly Meredith</td>
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</tr>
<tr>
<td>14:40</td>
<td>Stability in profiles of infant temperament: Associations with reading achievement and specific genetic and environmental influences (T)&lt;br&gt;Charles Beekman; Jenae Neiderhiser; Misaki Natsuaki; David Reiss; Daniel Shaw; Jody Ganiban; Leslie Leve</td>
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<tr>
<td>14:55</td>
<td>Language and autistic traits are aetiologically distinct: Evidence from a community-based twin study&lt;br&gt;Mark Taylor; Tony Charman; Elise Robinson; Marianna Hayiou-Thomas; Philip Dale; Angelica Ronald</td>
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<tr>
<td>15:10</td>
<td>Different neurodevelopmental symptoms have a common genetic etiology&lt;br&gt;Paul Lichtenstein; Erik Pettersson</td>
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<tr>
<td>15:25</td>
<td>Common genetic influences identify cognitive and behavioral networks in the Philadelphia Neurodevelopmental Cohort&lt;br&gt;Elise Robinson; Mark Daly; Andrew Kirby; Kosha Ruparel; Haijun Qiu; Thomas Lehner; Ruben Gur; Hakon Hakonarson; Raquel Gur</td>
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<tr>
<td>Time</td>
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<tr>
<td>15:45 -</td>
<td>Paper Session: Externalizing Psychopathology in Childhood &amp; Adolescence</td>
<td>Paul Lichtenstein</td>
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<tr>
<td>17:15</td>
<td><strong>Gene-environment interplay between parent-child relationship quality and externalizing disorders in adolescence and young adulthood</strong></td>
<td>Diana Samek; Brian Hicks; Margaret Keyes; Jennifer Bailey; Matt McGue; William Iacono</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>ADHD, externalizing behavior and substance use: a cross-lagged model using multiple phenotypes, time-points, and measurements</strong> (T)</td>
<td>Ralf Kuja-Halkola; Henrik Larsson; Brian D’Onofrio; Niklas Långström; Paul Lichtenstein</td>
</tr>
<tr>
<td>16:15</td>
<td><strong>The etiology of risky sexual behavior</strong> (T)</td>
<td>Brooke Huibregts; Robin Corley; John Hewitt; Christian Hopfer; Michael Stallings</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>A longitudinal twin study of physical aggression in infancy: Evidence for a developmentally dynamic genome</strong></td>
<td>Eric Lacourse; Mara Brendgen; Amelie Petitclerc; Alain Girard; Stéphanie Paquin; Isabelle Ouellet-Morin</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>Cohort and sex effects on adolescent problem behaviors and their heritability</strong></td>
<td>Päivi Merjonen; Meike Bartels; Dorret Boomsma</td>
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<tr>
<td>17:00</td>
<td><strong>The genetic etiology of attentional control and anxiety in adolescence</strong></td>
<td>Jeffrey Gagne; Deirdre O’Sullivan; Nicole Schmidt; Catherine Spann; Hill Goldsmith</td>
</tr>
<tr>
<td>15:45 -</td>
<td>Paper Session: Aging, Health and Exercise</td>
<td>Deborah Finkel</td>
</tr>
<tr>
<td>17:30</td>
<td><strong>Gender differences in genetic and environmental influences on trajectories of change in motor functioning in late adulthood</strong></td>
<td>Deborah Finkel; Marie Ernsth-Bravell</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Estimating the contribution of the functional IL6R polymorphism rs2228145, eQTLs and other genome-wide SNPs to the heritability of serum sIL-6R levels</strong> (T)</td>
<td>Jenny van Dongen; Rick Jansen; Dirk Smit; Jouke-Jan Hottenga; Hamdi Mbarek; Gonneke Willemsen; Cornelis Kluft; Brenda Penninx; Manuel Ferreira; Dorret Boomsma; Eco de Geus</td>
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<tr>
<td>16:15</td>
<td><strong>Confirmatory genetic factor analysis of the metabolic syndrome in the Vietnam Era Twin Study of Aging</strong></td>
<td>Jeanne McCaffery; Matthew Panizzon; Carol Franz; Kelly Spoon; Richard Hauger; Megan Sailors; William Kremen; Michael Lyons</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>The longitudinal relationship between leisure time exercise behavior and body mass index in 7 to 18-year old twins</strong></td>
<td>Charlotte Huppertz; Meike Bartels; Catherina van Beijsterveldt; Gonneke Willemsen; Dorret Boomsma; Jim Hudziak; Eco de Geus</td>
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<tr>
<td>17:00</td>
<td><strong>Sex differences in the genetic covariation between height and weight</strong></td>
<td>Julia Isaeva; Jennifer Harris</td>
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<tr>
<td>17:15</td>
<td><strong>Sharing genetic variance between ethnicities for height and BMI? A study of the factors influencing SNP-correlations</strong> (T)</td>
<td>Teresa de Candia; Matthew Keller</td>
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</tbody>
</table>
### Poster Session & Reception

**Presenters of:**

*odd-numbered* posters should be at their posters 17:30-19:00;  
*even-numbered* posters should be at their posters 18:30-20:00.

“T” indicates presenter is eligible for Thompson Award (based on self-nomination); “R” indicates eligible for Rowe Poster Award (all student members presenting posters are eligible).

*Posters should be put up by 17:15 and removed after the session. Maximum size is 1 meter wide x 2 meters high, Velcro dots provided.*

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<tr>
<th><strong>17:30-20:00</strong></th>
<th><strong>Poster Session &amp; Reception</strong></th>
<th><strong>Conference Hall, Building 3</strong></th>
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<tbody>
<tr>
<td><strong>1</strong></td>
<td>Psychological adaptation: Molecular genetic analysis</td>
<td>Margarita Alfimova; Yulia Chertkova; Marina Egorova; Oxana Parshikova; Svetlana Pyankova</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Phenotypic and genetic relationships among short-term memory, working memory, and intelligence. (R)</td>
<td>Lee Altamirano; John Hewitt; Naomi Friedman</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Long-term genetic effects of working memory on cognition and personality in adolescence and adulthood: A 14-year longitudinal study of twins.</td>
<td>Juko Ando; Chizuru Shikishima; Nobuhiko Kijima; Kai Hiraishi; Yusuke Takahashi; Shinji Yamagata</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>Predicting individual differences in executive functions with a genetic risk score for behavioral disinhibition (T, R)</td>
<td>Chelsie Benca; Naomi Friedman; Jaime Derringer; Robin Corley; Susan Young; John Hewitt</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>Analysis of oxytocin receptor gene as a putative component of social behavior in family dogs</td>
<td>Melinda Bence; Zsuzsanna Elek; Anna Kis; Enikő Kubinyi; Gabriella Lakatos; Ádám Miklósí; Enikő Pergel; Zsolt Rónai</td>
</tr>
<tr>
<td><strong>6</strong></td>
<td>Investigating the reaction range of children’s cognitive ability</td>
<td>Angela Brant; Jenae Neiderhiser; David Reiss; Misaki Natsuaki; Daniel Shaw; Leslie Leve</td>
</tr>
<tr>
<td><strong>7</strong></td>
<td>Subclinical psychotic experiences in the general population: Associations with stress and genetic predisposition</td>
<td>Dagmar Bruenig; Melanie White; Joanne Voisey</td>
</tr>
<tr>
<td><strong>8</strong></td>
<td>Shifting genetic and environmental influences on religiousness (R)</td>
<td>Bridget Carey; Robert Kirkpatrick; William Iacono; Matt McGue</td>
</tr>
<tr>
<td><strong>9</strong></td>
<td>Sex specific associations between OXTR polymorphisms and altruistic helping behavior, perspective taking and empathic concern (T, R)</td>
<td>Christa Christ</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>Teacher-rated educational achievement in twins in primary school (R)</td>
<td>Eveline de Zeeuw; Catherina van Beijsterveldt; Tina Glasner; Eco de Geus; Dorret Boomsma</td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>Heritability of subcortical brain measures: a perspective for future genome-wide association studies</td>
<td>Anouk den Braber; Marc M Bohlken; Rachel Brouwer; Dennis van ’t Ent; Ryota Kanai; Rene S. Kahn; Eco de Geus; Hilleke Hulshoff Pol; Dorret Boomsma</td>
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<td>Page</td>
<td>Title</td>
<td>Authors</td>
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<tr>
<td>12</td>
<td>Associations between marital status and drinking behavior: a genetically informed study (R)</td>
<td>Diana Dinescu; Christopher Beam; Erin Horn; Robert Emery; Eric Turkheimer</td>
</tr>
<tr>
<td>13</td>
<td>Facial phenotype linked to one genetic disease and wrong face-based judgement on behavioral phenotype (intelligence). The emblematic case of the trisomy 21</td>
<td>Claire Enea-Drapeau; Michèle Carlier; Pascal Huguet</td>
</tr>
<tr>
<td>14</td>
<td>Inhibitory control and behavior problems at 36 months</td>
<td>Jeffrey Gagne; Kimberly Saudino</td>
</tr>
<tr>
<td>15</td>
<td>Sources of individual differences in executive function deficits and their covariation with social and emotional disregulation: Evidence from a young twin sample (T, R)</td>
<td>Juliana Gottschling; Elisabeth Hahn; Frank Spinath; Frederick Coolidge</td>
</tr>
<tr>
<td>16</td>
<td>TWINLIFE: A longitudinal cross-sequential study on genetic and social causes of life changes (T, R)</td>
<td>Elisabeth Hahn; Juliana Gottschling; Martin Diewald; Rainer Riemann; Frank Spinath</td>
</tr>
<tr>
<td>17</td>
<td>Effects of ADHD-related stimulant use (T, R)</td>
<td>Nayla Hamdi; Scott Burwell; William Iacono</td>
</tr>
<tr>
<td>18</td>
<td>Genetic and environmental influences on alcohol use problems: Moderation by romantic partner support, but not family or friend support (T, R)</td>
<td>Amber Jarnecke; Susan South</td>
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<tr>
<td>19</td>
<td>Effect size and model selection considerations for bootstrapping the lasso (R)</td>
<td>Charles Laurin; Gitta Lubke</td>
</tr>
<tr>
<td>20</td>
<td>Genetic and environmental influences on processing speed, executive functions, and general cognitive ability: Findings from the Older Australian Twins Study (T, R)</td>
<td>Teresa Lee; Margaret Wright; David Ames; Perminder Sachdev</td>
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<tr>
<td>21</td>
<td>Welfare effects of increasing borrowing limit in the presence of self-control problem</td>
<td>Li Li</td>
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<td>22</td>
<td>The heritability of a &quot;General Factor of personality&quot; and other personality dimensions</td>
<td>John Loehlin</td>
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<td>23</td>
<td>Authoritarianism as a personality trait: Evidence from a longitudinal behavior genetic study (T, R)</td>
<td>Steven Ludeke; Bob Krueger</td>
</tr>
<tr>
<td>24</td>
<td>A social shield against divorce: A genetically informed study of social support as a buffer against adverse outcomes associated with parental divorce (R)</td>
<td>Mika Nomura; Erin Horn; Eric Turkheimer; Robert Emery</td>
</tr>
<tr>
<td>25</td>
<td>A co-twin control design examining socialization versus genetic selection effects in the association between body-conscious peer groups and disordered eating</td>
<td>Shannon O'Connor; S. Alexandra Burt; Kelly Klump (T, R)</td>
</tr>
<tr>
<td>26</td>
<td>Investigating internalizing disorders as a gene-environment interaction: Candidate genes and parental control (T, R)</td>
<td>Justyne Ortquist; Ashlea M. Klahr; Kelly Klump; S. Alexandra Burt</td>
</tr>
<tr>
<td>27</td>
<td>Testing the differential heritability hypothesis from the developmental taxonomy of physical aggression during childhood (T, R)</td>
<td>Stéphane Paquin; Eric Lacourse; Mara Brendgen</td>
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<tr>
<td>Page</td>
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<tr>
<td>28</td>
<td>On the association of common polygenic variation with smoking behavior across adolescent development (R)</td>
<td>Roseann Peterson; Judy Silberg; Lindon Eaves; Hermine Maes</td>
</tr>
<tr>
<td>29</td>
<td>Applying visual recognition software to yearbook photographs to assign zygosity of twin pairs in Project TALENT</td>
<td>Carol Prescott; Xiaokun Xu; Deanna Lyter Achorn; Susan Lapham; Lindsey Mitchell; Ashley Kaiser; Irving Biederman</td>
</tr>
<tr>
<td>30</td>
<td>Gene-environment correlation (rGE): An investigation of the association between the dopamine transporter gene (DAT1) polymorphism and childhood experiences of abuse. (T, R)</td>
<td>Wail Rehan; Kenneth Sandnabba; Ada Johansson; Pekka Santtila</td>
</tr>
<tr>
<td>31</td>
<td>GxE contributions to cognitive aging: An MZ twin pair comparison</td>
<td>Chandra Reynolds; Nancy Pedersen</td>
</tr>
<tr>
<td>32</td>
<td>Wide genome transcriptional analysis of the hippocampus in segmental models of trisomy 21 (Down syndrome) presenting learning impairment and atypical brain morphometry.</td>
<td>Pierre Roubertoux; Nathalie Baril; Véronique Vidal; Catherine Bartoli; Christophe Scajola; Sylvie Tordjman; Desmond Smith; Ed Rubin; Michèle Carlier</td>
</tr>
<tr>
<td>33</td>
<td>Enrollment in the Colorado Adoption Project: Are there birth parent differences between those who did and did not participate?</td>
<td>Sally-Ann Rhea; Robin Corley</td>
</tr>
<tr>
<td>34</td>
<td>A longitudinal study of the association between activity level and attention problems in early childhood</td>
<td>Kimberly Saudino; Manjie Wang; Philip Asherson</td>
</tr>
<tr>
<td>35</td>
<td>The association between attention problems and leisure time exercise behavior in children: A behavior genetics approach (R)</td>
<td>Meghan Schreck; Robert Althoff; Charlotte Huppertz; Catherina von Beijsterveldt; Dorret Boomsma; Jim Hudziak; Eco de Geus; Meike Bartels</td>
</tr>
<tr>
<td>36</td>
<td>Genetic overlapping among intelligence, educational attainment, occupational status, marriage, and having children: Japanese female twins</td>
<td>Chizuru Shikishima; Shinji Yamagata; Kai Hiraishi; Nobuhiko Kijima; Juko Ando</td>
</tr>
<tr>
<td>37</td>
<td>Genetic and environmental components of the relationship between the ASD triad and mental health problems measured by Strengths and Difficulties Questionnaire (SDQ) (R)</td>
<td>Beata Tick; Fruhling Rijsdijk; Fiona McEwen; Emma Colvert; Francesca Happe</td>
</tr>
<tr>
<td>38</td>
<td>GFP is heritable, but what is it? (R)</td>
<td>Tena Vukasovic; Ana Butkovic; Denis Bratko</td>
</tr>
<tr>
<td>39</td>
<td>Development and education of formal and informal logical thinking ability: A Japanese twin study.</td>
<td>Shinji Yamagata; Chizuru Shikishima; Kai Hiraishi; Juko Ando</td>
</tr>
<tr>
<td>40</td>
<td>Genetic and environmental structure of Cloninger's Temperament and Character dimensions: The Healthy Twin study (R)</td>
<td>Sarah Yang; Joohon Sung</td>
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<tr>
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<td>Chair/Speaker</td>
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<td>8:00 – 9:00</td>
<td>Registration Open</td>
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<tr>
<td>9:00 - 10:15</td>
<td><strong>Paper Session: Mechanisms for Variation in Cognition and Educational</strong></td>
<td><strong>Chair: Michelle Luciano</strong></td>
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<td>Attainment**</td>
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<tr>
<td>9:00</td>
<td>Assessing gene-environment interaction in case of heterogeneous</td>
<td>Inga Schwabe; Stéphanie van den Berg</td>
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<td>measurement error (T)</td>
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<tr>
<td>9:15</td>
<td><strong>Genome-wide association for reading and language abilities in two</strong></td>
<td>Michelle Luciano; David Evans; Narelle Hansell; Sarah Medland; Grant</td>
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<td>population cohorts**</td>
<td>Montgomery; Nick Martin; Margaret Wright; Timothy Bates</td>
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<tr>
<td>9:30</td>
<td>Are SNPs associated with educational attainment also associated with</td>
<td>Cornelius Rietveld; Philipp Koellinger; Daniel Benjamin; David Cesarini;</td>
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<td></td>
<td>cognitive function?</td>
<td>George Davey-Smith; Gail Davies; Ian Deary; Magnus Johannesson; Robert</td>
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<td>Plomin; Danielle Posthuma; Peter Visscher</td>
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<tr>
<td>9:45</td>
<td>Explaining sex differences in 3-D Mental Rotation Tasks (MRT) using</td>
<td>Pascal Huguet; François Maltese; Dorret Boomsma; Michèle Carlier</td>
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<td>dizygotic twins: From hormonal to cultural factors (negative stereotypes</td>
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<td>about women and spatial skills)</td>
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<tr>
<td>10:00</td>
<td><strong>Educational policy and the heritability of educational attainment.</strong></td>
<td>Maria-Jesus Tornero-Gomez; Lucia Colodro; Juan Sanchez-Romera; Eduvigis</td>
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<td></td>
<td>Sex differences**</td>
<td>Carrillo; Fruhling Rijsdijk; Juan Ordonana</td>
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<tr>
<td>9:00 - 10:30</td>
<td><strong>Paper Session: Sex, Hormones and Fertility</strong></td>
<td><strong>Chair: Kelly Klump</strong></td>
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<tr>
<td>9:00</td>
<td>The significant effects of ovarian hormones on genetic risk for binge</td>
<td>Kelly Klump; Alexandra Burt; Michael Neale; Cheryl Sisk; Steven Boker; Pamela</td>
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<td></td>
<td>eating**</td>
<td>Keel</td>
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<td>9:15</td>
<td>Genetic analysis of male and female twins does not support the</td>
<td>Brendan Zietsch; Anthony Lee; Dorian Mitchem; Margaret Wright; Nick Martin;</td>
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<td></td>
<td>“indirect benefits” account of masculine male face shape**</td>
<td>Matthew Keller</td>
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<tr>
<td>9:30</td>
<td>Estimating the sex-specific effects of genes on facial attractiveness</td>
<td>Dorian Mitchem; Alicia Purkey; Nicholas Grebe; Greg Carey; Christine</td>
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<td>and sexual dimorphism**</td>
<td>Garver-Apgar; Timothy Bates; Rosalind Arden; John Hewitt; Sarah Medland;</td>
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<td></td>
<td></td>
<td>Nick Martin; Brendan Zietsch; Matthew Keller</td>
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<tr>
<td>9:45</td>
<td>The heritability of advancing parental ages** (T)**</td>
<td>Emma Frans</td>
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<td>10:00</td>
<td>Is the age at first birth in the genes? A study of female UK twins</td>
<td>Felix Tropf; Nicola Barban; Melinda Mills; Harold Snieder; Jornt Mandemakers</td>
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<tr>
<td>10:15</td>
<td>Testosterone and risk preference in adolescent males and females</td>
<td>Kathryn Harden; Jennifer Tackett; Elliot Tucker-Drob</td>
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<tr>
<td>10:30 - 10:50</td>
<td><strong>Coffee / Tea Break</strong></td>
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Several lines of evidence indicate ASD are brain disorders and genetic factors contribute to most ASD cases. There is a consensus that ASD are etiological heterogeneous. The lack of success of GWS strategy with autism is probably the consequence of a large number of mutations each associated with few autistic patients. HTS and UHTS have recently associated more than 40 mutations, chromosomal micro deletions and duplications or various genetic events with ASD. Additionally, the prevalence of ASDs is higher in several syndromes than in the general population. These observations lead to several questions: 1) The 5th version of the Diagnostic and Statistical Manual of Mental Disorders (DSM-V) revisits the diagnostic criteria and amends the list of pervasive development disorders. Does this change the prevalence of ASD? Does it change the prevalence of syndromic autism? 2) What are the frequencies of syndromic autism and of non-syndromic autism associated now with genes? 3) ASDs have different etiology and a large clinical variability. What unifies the diagnosis in patients who do not share the same genetic events? Are there common mechanisms in fragile X and Smith-Lemli-Opitz in which a high prevalence of ASD has been reported? The five speakers address these questions from different research programs, but all share a common feature: they work on autism and publish in human and in animal genetics.

### 10:50 - 12:20
**Symposium: Genes and Autistic Spectrum Disorders (ASDs): Where Are We?**

**Organizer:** Pierre Roubertoux

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>10:50</td>
<td>New DSM criteria: Consequences for diagnosis and epidemiology</td>
<td>Gene Fisch</td>
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<tr>
<td>11:05</td>
<td>Common features, different clinical forms and different etiology</td>
<td>Sylvie Tordjman</td>
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<tr>
<td>11:20</td>
<td>Autism and genes associated with synaptic functioning</td>
<td>Thomas Bourgeron</td>
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<tr>
<td>11:35</td>
<td>ASD and the Teashirt Family Zinc Finger 3 (TSHZ3) gene: Translational approach</td>
<td>Laurent Fasano</td>
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<tr>
<td>11:50</td>
<td>Comparative interactive pathways of genes associated with autism: A proteomic profiling</td>
<td>Pierre Roubertoux</td>
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<tr>
<td>12:05</td>
<td>Discussion</td>
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### 10:50 - 12:20
**Paper Session: Risk for Substance Use Initiation and Substance Use Disorders**

**Chair:** Hermine Maes

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>10:50</td>
<td>Role of nonsynonymous exomic variants in behavioral disinhibition and substance use</td>
<td>Scott Vrieze; Shuang Feng; Nathan Pankratz; Michael Miller; William Iacono; Goncalo Abecasis; Matt McGue</td>
</tr>
<tr>
<td>11:05</td>
<td>Causes of smoking initiation across adolescence: Genes or shared environment</td>
<td>Hermine Maes</td>
</tr>
<tr>
<td>11:20</td>
<td>SNPs and smoking: What can the aggregate of genome-wide SNPs tell us about genetic liability to smoking initiation and quantity smoked? (T)</td>
<td>Amanda Wills; Matthew Keller</td>
</tr>
<tr>
<td>11:35</td>
<td>Differential gene expression patterns in smokers and non-smokers – Cause or consequence?</td>
<td>Jacqueline Vink; Rick Jansen; Andy Brooks; Jay Tischfield; Gonneke Willemsen; Eco de Geus; Fred Wright; Brenda Penninx; Dorret Boomsma</td>
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<tr>
<td>11:50</td>
<td>Estimation of the genetic covariance among DSM-IV symptoms of alcohol dependence using common causal variants</td>
<td>Rohan Palmer; Matthew Keller; John McGeary; Andrew Heath; Valerie Knopik</td>
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<tr>
<td>12:05</td>
<td>Do, or do not. There is no try: Genome-wide meta-analysis of age of first alcohol use and first weekly use in the GEDI YODA datasets</td>
<td>Shauna Clark</td>
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### MONDAY, JULY 1 con’t

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<th>Time</th>
<th>Event</th>
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<tr>
<td>12:20-13:40</td>
<td>Business Meeting * &amp; Lunch (provided)</td>
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<td>Amphi Sciences Naturelles</td>
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<td>Pick up lunch in Garden in front of Amphi Mathématiques Physique</td>
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<td>*members only</td>
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<td>13:45-14:45</td>
<td>Lightning Round #1: Mostly Cognition</td>
<td>Chair: Timothy Bates</td>
<td>Amphi Sciences Naturelles</td>
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<td>13:45</td>
<td>“Memory is memory” Or is it? A multivariate twin analysis of episodic memory in middle-age men</td>
<td>Carol Franz; Matthew Panizzon; Eero Vuoksimaa; Michael Lyons; William Kremen</td>
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<td>13:52</td>
<td>Disease expression based on inheritance in Parkinson’s Disease</td>
<td>Carol Manning; Erin Horn; Madaline Harrison; G. Frederick Wooten; Eric Turkheimer</td>
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<tr>
<td>13:59</td>
<td>Do working memory span and updating tasks measure the same thing? A twin study</td>
<td>Naomi Friedman; John Hewitt</td>
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<tr>
<td>14:06</td>
<td>Bridging behavior genetics and social psychology of cognition: The French and Dutch Twin Study</td>
<td>Michèle Carlier; Pascal Huguet; Tinca Polderman; Dorret Boomsma</td>
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<tr>
<td>14:13</td>
<td>Social comparison orientation: A new perspective in the study of co-twin relationships</td>
<td>Pascal Huguet; Michèle Carlier; Felice van Wegen; François Maltese; Dorret Boomsma</td>
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<tr>
<td>14:20</td>
<td>Can twin methods be trusted? Molecular genetic investigation (T)</td>
<td>Maciej Trzaskowski; Robert Plomin</td>
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<tr>
<td>14:34</td>
<td>Genetic and environmental influences on the relationship between different measures of musical ability and IQ</td>
<td>Miriam Mosing; Guy Madison; Nancy Pedersen; Fredrik Ullén</td>
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<tr>
<td>13:45-14:45</td>
<td>Lightning Round #2: Personality, Attitudes and Abnormal Behavior</td>
<td>Chair: Michael Pogue-Geile</td>
<td>Amphi Mathématiques Physique</td>
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<tr>
<td>13:45</td>
<td>Personality similarity in unrelated look-alike individuals: Constructive replication and social attraction</td>
<td>Nancy Segal; Jamie Graham</td>
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<td>13:53</td>
<td>Normal and abnormal human behavior: The epigenetic perspective</td>
<td>Art Petronis</td>
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<td>14:01</td>
<td>Basic psychological needs and life satisfaction: Behavioral genetic analysis</td>
<td>Denis Bratko; Ana Butkovic; Tena Vukasovic</td>
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<tr>
<td>14:09</td>
<td>Understanding the genetics of impulsivity: further evidence for heritability of delay discounting</td>
<td>Andrey Anokhin; Semyon Golosheykin</td>
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<tr>
<td>14:17</td>
<td>The genetic and environmental contributions involved in cigarette smoking across late adolescent and young adult development</td>
<td>Elizabeth Prom-Wormley; Hermine Maes</td>
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<tr>
<td>14:25</td>
<td>Smoking and long-term labor market outcomes</td>
<td>Petri Böckerman; Ari Hyytinen; Jaakko Kaprio</td>
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<td>14:33</td>
<td>GWA studies on entrepreneurship: The trade-off between phenotypes accuracy and sample size</td>
<td>Philipp Koellinger; Matthijs van der Loos; Cornelius Rieveld; Daniel Benjamin; David Cesarini; Niina Eklund; Sara Willems; Patrick Groenen; Andre Uitterlinden; Albert Hofman; Roy Thurik; Gentrepreneur Consortium</td>
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</table>
### Symposium: Using a Parent-Offspring Adoption Design to Advance the Understanding of Genetic and Environmental Influences on Child Development

**Organizer:** Jenae Neiderhiser  
**Discussant:** Matt McGue

This symposium will present work from the ongoing Early Growth and Development Study (EGDS). The EGDS is a longitudinal study of 551 birth parents and adoptive families, linked through a child adopted at birth. We will describe three inter-related areas of study on EGDS: (1) separating the role of genetic, prenatal drug exposure, and rearing environment influences on child development; (2) examining gene-environment interplay during the school-entry period of development; and (3) disentangling prenatal, genetic, and rearing environmental influences on child healthy and unhealthy weight development across childhood. The three talks will cover each of these areas, focusing on the unique contributions facilitated by the adoption design. The discussant, Matt McGue, will link this work to the larger body of adoption studies and quantitative genetic research on child development.

| 14:50 - 16:05 | **Symposium:** Using a Parent-Offspring Adoption Design to Advance the Understanding of Genetic and Environmental Influences on Child Development  
**Organizer:** Jenae Neiderhiser  
**Discussant:** Matt McGue  
**Amphi Sciences Naturelles** |
|---|---|
| **14:50** | Links between birth parent substance use and toddler behavior  
Jenae Neiderhiser; Charles Beekman; Leslie Leve; Daniel Shaw; Jody Ganiban; David Reiss |
| **15:15** | Perceived parenting stress among adoptive parents: Associations with biological parent criminality  
Leslie Leve; Jenae Neiderhiser; Gordon Harold; Daniel Shaw; Misaki Natsuaki; Jody Ganiban; David Reiss |
| **15:40** | Changes in children’s weight status across preschool: Genetic, prenatal, and environmental influences  
Jody Ganiban; Kristine Marceau; Briana Horwitz; Samuel Simmons; Misaki Natsuaki; Jenae Neiderhiser; David Reiss; Daniel Shaw; Leslie Leve |
| **16:05** | Discussion  
Matt McGue |

### Paper Session: Personality and Personality Disorders

**Chair:** Marleen de Moor  
**Amphi Mathématiques Physique**

| 14:50 - 16:05 | **Paper Session:** Personality and Personality Disorders  
**Chair:** Marleen de Moor  
**Amphi Mathématiques Physique** |
|---|---|
| **14:50** | Genome-wide analyses of borderline personality features suggest heterogeneity  
Gitta Lubke |
| **15:05** | A population-based twin study of the relationship between anxiety disorders and dimensional representations of personality disorders  
Audun Welander-Vatn; Eivind Ystrom; Kristian Tambs; Kenneth Kendler; Ted Reichborn-Kjennerud; Gun Peggy Knudsen |
| **15:20** | Personality disorders and long-term sick leave: A population-based study of young adult Norwegian twins (T)  
Line Gjerde; Espen Røysamb; Nikolai Czajkowski; Gun Peggy Knudsen; Kristian Østby; Krsitian Tambs; Kenneth Kendler; Ted Reichborn-Kjennerud; Ragnhild Ørstavik |
| **15:35** | Big Five personality traits: Psychological entities or statistical constructs? (T)  
Sanja Franic; Denny Borsboom; Conor Dolan; Dorret Boomsma |
| **15:50** | Finding genetic loci for neuroticism and extraversion: Results from the Genetics of Personality Consortium (GPC)  
Marleen de Moor; Stéphanie van den Berg; Dorret Boomsma; GPC |
### Executive Committee Meeting II

**Time:** 16:30  
**Location:** Salle de conférence du Pôle 3, Building 5

### Cocktails & Amuses Gueules

**Time:** 18:30  
**Location:** Fort Ganteaume

### Conference Banquet & Award Presentations

**Time:** 19:30-22:00  
**Location:** Fort Ganteaume

- **Presidential Address:** Eric Turkheimer  
  *Genetics of Personality: The Gloomy Chickens Come Home to Roost*

- **Award Presentations**

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**Note:** Fort Ganteaume is located about 30 minutes from the conference venue. Please arrive before 19:30 in order to be seated for dinner.
## Tuesday, July 2

**Festschrift for Professor Norman Henderson**  
Aix Marseille University  
Campus Saint Charles  
Amphi Mathématiques Physique (Building 9)

### Norm the Scientist

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>9:00</td>
<td>Welcome: Carol Prescott</td>
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</table>
| 9:15  | Jonathan Flint  
*Finding quantitative genes for fear-related behavior in rodents* |
| 9:45  | Sheri Berenbaum  
*Honoring Norm by honoring phenotypes and pathways: The example of psychological sex differences* |
| 10:15 | Wim Crusio  
*To boldly go where Norman went before: Exploring the genetics of exploration in mice* |
| 10:45 | **Coffee/Tea Break** |
| 11:10 | Tamara Phillips  
*Genetic factors involved in risk for methamphetamine intake* |

### Norm the Teacher

<table>
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<tr>
<th>Time</th>
<th>Speaker/Title</th>
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<tbody>
<tr>
<td>11:40</td>
<td>Michael Marks</td>
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<td>11:55</td>
<td>James Jones</td>
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</table>
| 12:10 | Chuck Snowdon (audio)  
Jennifer Harris |
| 12:30 | **The FEAST** |
| 12:40 | Michael Marks |
| 12:50 | James Jones |
| 13:10 | Chuck Snowdon (audio)  
Jennifer Harris |

### Norm the Mentor

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>14:00</td>
<td>Valerie Knopik</td>
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<td>14:10</td>
<td>Andy Smolen &amp; Toni Smolen</td>
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<td>14:20</td>
<td>Sally-Ann Rhea</td>
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### Norm the Colleague

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<tr>
<td>14:30</td>
<td>David Blizard</td>
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<td>14:40</td>
<td>Michèle Carlier</td>
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<td>14:50</td>
<td>John Loehlin</td>
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<td>15:00</td>
<td>Jack McArdle</td>
</tr>
<tr>
<td>15:10</td>
<td>Pierre Roubertoux</td>
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<tr>
<td>15:20</td>
<td>Tom Bouchard</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Norm Speaks</strong></td>
</tr>
</tbody>
</table>
Venues

The Reception, Meeting & Festschrift are at

Aix Marseille University Campus Saint Charles 3 place Victor Hugo

Marseille cedex 1313331

Main entrance

Registration, welcome reception: in the garden, in front of Amphi Charve Math Physique (9)

Scientific sessions: Amphi Charve Math Physique (9), or amphi Sc Naturelles (8)

Poster session: Conference room (3)

Lunch and coffee break: in the garden, in front of amphi Charve Math Physique
Venues

The Banquet is at Fort Ganteaume.

The Fort is located about 30 minutes distance from the campus.

Please arrive no later than 19:30 to be seated for dinner.

How to go:

- Walking distance (15 -20 min) from metro station Vieux Port

- from metro station Vieux Port: line 83 CANEBIÈRE VIEUX PORT-METRO ROND POINT DU PRADO; bus stop Fort Saint Nicolas

- from bus stop Faculté Saint Charles: line 82S SAINT CHARLES-PHARO CATALANS; bus stop Fort Saint Nicolas

Consult: http://www.rtm.fr/en for schedule and maps
How to survive on campus Saint Charles

Keep always your nametag. It will help you: 1) to obtain your lunch 2) to pass the gate on week end.

(ask Pierre if you lose it)

Persons with special diet must show to the waiters the special card given at the registration desk

Coffee break and lunch will be served outside in front of Amphi Math-Physique.

If you have any question, ask the organizers a red dot on the tag

Please look at latest news on the Meeting website to know program modifications

Use your individual code to reach the Wifi

How to survive out of campus Saint Charles?

Avoid gold necklace, bracelet, and earrings; take care of your bag and of your billfold...

Marseille is a big town...