

BEHAVIOR GENETICS ASSOCIATION

The purpose of the Behavior Genetics Association is to promote scientific study of the interrelationship of genetic mechanisms and behavior, both human and other 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 BGA Secretary, Michael Stallings, Institute for Behavioral Genetics, University of Colorado, Boulder, CO 80309, USA (Michael.Stallings@Colorado.Edu) or the BGA website (www.BGA.org).

EXECUTIVE COMMITTEE

	2004-2005	2005-2006
President	Michèle Carlier	H. Hill Goldsmith
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Member-at-Large	Danielle Dick	Juko Ando

2005 MEETING INFORMATION

The 35th Annual Meeting of the Behavior Genetics Association will be held at the Hollywood Renaissance Hotel in Los Angeles, California. Paper, poster and plenary sessions will be held throughout the day on June 30, July 1, and July 2. The opening reception is from 6-8 pm on Thursday, June 29, and the banquet will be held on the evening of Saturday, July 2, 2005.

Local Hosts:

Chandra Reynolds, Ph.D.
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Laura Baker, Ph.D.
Psychology Department
University of Southern California
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Year	Presidents	Dobzhansky Awardees	Thompson Awardees	Local Hosts
1971				R. Osborne/B Ginsburg–Storrs CT
1972	Th. Dobzhansky			G.E. McClearn–Boulder CO
1973	John L. Fuller			W.S. Pollitzer–Chapel Hill NC
1974	Gerald E. McClearn			S. Scarr–Minneapolis MN
1975	J. P. Scott			J. Bruell–Austin TX
1976	Irving I. Gottesman			J.C. DeFries–Boulder CO
1977	W.R. Thompson	Steven Vandenberg	Nancy Galvin	R. Wilson–Louisville KY
1978	Lee Ehrman	Elliott Slater	Gregory Carey	T. Klein–Davis CA
1979	V. Elving Anderson	Ernst Caspari	Marla Sokolowski	C. Lynch–Middletown CT
1980	John C. Loehlin	Benson Ginsburg		R.D. Bock–Chicago IL
1981	Norman D. Henderson	Sheldon Reed	Michael Pogue-Geile	L. Erhman–Purchase NY
1981				Rose/Guttman/Guttman–Jerusalem
1982	John C. DeFries	Gardner Lindzey	Paul Sharp	D. Nash–Ft Collins CO
1983	David W. Fulker	Peter Broadhurst	Michael Neale	D. Fulker–London
1984	Steven G. Vandenberg	Leonard Heston	Christine Michard & George Vogler	R. Rose–Bloomington IN
1985	Sandra Scarr	Nikki Erlenmeyer-Kimling	Dorret Boomsma & Lucinda Miner	G. McClearn–State College PA
1986	Ronald S. Wilson	Raymond Cattell	David Harder	G. Ashton/R Johnson–Honolulu HI
1987	Peter A. Parsons	J.L. Fuller & J.P. Scott	J.S. de Belle	L. Heston–Minneapolis MN
1988	Leonard L. Heston	Lee Erhman	Joanne Meyer	S. Kerbusch–Nijmegen, Netherlands
1989	Robert Plomin	Gerald McClearn	Susan Parlour	S. Scarr–Charlottesville VA
1990	Carol B. Lynch	Irving Gottesman	Lon Cardon & Philip Welbergen	P. Roubertoux–Aussois, France
1991	Lindon J. Eaves	John Loehlin	Abel Bult & Lawrence Rodriguez	G. Vogler–St Louis MO
1992	David A. Blizard	John DeFries	Deborah Finkel	J. Wilson–Boulder CO
1993	Thomas J. Bouchard, Jr.	Peter Parsons	Hermine Maes	N. Martin–Sydney, Australia
1994	Gladye Whitney	Aubrey Manning	Frans Sluyter	A. Fernandez-Teruel/R.M. Escorihuela/ A. Tobena–Barcelona
1995	James Wilson	David Fulker	Soo Hyun Rhee & Stephen Petrill	J. Meyer/L. Eaves–Richmond VA
1996	Nicholas Martin		Stephanie Schmitz	G. McClearn/G. Vogler/D. Blizard/ B. Jones–Pittsburgh PA
1997	Nicholas Martin	Ronald Johnson	Martine Thomis	Tony Vernon–Toronto, Canada
1998	Norman Henderson	Stephen Maxson	Javier Gayán & Alexander Weiss	Nancy Pedersen–Stockholm, Sweden
1999	Richard Rose	Lindon Eaves	Danielle Posthuma & Danielle Dick	Kerry Jang–Vancouver, Canada
2000	John Hewitt	Pierre Roubertoux	Brian D’Onofrio & Nathan Gillespie	James Hudziak–Burlington VT
2001	Matt McGue	Thomas Bouchard	Shaun Purcell	Thalia Eley–Cambridge UK
2002	Nancy Pedersen	Robert Plomin	Meike Bartels & Michael Galsworthy	Marianne Wamboldt–Keystone CO
2003	Andrew Heath	Norman Henderson	Arpana Argrawal	Andrew Heath–Chicago, USA
2004	Michèle Carlier	Sandra Scarr	Jennifer Y.F. Lau	P. Roubertoux–Aix-en-Provence, France

Wednesday June 29

2:00–6:00 pm
Foyer–Studios ABC

Registration

4:00–6:00 pm
Hancock Park Room

Executive Committee Meeting

6:00–8:00 pm
Poolside at the hotel

Opening Reception

Thursday June 30

8:30 am–5:00 pm
Foyer–Studios ABC

Registration

8:00–10:00 am
Studios A & B

Session 1 – Symposium

The Strengths (and Obstacles) of Longitudinal Research on Childhood and Adolescent Development

Organizer and Chair: Meike Bartels

Co-Organizer: Jim Hudziak

Discussant: Dorret Boomsma

8:00 am

Longitudinal Study of Problem Behavior in Finland: Lessons from the FinnTwin Studies

Richard J. Rose, Jaakko Kaprio, Richard J. Viken, and Lea Pulkkinen

8:20 am

Studies of Substance Use and Abuse in Adolescence: The CASTENET Sample

Marianne van den Bree and Anita Thapar

8:40 am

Disinhibited Psychopathology: A Developmental Behavioral Genetic Perspective

Margaret A. Keyes, Brent Walden, W.G. Iacono, and Matt McGue

9:00 am

Early childhood temperament and the covariation between internalizing and externalizing behavior in school-aged children

Soo Hyun Rhee, Victoria E. Cosgrove, Stephanie Schmitz, Brett Haberstick, Robin C. Corley, and John K. Hewitt

9:20 am

A longitudinal multiple rater study on Rule-Breaking behavior; Highlights of the Longitudinal Data of the Netherlands Twin Register

Meike Bartels, J.J. Hudziak, C.E.M. van Beijsterveldt, and D.I. Boomsma

9:40 am

Discussion by Dorret Boomsma

8:00–10:00 am
Studio C

Session 2 – Papers: **Marriage, Sex, Stress, and Health**

8:00 am

Not a steady relationship? Genetic variation in marriage across the lifespan

Susan L. Trumbetta, Ezra M. Markowitz, and Irving I. Gottesman

8:15 am

Gender Differences in Marital Quality: Genes or Environment?

Erica L. Spotts, Jenae M. Neiderhiser, Paul Lichtenstein, and David Reiss

8:30 am

Genetic, Demographic, and Socioeconomic Influences on Timing of First Sexual Intercourse: Twin and DNA Data of Add Health

Guang Guo and Yuying Tong

8:45 am

Genetic and Environmental Influences on the Frequency of Orgasm in Women

Khytam Dawood, Katherine M. Kirk, J. Michael Bailey, Paul W. Andrews, and Nicholas G. Martin

9:00 am

Maternal Alcoholism and Offspring Age at First Sexual Intercourse

Mary C. Waldron, A.C. Heath, K.K. Bucholz, P.A.F. Madden, W. Slutske, T. Jacob, and N.G. Martin

9:15 am	<i>Genetic and environmental influences on the occurrence and perceived severity of daily stressors</i> Susan T. Charles and D.M. Almeida
9:30 am	<i>Genetic and environmental factors affecting perceived health from age 16 to 24: a longitudinal study of Finnish twins</i> Karri Silventoinen, Eero Lahelma, Daniëlle Posthuma, Richard J Rose, and Jaakko Kaprio
9:45 am	<i>Heritability of ambulatory sympathetic cardiac drive</i> Nina Kupper, Gonneke Willemsen, Dorret I. Boomsma, and Eco J.C. de Geus
10:00–10:30	30-Minute Break
10:30–11:30 Studios A & B	Session 3—PLENARY <i>Genes, Brain and Behavior</i> Speaker: Jean Shih
11:30 am–1:00 pm	Lunch
1:00–3:00 pm Studios A & B	Session 4—Symposium <i>International Collaboration Towards an Integrated Model of Personality from a Behavioral Genetic Perspective</i> Chairs: Kerry L. Jang and Juko Ando Discussant: Michael C. Stallings <i>Is genetic structure of the Five Factor Model universal? A cross-cultural twin study from Canada, Germany, and Japan</i> Shinji Yamagata, Juko Ando, Kerry L. Jang, and Fritz Ostendorf <i>Is the genetic and environmental factor structures of Cloninger's temperament dimensions common cross-culturally? International comparison among Australia, USA, and Japan</i> Yusuke Takahashi, Nathan A. Gillespie, Nicholas G. Martin, Michael, C. Stallings, and Juko Ando <i>Higher order analysis of the Big Five—the genetic basis to Alpha and Beta across cultures</i> Kerry L. Jang, W.J. Livesley, Juko Ando, Shinji Yamagata, Aloise Angleitner, Fritz Ostendorf, Frank Spinath, and Rainer Reimann. <i>Personality in Germany and Minnesota: Using the Multidimensional Personality Questionnaire to Evaluate an Item Response Theory-Based Comparison of Self-Reports and Underlying Genetic and Environmental Influences</i> Robert Krueger, Wendy Johnson, Frank Spinath, Alois Angleitner, and Rainer Riemann Discussion Discussant: Michael C. Stallings
1:00–3:00 pm Studio C	Session 5—Papers: <i>Smoking</i>
1:00 pm	<i>Maternal smoking exposure prenatally moderates genetic and environmental influence on youth conduct problems</i> Carol A. Van Hulle, Robert F. Krueger, Irwin P. Waldman, and Benjamin B. Lahey

- 1:15 pm *Genetic and Cultural Transmission of Smoking Initiation. An Extended Twin Kinship Model Revisited*
Hermine H. Maes, Michael C. Neale, Kenneth S. Kendler, Nicholas G. Martin, Andrew C. Heath, and Lindon J. Eaves
- 1:30 pm *Interactions between genetic and lifestyle factors influence variation in body mass index in Norwegian twins*
T. Rønning and J.R. Harris
- 1:45 pm *Three-Stage Twin Modeling and Gene Association Analysis with DSM-IV Nicotine Withdrawal*
Michele L. Pergadia, Andrew C. Heath, Arpana Agrawal, Scott Saccone, Alison Goate, Danielle M. Dick, Alexandre A. Todorov, John Rice, N.G. Martin, Jen C. Wang, and Pamela A.F. Madden
- 2:00 pm *Association of the Serotonin Transporter Gene with Nicotine Dependence*
George D. Papandonatos, Susan L. Santangelo, Jeanne M. McCaffery, Michael Lyons, Ming T. Tsuang, Raymond Niaura, and Stephen Buka
- 2:15 pm *The role of family and non-family environment in adolescent and young adult smoking: An offspring of twins design*
Hong Xian, Jeffrey F. Scherrer, Seth A. Eisen, Kathleen K. Bucholz, Andrew A. Heath, Theodore Jacob, and William R. True
- 2:30 pm *Assortative mating for two-stage conditional models: Smoking behavior as an example*
Arpana Agrawal, Andrew C. Heath, Julia D. Grant, Michele Pergadia, Dixie Statham, Nicholas G. Martin, Kathleen K. Bucholz, and Pamela A.F. Madden
- 3:00–3:15 pm **15-Minute Break**
- 3:15–5:00 pm**
Studios A & B
- Session 6—Papers: Substance Abuse**
- 3:15 pm *A sibling adoption study to disentangle influences of shared and nonshared environment on substance use disorders: Methodological issues*
Anja C. Huizink, Mijke van den Berg, and Frank C. Verhulst
- 3:30 pm *Risk factors contributing to stages of alcohol use across adolescence and into young adulthood*
Jason L. Pagan, Richard J. Rose, Richard J. Viken, Lea Pulkkinen, Jaakko Kaprio, and Danielle M. Dick
- 3:45 pm *Assessing assortative mating and reciprocal spousal influences on alcoholism in a sample of Vietnam-era veteran twins and their spouses*
Julia D. Grant, Jeffrey F. Scherrer, Alexis E. Duncan, Andrew C. Heath, William R. True, Randy Haber, Theodore Jacob, and Kathleen K. Bucholz
- 4:00 pm *Re-sequence and haplotype linkage of mu opioid receptor gene with substance abuse in four populations*
Ke Xu, Jeanietta Terry, Christee Thomas, Alec Roy, Dirk Lichtermann, Wolfgang Maier, Matti Virkkunen, and David Goldman
- 4:15 pm *Adolescent marijuana use: Genetic and environmental risk factors within the family*
Katherine Shelton, Kate Lifford, Gordon Harold, Mike Neale, Anita Thapar, and Marianne van den Bree

4:30 pm *The role of GABA-A receptor genes in developmental trajectories of risk for substance dependence and related behavioral disorders*
Danielle M Dick, Laura Bierut, Louis Fox, Kathleen K Bucholz, John Kramer, Samuel Kuperman, Victor Hesselbrock, Marc Schuckit, Bernice Porjesz, Henri Begleiter, John Nurnberger, Jr., Xiaoling Xuei, Tatiana Foroud, and Howard J. Edenberg

4:45 pm *Linkage of alcohol dependence symptoms to chromosome 4 in the Irish Affected Sib Pair Study of Alcohol Dependence*
Carol A. Prescott, Patrick F. Sullivan, Po-Hsiu Kuo, Bradley Todd Webb, Jen Vittum, Diana G. Patterson, Dawn Thiselton, Michael C. Neale, Edwin J. van den Oord, Dermot Walsh, Brien P. Riley, and Kenneth S. Kendler

**3:15–5:00 pm
Studio C**

Session 7–Papers: Methods

3:15 pm *Factor and Item-Response Analysis of DSM-IV Criteria for Abuse of and Dependence on Cannabis, Cocaine, Hallucinogens, Sedatives, Stimulants and Opioids*
Nathan A. Gillespie, Michael C. Neale, Carol A. Prescott, Steven H. Aggen, and Kenneth S. Kendler

3:30 pm *An Item Response Theory (IRT) Analysis of Conduct Disorder*
Heather L. Gelhorn, Michael C. Stallings, and John K. Hewitt

3:45 pm *Difficulties in the interpretation of statistical interactions of measured genotypes with measured environments in the prediction of behavioral phenotypes*
Michael B. Miller

4:00 pm *Semiparametric Maximum Likelihood Variance Component Estimation Using Mixture Moment Structure Models*
Kristian E. Markon

4:15 pm *Quantifying and addressing parameter indeterminacy in the classical twin design*
Matthew C. Keller and William L. Coventry

4:30 pm *Bayesian estimation of genetic correlations between polychotomous variables using the classical twin design*
Stéphanie M. van den Berg, Adi Setiawan, Aad W. van der Vaart, and Dorret I. Boomsma

4:45 pm *Exploring the extent of parameter bias in the classical twin design: A comparison of parameter estimates from the extended twin-family and classical twin designs*
William L. Coventry and Matthew C. Keller

5:00–5:30 pm

30-Minute Break

**5:30–7:00 pm
Studios D & E**

Poster Session I

1 *The role of female choice in sexual selection of *Drosophila pseudoobscura**
Yong-Kyu Kim, Christine Bassett, and Wyatt Anderson

2 *Individual differences in mouse maternal retrieval: The roles of genotype, apparatus and an anxiolytic agent*
Martin E. Hahn, Rohan Palmer, Norman Schanz, Kristen Symanski, and Krishna Tobon

3 *Individual Variation in Mouse Pup Ultrasonic Vocalization Waveforms: Effects of Genotype, Treatment, and Prenatal Cocaine Exposure*
Krishna E. Tobon, Martin E. Hahn, and Norman Schanz

- 4 *Identification of genes associated with cerebellar abnormalities in Down Syndrome (DS)*
Zohra Seregaza, P. L. Roubertoux, A. Viola, S. Confort-Gouny, P.J. Cozzone, M. Jamon, D.J. Smith, and E. Rubin
- 5 *A generalized estimating equation (GEE-2) approach to family-based association study of substance use phenotypes in adolescents*
Nathan K. Risk, Qiang (John) Fu, and Rumi Kato Price
- 6 *The Impact of Pubertal Development on Aggressive Versus Non-Aggressive Antisocial Behavior in Females*
Janeen A. DeMarte, S. Alexandra Burt, and Matt McGue
- 7 *The genetics of planning ability: A twin study of middle-aged men*
William S. Kremen, Kristen C. Jacobson, Hong Xian, Jennifer A. Nowack, Robin M. Taylor, Seth A. Eisen, Ming T. Tsuang, and Michael J. Lyons
- 8 *The temporal relations of the onsets of alcohol dependence and depression: Using a genetically informative study design*
Po-Hsiu Kuo, Charles O. Gardner, Kenneth S. Kendler, and Carol A. Prescott
- 9 *Sex difference in the importance of genetic influences on chronic widespread pain*
Kenji Kato, Patrick F. Sullivan, Birgitta Evengård, and Nancy L. Pedersen
- 10 *Associations between Perceived Control and Approach-Avoidance: Examining Genetic and Environmental Influences*
Briana N. Horwitz and Susan Charles
- 11 *Laterality and intellectual impairment in genetic diseases*
Aude Gérard, Michèle Carlier, Catherine Ayoun, Michelle Murré, Laurent Villard, Brigitte Chabrol, and Nicole Philip
- 12 *Sex-dependent expression of familial risk for alcoholism*
Jessica H. Baker, Carol A. Prescott, Charles O. Gardner, and Kenneth S. Kendler
- 13 *Schizophrenia and low birth weight—is the association due to common genes or common environments?*
Emma Nilsson, Christina M. Hultman, Sven Cnattingius, Petra Otterblad Olausson, and Paul Lichtenstein
- 14 *Happiness: Stability and change—genetic and environmental contributions*
Ragnhild B. Nes, E. Røysamb, T. Reichborn-Kjennerud, K. Tambs, and J.R. Harris
- 15 *Smoking decreases genetic variance in Body Mass Index among middle-aged male twins*
Carol E. Franz, Kristen C. Jacobson, Michael Grant, Hong Xian, Ming T. Tsuang, William S. Kremen, Seth Eisen, and Michael J. Lyons
- 16 *Coping with stressful situations and personality: A biometric analysis*
Dana S. Thordarson, Kerry L. Jang, Murray B. Stein, Sharon L. Cohan, Steven Taylor, and W. John Livesley
- 17 *Executive cognitive functioning and maladaptive personality traits in adult twins*
Jeanette E. Taylor
- 18 *Linkage signals for illicit drug phenotypes: Results from the Nicotine Addiction Genetics Project*
Arpana Agrawal, Andrew C. Heath, Michele Pergadia, Scott F. Saccone, Danielle Dick, Julia D. Grant, Michael Lynskey, John P. Rice, Alexandre Todorov, Alison Goate, Jen Wang, Shantia Shears, Nicholas G. Martin, and Pamela A.F. Madden

- 19 *Linkage Analyses of IQ in the Collaborative Study on the Genetics of Alcoholism (COGA) Sample*
Fazil Aliev, Danielle M. Dick, Laura Bierut, Alison Goate, John Rice, Anthony Hinrichs, Sarah Bertelsen, Jen Wang, Gerald Dunn, Bernice Porjesz, Henri Beglieter, and Victor Hesselbrock
- 20 *Biological and Environmental Factors in the Prediction of Adult Smoking Patterns Among Adult Adoptees*
Kristin Caspers
- 21 *ALDH2 and ADH1B polymorphisms and alcohol-related behaviors in Asian adopted individuals*
Daniel E. Irons, Matt McGue, William G. Iacono, and William S. Oetting
- 22 *Melanopsin Polymorphisms in Seasonal Affective Disorder*
Kathryn A. Roecklein, Ignacio Provencio, Mark D. Rollag, and Kelly J. Rohan
- 23 *Sex differences in genetic and environmental influences on smoking and drinking behaviors among Japanese adolescents and young adults: A twin study*
Ryoko Nakajima, Yutaka Ono, Kimio Yoshimura, Nobuhiko Kijima, Rumi Kato Price, and Juko Ando
- 24 *Genetic etiology of reading difficulties as a function of gender and severity*
Jesse L. Hawke, Sally J. Wadsworth, Richard K. Olson, and John C. DeFries
- 25 *Linkage for Cannabis Dependence on Chromosomes 3 and 9*
Jeffrey M. Lessem, Christian J. Hopfer, Stacey S. Cherny, Robin P. Corley, John K. Hewitt, Kenneth S. Krauter, Susan K. Mikulich, Soo Hyun Rhee, Andrew Smolen, Susan E. Young, and Thomas J. Crowley
- 26 *Reading Ability, Inattention and IQ in Children*
Allison Zumberge, Laura A. Baker, and Frank Manis
- 27 *Etiology and structure of the Wisconsin Card Sorting Task (WCST)*
Detre A. Godinez, Soo Hyun Rhee, Naomi Friedman, Susan E. Young, Robin Corley, John C. DeFries, Akira Miyake, and John K. Hewitt
- 28 *How parents influence school grades: Hints from a sample of adoptive and biological families*
Wendy Johnson, Matt McGue, and William G. Iacono
- 29 *Social closeness of MZ and DZ twin parents toward their nieces and nephews*
N.L. Segal, J. Seghers, R. Castillo, A. Vanevery, and T. Moreno
- 30 *It's not the divorce, it's where you're coming from*
Sally-Ann Rhea, Josh Bricker, and Robin P. Corley

Friday July 1

8:30 am–5:00 pm
Foyer–Studios ABC

Registration

8:00–9:00 am
Studios A & B

Session 8–Papers: *Developmental Phenotypes*

8:00 am

Physical attractiveness and dermatoglyphic asymmetries predict externalizing behaviors in children: Genes or prenatal environment?
K.S. Lemery, N.L. Schmidt, A.A. Justen, and H.H. Goldsmith

8:15 am

Twin concordance for the autism spectrum based on community diagnoses and screening of a birth cohort
E. Kees, R. Hefter, J. Klaver, S. Schweigert, C. Arneson, M.A. Gernsbacher, and H.H. Goldsmith

8:30 am	<i>Strong Evidence That KIAA0319 on Chromosome 6p Is a Susceptibility Gene for Developmental Dyslexia</i> Julie Williams, Natalie A. Cope, Denise H. Harold, Gary T. Hill, Valentina Moskvina, Jim Stevenson, Peter Holmans, Michael J. Owen, and Michael C. O'Donovan
8:45 am	<i>Gene expression in mice carrying an extra copy of chromosomal fragments covering the Down Syndrome Chromosomal Region- (DCR-)</i> Pierre L. Roubertoux, Z. Seregaza, M. Jamon, D.J. Smith, and E. Rubin
8:00–9:00 am Studio C	Session 9–Papers: <i>Personality</i>
8:00 am	<i>Can overlapping QTLs account for correlations between Eysenck and Cloninger personality dimensions?</i> Nick Martin, Dorret Boomsma, Andrew Birley, Leo Beem, and Patrick Sullivan
8:15 am	<i>Temperament across adolescence: Genetic and environmental contributions to stability and change</i> Jody M. Ganiban and Jenae M. Neiderhiser
8:30 am	<i>Genetic and Environmental Transmission of Masculinity-Femininity: Parent-Offspring Models</i> Richard J. Viken Richard J. Rose, Jaakko Kaprio, and Markku Koskenvuo
8:45 am	<i>How money buys happiness: Genetic and environmental processes linking finances and life satisfaction</i> Wendy Johnson and Robert F. Krueger
9:00–9:15 am	15-Minute Break
9:15–10:15 am Studios A & B	Session 10—PLENARY <i>Genetics and Longevity</i> Speaker: Caleb Finch
10:15–10:30 am	15-Minute Break
10:30 am–12:30 pm Studios A & B	Session 11– PLENARY Symposium <i>Brain Imaging: Defining New Endophenotypes</i> Chair: C. Robert Almli <i>Magnetic resonance imaging and behavioral genetics: Structural and functional methods and analyses</i> C. Robert Almli <i>Imaging phenomics in neuropsychiatric syndromes</i> Robert M. Bilder and Tyrone Cannon <i>Functional magnetic resonance imaging in autism: Foundations and implications of cerebellar dysfunction</i> Greg Allen <i>Brain anatomy and brain spectroscopy in transpolygenic mice carrying extra copies of HSA21</i> Angèle Viola, Z. Seregaza, S. Confort-Gouny, P.J. Cozzone, and P.L. Roubertoux
12:30–2:00 pm	Lunch

**2:00–4:00 pm
Studios A & B**

**Session 12–Symposium
*Genetics of Exercise Ability and Exercise Behavior***

Chair: Danielle Posthuma
Discussant: Eco De Geus

Genetics of exercise ability and exercise behavior
Eco de Geus and Danielle Posthuma

Longitudinal Study of Leisure Physical Activity in Twins from Age 6 to Young Adulthood
Jaakko Kaprio, Urho Kujala, Richard J. Viken, and Richard J. Rose

Heritability of exercise participation and the amount of weekly energy expended in exercise
Janine H. Stubbe, Jacqueline M. Vink, Dorret I. Boomsma, and Eco J.C. de Geus

Heritability of physical fitness in the Leuven Longitudinal Twin Study. Strength development during adolescent growth: Application of maturity-aligned longitudinal analyses and covariation in latent structured growth curves
Maarten W. Peeters, Martine A. Thomis, Hermine H.M. Maes, Ruth J.F. Loos, Albrecht L. Claessens, Robert Vlietinck, and Gaston P. Beunen

The HERITAGE family study: Individual differences in exercise training response
Tuomo Rankinen

Discussion
Discussant: Eco De Geus

**2:00–4:00 pm
Studio C**

Session 13–Papers: Cognition

2:00 pm

Genotype-environment interaction in adolescents' cognitive ability.
K. Paige Harden, Eric Turkheimer, and John C. Loehlin

2:15 pm

Genetic and environmental influences on intraindividual variability in reaction time
Deborah Finkel and Matt McGue

2:30 pm

SNPs, microarrays, and pooled DNA: Identification of four loci associated with mild mental impairment in a sample of 6000 children
Lee M Butcher, Emma Meaburn, Jo Knight, Pak C. Sham, Leonard C. Schalkwyk, Ian W. Craig, and R. Plomin

2:45 pm

Gene finding for intelligence
D. Posthuma, F. Gosso, M. Luciano, E.J.C. de Geus, M.J. Wright, G.W. Montgomery, M. van Belzen, P. Heutink, P.E. Slagboom, D.I. Boomsma, and N.G. Martin

3:15 pm

Twin/singleton differences in intelligence? A Danish nation-wide population-based register study of test scores and classroom assessments
Kaare Christensen, Inge Petersen, Anne-Maria Herskind, and Paul Bingley

4:00–4:15 pm

15-Minute Break

Poster Session II

- 1 *The Heritability of Frontal EEG Asymmetry During Resting and Emotion States*
James A. Coan, Richard J. Davidson, H. Hill Goldsmith, Corrina Frye, Robin Locke, and Zachary Zugin
- 2 *State Changes in Child Frontal EEG Asymmetry during the Laboratory Temperament Assessment Battery (Lab-Tab)*
James A. Coan, Richard J. Davidson, H. Hill Goldsmith, Corrina Frye, Robin Locke, and Zachary Zugin
- 3 *Apolipoprotein E and brain development in healthy children*
Kristin N. Taylor, A. Blythe Rose, Liv S. Clasen, Jonathan A. Blumenthal, Rhoshel Lenroot, Gregory L. Wallace, Amanda J. Myers, John Hardy, and Jay N. Giedd
- 4 *Heritability of child and adolescent brain morphometry*
Sarah J. Ordaz, Michael A. Rosenthal, Liv S. Clasen, Jonathan A. Blumenthal, Rhoshel Lenroot, Gregory L. Wallace, J. Eric Schmitt, Michael C. Neale, Kenneth S. Kendler, and Jay N. Giedd
- 5 *A twin study investigating the genetic architecture of autistic traits in middle childhood: Evidence for genetic heterogeneity*
A. Ronald, F. Happé, P. Bolton, L. M. Butcher, T. S. Price, S. Baron-Cohen, and R. Plomin
- 6 *Heritability of personality dimensions from Junior Temperament and Character Inventory*
Joshua D. Isen and Laura A. Baker
- 7 *Assessing Executive Function and Antisocial Behavior in Children: A Twin Study*
Serena Bezdjian, Laura A. Baker, and Adrian Raine
- 8 *Peer Influence on Adolescent Risk Behaviors: A Behavioral Genetic Approach*
Jennifer E. Hill, Derek C. Ford, Robert E. Emery, Eric Turkheimer, Paige Harden, and Jane Mendle
- 9 *Protective and risk factors in the development of antisocial behavior*
LaTanya A. Carter, S. Alexandra Burt, and Matt McGue
- 10 *Pubertal timing and antisocial behavior in early and late adolescence: A longitudinal twin study*
Catherine Tuvblad, Martin Grann, Jerzy Sarnecki, and Paul Lichtenstein
- 11 *Comparing Mother and Self-Report of Child Internalizing Symptoms: Are Children Better Reporters?*
Lisa A. Doelger and Kathryn S. Lemery
- 12 *The Role of Monamine Oxidase-A and Childhood Adversity as Risk Factors for Conduct Disorder in Adolescent Females*
Elizabeth C. Prom, Debra L. Foley, Brien P. Riley, Brandon K. Wormley, Lindon J. Eaves, and Judy L. Silberg
- 13 *Case-Control Association Study of DAT- and Conduct Disorder in Adolescents*
R. Jay Schulz-Heik, Sarah Maentz, Soo Hyun Rhee, Susan E. Young, Michael C. Stallings, David Timberlake, Andrew Smolen, Gary Stetler, and Thomas J. Crowley
- 14 *Genetic influences on behavior and emotional problems in Russian adolescents: A twin study using multi-informant data*
Elena D. Gindina, Sergei B. Malykh, and Marina M. Lobaskova

- 15 *Early physical maturation, romantic relationships and adolescent problem behavior*
Jane Mendle, Eric Turkheimer, Robert E. Emery, and Derek C. Ford
- 16 *Aggression as a Mediator of Genetic Contributions to the Association between Negative Parent-Child Relationships and Adolescent Antisocial Behavior*
Jurgita Narusyte, Anna-Karin Andershed, and Paul Lichtenstein
- 17 *Characterizing behavioral traits in 11 and 14 year-olds using teacher ratings: A longitudinal approach*
Jacob P. Buchanan, W.G. Iacono, and M. K. McGue
- 18 *Gene-environment correlations in peer selection as related to adolescent antisocial behavior: A molecular genetic pilot study*
S. Alexandra Burt
- 19 *Is the comorbidity between substance use disorders explained by Conduct Disorder?*
Tanya M.M. Button, Soo Hyun Rhee, John Hewitt, Susan Young, and Michael C. Stallings
- 20 *Social risk factors in childhood externalizing behavior problems: Understanding differences within and between ethnic groups in a community sample of twins*
Ninive Sanchez, Laura A. Baker, and Adrian Raine
- 21 *Genetic, Environmental, and Personality Factors Contributing to Positive Alcohol Expectancies in Early Adolescent Twins*
Alice P. Villatoro, Laura A. Baker, and Adrian Raine
- 22 *Are the Environments of Adopted Adolescents Low Risk: Evidence from the Sibling Interaction and Behavior Study*
Matt McGue, Wendy Johnson, Margaret A. Keyes, Anu Sharma and W.G. Iacono
- 23 *The Heritability of Religiousness in Adolescent Adoptees*
Laura B. Koenig, Matt McGue and William G. Iacono
- 24 *A twin study of Alcohol Use and School-Related Factors*
Kate J. Lifford, Katherine H. Shelton, Anita Thapar, and Marianne B.M. van den Bree
- 25 *Young motherhood and offspring outcomes in the children of twins*
Stacy Lynch, Eric Turkheimer, K. Paige Harden, and Robert E. Emery
- 26 *Modeling rater differences in ADHD: Are parents and teachers observing the same phenotype?*
Christie Hartman, Soo Rhee, Erik Willcutt, and Bruce Pennington
- 27 *Familial Transmission of Antisocial Behavior: The Moderating Role of Father Participation in Child Rearing*
Ryan W. Herndon, W.G. Iacono, and Matt McGue
- 28 *Genetic and environmental influences on height during childhood in a sample of South Korean twin families*
Yoon-Mi Hur
- 29 *Sex differences in bivariate heritability for relational aggression and delinquency in twin pairs*
Rebecca A. Gaffney-Brown, Erik G. Willcutt, Bruce F. Pennington, and John C. DeFries
- 30 *Distributional properties of speech fluency in adults who do and do not stutter*
Susan Felsenfeld, Thomas Kubarych, Nicholas G. Martin, and Michael C. Neale

Saturday July 2

8:30–10:00 am
Studios A & B

Session 14–Papers: Advances in Statistical Modeling PLENARY

Chair: Chandra Reynolds

8:30 am

Mixed-Effects Variance Components Models for Biometric Family and Longitudinal Analyses

John J. McArdle and Carol A. Prescott

8:50 am

Advances in Behavioral Genetics Modeling Using Mplus

Tihomir Asparouhov and Bengt Muthen

9:10 am

Finite mixture distribution models for latent GxG, GxC and GxE interaction

Michael C. Neale and Nathan Gillespie

9:30 am

SASPairs Interactive: Genetic model fitting using a point-and-click interface in SAS (and SPSS)

Gregory Carey

9:50 am

General Discussion

10:00–10:30

30-Minute Break

10:30 am–12:30 pm
Studios A & B

Session 15–Symposium **Cognitive, Psychophysiological, and Personality Endophenotypes for Genetic Studies of Child Psychopathology**

Co-Chairs: Irwin D. Waldman and Robert Krueger

Discussant: Robert Krueger

Are personality traits endophenotypes for antisocial behavior?

Laura A. Baker, Joshua Isen, Serena Bezdjian, and Adrian Raine

Genetic and Environmental Influences on the Covariation of Negative Emotionality and Internalizing Symptoms in Children

Amber L. Singh and Irwin D. Waldman

Endophenotypes for Molecular Genetic Studies of ADHD: Genetic Association Analyses Utilizing Alternative Continuous Performance Task Error Indices

Ian R. Gizer and Irwin D. Waldman

Genetic Mediation of the Relationship between Arousal and Antisocial Behavior in Pre-Adolescent Twins

Kristen C. Jacobson, Laura A. Baker, Allison Zumberge, Dora Lozano, and Adrian Raine

Testing for Genetic Dissociation between Two Dopamine Genes and Measures of Executive Functions Relevant to ADHD

Irwin D. Waldman and Ian R. Gizer

Discussion

Discussion Leader: Robert Krueger

10:30 am –12:30 pm
Studio C

Session 16–Papers: Psychopathology

10:30 am

Physical Disability and Late-Life Depression: Main and Interactive Effects
Matt McGue & Kaare Christensen

10:45 am

Relative associations of trauma and genetic effects with panic-depression comorbidity versus single disorders in a twin sample over time

Vivia V. McCutcheon, Andrew C. Heath, Elliot C. Nelson, Kathleen K. Bucholz, Pamela A.F. Madden, and Nicholas G. Martin

- 11:00 am *Are specific deficits useful for endophenotype-gene relationships? An empirical test using context processing and COMT*
Angus W. MacDonald, III, Cameron S. Carter, Janine D. Flory, Robert E. Ferrell, and Stephen B. Manuck
- 11:15 am *Schizophrenia and bipolar disorder share a common genetic etiology: A study of 1 million first and second degree relatives in Swedish*
Paul Lichtenstein, Ben Yip, Camilla Björk, Yudi Pawitan, and Christina Hultman
- 11:30 am *Genetic association tests of RGS genes on chromosome q for depression and correlated traits in The Netherlands Twin-family Study of Anxious Depression (NETSAD)*
D.I. Boomsma, A.L. Beem, G. Willemsen, J.J. Hottenga, E.J.C. de Geus, C.M. Middeldorp, P. Sullivan, E. Suchiman, N. Lakenberg, and P.E. Slagboom
- 11:45 am *Alcoholism and externalizing disorders: Comorbidity mediated via intrauterine exposure*
Valerie S. Knopik, Richard D. Todd, Pamela A.F. Madden, Kathleen K. Bucholz, and Andrew C. Heath
- 12:00 pm *Genotype-Environment Correlation In Fathering and Mothering: Comparing Child-Based and Parent-Based Designs*
Jenae M. Neiderhiser and Paul Lichtenstein
- 12:15 pm *Personality and the Genetic Risk for Comorbid Internalizing and Externalizing Behavior in Adolescents*
Victoria E. Cosgrove, Soo Hyun Rhee, Marissa A. Ehringer, Susan E. Young, Robin C. Corley, and John K. Hewitt
- 12:30–1:30 **Lunch** (1 hour only)
- 1:30–2:30 pm**
Studios A & B
- Session 17–Papers: ADHD, Birthweight, and Morningness-Eveningness**
- 1:30 pm *Are genetic and environmental influences on birth weight similar between Caucasians and East Asians? A comparison of child and adolescent twin samples from Australia, China, South Korea, the Netherlands and the United States*
Yoon-Mi Hur, C.E.M. van Beijsterveldt, D.I. Boomsma, T. Chen, W.G. Iacono, C. Ji, J.K. Jun, M. Luciano, N.G. Martin, and M. McGue
- 1:45 pm *A parent-report approach to the genetics of the relationship between ADHD and reading problems*
David Hay, Neilson Martin, Kellie Bennett, Jan Piek, Florence Levy, and Abdullah Sheikhi
- 2:00 pm *Is the combination of ADHD and conduct problems a genetically influenced risk factor for psychopathic personality traits?*
Henrik Larsson, Henrik Andershed, and Paul Lichtenstein
- 2:15 pm *A cross-sectional examination of morningness-eveningness in a sample of South Korean twins*
Yoon-Mi Hur
- 1:30–2:30 pm**
Studio C
- Session 18–Papers: Inhibition, Aggression, and Imitation**
- 1:30 pm *A behavioral genetic analysis of inhibitory control at 24 months of age*
Jeffrey R. Gagne and Kimberly J. Saudino
- 1:45 pm *Genetic and neuropsychological bases of proactive and reactive aggression*
James Dent, David Hay, Kellie Bennett, Neilson Martin, Jan Piek, and Florence Levy

2:00 pm	<i>Genetic and environmental mechanisms underlying stability in childhood withdrawn behavior</i> Rosa A. Hoekstra, M. Bartels, J.J. Hudziak, C.E.M. van Beijsterveldt, and D.I. Boomsma
2:15 pm	<i>Investigating individual differences in imitative performance at age two: A twin study</i> Susan K. Fenstermacher and Kimberly J. Saudino
2:30–3:30 pm Studios D & E	Annual Business Meeting
3:30–4:30 pm Hancock Park Room	Executive Committee Meeting
6:00–10:00 pm Grand Ballroom, Salon 1	Banquet 6:00 pm cocktails, followed by dinner

