**Madeline H. Meier**

Department of Psychology, Arizona State University

Email: [Madeline.Meier@asu.edu](mailto:Madeline.Meier@asu.edu)

Website: www.madelinemeier.com

**Employment**

2013-present **Assistant Professor of Psychology**, College of Liberal Arts and Sciences, Honors Faculty, Arizona State University

**Education**

2010-13 **Postdoctoral Research Associate**, Department of Psychology and Neuroscience, Duke Transdisciplinary Prevention Research Center, Duke University

2010 **Doctor of Philosophy** (Clinical Psychology), University of Missouri

2009-10 **Pre-doctoral Clinical Internship**, Durham Veterans Affairs Medical Center (APA accredited)

2004 **Master of Arts Degree** (Clinical Psychology), University of Missouri

2001 **Bachelor of Arts Degree**, University of Virginia, Charlottesville, VA

**Peer-Reviewed Publications**

\*Doctoral student co-author

\*\*Undergraduate student co-author

**2016**

**Meier, M.H.,** \*Hill, M.L., & Breitborde, N.J.K. (in press). Retinal Imaging: A new tool for studying underlying liability to cardiovascular disease in schizophrenia. *Current Psychiatry Reviews.*

Breitborde, N.J.K. & **Meier, M.H.** (in press). Cognition in first-episode psychosis: from phenomenology to intervention. *Current Psychiatry Reviews.*

**Meier, M.H.**, Caspi, A., Cerdá, M., Hancox, R.J., Harrington, H.L., Houts, R., Poulton, R., Ramrakha, S., Thomson, W.M., & Moffitt, T.E. (2016). Associations between cannabis use and physical health problems in early midlife: A longitudinal comparison of persistent cannabis versus tobacco users. *JAMA Psychiatry.*

**Meier, M.H.**,Hall, W., Caspi, A., Belsky, W., Cerdá, M., Harrington, H.L., Houts, R., Poulton, R., & Moffitt, T.E. (2016). Which adolescents develop persistent substance dependence in adulthood? Using population-representative longitudinal data to inform universal risk assessment. *Psychological Medicine, 46*, 877-889.

Volkow, N.D., Swanson, J.M., Evins, A.E., DeLisi, L.E., **Meier, M.H.,** Gonzalez, R., Bloomfield, M.A., Curran, H.V., Baler, R. (2016). Effects of cannabis use on human behavior, including cognition, motivation, and psychosis: A review. *JAMA Psychiatry, 73,* 292-297.

Cerdá, M., Moffitt, T.E., **Meier, M.H.,** Harrington, H.L., Houts, R., Ramrakha, S., Hogan, S., Poulton, R., & Caspi, A. (in press). Persistent cannabis dependence and alcohol dependence represent risks for midlife economic and social problems: A longitudinal cohort study. *Clinical Psychological Science*.

**2015**

**Meier, M.H.,** \*Hill, M.L., \*Small, P.S., & Luthar, S.S. (2015). Associations of adolescent cannabis use with academic performance and mental health: A longitudinal study of upper middle class youth. *Drug and Alcohol Dependence, 156*, 207-212*.*

**Meier, M.H.,** Gillespie, N.A., Hansell, N.K., Hewitt, A.W., Hickie, I.B., Lu, Y., MacGregor, S., McGrath, J., Medland, S.E., Sun, C., Wong, T.Y., Wright, M., Zhu, G., Martin, N.G., & Mackey, D.A. (2015). Retinal microvessels reflect familial vulnerability to psychotic symptoms: A comparison of twins discordant for psychotic symptoms and controls. *Schizophrenia Research, 164,* 47-52.

Moffitt, T.E., Houts, R., Asherson, P., Belsky, D.W., Corcoran, D.L., Hammerle, M., Harrington, H.L., Hogan, S., **Meier, M.H.**, Polanczyk, G.V., Poulton, R., Ramrakha, S., Rohde, L.A., Sugden, K., Williams, B., & Caspi, A. (2015). Is adult ADHD a childhood-onset neurodevelopmental disorder? A 4-decade longitudinal cohort study. *American Journal of Psychiatry, 172,* 967-977.

**2014**

**Meier, M.H.,** Gillespie, N.A., Hansell, N.K., Hewitt, A.W., Hickie, I.B., Lu, Y., MacGregor, S., Medland, S.E., Sun, C., Wong, T.Y., Wright, M., Zhu, G., Martin, N.G., & Mackey, D.A. (2014). Associations between depression/anxiety symptoms and retinal vessel caliber in adolescents and young adults. *Psychosomatic Medicine, 76,* 732-738*.*

**Meier, M.H.**, Moffitt, T.E., Caspi, A., & Poulton, R. (2014). Reply to Bora: Cognitive deficits in schizophrenia follow a neurodevelopmental and neurodegenerative course. *American Journal of Psychiatry, 171,* 369-370.

**Meier, M.H.**, Caspi, A., Reichenberg, A., Keefe, R.S.E, Fisher, H.L., Harrington, H.L., Houts, R., Poulton, R., & Moffitt, T.E. (2014). Neuropsychological decline in schizophrenia from the premorbid to post-onset period: Evidence from a population-representative longitudinal study. *American Journal of Psychiatry, 171,* 91-101*.*

Caspi, A., Houts, R., Belsky, D.W., Goldman-Mellor, S., Harrington, H.L., Israel, S., **Meier, M.H.**, Ramrakha, S., Shalev, I., Poulton, R., & Moffitt, T.E. (2014). The ‘p factor’: One general psychopathology factor in the structure of psychiatric disorders? *Clinical Psychological Science, 2,* 119-137.

**2013**

**Meier, M.H.a**, Shalev, I.a, Moffitt, T.E., Kapur, S., Keefe, R.S.E., Wong, T.Y., Belsky, D.W., Harrington, H.L., Hogan, S., Houts, R., Caspi, A., & Poulton, R. (2013). Microvascular abnormality in schizophrenia as shown by retinal imaging. *American Journal of Psychiatry, 170,* 1451-1459. aJoint first authors.

**Meier, M.H.**, Caspi, A., Houts, R., Slutske, W., Harrington, H.L., Jackson, K., Belsky, D., Poulton, R., & Moffitt, T.E. (2013). Prospective developmental subtypes of alcohol dependence from age 18 to 32 years: Implications for nosology, etiology, and intervention. *Development and Psychopathology, 25,* 785-800.

Belsky, D.W., Caspi, A., Goldman-Mellor, S., **Meier, M.H.,** Poulton, R., & Moffitt, T.E. (2013). Is obesity associated with a decline in intelligence quotient during the first half of the life course? *American Journal of Epidemiology, 178,* 1461-1468.

Belsky, D.W., Moffitt, T.E., Baker, T.B., Biddle, A.K., Evans, J.P., Harrington H.L., Houts, R., **Meier, M.H.**, Sugden, K., Williams, B., Poulton, R., & Caspi, A. (2013). Polygenic risk accelerates the developmental progression to heavy, persistent smoking and nicotine dependence: Evidence from a 4-Decade Longitudinal Study. *JAMA Psychiatry, 70,* 534-542.

Shalev, I., Moffitt, T.E., Wong, T.Y., **Meier, M.H.**, Ding, J., Cheung, C.Y., Ikram, K.M., Houts, R., Caspi, A., & Poulton, R. (2013). Retinal vessel caliber and lifelong neuropsychological functioning: An investigative tool for cognitive epidemiology. *Psychological Science*, *24*, 1198-1207.

Fisher, H.L., Caspi, A., Poulton, R., **Meier, M.H.,** Houts, R., Harrington, H.L., Arseneault, L., & Moffitt, T. (2013). Specificity of childhood psychotic symptoms for predicting schizophrenia by 38 years of age: A birth cohort study. *Psychological Medicine, 43,* 2077-2086.

Moffitt, T.E., **Meier, M.H.**, Caspi, A., & Poulton, R. (2013). Reply to Rogeberg and Daly: No evidence that socioeconomic status or personality differences confound the association between cannabis use and IQ-decline. *Proceedings of the National Academy of Sciences, 110,* E980-E982.

**2012**

**Meier, M.H.,** Caspi, A., Ambler, A., Harrington, H.L., Houts, R., Keefe, R.S.E., McDonald, K., Ward, A., Poulton, R., & Moffitt, T.E. (2012). Persistent cannabis users show neuropsychological decline from childhood to midlife. *Proceedings of the National Academy of Sciences*,109, 2657-2664.

**2011**

**Meier, M.H.**, Slutske, W.S., Heath, A.C., & Martin, N.G. (2011). Sex differences in the genetic and environmental influences on childhood conduct disorder and adult antisocial behavior. *Journal of Abnormal Psychology*, 120, 377-388.

Slutske, W.S., Zhu, G., **Meier, M.H.**, & Martin, N.G. (2011). Disordered gambling as defined by the Diagnostic and Statistical Manual of Mental Disorders and the South Oaks Gambling Screen: Evidence for a common etiologic structure. *Journal of Abnormal Psychology*,120, 743-751.

Slutske, W.S., *Bascom, E.N.*, **Meier, M.H.**, Medland, S.E., & Martin, N.G. (2011). Sensation seeking in females from opposite- versus same-sex twin pairs: Hormone transfer or sibling imitation? *Behavior Genetics,* 41, 533-542*.*

**2010**

Slutske, W.S., Zhu, G., **Meier, M.H.**, & Martin, N.G. (2010). Genetic and environmental influences on disordered gambling in men and women. *Archives of General Psychiatry, 67,* 624-630.

**2009**

**Meier, M.H.**, Slutske, W.S., Heath, A.C., & Martin, N.G. (2009). The role of harsh discipline in explaining sex differences in conduct disorder: A study of opposite-sex twin pairs. *Journal of Abnormal Child Psychology, 37,* 653-664.

Slutske, W.S., **Meier, M.H.**, Zhu, G., Statham, D.J., Blaszczynski, A., & Martin, N.G. (2009). The Australian twin study of gambling (OZ-GAM): Rationale, sample description, predictors of participation, and a first look at sources of individual differences in gambling involvement. *Twin Research and Human Genetics, 12,* 63-78.

**2008**

**Meier, M.H.**, Slutske, W.S., Arndt, S., & Cadoret, R.J. (2008). Impulsive and callous traits are more strongly associated with delinquent behavior in higher risk neighborhoods among boys and girls. *Journal of Abnormal Psychology, 117,* 377-385.

**2007**

**Meier, M.H.**, Slutske, W.S., Arndt, S., & Cadoret, R.J. (2007). Positive alcohol expectancies partially mediate the relation between delinquent behavior and alcohol use: Generalizability across age, sex, and race in a cohort of 85,000 Iowa schoolchildren. *Psychology of Addictive Behaviors, 21,* 25-34.

**Manuscripts Under Review**

Meier, M.A., & **Meier, M.H.** (under review). Bridging the gap between research and practice: a transdiagnostic group treatment for community mental health.

\*Jones, C.B.,\* Hill, M.L., Pardini, D., **Meier, M.H.** (under review). Prevalence and correlates of vaping cannabis in a sample of young adults.

**Manuscripts In Preparation**

**Meier, M.H.**, Caspi, A., Arseneault, L., & Moffitt, T.E. (in preparation). Do adolescent cannabis users show neuropsychological decline? A longitudinal, cotwin-control analysis.

**Meier, M.H.,** \*\*Lynch, E., & \*Hill, M.L. (in preparation). Everyday functioning in individuals with psychotic-like experiences: information gleaned from friends and family.

\*Hill, M.L., **Meier, M.H.**, & Luthar, S.S. (in preparation). Associations between poor sleep and mental illness: Evidence from a prospective, longitudinal study.

**Meier, M.H., \*\***Carbajal, L., \*Jones, C.B., \*Hill, M.L. & Brewer, G.A. (in preparation). Attention and memory problems in everyday life among young adult cannabis users.

**Sponsored Research**

**Under Review**

2017-2022 **Principal Investigator:** “Optimizing Screening to Identify Youth at Risk for Chronic Substance Use Problems.” National Institute on Drug Abuse R01, $1,951,435 total direct costs.

2017-2022 **Co-Principal Investigator: “**Trait and State ECF Deficits Under Alcohol: Developmental Paths to Alcohol Misuse.” National Institute on Alcohol Abuse and Alcoholism R01.

**Awarded**

2016-2019 **Mentor** (Recipient: Doctoral Student Melanie L. Hill): National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Fellowship, $138,000 total direct costs

2015 **Principal Investigator:** “Cannabis Use Among Older Adults.” Institute for Social Science Research, Arizona State University Seed Grant, $4,000 total direct costs.

2012 **Co-Principal Investigator: “**Do Smoking-associated Genetic Variants Underlie a Spectrum of Externalizing Behavior?” National Institute on Drug Abuse, Duke Transdisciplinary Prevention Research Center Seed Grant, $3,733 total direct costs.

2007-09 **Principal Investigator:** “Sex Differences in Antisocial Behavior.” National Institute of Mental Health, Ruth L. Kirschstein Individual National Research Service Award, $60,139 total direct costs.

**Not Awarded**

2015-20 **Principal Investigator**: “Longitudinal Follow-Up of Suburban Youth: Risks for and Consequences of Substance Use.” National Institute on Drug Abuse R01, $1,388,756 total direct costs.

2015-17 **Principal Investigator**: “Retinal Imaging: A Tool for Investigating Microvascular Abnormality in Individuals at Risk for Schizophrenia.” Brain and Behavior Research Foundation, NARSAD Young Investigator, $60,000 total direct costs.

2014-16 **Co-Investigator**: “Genetic Epidemiology of Life-Course Persistent Substance Use Disorder.” National Institute on Drug Abuse R21, $88,045 subcontract.

**Honors and Awards**

2015 Rising Star Designation, Association for Psychological Science

2014 Competitive Travel Award, American Psychopathological Association Annual Meeting, Awarded by the American Psychopathological Association

2012 Enoch Gordis Award, Research Society on Alcoholism Annual Meeting, Awarded by the Research Society on Alcoholism

2012 Competitive Junior Investigator Award, Research Society on Alcoholism Annual Meeting, Awarded by the Research Society on Alcoholism

2010 Competitive Student Travel Award, American Psychopathological Association Annual Meeting, Awarded by the American Psychopathological Association

2007 Mark H. Thelen Outstanding Clinical Graduate Student Award, Awarded by the University of Missouri Department of Psychological Sciences

2005 Summer Grant Writing Fellowship, Awarded by the University of Missouri Department of Psychological Sciences

2002 Academic Fellowship, Awarded by the University of Missouri Department of Psychological Sciences

2001 Phi Beta Kappa, University of Virginia

**Invited Presentations**

**Meier, M.H.,** Caspi, A., Poulton, R., & Moffitt, T.E. Cannabis use and cognitive impairment. NIH Summit on Marijuana and Cannabinoids. March 2016: Bethesda, MD.

**Meier, M.H.,** Cerdá, M, Caspi, A., & Moffitt, T.E. Persistent cannabis use and its associations with cognitive functioning, physical health, and social and economic functioning in early midlife. Mayo Clinic. February 2016: Scottsdale, AZ.

**Meier, M.H.** Retinal microvessels reveal familial vulnerability to psychosis symptoms. Phoenix VA Health Care System. April 2015: Phoenix, AZ.

**Meier, M.H.,** Moffitt, T.E., & Caspi, A. Persistent cannabis users show neuropsychological decline from childhood to midlife. Fourth World Forum Against Drugs. May 2014: Stockholm, Sweden.

**Meier, M.H.,** Moffitt, T.E., & Caspi, A. Adolescent-onset cannabis users show IQ decline from childhood to midlife. California Society of Addiction Medicine. October 2013: San Diego, CA.

**Meier, M.H.,** Moffitt, T.E., & Caspi, A. Microvascular abnormality in schizophrenia as shown by retinal imaging. QIMR Berghofer Medical Research Institute. August 2013: Brisbane, Australia.

**Conference Presentations**

Small, P. J., **Meier, M. H.**, Infurna, F. J., & Luthar, S. S. (2016, May). *Affluent youth in emerging adulthood: Elevated substance use relative to norms*. Poster presented at the 28th Annual Meeting of the Association for Psychological Science, Chicago, IL.

**Meier, M.H.,** Moffitt, T.E., & Caspi, A. (2014, December). *Persistent cannabis users show neuropsychological decline from childhood to midlife.* Talk given as part of a study group at the American College of Neuropsychopharmacology Annual Meeting. Phoenix, Arizona.

**Meier, M.H.**, Moffitt, T.E., & Caspi, A. (2014, October). *Persistent cannabis users show neuropsychological decline from childhood to midlife.* Talk given as part of a symposium at the American Academy of Child and Adolescent Psychiatry Annual Meeting. San Diego, CA.

**Meier, M.H.,** Hall, W., Caspi, A., Moffitt, T.E. (2014, March). *How accurately can childhood and adolescent risk factors predict persistent substance dependence in adulthood?* Poster presented at the annual meeting of the American Psychopathological Association. New York, New York.

**Meier, M.H.,** Moffitt, T.E., & Caspi, A. (2013, April). *Adolescent-onset cannabis users show IQ decline from childhood to midlife.* Talk given as part of a symposium at the biennial meeting of the International Congress on Schizophrenia Research. Orlando, FL.

**Meier, M.H.,** Caspi, A., & Moffitt, T.E. (2012, June). *Prospective developmental subtypes of alcohol dependence from age 18 to 32 years: Implications for nosology, etiology, and intervention.* Paper and poster presented at the 35th annual meeting of the Research Society on Alcoholism. San Francisco, CA. *Enoch Gordis Award winner.*

**Meier, M.H.,** Slutske, W.S., Heath, A.C., & Martin, N.G. (March, 2010). *Sex differences in the genetic and environmental influences on antisocial behavior across development.* Poster presented at the 100th Annual meeting of the American Psychopathological Association. New York, New York.

**Meier, M.H.,** Slutske, W.S., & Cadoret, R.J. (June, 2005). *Positive alcohol expectancies partially mediate the relation between delinquent behavior and alcohol use: Generalizability across age, sex, and race in a cohort of 85,000 Iowa schoolchildren.* Poster presented at the 28th annual meeting of the Research Society on Alcoholism. Santa Barbara, CA.

**Meier, M.H.,** Slutske, W.S., Bucholz, K.K., Madden, P.A.F., & Heath, A.C. (June, 2004). *Disentangling genetic and environmental contributions to the association between oppositional defiant disorder symptoms and alcohol problems.* Poster presented at the 27th annual meeting of the Research Society on Alcoholism. Vancouver, B.C.

**Meier, M.H.,** Slutske, W.S., Bucholz, K.K., Madden, P.A.F., & Heath, A.C. (June, 2003).

*The persistence of oppositional defiant disorder and the risk for alcohol problems in a community sample of adolescent female twins.* Poster presented at the 26th annual meeting of the Research Society on Alcoholism. Fort Lauderdale, FL.

**Teaching Experience**

**Arizona State University, Department of Psychology**

PSY 366: Abnormal Psychology, Fall 2013, Fall 2014, Spring 2015, Fall 2015

PSY 394: Substance Abuse Overview, Fall 2014

PSY 591: Psychology of Addictions, Spring 2014, Spring 2016

**Mentoring**

**Master’s Thesis, Comprehensive Exam, and Doctoral Dissertation Committees**

Chair

|  |  |
| --- | --- |
| Melanie Hill | Master’s Thesis (Proposed 2015) |

Committee Member

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| Holly O’Rourke | Dissertation (Completed 2016) |
| Mariam Hanna | Comprehensive Exam (Completed 2016) |
| Phil Small | Master’s Thesis (Completed 2015) |
| Holly O’Rourke | Comprehensive Exam (Competed 2015) |
| Meghan Lally | Dissertation (Proposed 2015) |
| Kyle Menary | Comprehensive Exam (Completed 2015) |
| Phil Small | Master’s Thesis (Proposed 2014) |
| Kyle Menary | Master’s Thesis (Completed 2014) |
| Holly O’Rourke | Comprehensive Exam (Proposed 2014) |

**Undergraduate Honor’s Thesis**

Chair

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| --- | --- |
| Makita White (2016) |  |
| Lucia Carbajal (2016) |  |
| Katherine Gandee (2016) |  |
| Emily Lynch (2015) |  |

Committee Member

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| --- | --- |
| Elizabeth Perry (2015) |  |
| Emma Lauer (2014) |  |

**Undergraduate Research Assistants**

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| Mitchell Durbin (2015) | Michael Galibov (2015) |
| Samantha Bean (2015) | Autumn Breutzmann (2015) |
| Stephany Torres (2015) | Michellene Szarwark (2014-15) |
| Tomisin Williams (2015) | Carly Fox (2014-15) |
| Lucas Lawson (2015) | Katie Glauner (2014-15) |
| Makita White (2015) | Derek Hurtado (2014-15) |
| Trevor Bratton (2015) | Emily Lynch (2014-15) |
| Kira Gomez (2015) | Olivia Mandile (2014-15) |
| Katherine Gandee (2015) | Lauren Mehok (2014) |
| Lucia Carbajal (2014-15) | Angela Gallegos (2014) |
| Aundrea DeGravina (2014-15) | Nicholas Fraga (2014-15) |
| Margaret Rich (2014-15) | Dustin Howard (2014) |

**Honor’s Contracts**

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| --- | --- |
| Lennie To (2015) |  |
| Steven Granger (2014) |  |
| Katherine Zwickl (2013) |  |

**Other Mentorship**

James Rodis, ASU undergraduate, 2013

This was a student in my Psy 366 course whom I advised about, and recommended for, graduate school. Accepted to Graduate School Fall 2015: Arizona State University Counseling and Counseling Psychology; $10,000 Graduate Education Fellowship

Lauren Loges, ASU undergraduate, 2013.

Provided mentorship for undergraduate project on the health risks of caffeine.

Yosemi Mendoza, ASU undergraduate, 2013-2015.

Mentor for ASU Upward Bound program.

**Student Awards**

**2016**

Melanie Hill (Doctoral Student): Recipient of the National Science Foundation Graduate Research Fellowship

**2015**

Emily Lynch (Undergraduate Student): $1,700 Zita M. Johnson Child Study Scholarship from ASU Psychology

Aundrea DeGravina (Undergraduate Student): $1,000 Psychology Scholar Award from ASU Psychology

**Service**

**Departmental and University Service**

Poster Reviewer for the Arizona Psychology Undergraduate Research Conference (2016)

Night of the Open Door (2016)

Clinical Psychology Internship Mock Interviews (2015)

Doctoral Admissions Committee (2015-16)

Job Search Interviewer: Behavioral Neuroscience, Computational Neuroscience, REACH, Criminology, and Counseling Psychology Searches (2014-2015)

Night of the Open Door (2015)

DoctoralAdmissions Committee (2014-15)

ASSIST Sun Devil Workshop (2014)

American English and Culture Program (2014)

Clinical Psychology Internship Mock Interviews (2014)

**Professional Service**

Ad-Hoc Journal Reviewer

Addiction, Addictive Behaviors, Alcoholism: Clinical and Experimental Research, American Journal of Preventive Medicine, American Journal of Psychiatry, American Journal on Addictions, Criminal Justice and Behavior, Drug and Alcohol Dependence, JAMA Psychiatry, Journal of Abnormal Psychology, Journal of Adolescent Health, Journal of Personality, Journal of Research in Personality, Journal of Studies on Alcohol and Drugs, Lancet Psychiatry, Molecular Psychiatry, Psychological Science, Schizophrenia Bulletin, Social Psychiatry and Psychiatric Epidemiology

**Community Service** (Talks given to public about cannabis use)

Marijuana Harmless? Think Again! Phoenix, AZ, 2015

Durham Academy High School, Durham, NC, 2013

Alice Aycock Poe Center for Health Education, Raleigh, NC, 2012

Brain Awareness Week, Duke Institute for Brain Sciences, Durham, NC, 2012

**Selected Media Coverage and Editorials**

“Chronic marijuana use is about as bad for your health as not flossing, researchers find” (2016). *Washington Post*. https://www.washingtonpost.com/news/wonk/wp/2016/06/02/chronic-marijuana-use-is-about-as-bad-for-your-health-as-not-flossing-researchers-find/

“Treating Depression Early May Protect the Heart,” by Tori Rodriguez. (2015). *Scientific American*. <http://www.scientificamerican.com/article/treating-depression-early-may-protect-the-heart/>

Comments by Irving Gottesman on Meier et al., “Retinal microvessels reflect familial vulnerability to psychotic symptoms: A comparison of twins discordant for psychotic symptoms and controls.” (2015). Schizophrenia Research Forum. Follow this link and click on “read more.” <http://www.schizophreniaforum.org/pap/annotation.asp?powID=185039#{00E5769B-1B75-437D-8891-C1172AE64EC5}>

“The Addiction Paradox,” by Bruce Bower. (2014). *Science News*. https://www.sciencenews.org/article/addiction-paradox

“Zeroing in on early cognitive development in schizophrenia,” by D. Dickinson. (2014). *American Journal of Psychiatry,* 171, 9-12.

“Looking schizophrenia in the eye,” by D. Malaspina. (2013). *American Journal of Psychiatry,* 170(12), 1382-1384.

“Forty-year Study Reveals Patterns of Cognitive Decline in Schizophrenia,” by A. A. Curley. (2013). Schizophrenia Research Forum. <http://www.schizophreniaforum.org/new/detailprint.asp?id=1950>

“Retinal Blood Vessels May Be Abnormal in Schizophrenia, Study Finds.” (2013). *Psychiatric News*. <http://alert.psychnews.org/search?updated-min=2013-01-01T00:00:00-05:00&updated-max=2014-01-01T00:00:00-05:00&max-results=50>

NIDA Notes: Researchers Speak – Dr. Madeline Meier on Marijuana and IQ. (2013). National Institute on Drug Abuse (NIDA/NIH). <http://www.drugabuse.gov/videos/nida-notes-researchers-speak-dr-madeline-meier-marijuana-iq>

“Teen Pot Use Linked to Later Declines in IQ,” by Malcom Ritter. (2012). *Associated Press*. http://news.yahoo.com/teen-pot-linked-later-declines-iq-192328332.html

“Drop in IQ Linked to Heavy Teenage Cannabis Use,” by Leigh Phillips. (2012). *Nature*. <http://www.nature.com/news/drop-in-iq-linked-to-heavy-teenage-cannabis-use-1.11278>