

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Afari N, Gasperi M, Forsberg CW, Goldberg J, Buchwald D, Krieger JN. Heritability of Lower Urinary Tract Symptoms in Men: A Twin Study. *J Urol*. 2016. doi: 10.1016/j.juro.2016.06.018.

Agrawal A, Scherrer JF, Grant JD, Sartor CE, Pergadia ML, Duncan AE, Madden PA, Haber JR, Jacob T, Bucholz KK, Xian H. The effects of maternal smoking during pregnancy on offspring outcomes. *Prev Med*. 2010;50(1-2):13-18. doi: 10.1016/j.ypmed.2009.12.009.

Agrawal A, Scherrer JF, Lynskey MT, Sartor CE, Grant JD, Haber JR, Madden PA, Jacob T, Bucholz KK, Xian H. Patterns of use, sequence of onsets and correlates of tobacco and cannabis. *Addict Behav*. 2011;36(12):1141-1147. doi: 10.1016/j.addbeh.2011.07.005.

Agrawal A, Scherrer JF, Pergadia ML, Lynskey MT, Madden PA, Sartor CE, Grant JD, Duncan AE, Haber JR, Jacob T, Bucholz KK, Xian H. A latent class analysis of DSM-IV and Fagerstrom (FTND) criteria for nicotine dependence. *Nicotine Tob Res*. 2011;13(10):972-981. doi: 10.1093/ntr/ntr105.

Beseler C, Jacobson KC, Kremen WS, Lyons MJ, Glatt SJ, Faraone SV, Gillespie NA, Tsuang MT. Is there heterogeneity among syndromes of substance use disorder for illicit drugs? *Addict Behav*. 2006;31(6):929-947. doi: 10.1016/j.addbeh.2006.03.037.

Blonigen DM, Burroughs T, Haber JR, Jacob T. Psychiatric Morbidity is Linked to Problem Drinking in Midlife Among Alcohol-Dependent Men: A Co-Twin Control Study. *J Stud Alcohol Drugs*. 2013;74(1):136-140. <http://www.ncbi.nlm.nih.gov/pubmed/23200159>.

Blonigen DMea. Socio-Contextual Factors Are Linked to Differences in the Course of Problem Drinking in Midlife: A Discordant-Twin Study. *The American Journal on Addictions*. 2015;XX:1-4. doi: 10.1111/ajad.12205.

Boscarino JA, Forsberg CW, Goldberg J. A twin study of the association between PTSD symptoms and rheumatoid arthritis. *Psychosom Med*. 2010;72(5):481-486. doi: 10.1097/PSY.0b013e3181d9a80c.

Bushnell T, Watson NF, Fischer ME, Goldberg J. Smoking and snoring in twins. *American Journal of Respiratory and Critical Care Medicine*. 2005;172(5):643-643. [www.ncbi.nlm.nih.gov/pubmed/16120719](http://www.ncbi.nlm.nih.gov/pubmed/16120719).

Capuron L, Su S, Miller AH, Bremner JD, Goldberg J, Vogt GJ, Maisano C, Jones L, Murrah NV, Vaccarino V. Depressive symptoms and metabolic syndrome: is inflammation the underlying link? *Biol Psychiatry*. 2008;64(10):896-900. doi: 10.1016/j.biopsych.2008.05.019.

Chantarujikapong SI, Scherrer JF, Xian H, Eisen SA, Lyons MJ, Goldberg J, Tsuang M, True WR. A twin study of generalized anxiety disorder symptoms, panic disorder symptoms and post-traumatic stress disorder in men. *Psychiatry Research*. 2001;103(2-3):133-145. <Go to ISI>://WOS:000171262200004.

Chen CH, Fiecas M, Gutierrez ED, Panizzon MS, Eyster LT, Vuoksima E, Thompson WK, Fennema-Notestine C, Hagler DJ, Jr., Jernigan TL, Neale MC, Franz CE, Lyons MJ, Fischl B, Tsuang MT, Dale AM, Kremen WS. Genetic topography of brain morphology. *Proc Natl Acad Sci U S A*. 2013;110(42):17089-17094. doi: 10.1073/pnas.1308091110.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Chen CH, Gutierrez ED, Thompson W, Panizzon MS, Jernigan TL, Eyer LT, Fennema-Notestine C, Jak AJ, Neale MC, Franz CE, Lyons MJ, Grant MD, Fischl B, Seidman LJ, Tsuang MT, Kremen WS, Dale AM. Hierarchical genetic organization of human cortical surface area. *Science*. 2012;335(6076):1634-1636. doi: 10.1126/science.1215330.

Chen CH, Panizzon MS, Eyer LT, Jernigan TL, Thompson W, Fennema-Notestine C, Jak AJ, Neale MC, Franz CE, Hamza S, Lyons MJ, Grant MD, Fischl B, Seidman LJ, Tsuang MT, Kremen WS, Dale AM. Genetic influences on cortical regionalization in the human brain. *Neuron*. 2011;72(4):537-544. doi: 10.1016/j.neuron.2011.08.021.

Cloonan YK, Holt VL, Goldberg J. Male factor infertility: a twin study. *Paediatr Perinat Epidemiol*. 2007;21(3):229-234. doi: 10.1111/j.1365-3016.2007.00808.x.

Coccaro EF, Bergeman CS, Kavoussi RJ, Seroczynski AD. Heritability of aggression and irritability: a twin study of the Buss-Durkee aggression scales in adult male subjects. *Biol Psychiatry*. 1997;41(3):273-284. <http://www.ncbi.nlm.nih.gov/pubmed/9024950>.

Coccaro EF, Ong AD, Seroczynski AD, Bergeman CS. Affective intensity and lability: heritability in adult male twins. *J Affect Disord*. 2012;136(3):1011-1016. doi: 10.1016/j.jad.2011.06.042.

Crider A, Kremen WS, Xian H, Jacobson KC, Waterman B, Eisen SA, Tsuang MT, Lyons MJ. Stability, consistency, and heritability of electrodermal response lability in middle-aged male twins. *Psychophysiology*. 2004;41(4):501-509. doi: 10.1111/j.1469-8986.2004.00189.x.

Cronin-Golomb A, Panizzon MS, Lyons MJ, Franz CE, Grant MD, Jacobson KC, Eisen SA, Laudate TM, Kremen WS. Genetic influence on contrast sensitivity in middle-aged male twins. *Vision Research*. 2007;47(16):2179-2186. doi: 10.1016/j.visres.2007.04.017.

Dai J, Jones DP, Goldberg J, Ziegler TR, Bostick RM, Wilson PW, Manatunga AK, Shallenberger L, Jones L, Vaccarino V. Association between adherence to the Mediterranean diet and oxidative stress. *American Journal of Clinical Nutrition*. 2008;88(5):1364-1370. doi: 10.3945/ajcn.2008.26528.

Dai J, Lampert R, Wilson PW, Goldberg J, Ziegler TR, Vaccarino V. Mediterranean dietary pattern is associated with improved cardiac autonomic function among middle-aged men: a twin study. *Circ Cardiovasc Qual Outcomes*. 2010;3(4):366-373. doi: 10.1161/CIRCOUTCOMES.109.905810.

Dai J, Miller AH, Bremner JD, Goldberg J, Jones L, Shallenberger L, Buckham R, Murrah NV, Veledar E, Wilson PW, Vaccarino V. Adherence to the Mediterranean diet is inversely associated with circulating interleukin-6 among middle-aged men. *Circulation*. 2008;117(2):169-175. doi: 10.1161/circulationaha.107.710699.

Dai J, Ziegler TR, Bostick RM, Manatunga AK, Jones DP, Goldberg J, Miller A, Vogt G, Wilson PW, Jones L, Shallenberger L, Vaccarino V. High habitual dietary alpha-linolenic acid intake is associated with decreased plasma soluble interleukin-6 receptor concentrations in male twins. *Am J Clin Nutr*. 2010;92(1):177-185. doi: 10.3945/ajcn.2010.29305.

Doane LD, Franz CE, Prom-Wormley E, Eaves LJ, Mendoza SP, Hellhammer DH, Lupien S, Xian H, Lyons MJ, Kremen W, Jacobson KC. Negative emotionality, depressive symptoms and cortisol diurnal

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

rhythms: analysis of a community sample of middle-aged males. *Horm Behav.* 2011;60(2):202-209. doi: 10.1016/j.yhbeh.2011.05.003.

Doane LD, Kremen WS, Eaves LJ, Eisen SA, Hauger R, Hellhammer D, Levine S, Lupien S, Lyons MJ, Mendoza S, Prom-Wormley E, Xian H, York TP, Franz CE, Jacobson KC. Associations between jet lag and cortisol diurnal rhythms after domestic travel. *Health Psychol.* 2010;29(2):117-123. doi: 10.1037/a0017865.

Docherty AR, Hagler DJ, Jr., Panizzon MS, Neale MC, Eyer LT, Fennema-Notestine C, Franz CE, Jak A, Lyons MJ, Rinker DA, Thompson WK, Tsuang MT, Dale AM, Kremen WS. Does degree of gyrification underlie the phenotypic and genetic associations between cortical surface area and cognitive ability? *Neuroimage.* 2015;106:154-160. doi: 10.1016/j.neuroimage.2014.11.040.

Docherty AR, Kremen WS, Panizzon MS, Prom-Wormley EC, Franz CE, Lyons MJ, Eaves LJ, Neale MC. Comparison of Twin and Extended Pedigree Designs for Obtaining Heritability Estimates. *Behav Genet.* 2015;45(4):461-466. doi: 10.1007/s10519-015-9720-z.

Docherty AR, Sawyers CK, Panizzon MS, Neale MC, Eyer LT, Fennema-Notestine C, Franz CE, Chen CH, McEvoy LK, Verhulst B, Tsuang MT, Kremen WS. Genetic network properties of the human cortex based on regional thickness and surface area measures. *Front Hum Neurosci.* 2015;9:440. doi: 10.3389/fnhum.2015.00440.

Duncan AE, Sartor CE, Scherrer JF, Grant JD, Heath AC, Nelson EC, Jacob T, Bucholz KK. The association between cannabis abuse and dependence and childhood physical and sexual abuse: evidence from an offspring of twins design. *Addiction.* 2008;103(6):990-997. doi: 10.1111/j.1360-0443.2008.02210.x.

Duncan AE, Scherrer J, Fu Q, Bucholz KK, Heath AC, True WR, Haber JR, Howell D, Jacob T. Exposure to paternal alcoholism does not predict development of alcohol-use disorders in offspring: Evidence from an offspring-of-twins study. *Journal of Studies on Alcohol.* 2006;67(5):649-656. [www.ncbi.nlm.nih.gov/pubmed/16847532](http://www.ncbi.nlm.nih.gov/pubmed/16847532).

Eisen S, Neuman R, Goldberg J, Rice J, True W. Determining Zygosity in the Vietnam Era Twin Registry - An Approach Using Questionnaires. *Clinical Genetics.* 1989;35(6):423-432. [www.ncbi.nlm.nih.gov/pubmed/2736790](http://www.ncbi.nlm.nih.gov/pubmed/2736790).

Eisen S, True W, Goldberg J, Henderson W, Robinette CD. The Vietnam Era Twin (VET) Registry - Method of Construction. *Acta Geneticae Medicae Et Gemellologiae.* 1987;36(1):61-66. [www.ncbi.nlm.nih.gov/pubmed/3673478](http://www.ncbi.nlm.nih.gov/pubmed/3673478).

Eisen SA, Chantarujikapong S, Xian H, Lyons MJ, Toomey R, True WR, Scherrer JF, Goldberg J, Tsuang MT. Does marijuana use have residual adverse effects on self-reported health measures, socio-demographics and quality of life? A monozygotic co-twin control study in men. *Addiction.* 2002;97(9):1137-1144. <http://www.ncbi.nlm.nih.gov/pubmed/12199829>.

Eisen SA, Goldberg J, True WR, Henderson WG. A co-twin control study of the effects of the Vietnam War on the self-reported physical health of veterans. *American Journal of Epidemiology.* 1991;134(1):49-58. [www.ncbi.nlm.nih.gov/pubmed/1853860](http://www.ncbi.nlm.nih.gov/pubmed/1853860).

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Eisen SA, Griffith KH, Xian H, Scherrer JF, Fischer ID, Chantarujikapong S, Hunter J, True WR, Lyons MJ, Tsuang MT. Lifetime and 12-month prevalence of psychiatric disorders in 8,169 male Vietnam War era veterans. *Military Medicine*. 2004;169(11):896-902. <Go to ISI>://WOS:000235830500013.

Eisen SA, Lin N, Lyons MJ, Scherrer JF, Griffith K, True WR, Goldberg J, Tsuang MT. Familial influences on gambling behavior: an analysis of 3359 twin pairs. *Addiction*. 1998;93(9):1375-1384. <http://www.ncbi.nlm.nih.gov/pubmed/9926543>.

Eisen SA, Lyons MJ, Goldberg J, True WR. The impact of cigarette and alcohol consumption on weight and obesity. An analysis of 1911 monozygotic male twin pairs. *Arch Intern Med*. 1993;153(21):2457-2463. <http://www.ncbi.nlm.nih.gov/pubmed/8215750>.

Eisen SA, Neuman R, Goldberg J, True WR, Rice J, Scherrer JF, Lyons MJ. Contribution of emotionally traumatic events and inheritance to the report of current physical health problems in 4042 Vietnam era veteran twin pairs. *Psychosom Med*. 1998;60(5):533-539. <http://www.ncbi.nlm.nih.gov/pubmed/9773754>.

Eisen SA, Slutske WS, Lyons MJ, Lassman J, Xian H, Toomey R, Chantarujikapong S, Tsuang MT. The genetics of pathological gambling. *Semin Clin Neuropsychiatry*. 2001;6(3):195-204. <http://www.ncbi.nlm.nih.gov/pubmed/11447571>.

Eisen SA, Waterman B, Skinner CS, Scherrer JF, Romeis JC, Bucholz K, Heath A, Goldberg J, Lyons MJ, Tsuang MT, True WR. Sociodemographic and health status characteristics associated with prostate cancer screening in a national cohort of middle-aged male veterans. *Urology*. 1999;53(3):516-522. [www.ncbi.nlm.nih.gov/pubmed/10096377](http://www.ncbi.nlm.nih.gov/pubmed/10096377).

Elman JA, Panizzon MS, Hagler DJ, Jr., Fennema-Notestine C, Eyler LT, Gillespie NA, Neale MC, Lyons MJ, Franz CE, McEvoy LK, Dale AM, Kremen WS. Genetic and environmental influences on cortical mean diffusivity. *Neuroimage*. 2017;146:90-99. doi: 10.1016/j.neuroimage.2016.11.032.

Eufinger SC, Votaw J, Faber T, Ziegler TR, Goldberg J, Bremner JD, Vaccarino V. Habitual dietary sodium intake is inversely associated with coronary flow reserve in middle-aged male twins. *Am J Clin Nutr*. 2012;95(3):572-579. doi: 10.3945/ajcn.111.018077.

Eyler LT, Chen CH, Panizzon MS, Fennema-Notestine C, Neale MC, Jak A, Jernigan TL, Fischl B, Franz CE, Lyons MJ, Grant M, Prom-Wormley E, Seidman LJ, Tsuang MT, Fiecas MJ, Dale AM, Kremen WS. A comparison of heritability maps of cortical surface area and thickness and the influence of adjustment for whole brain measures: a magnetic resonance imaging twin study. *Twin Research and Human Genetics*. 2012;15(3):304-314. doi: 10.1017/thg.2012.3.

Eyler LT, Prom-Wormley E, Fennema-Notestine C, Panizzon MS, Neale MC, Jernigan TL, Fischl B, Franz CE, Lyons MJ, Stevens A, Pacheco J, Perry ME, Schmitt JE, Spitzer NC, Seidman LJ, Thermenos HW, Tsuang MT, Dale AM, Kremen WS. Genetic patterns of correlation among subcortical volumes in humans: results from a magnetic resonance imaging twin study. *Hum Brain Mapp*. 2011;32(4):641-653. doi: 10.1002/hbm.21054.

Eyler LT, Prom-Wormley E, Panizzon MS, Kaup AR, Fennema-Notestine C, Neale MC, Jernigan TL, Fischl B, Franz CE, Lyons MJ, Grant M, Stevens A, Pacheco J, Perry ME, Schmitt JE, Seidman LJ, Thermenos

## **Vietnam-Era Twin Registry Publications,**

arranged in alphabetical order by author

HW, Tsuang MT, Chen CH, Thompson WK, Jak A, Dale AM, Kremen WS. Genetic and environmental contributions to regional cortical surface area in humans: a magnetic resonance imaging twin study. *Cerebral Cortex*. 2011;21(10):2313-2321. doi: 10.1093/cercor/bhr013.

Eyler LT, Vuoksima E, Panizzon MS, Fennema-Notestine C, Neale MC, Chen CH, Jak A, Franz CE, Lyons MJ, Thompson WK, Spoon KM, Fischl B, Dale AM, Kremen WS. Conceptual and Data-based Investigation of Genetic Influences and Brain Asymmetry: A Twin Study of Multiple Structural Phenotypes. *J Cogn Neurosci*. 2013. doi: 10.1162/jocn\_a\_00531.

Fabsitz RR, Sholinsky P, Goldberg J. Correlates of sleep problems among men: the Vietnam Era Twin Registry. *J Sleep Res*. 1997;6(1):50-56. <http://www.ncbi.nlm.nih.gov/pubmed/9125699>.

Fennema-Notestine C, McEvoy LK, Notestine R, Panizzon MS, Yau WW, Franz CE, Lyons MJ, Eyler LT, Neale MC, Xian H, McKenzie RE, Kremen WS. White matter disease in midlife is heritable, related to hypertension, and shares some genetic influence with systolic blood pressure. *Neuroimage Clin*. 2016;12:737-745. doi: 10.1016/j.nicl.2016.10.001.

Fennema-Notestine C, Panizzon MS, Thompson WR, Chen CH, Eyler LT, Fischl B, Franz CE, Grant MD, Jak AJ, Jernigan TL, Lyons MJ, Neale MC, Seidman LJ, Tsuang MT, Xian H, Dale AM, Kremen WS. Presence of ApoE epsilon4 allele associated with thinner frontal cortex in middle age. *J Alzheimers Dis*. 2011;26 Suppl 3:49-60. doi: 10.3233/JAD-2011-0002.

Fischer ME, Vitek ME, Hedeker D, Henderson WG, Jacobsen SJ, Goldberg J. A twin study of erectile dysfunction. *Arch Intern Med*. 2004;164(2):165-168. doi: 10.1001/archinte.164.2.165.

Fjell AM, Grydeland H, Krogsrud SK, Amlie I, Rohani DA, Ferschmann L, Storsve AB, Tamnes CK, Sala-Llonch R, Due-Tonnessen P, Bjornerud A, Solsnes AE, Haberg AK, Skranes J, Bartsch H, Chen CH, Thompson WK, Panizzon MS, Kremen WS, Dale AM, Walhovd KB. Development and aging of cortical thickness correspond to genetic organization patterns. *Proc Natl Acad Sci U S A*. 2015;112(50):15462-15467. doi: 10.1073/pnas.1508831112.

Forsberg CW, Goldberg J, Sporleder J, Smith NL. Determining zygosity in the Vietnam era twin registry: an update. *Twin Research and Human Genetics*. 2010;13(5):461-464. doi: 10.1375/twin.13.5.461.

Franz CE, Finkel D, Panizzon MS, Spoon K, Christensen K, Gatz M, Kremen WS, Krueger R, Neiderhiser J, Reynolds C, Pedersen NL, consortium I. Facets of Subjective Health From Early Adulthood to Old Age. *J Aging Health*. 2017;29(1):149-171. doi: 10.1177/0898264315625488.

Franz CE, Grant MD, Jacobson KC, Kremen WS, Eisen SA, Xian H, Romeis J, Thompson-Brenner H, Lyons MJ. Genetics of body mass stability and risk for chronic disease: A 28-year longitudinal study. *Twin Research and Human Genetics*. 2007;10(4):537-545. [www.ncbi.nlm.nih.gov/pubmed/17708694](http://www.ncbi.nlm.nih.gov/pubmed/17708694).

Franz CE, Lyons MJ, O'Brien R, Panizzon MS, Kim K, Bhat R, Grant MD, Toomey R, Eisen S, Xian H, Kremen WS. A 35-year longitudinal assessment of cognition and midlife depression symptoms: the Vietnam Era Twin Study of Aging. *Am J Geriatr Psychiatry*. 2011;19(6):559-570. doi: 10.1097/JGP.0b013e3181ef79f1.

Franz CE, Lyons MJ, Spoon KM, Hauger RL, Jacobson KC, Lohr JB, McKenzie R, Panizzon MS, Thompson WK, Tsuang MT, Vasilopoulos T, Vuoksima E, Xian H, Kremen WS. Post-traumatic Stress Symptoms

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

and Adult Attachment: A 24-year Longitudinal Study. *Am J Geriatr Psychiatry*. 2014. doi: 10.1016/j.jagp.2014.02.003.

Franz CE, O'Brien RC, Hauger RL, Mendoza SP, Panizzon MS, Prom-Wormley E, Eaves LJ, Jacobson K, Lyons MJ, Lupien S, Hellhammer D, Xian H, Kremen WS. Cross-sectional and 35-year longitudinal assessment of salivary cortisol and cognitive functioning: the Vietnam Era twin study of aging. *Psychoneuroendocrinology*. 2011;36(7):1040-1052. doi: 10.1016/j.psyneuen.2011.01.002.

Franz CE, Panizzon MS, Eaves LJ, Thompson W, Lyons MJ, Jacobson KC, Tsuang M, Glatt SJ, Kremen WS. Genetic and environmental multidimensionality of well- and ill-being in middle aged twin men. *Behavior Genetics*. 2012;42(4):579-591. doi: 10.1007/s10519-012-9538-x.

Franz CE, Spoon K, Thompson W, Hauger RL, Hellhammer DH, Jacobson KC, Lupien S, Lyons MJ, McCaffery J, McKenzie R, Mendoza SP, Panizzon MS, Ramundo A, Shahroudi A, Kremen WS. Adult cognitive ability and socioeconomic status as mediators of the effects of childhood disadvantage on salivary cortisol in aging adults. *Psychoneuroendocrinology*. 2013;38(10):2127-2139. doi: 10.1016/j.psyneuen.2013.04.001.

Franz CE, York TP, Eaves LJ, Mendoza SP, Hauger RL, Hellhammer DH, Jacobson KC, Levine S, Lupien SJ, Lyons MJ, Prom-Wormley E, Xian H, Kremen WS. Genetic and environmental influences on cortisol regulation across days and contexts in middle-aged men. *Behavior Genetics*. 2010;40(4):467-479. doi: 10.1007/s10519-010-9352-2.

Franz CE, York TP, Eaves LJ, Prom-Wormley E, Jacobson KC, Lyons MJ, Grant MD, Xian H, Panizzon MS, Jimenez E, Kremen WS. Adult romantic attachment, negative emotionality, and depressive symptoms in middle aged men: a multivariate genetic analysis. *Behavior Genetics*. 2011;41(4):488-498. doi: 10.1007/s10519-010-9428-z.

Fu Q, Heath AC, Bucholz KK, Lyons MJ, Tsuang MT, True WR, Eisen SA. Common genetic risk of major depression and nicotine dependence: the contribution of antisocial traits in a United States veteran male twin cohort. *Twin Research and Human Genetics*. 2007;10(3):470-478. doi: 10.1375/twin.10.3.470.

Fu Q, Heath AC, Bucholz KK, Nelson E, Goldberg J, Lyons MJ, True WR, Jacob T, Tsuang MT, Eisen SA. Shared genetic risk of major depression, alcohol dependence, and marijuana dependence: contribution of antisocial personality disorder in men. *Arch Gen Psychiatry*. 2002;59(12):1125-1132. <http://www.ncbi.nlm.nih.gov/pubmed/12470129>.

Fu Q, Heath AC, Bucholz KK, Nelson EC, Glowinski AL, Goldberg J, Lyons MJ, Tsuang MT, Jacob T, True MR, Eisen SA. A twin study of genetic and environmental influences on suicidality in men. *Psychol Med*. 2002;32(1):11-24. <http://www.ncbi.nlm.nih.gov/pubmed/11883722>.

Fu Q, Koenen KC, Miller MW, Heath AC, Bucholz KK, Lyons MJ, Eisen SA, True WR, Goldberg J, Tsuang MT. Differential etiology of posttraumatic stress disorder with conduct disorder and major depression in male veterans. *Biol Psychiatry*. 2007;62(10):1088-1094. doi: 10.1016/j.biopsych.2007.04.036.

Gehi AK, Lampert R, Veledar E, Lee F, Goldberg J, Jones L, Murrah N, Ashraf A, Vaccarino V. A Twin Study of Metabolic Syndrome and Autonomic Tone. *J Cardiovasc Electrophysiol*. 2009;20(4):422-428. doi: 10.1111/j.1540-8167.2008.01363.x.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Genderson MR, Rana BK, Panizzon MS, Grant MD, Toomey R, Jacobson KC, Xian H, Cronin-Golomb A, Franz CE, Kremen WS, Lyons MJ. Genetic and environmental influences on sleep quality in middle-aged men: a twin study. *J Sleep Res.* 2013. doi: 10.1111/jsr.12048.

Giddens JL, Xian H, Scherrer JF, Eisen SA, Potenza MN. Shared genetic contributions to anxiety disorders and pathological gambling in a male population. *J Affect Disord.* 2011;132(3):406-412. doi: 10.1016/j.jad.2011.03.008.

Gilbertson MW, McFarlane AC, Weathers FW, Keane TM, Yehuda R, Shalev AY, Lasko NB, Goetz JM, Pitman RK. Is trauma a causal agent of psychopathologic symptoms in posttraumatic stress disorder? Findings from identical twins discordant for combat exposure. *J Clin Psychiatry.* 2010;71(10):1324-1330. doi: 10.4088/JCP.10m06121blu.

Gilbertson MW, Paulus LA, Williston SK, Gurvits TV, Lasko NB, Pitman RK, Orr SP. Neurocognitive function in monozygotic twins discordant for combat exposure: Relationship to posttraumatic stress disorder. *Journal of Abnormal Psychology.* 2006;115(3):484-495. doi: 10.1037/0021-843x.115-3.484.

Gilbertson MW, Shenton ME, Ciszewski A, Kasai K, Lasko NB, Orr SP, Pitman RK. Smaller hippocampal volume predicts pathologic vulnerability to psychological trauma. *Nature Neuroscience.* 2002;5(11):1242-1247. doi: 10.1038/nn958.

Gilbertson MW, Williston SK, Paulus LA, Lasko NB, Gurvits TV, Shenton ME, Pitman RK, Orr SP. Configural cue performance in identical twins discordant for posttraumatic stress disorder: Theoretical implications for the role of hippocampal function. *Biological Psychiatry.* 2007;62(5):513-520. doi: 10.1016/j.biopsych.2006.12.023.

Gillespie NA, Neale MC, Hagler DJ, Jr., Eyer LT, Fennema-Notestine C, Franz CE, Lyons MJ, McEvoy LK, Dale AM, Panizzon MS, Kremen WS. Genetic and environmental influences on mean diffusivity and volume in subcortical brain regions. *Hum Brain Mapp.* 2017;38(5):2589-2598. doi: 10.1002/hbm.23544.

Glowinski AL, Jacob T, Bucholz KK, Scherrer JF, True W, Heath AC. Paternal alcohol dependence and offspring suicidal behaviors in a children-of-twins study. *Drug and Alcohol Dependence.* 2004;76:S69-S77. doi: 10.1016/j.drugalcdep.2004.08.008.

Goetz M, Shah A, Goldberg J, Cheema F, Shallenberger L, Murrah NV, Bremner JD, Vaccarino V. Posttraumatic stress disorder, combat exposure, and carotid intima-media thickness in male twins. *Am J Epidemiol.* 2014;180(10):989-996. doi: 10.1093/aje/kwu225.

Goldberg J, Curran B, Vitek ME, Henderson WG, Boyko EJ. The Vietnam Era Twin Registry. *Twin Res.* 2002;5(5):476-481. doi: 10.1375/136905202320906318.

Goldberg J, Eisen SA, True WR, Henderson WG. A Twin Study of the Effects of the Vietnam Conflict on Alcohol Drinking Patterns. *Am J Public Health.* 1990;80(5):570-574.  
<http://www.ncbi.nlm.nih.gov/pubmed/2327534>.

Goldberg J, Eisen SA, True WR, Henderson WG. Health effects of military service. Lessons learned from the Vietnam experience. *Ann Epidemiol.* 1992;2(6):841-853.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

[http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list\\_uids=1342337](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=1342337).

Goldberg J, Henderson WG, Eisen SA, True W, Ramakrishnan V, Lyons MJ, Tsuang MT. A strategy for assembling samples of adult twin pairs in the United States. *Stat Med.* 1993;12(18):1693-1702. <http://www.ncbi.nlm.nih.gov/pubmed/8248662>.

Goldberg J, Magruder KM, Forsberg CW, Friedman MJ, Litz BT, Vaccarino V, Heagerty PJ, Gleason TC, Huang GD, Smith NL. Prevalence of Post-Traumatic Stress Disorder in Aging Vietnam-Era Veterans: Veterans Administration Cooperative Study 569: Course and Consequences of Post-Traumatic Stress Disorder in Vietnam-Era Veteran Twins. *Am J Geriatr Psychiatry.* 2016;24(3):181-191. doi: 10.1016/j.jagp.2015.05.004.

Goldberg J, Magruder KM, Forsberg CW, Kazis LE, Ustun TB, Friedman MJ, Litz BT, Vaccarino V, Heagerty PJ, Gleason TC, Huang GD, Smith NL. The association of PTSD with physical and mental health functioning and disability (VA Cooperative Study #569: the course and consequences of posttraumatic stress disorder in Vietnam-era Veteran twins). *Qual Life Res.* 2013. doi: 10.1007/s11136-013-0585-4.

Goldberg J, True W, Eisen S, Henderson W, Robinette CD. The Vietnam Era Twin (VET) Registry - Ascertainment Bias. *Acta Geneticae Medicae Et Gemellologiae.* 1987;36(1):67-78. [www.ncbi.nlm.nih.gov/pubmed/3673479](http://www.ncbi.nlm.nih.gov/pubmed/3673479).

Goldberg J, True WR, Eisen SA, Henderson WG. A Twin Study of the Effects of the Vietnam-War on Posttraumatic Stress Disorder. *JAMA.* 1990;263(9):1227-1232. [www.ncbi.nlm.nih.gov/pubmed/2304238](http://www.ncbi.nlm.nih.gov/pubmed/2304238).

Goldfarb DS, Fischer ME, Keich Y, Goldberg J. A twin study of genetic and dietary influences on nephrolithiasis: a report from the Vietnam Era Twin (VET) Registry. *Kidney Int.* 2005;67(3):1053-1061. doi: 10.1111/j.1523-1755.2005.00170.x.

Goodwin RD, Fischer ME, Goldberg J. A twin study of post-traumatic stress disorder symptoms and asthma. *Am J Respir Crit Care Med.* 2007;176(10):983-987. doi: 10.1164/rccm.200610-1467OC.

Grant JD, Lynskey MT, Scherrer JF, Agrawal A, Heath AC, Bucholz KK. A cotwin-control analysis of drug use and abuse/dependence risk associated with early-onset cannabis use. *Addict Behav.* 2010;35(1):35-41. doi: 10.1016/j.addbeh.2009.08.006.

Grant JD, Scherrer JF, Lynskey MT, Agrawal A, Duncan AE, Haber JR, Heath AC, Bucholz KK. Associations of alcohol, nicotine, cannabis, and drug use/dependence with educational attainment: evidence from cotwin-control analyses. *Alcohol Clin Exp Res.* 2012;36(8):1412-1420. doi: 10.1111/j.1530-0277.2012.01752.x.

Grant JD, Scherrer JF, Lynskey MT, Lyons MJ, Eisen SA, Tsuang MT, True WR, Bucholz KK. Adolescent alcohol use is a risk factor for adult alcohol and drug dependence: evidence from a twin design. *Psychol Med.* 2006;36(1):109-118. doi: 10.1017/S0033291705006045.



**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Grant JD, Scherrer JF, Lyons MJ, Tsuang M, True WR, Bucholz KK. Subjective reactions to cocaine and marijuana are associated with abuse and dependence. *Addict Behav.* 2005;30(8):1574-1586. doi: 10.1016/j.addbeh.2005.02.007.

Grant JD, Waldron M, Sartor CE, Scherrer JF, Duncan AE, McCutcheon VV, Haber JR, Jacob T, Heath AC, Bucholz KK. Parental Separation and Offspring Alcohol Involvement: Findings from Offspring of Alcoholic and Drug Dependent Twin Fathers. *Alcohol Clin Exp Res.* 2015;39(7):1166-1173. doi: 10.1111/acer.12766.

Grant MD, Kremen WS, Jacobson KC, Franz C, Xian H, Eisen SA, Toomey R, Murray RE, Lyons MJ. Does parental education have a moderating effect on the genetic and environmental influences of general cognitive ability in early adulthood? *Behav Genet.* 2010;40(4):438-446. doi: 10.1007/s10519-010-9351-3.

Gurvits TV, Metzger LJ, Lasko NB, Cannistraro PA, Tarhan AS, Gilbertson MW, Orr SP, Charbonneau AM, Wedig MM, Pitman RK. Subtle neurologic compromise as a vulnerability factor for combat-related posttraumatic stress disorder - Results of a twin study. *Archives of General Psychiatry.* 2006;63(5):571-576. [www.ncbi.nlm.nih.gov/pubmed/16651514](http://www.ncbi.nlm.nih.gov/pubmed/16651514).

Haber JR, Bucholz KK, Jacob T, Grant JD, Scherrer JF, Sartor CE, Duncan AE, Heath A. Effect of paternal alcohol and drug dependence on offspring conduct disorder: gene-environment interplay. *J Stud Alcohol Drugs.* 2010;71(5):652-663. <http://www.ncbi.nlm.nih.gov/pubmed/20731970>.

Haber JR, Harris-Olenak B, Burroughs T, Jacob T. Residual Effects: Young Adult Diagnostic Drinking Predicts Late-Life Health Outcomes. *J Stud Alcohol Drugs.* 2016;77(6):859-867. <https://www.ncbi.nlm.nih.gov/pubmed/27797686>.

Haber JR, Jacob T. Mediation of family alcoholism risk by religious affiliation types. *J Stud Alcohol Drugs.* 2009;70(6):877-889. <http://www.ncbi.nlm.nih.gov/pubmed/19895764>.

Haber JR, Jacob T, Heath AC. Paternal alcoholism and offspring conduct disorder: evidence for the 'common genes' hypothesis. *Twin Research and Human Genetics.* 2005;8(2):120-131. doi: 10.1375/1832427053738782.

Henderson WG, Eisen S, Goldberg J, True WR, Barnes JE, Vitek ME. The Vietnam Era Twin Registry: a resource for medical research. *Public Health Rep.* 1990;105(4):368-373. <http://www.ncbi.nlm.nih.gov/pubmed/2116638>.

Herrell R, Goldberg J, True WR, Ramakrishnan V, Lyons M, Eisen S, Tsuang MT. Sexual orientation and suicidality: a co-twin control study in adult men. *Arch Gen Psychiatry.* 1999;56(10):867-874. <http://www.ncbi.nlm.nih.gov/pubmed/10530625>.

Hu FB, Goldberg J, Hedeker D, Henderson WG. Modelling ordinal responses from co-twin control studies. *Stat Med.* 1998;17(9):957-970. <http://www.ncbi.nlm.nih.gov/pubmed/9612884>.

Huang, M., Shah, A., Su, S., Goldberg, J., Lampert, R. J., Levantsevych, O. M., . . . Vaccarino, V. (2018). Association of Depressive Symptoms and Heart Rate Variability in Vietnam War-Era Twins: A Longitudinal Twin Difference Study. *JAMA Psychiatry*, 75(7), 705-712. doi:10.1001/jamapsychiatry.2018.0747

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Jacob T, Blonigen DM, Hubel K, Wood PK, Haber JR. Drinking course through midlife based on diagnostic versus quantity-frequency indices. *Alcohol Clin Exp Res.* 2012;36(3):477-489. doi: 10.1111/j.1530-0277.2011.01619.x.

Jacob T, Bucholz KK, Sartor CE, Howell DN, Wood PK. Drinking trajectories from adolescence to the mid-forties among alcohol dependent males. *J Stud Alcohol.* 2005;66(6):745-755. <http://www.ncbi.nlm.nih.gov/pubmed/16459936>.

Jacob T, Koenig LB, Howell DN, Wood PK, Haber JR. Drinking trajectories from adolescence to the fifties among alcohol-dependent men. *J Stud Alcohol Drugs.* 2009;70(6):859-869. <http://www.ncbi.nlm.nih.gov/pubmed/19895762>.

Jacob T, Sher KJ, Bucholz KK, True WT, Sirevaag EJ, Rohrbaugh J, Nelson E, Neuman RJ, Todd RD, Slutske WS, Whitfield JB, Kirk KM, Martin NG, Madden PA, Heath AC. An integrative approach for studying the etiology of alcoholism and other addictions. *Twin Res.* 2001;4(2):103-118. <https://www.ncbi.nlm.nih.gov/pubmed/11665331>.

Jacob T, Waterman B, Heath A, True W, Bucholz KK, Haber R, Scherrer J, Fu Q. Genetic and environmental effects on offspring alcoholism: new insights using an offspring-of-twins design. *Arch Gen Psychiatry.* 2003;60(12):1265-1272. doi: 10.1001/archpsyc.60.12.1265.

Jacobson KC, Hoffman CL, Vasilopoulos T, Kremen WS, Panizzon MS, Grant MD, Lyons MJ, Xian H, Franz CE. Genetic and Environmental Influences on Individual Differences in Frequency of Play with Pets among Middle-Aged Men: A Behavioral Genetic Analysis. *Anthrozoos.* 2012;25(4):441-456. doi: 10.2752/175303712X13479798785814.

Janes GR, Goldberg J, Eisen SA, True WR. Reliability and Validity of Combat Exposure Index for Vietnam Era Veterans. *Journal of Clinical Psychology.* 1991;47(1):80-86. [www.ncbi.nlm.nih.gov/pubmed/2026782](http://www.ncbi.nlm.nih.gov/pubmed/2026782).

Jerskey BA, Panizzon MS, Jacobson KC, Neale MC, Grant MD, Schultz M, Eisen SA, Tsuang MT, Lyons MJ. Marriage and Divorce: A genetic perspective. *Pers Individ Dif.* 2010;49(5):473-478. doi: 10.1016/j.paid.2010.05.007.

Karohl C, Su S, Kumari M, Tangpricha V, Veledar E, Vaccarino V, Raggi P. Heritability and seasonal variability of vitamin D concentrations in male twins. *Am J Clin Nutr.* 2010;92(6):1393-1398. doi: 10.3945/ajcn.2010.30176.

Karohl C, Vaccarino V, Veledar E, Goldberg J, Tangpricha V, Bellasi A, Raggi P. Vitamin D status and coronary flow reserve measured by positron emission tomography: a co-twin control study. *J Clin Endocrinol Metab.* 2013;98(1):389-397. doi: 10.1210/jc.2012-3097.

Kasai K, Yamasue H, Gilbertson MW, Shenton ME, Rauch SL, Pitman RK. Evidence for acquired pregenual anterior cingulate gray matter loss from a twin study of combat-related posttraumatic stress disorder. *Biological Psychiatry.* 2008;63(6):550-556. doi: 10.1016/j.biopsych.2007.06.022.

Knopik VS, Jacob T, Haber JR, Swenson LP, Howell DN. Paternal Alcoholism and Offspring ADHD Problems: A Children of Twins Design. *Twin Research and Human Genetics*

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

2009;12(1):53-62. [www.ncbi.nlm.nih.gov/pubmed/19210180](http://www.ncbi.nlm.nih.gov/pubmed/19210180).

Koenen KC, Fu QJ, Ertel K, Lyons MJ, Eisen SA, True WR, Goldberg J, Tsuang MT. Common genetic liability to major depression and posttraumatic stress disorder in men. *J Affect Disord*. 2008;105(1-3):109-115. doi: 10.1016/j.jad.2007.04.021.

Koenen KC, Fu QJ, Lyons MJ, Toomey R, Goldberg J, Eisen SA, True W, Tsuang M. Juvenile conduct disorder as a risk factor for trauma exposure and posttraumatic stress disorder. *J Trauma Stress*. 2005;18(1):23-32. doi: 10.1002/jts.20010.

Koenen KC, Harley R, Lyons MJ, Wolfe J, Simpson JC, Goldberg J, Eisen SA, Tsuang M. A twin registry study of familial and individual risk factors for trauma exposure and posttraumatic stress disorder. *J Nerv Ment Dis*. 2002;190(4):209-218. <http://www.ncbi.nlm.nih.gov/pubmed/11960081>.

Koenen KC, Hitsman B, Lyons MJ, Niaura R, McCaffery J, Goldberg J, Eisen SA, True W, Tsuang M. A twin registry study of the relationship between posttraumatic stress disorder and nicotine dependence in men. *Arch Gen Psychiatry*. 2005;62(11):1258-1265. doi: 10.1001/archpsyc.62.11.1258.

Koenen KC, Hitsman B, Lyons MJ, Stroud L, Niaura R, McCaffery J, Goldberg J, Eisen SA, True W, Tsuang M. Posttraumatic stress disorder and late-onset smoking in the Vietnam era twin registry. *J Consult Clin Psychol*. 2006;74(1):186-190. doi: 10.1037/0022-006X.74.1.186.

Koenen KC, Lyons MJ, Goldberg J, Simpson J, Williams WM, Toomey R, Eisen SA, True W, Tsuang MT. Co-twin control study of relationships among combat exposure, combat-related PTSD, and other mental disorders. *J Trauma Stress*. 2003;16(5):433-438. doi: 10.1023/A:1025786925483.

Koenen KC, Lyons MJ, Goldberg J, Simpson J, Williams WM, Toomey R, Eisen SA, True WR, Cloitre M, Wolfe J, Tsuang MT. A high risk twin study of combat-related PTSD comorbidity. *Twin Res*. 2003;6(3):218-226. doi: 10.1375/136905203765693870.

Koenig LB, Haber JR, Jacob T. Childhood religious affiliation and alcohol use and abuse across the lifespan in alcohol-dependent men. *Psychol Addict Behav*. 2011;25(3):381-389. doi: 10.1037/a0024774.

Koenig LB, Jacob T, Haber JR. Validity of the lifetime drinking history: a comparison of retrospective and prospective quantity-frequency measures. *J Stud Alcohol Drugs*. 2009;70(2):296-303. <http://www.ncbi.nlm.nih.gov/pubmed/19261242>.

Koenig LB, Jacob T, Haber JR, Xian H. Testing the equal environments assumption in the Children of Twins design. *Behavior Genetics*. 2010;40(4):533-541. doi: 10.1007/s10519-010-9345-1.

Kremen WS, Eisen SA, Tsuang MT, Lyons MJ. Is the Wisconsin card sorting test a useful neurocognitive endophenotype? *American Journal of Medical Genetics Part B-Neuropsychiatric Genetics*. 2007;144B(4):403-406. doi: 10.1002/ajmg.b.30527.

Kremen WS, Franz CE, Lyons MJ. VETSA: The Vietnam Era Twin Study of Aging - ADDENDUM. *Twin Res Hum Genet*. 2013;16(1):403. doi: 10.1017/thg.2012.139.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Kremen WS, Franz CE, Lyons MJ. VETSA: The Vietnam Era Twin Study of Aging. *Twin Res Hum Genet.* 2013;16(1):399-402. doi: 10.1017/thg.2012.86.

Kremen WS, Jacobsen KC, Xian H, Eisen SA, Eaves LJ, Tsuang MT, Lyons MJ. Genetics of verbal working memory processes: A twin study of middle-aged men. *Neuropsychology.* 2007;21(5):569-580. doi: 10.1037/0894-4105.21.5.569.

Kremen WS, Jacobson KC, Panizzon MS, Xian H, Eaves LJ, Eisen SA, Tsuang MT, Lyons MJ. Factor Structure of Planning and Problem-solving: A Behavioral Genetic Analysis of the Tower of London Task in Middle-aged Twins. *Behavior Genetics.* 2009;39(2):133-144. doi: 10.1007/s10519-008-9242-z.

Kremen WS, Jacobson KC, Xian H, Eisen SA, Waterman B, Toomey R, Neale MC, Tsuang MT, Lyons MJ. Heritability of word recognition in middle-aged men varies as a function of parental education. *Behavior Genetics.* 2005;35(4):417-433. doi: 10.1007/s10519-004-3876-2.

Kremen WS, Jak AJ, Panizzon MS, Spoon KM, Franz CE, Thompson WK, Jacobson KC, Vasilopoulos T, Vuoksimaa E, Xian H, Toomey R, Lyons MJ. Early identification and heritability of mild cognitive impairment. *Int J Epidemiol.* 2013. doi: 10.1093/ije/dyt242.

Kremen WS, Koenen KC, Boake C, Purcell S, Eisen SA, Franz CE, Tsuang MT, Lyons MJ. Pretrauma cognitive ability and risk for posttraumatic stress disorder: a twin study. *Arch Gen Psychiatry.* 2007;64(3):361-368. doi: 10.1001/archpsyc.64.3.361.

Kremen WS, Lyons MJ, Boake C, Xian H, Jacobson KC, Waterman B, Eisen SA, Goldberg J, Faraone SV, Tsuang MT. A discordant twin study of premorbid cognitive ability in schizophrenia. *Journal of Clinical and Experimental Neuropsychology.* 2006;28(2):208-224. doi: 10.1080/13803390500360414.

Kremen WS, Mai T, Panizzon MS, Franz CE, Blankfeld HM, Xian H, Eisen SA, Tsuang MT, Lyons MJ. A twin study of spatial and non-spatial delayed response performance in middle age. *Brain Cogn.* 2011;76(1):43-51. doi: 10.1016/j.bandc.2011.03.004.

Kremen WS, O'Brien RC, Panizzon MS, Prom-Wormley E, Eaves LJ, Eisen SA, Eyler LT, Hauger RL, Fennema-Notestine C, Fischl B, Grant MD, Hellhammer DH, Jak AJ, Jacobson KC, Jernigan TL, Lupien SJ, Lyons MJ, Mendoza SP, Neale MC, Seidman LJ, Thermenos HW, Tsuang MT, Dale AM, Franz CE. Salivary cortisol and prefrontal cortical thickness in middle-aged men: A twin study. *Neuroimage.* 2010;53(3):1093-1102. doi: 10.1016/j.neuroimage.2010.02.026.

Kremen WS, Panizzon MS, Franz CE, Spoon KM, Vuoksimaa E, Jacobson KC, Vasilopoulos T, Xian H, McCaffery JM, Rana BK, Toomey R, McKenzie R, Lyons MJ. Genetic complexity of episodic memory: a twin approach to studies of aging. *Psychol Aging.* 2014;29(2):404-417. doi: 10.1037/a0035962.

Kremen WS, Panizzon MS, Neale MC, Fennema-Notestine C, Prom-Wormley E, Eyler LT, Stevens A, Franz CE, Lyons MJ, Grant MD, Jak AJ, Jernigan TL, Xian H, Fischl B, Thermenos HW, Seidman LJ, Tsuang MT, Dale AM. Heritability of brain ventricle volume: converging evidence from inconsistent results. *Neurobiol Aging.* 2012;33(1):1-8. doi: 10.1016/j.neurobiolaging.2010.02.007.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Kremen WS, Panizzon MS, Xian H, Barch DM, Franz CE, Grant MD, Toomey R, Lyons MJ. Genetic architecture of context processing in late middle age: more than one underlying mechanism. *Psychol Aging*. 2011;26(4):852-863. doi: 10.1037/a0025098.

Kremen WS, Prom-Wormley E, Panizzon MS, Eyer LT, Fischl B, Neale MC, Franz CE, Lyons MJ, Pacheco J, Perry ME, Stevens A, Schmitt JE, Grant MD, Seidman LJ, Thermenos HW, Tsuang MT, Eisen SA, Dale AM, Fennema-Notestine C. Genetic and environmental influences on the size of specific brain regions in midlife: the VETSA MRI study. *Neuroimage*. 2010;49(2):1213-1223. doi: 10.1016/j.neuroimage.2009.09.043.

Kremen WS, Thompson-Brenner H, Leung YM, Grant MD, Franz CE, Eisen SA, Jacobson KC, Boake C, Lyons MJ. Genes, environment, and time: the Vietnam Era Twin Study of Aging (VETSA). *Twin Res Hum Genet*. 2006;9(6):1009-1022. doi: 10.1375/183242706779462750.

Kremen WS, Xian H, Jacobson KC, Eaves LJ, Franz CE, Panizzon MS, Eisen SA, Crider A, Lyons MJ. Storage and executive components of working memory: Integrating cognitive psychology and Behavior genetics in the study of aging. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences*. 2008;63(2):P84-P91. <Go to ISI>://WOS:000255449800004.

Kubarych TS, Prom-Wormley EC, Franz CE, Panizzon MS, Dale AM, Fischl B, Eyer LT, Fennema-Notestine C, Grant MD, Hauger RL, Hellhammer DH, Jak AJ, Jernigan TL, Lupien SJ, Lyons MJ, Mendoza SP, Neale MC, Seidman LJ, Tsuang MT, Kremen WS. A multivariate twin study of hippocampal volume, self-esteem and well-being in middle-aged men. *Genes Brain Behav*. 2012;11(5):539-544. doi: 10.1111/j.1601-183X.2012.00789.x.

Kulshreshtha A, Goyal A, Veledar E, McClellan W, Judd S, Eufinger SC, Bremner JD, Goldberg J, Vaccarino V. Association between ideal cardiovascular health and carotid intima-media thickness: a twin study. *J Am Heart Assoc*. 2014;3(1):e000282. doi: 10.1161/JAHA.113.000282.

Kulshreshtha A, Zheng Y, Quyyumi AA, Veledar E, Votaw J, Uphoff I, Bremner DJ, Goldberg J, Vaccarino V. Endothelial Dysfunction is Associated with Occult Coronary Artery Disease Detected by Positron Emission Tomography. *IJC Metab Endocr*. 2014;4:28-32. doi: 10.1016/j.ijcme.2014.07.004.

Lampert R, Bremner JD, Su S, Miller A, Lee F, Cheema F, Goldberg J, Vaccarino V. Decreased heart rate variability is associated with higher levels of inflammation in middle-aged men. *Am Heart J*. 2008;156(4):759 e751-757. doi: 10.1016/j.ahj.2008.07.009.

Lauderdale DS, Fabsitz R, Meyer JM, Sholinsky P, Ramakrishnan V, Goldberg J. Familial determinants of moderate and intense physical activity: A twin study. *Medicine and Science in Sports and Exercise*. 1997;29(8):1062-1068. <Go to ISI>://WOS:A1997XR03500012.

Levitt JJ, Chen QCC, May FS, Gilbertson MW, Shenton ME, Pitman RK. Volume of cerebellar vermis in monozygotic twins discordant for combat exposure: Lack of relationship to post-traumatic stress disorder. *Psychiatry Research-Neuroimaging*. 2006;148(2-3):143-149. doi: 10.1016/j.psychresns.2006.01.013.

Lewis GJ, Panizzon MS, Eyer L, Fennema-Notestine C, Chen CH, Neale MC, Jernigan TL, Lyons MJ, Dale AM, Kremen WS, Franz CE. Heritable influences on amygdala and orbitofrontal cortex contribute to

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

genetic variation in core dimensions of personality. *Neuroimage*. 2014;103:309-315. doi: 10.1016/j.neuroimage.2014.09.043.

Lin N, Eisen SA, Scherrer JF, Goldberg J, True WR, Lyons MJ, Tsuang MT. The influence of familial and non-familial factors on the association between major depression and substance abuse/dependence in 1874 monozygotic male twin pairs. *Drug Alcohol Depend*. 1996;43(1-2):49-55. <http://www.ncbi.nlm.nih.gov/pubmed/8957142>.

Liu IC, Blacker DL, Xu R, Fitzmaurice G, Lyons MJ, Tsuang MT. Genetic and environmental contributions to the development of alcohol dependence in male twins. *Arch Gen Psychiatry*. 2004;61(9):897-903. doi: 10.1001/archpsyc.61.9.897.

Liu IC, Blacker DL, Xu R, Fitzmaurice G, Tsuang MT, Lyons MJ. Genetic and environmental contributions to age of onset of alcohol dependence symptoms in male twins. *Addiction*. 2004;99(11):1403-1409. doi: 10.1111/j.1360-0443.2004.00877.x.

Liu IC, Xu RH, Blacker DL, Fitzmaurice G, Lyons MJ, Tsuang MT. The application of a random effects model to censored twin data. *Behavior Genetics*. 2005;35(6):781-789. doi: 10.1007/s10519-005-7285-y.

Logue MW, Bauver SR, Kremen WS, Franz CE, Eisen SA, Tsuang MT, Grant MD, Lyons MJ. Evidence of overlapping genetic diathesis of panic attacks and gastrointestinal disorders in a sample of male twin pairs. *Twin Research and Human Genetics*. 2011;14(1):16-24. doi: 10.1375/twin.14.1.16.

Logue MW, Panizzon MS, Elman JA, Gillespie NA, Hatton SN, Gustavson DE, Andreassen OA, Dale AM, Franz CE, Lyons MJ, Neale MC, Reynolds CA, Tu X, Kremen WS. Use of an Alzheimer's disease polygenic risk score to identify mild cognitive impairment in adults in their 50s. *Mol Psychiatry*. 2018. doi: 10.1038/s41380-018-0030-8.

Lyons M, Hitsman B, Xian H, Panizzon MS, Jerskey BA, Santangelo S, Grant MD, Rende R, Eisen S, Eaves L, Tsuang MT. A twin study of smoking, nicotine dependence, and major depression in men. *Nicotine & Tobacco Research*. 2008;10(1):97-108. doi: 10.1080/14622200701705332.

Lyons MJ. A twin study of self-reported criminal behaviour. *Ciba Found Symp*. 1996;194:61-70; discussion 70-65. <http://www.ncbi.nlm.nih.gov/pubmed/8862870>.

Lyons MJ, Bar JL, Kremen WS, Toomey R, Eisen SA, Goldberg J, Faraone SV, Tsuang M. Nicotine and familial vulnerability to schizophrenia: A discordant twin study. *Journal of Abnormal Psychology*. 2002;111(4):687-693. doi: 10.1037//0021-843x.111.4.687.

Lyons MJ, Bar JL, Panizzon MS, Toomey R, Eisen S, Xian H, Tsuang MT. Neuropsychological consequences of regular marijuana use: a twin study. *Psychol Med*. 2004;34(7):1239-1250. <http://www.ncbi.nlm.nih.gov/pubmed/15697050>.

Lyons MJ, Eisen SA, Goldberg J, True W, Lin N, Meyer JM, Toomey R, Faraone SV, Merla-Ramos M, Tsuang MT. A registry-based twin study of depression in men. *Arch Gen Psychiatry*. 1998;55(5):468-472. <http://www.ncbi.nlm.nih.gov/pubmed/9596050>.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Lyons MJ, Genderson M, Grant MD, Logue M, Zink T, McKenzie R, Franz CE, Panizzon M, Lohr JB, Jerskey B, Kremen WS. Gene-environment interaction of ApoE genotype and combat exposure on PTSD. *Am J Med Genet B Neuropsychiatr Genet.* 2013;162B(7):762-769. doi: 10.1002/ajmg.b.32154.

Lyons MJ, Goldberg J, Eisen SA, True W, Tsuang MT, Meyer JM, Henderson WG. Do genes influence exposure to trauma? A twin study of combat. *Am J Med Genet.* 1993;48(1):22-27. doi: 10.1002/ajmg.1320480107.

Lyons MJ, Huppert J, Toomey R, Harley R, Goldberg J, Eisen S, True W, Faraone SV, Tsuang MT. Lifetime prevalence of mood and anxiety disorders in twin pairs discordant for schizophrenia. *Twin Res.* 2000;3(1):28-32. <http://www.ncbi.nlm.nih.gov/pubmed/10808238>.

Lyons MJ, Koenen KC, Buchting F, Meyer JM, Eaves L, Toomey R, Eisen SA, Goldberg J, Faraone SV, Ban RJ, Jerskey BA, Tsuang MT. A twin study of sexual behavior in men. *Arch Sex Behav.* 2004;33(2):129-136. <http://www.ncbi.nlm.nih.gov/pubmed/15146145>.

Lyons MJ, Panizzon MS, Liu W, McKenzie R, Bluestone NJ, Grant MD, Franz CE, Vuoksima EP, Toomey R, Jacobson KC, Reynolds CA, Kremen WS, Xian H. A longitudinal twin study of general cognitive ability over four decades. *Dev Psychol.* 2017;53(6):1170-1177. doi: 10.1037/dev0000303.

Lyons MJ, Schultz M, Neale M, Brady K, Eisen S, Toomey R, Rhein A, Faraone S, Tsuang M. Specificity of familial vulnerability for alcoholism versus major depression in men. *J Nerv Ment Dis.* 2006;194(11):809-817. doi: 10.1097/01.nmd.0000244480.78431.49.

Lyons MJ, Toomey R, Meyer JM, Green AI, Eisen SA, Goldberg J, True WR, Tsuang MT. How do genes influence marijuana use? The role of subjective effects. *Addiction.* 1997;92(4):409-417. <http://www.ncbi.nlm.nih.gov/pubmed/9177062>.

Lyons MJ, True WR, Eisen SA, Goldberg J, Meyer JM, Faraone SV, Eaves LJ, Tsuang MT. Differential heritability of adult and juvenile antisocial traits. *Arch Gen Psychiatry.* 1995;52(11):906-915. <http://www.ncbi.nlm.nih.gov/pubmed/7487339>.

Lyons MJ, York TP, Franz CE, Grant MD, Eaves LJ, Jacobson KC, Schaie KW, Panizzon MS, Boake C, Xian H, Toomey R, Eisen SA, Kremen WS. Genes Determine Stability and the Environment Determines Change in Cognitive Ability During 35 Years of Adulthood. *Psychological Science.* 2009;20(9):1146-1152. <Go to ISI>://WOS:000269391900017.

Magruder K, Yeager D, Goldberg J, Forsberg C, Litz B, Vaccarino V, Friedman M, Gleason T, Huang G, Smith N. Diagnostic performance of the PTSD checklist and the Vietnam Era Twin Registry PTSD scale. *Epidemiol Psychiatr Sci.* 2015;24(5):415-422. doi: 10.1017/S2045796014000365.

Magruder KM, Goldberg J, Forsberg CW, Friedman MJ, Litz BT, Vaccarino V, Heagerty PJ, Gleason TC, Huang GD, Smith NL. Long-Term Trajectories of PTSD in Vietnam-Era Veterans: The Course and Consequences of PTSD in Twins. *J Trauma Stress.* 2016;29(1):5-16. doi: 10.1002/jts.22075.

May FS, Chen QC, Gilbertson MW, Shenton ME, Pitman RK. Cavum septum pellucidum in monozygotic twins discordant for combat exposure: Relationship to posttraumatic stress disorder. *Biological Psychiatry.* 2004;55(6):656-658. doi: 10.1016/j.biopsych.2003.09.018.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

McCaffery JM, Franz CE, Jacobson K, Leahey TM, Xian H, Wing RR, Lyons MJ, Kremen WS. Effects of social contact and zygosity on 21-y weight change in male twins. *Am J Clin Nutr.* 2011;94(2):404-409. doi: 10.3945/ajcn.111.012195.

McCaffery JM, Papandonatos GD, Bond DS, Lyons MJ, Wing RR. Gene X environment interaction of vigorous exercise and body mass index among male Vietnam-era twins. *Am J Clin Nutr.* 2009;89(4):1011-1018. doi: 10.3945/ajcn.2008.27170.

McCaffery JM, Papandonatos GD, Lyons MJ, Koenen KC, Tsuang MT, Niaura R. Educational attainment, smoking initiation and lifetime nicotine dependence among male Vietnam-era twins. *Psychol Med.* 2008;38(9):1287-1297. doi: 10.1017/S0033291707001882.

McCaffery JM, Papandonatos GD, Lyons MJ, Niaura R. Educational attainment and the heritability of self-reported hypertension among male Vietnam-era twins. *Psychosom Med.* 2008;70(7):781-786. doi: 10.1097/PSY.0b013e3181817be6.

McCarren M, Goldberg J, Ramakrishnan V, Fabsitz R. Insomnia in Vietnam era veteran twins: influence of genes and combat experience. *Sleep.* 1994;17(5):456-461. <http://www.ncbi.nlm.nih.gov/pubmed/7991958>.

McCarren M, Janes GR, Goldberg J, Eisen SA, True WR, Henderson WG. A twin study of the association of post-traumatic stress disorder and combat exposure with long-term socioeconomic status in Vietnam veterans. *J Trauma Stress.* 1995;8(1):111-124. <http://www.ncbi.nlm.nih.gov/pubmed/7712050>.

McCutcheon VV, Scherrer JF, Grant JD, Xian H, Haber JR, Jacob T, Bucholz KK. Parent, sibling and peer associations with subtypes of psychiatric and substance use disorder comorbidity in offspring. *Drug Alcohol Depend.* 2013;128(1-2):20-29. doi: 10.1016/j.drugalcdep.2012.07.015.

McEvoy LK, Fennema-Notestine C, Eyler LT, Franz CE, Hagler DJ, Jr., Lyons MJ, Panizzon MS, Rinker DA, Dale AM, Kremen WS. Hypertension-related alterations in white matter microstructure detectable in middle age. *Hypertension.* 2015;66(2):317-323. doi: 10.1161/HYPERTENSIONAHA.115.05336.

McLeod DS, Koenen KC, Meyer JM, Lyons MJ, Eisen S, True W, Goldberg J. Genetic and environmental influences on the relationship among combat exposure, posttraumatic stress disorder symptoms, and alcohol use. *J Trauma Stress.* 2001;14(2):259-275. doi: 10.1023/A:1011157800050.

Metzger LJ, Clark CR, McFarlane AC, Veltmeyer MD, Lasko NB, Paige SR, Pitman RK, Orr SP. Event-related potentials to auditory stimuli in monozygotic twins discordant for combat: association with PTSD. *Psychophysiology.* 2009;46(1):172-178. doi: 10.1111/j.1469-8986.2008.00720.x.

Metzger LJ, Pitman RK, Miller GA, Paige SR, Orr SP. Intensity dependence of auditory P2 in monozygotic twins discordant for Vietnam combat: Associations with posttraumatic stress disorder. *Journal of Rehabilitation Research and Development.* 2008;45(3):437-449. doi: 10.1682/jrrd.2007.07.0100.



**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Milad MR, Orr SP, Lasko NB, Chang YC, Rauch SL, Pitman RK. Presence and acquired origin of reduced recall for fear extinction in PTSD: Results of a twin study. *Journal of Psychiatric Research*. 2008;42(7):515-520. doi: 10.1016/j.jpsychires.2008.01.017.

Moore CS, Grant MD, Zink TA, Panizzon MS, Franz CE, Logue MW, Hauger RL, Kremen WS, Lyons MJ. Erectile dysfunction, vascular risk, and cognitive performance in late middle age. *Psychol Aging*. 2014;29(1):163-172. doi: 10.1037/a0035463.

Orr SP, Metzger LJ, Lasko NB, Macklin ML, Hu FB, Shalev AY, Pitman RK, Harvard Veterans Affairs Post T. Physiologic responses to sudden, loud tones in monozygotic twins discordant for combat exposure - Association with posttraumatic stress disorder. *Archives of General Psychiatry*. 2003;60(3):283-288. <Go to ISI>://WOS:000181572200008.

Panizzon MS, Fennema-Notestine C, Eyler LT, Jernigan TL, Prom-Wormley E, Neale M, Jacobson K, Lyons MJ, Grant MD, Franz CE, Xian H, Tsuang M, Fischl B, Seidman L, Dale A, Kremen WS. Distinct Genetic Influences on Cortical Surface Area and Cortical Thickness. *Cerebral Cortex*. 2009;19(11):2728-2735. doi: 10.1093/cercor/bhp026.

Panizzon MS, Fennema-Notestine C, Kubarych TS, Chen CH, Eyler LT, Fischl B, Franz CE, Grant MD, Hamza S, Jak A, Jernigan TL, Lyons MJ, Neale MC, Prom-Wormley EC, Seidman L, Tsuang MT, Wu H, Xian H, Dale AM, Kremen WS. Genetic and environmental influences of white and gray matter signal contrast: a new phenotype for imaging genetics? *Neuroimage*. 2012;60(3):1686-1695. doi: 10.1016/j.neuroimage.2012.01.122.

Panizzon MS, Hauger R, Dale AM, Eaves LJ, Eyler LT, Fischl B, Fennema-Notestine C, Franz CE, Grant MD, Jak AJ, Jacobson KC, Lyons MJ, Mendoza SP, Neale MC, Prom-Wormley EC, Seidman LJ, Tsuang MT, Xian H, Kremen WS. Testosterone modifies the effect of APOE genotype on hippocampal volume in middle-aged men. *Neurology*. 2010;75(10):874-880. doi: 10.1212/WNL.0b013e3181f11deb.

Panizzon MS, Hauger R, Jacobson KC, Eaves LJ, York TP, Prom-Wormley E, Grant MD, Lyons MJ, McKenzie R, Mendoza SP, Xian H, Franz CE, Kremen WS. Genetic and environmental influences of daily and intra-individual variation in testosterone levels in middle-aged men. *Psychoneuroendocrinology*. 2013;38(10):2163-2172. doi: 10.1016/j.psyneuen.2013.04.003.

Panizzon MS, Hauger R, Xian H, Vuoksima E, Spoon KM, Mendoza SP, Jacobson KC, Vasilopoulos T, Rana BK, McKenzie R, McCaffery JM, Lyons MJ, Kremen WS, Franz CE. Interaction of APOE genotype and testosterone on episodic memory in middle-aged men. *Neurobiol Aging*. 2014;35(7):1778 e1771-1778. doi: 10.1016/j.neurobiolaging.2013.12.025.

Panizzon MS, Hauger RL, Eaves LJ, Chen CH, Dale AM, Eyler LT, Fischl B, Fennema-Notestine C, Franz CE, Grant MD, Jacobson KC, Jak AJ, Lyons MJ, Mendoza SP, Neale MC, Prom-Wormley E, Seidman LJ, Tsuang MT, Xian H, Kremen WS. Genetic influences on hippocampal volume differ as a function of testosterone level in middle-aged men. *Neuroimage*. 2012;59(2):1123-1131. doi: 10.1016/j.neuroimage.2011.09.044.

Panizzon MS, Hauger RL, Sailors M, Lyons MJ, Jacobson KC, Murray McKenzie R, Rana B, Vasilopoulos T, Vuoksima E, Xian H, Kremen WS, Franz CE. A new look at the genetic and environmental

## **Vietnam-Era Twin Registry Publications,**

arranged in alphabetical order by author

coherence of metabolic syndrome components. *Obesity (Silver Spring)*. 2015;23(12):2499-2507. doi: 10.1002/oby.21257.

Panizzon MS, Lyons MJ, Jacobson KC, Franz CE, Grant MD, Eisen SA, Xian H, Kremen WS. Genetic architecture of learning and delayed recall: a twin study of episodic memory. *Neuropsychology*. 2011;25(4):488-498. doi: 10.1037/a0022569.

Panizzon MS, Vuoksima E, Spoon KM, Jacobson KC, Lyons MJ, Franz CE, Xian H, Vasilopoulos T, Kremen WS. Genetic and Environmental Influences of General Cognitive Ability: Is a valid latent construct? *Intelligence*. 2014;43:65-76. doi: 10.1016/j.intell.2014.01.008.

Pedersen NL, Christensen K, Dahl AK, Finkel D, Franz CE, Gatz M, Horwitz BN, Johansson B, Johnson W, Kremen WS, Lyons MJ, Malmberg B, McGue M, Neiderhiser JM, Petersen I, Reynolds CA. IGEMS: the consortium on Interplay of Genes and Environment across Multiple Studies. *Twin Res Hum Genet*. 2013;16(1):481-489. doi: 10.1017/thg.2012.110.

Peng Q, Schork A, Bartsch H, Lo MT, Panizzon MS, Pediatric Imaging N, Genetics S, Alzheimer's Disease Neuroimaging I, Westlye LT, Kremen WS, Jernigan TL, Le Hellard S, Steen VM, Espeseth T, Huentelman M, Haberg AK, Agartz I, Djurovic S, Andreassen OA, Dale AM, Schork NJ, Chen CH. Conservation of Distinct Genetically-Mediated Human Cortical Pattern. *PLoS Genet*. 2016;12(7):e1006143. doi: 10.1371/journal.pgen.1006143.

Petersen I, Pedersen NL, Rantanen T, Kremen WS, Johnson W, Panizzon MS, Christiansen L, Franz CE, McGue M, Christensen K, Hamdi NR, Krueger RF, Reynolds C. GxE Interaction Influences Trajectories of Hand Grip Strength. *Behav Genet*. 2016;46(1):20-30. doi: 10.1007/s10519-015-9736-4.

Pitman RK, Gilbertson MW, Gurvits TV, May FS, Lasko NB, Metzger LJ, Shenton ME, Yehuda R, Orr SP, Harvard VAPTSI. Clarifying the origin of biological abnormalities in PTSD through the study of identical twins discordant for combat exposure. *Psychobiology of Posttraumatic Stress Disorder: A Decade of Progress*. 2006;1071:242-254. doi: 10.1196/annals.1364.019.

Plantinga L, Bremner JD, Miller AH, Jones DP, Veledar E, Goldberg J, Vaccarino V. Association between posttraumatic stress disorder and inflammation: a twin study. *Brain Behav Immun*. 2013;30:125-132. doi: 10.1016/j.bbi.2013.01.081.

Potenza MN, Xian H, Shah K, Scherrer JF, Eisen SA. Shared genetic contributions to pathological gambling and major depression in men. *Archives of General Psychiatry*. 2005;62(9):1015-1021. doi: 10.1001/archpsyc.62.9.1015.

Prom-Wormley E, Maes HH, Schmitt JE, Panizzon MS, Xian H, Eyster LT, Franz CE, Lyons MJ, Tsuang MT, Dale AM, Fennema-Notestine C, Kremen WS, Neale MC. Genetic and environmental contributions to the relationships between brain structure and average lifetime cigarette use. *Behav Genet*. 2015;45(2):157-170. doi: 10.1007/s10519-014-9704-4.

Prom-Wormley EC, York TP, Jacobson KC, Eaves LJ, Mendoza SP, Hellhammer D, Maninger N, Levine S, Lupien S, Lyons MJ, Hauger R, Xian H, Franz CE, Kremen WS. Genetic and environmental effects on diurnal dehydroepiandrosterone sulfate concentrations in middle-aged men. *Psychoneuroendocrinology*. 2011;36(10):1441-1452. doi: 10.1016/j.psyneuen.2011.03.018.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Raggi P, Su S, Karohl C, Veledar E, Rojas-Campos E, Vaccarino V. Heritability of renal function and inflammatory markers in adult male twins. *Am J Nephrol*. 2010;32(4):317-323. doi: 10.1159/000319449.

Ramakrishnan V, Goldberg J, Henderson WG, Eisen SA, True W, Lyons MJ, Tsuang MT. Elementary methods for the analysis of dichotomous outcomes in unselected samples of twins. *Genetic Epidemiology*. 1992;9(4):273-287. [www.ncbi.nlm.nih.gov/pubmed/1398046](http://www.ncbi.nlm.nih.gov/pubmed/1398046).

Ramakrishnan V, Meyer JM, Goldberg J, Henderson WG. Univariate analysis of dichotomous or ordinal data from twin pairs: A simulation study comparing structural equation modelling and logistic regression. *Genetic Epidemiology*. 1996;13(1):79-90. <Go to ISI>://WOS:A1996TY22700007.

Rana BK, Dhamija A, Panizzon MS, Spoon KM, Vasilopoulos T, Franz CE, Grant MD, Jacobson KC, Kim K, Lyons MJ, McCaffery JM, Stein PK, Xian H, O'Connor DT, Kremen WS. Imputing Observed Blood Pressure for Antihypertensive Treatment: Impact on Population and Genetic Analyses. *Am J Hypertens*. 2014. doi: 10.1093/ajh/hpt271.

Rimol LM, Panizzon MS, Fennema-Notestine C, Eyer LT, Fischl B, Franz CE, Hagler DJ, Lyons MJ, Neale MC, Pacheco J, Perry ME, Schmitt JE, Grant MD, Seidman LJ, Thermenos HW, Tsuang MT, Eisen SA, Kremen WS, Dale AM. Cortical thickness is influenced by regionally specific genetic factors. *Biological Psychiatry*. 2010;67(5):493-499. doi: 10.1016/j.biopsych.2009.09.032.

Romeis JC, Grant JD, Knopik VS, Pedersen NL, Heath AC. The genetics of middle-age spread in middle-class males. *Twin Res*. 2004;7(6):596-602. doi: 10.1375/1369052042663896.

Romeis JC, Heath AC, Xian H, Eisen SA, Scherrer JF, Pedersen NL, Fu Q, Bucholz KK, Goldberg J, Lyons MJ, Waterman B, Tsuang MT, True WR. Heritability of SF-36 among middle-age, middle-class, male-male twins. *Med Care*. 2005;43(11):1147-1154. <http://www.ncbi.nlm.nih.gov/pubmed/16224309>.

Romeis JC, Scherrer JF, Xian H, Eisen SA, Bucholz K, Heath AC, Goldberg J, Lyons MJ, Henderson WG, True WR. Heritability of self-reported health. *Health Services Research*. 2000;35(5):995-1010. <Go to ISI>://WOS:000165913900007.

Romeis JC, Waterman B, Scherrer JF, Goldberg J, Eisen SA, Heath AC, Bucholz KK, Slutske WS, Lyons MJ, Tsuang MT, True WR. The impact of sociodemographics, comorbidity and symptom recency on health-related quality of life in alcoholics. *Journal of Studies on Alcohol*. 1999;60(5):653-662. <Go to ISI>://WOS:000081923000011.

Rooks C, Faber T, Votaw J, Veledar E, Goldberg J, Raggi P, Quyyumi AA, Bremner JD, Vaccarino V. Effects of smoking on coronary microcirculatory function: a twin study. *Atherosclerosis*. 2011;215(2):500-506. doi: 10.1016/j.atherosclerosis.2011.01.012.

Rooks C, Veledar E, Goldberg J, Bremner JD, Vaccarino V. Early trauma and inflammation: role of familial factors in a study of twins. *Psychosom Med*. 2012;74(2):146-152. doi: 10.1097/PSY.0b013e318240a7d8.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Rooks C, Veledar E, Goldberg J, Votaw J, Shah A, Bremner JD, Vaccarino V. Long-Term Consequences of Early Trauma on Coronary Heart Disease: Role of Familial Factors. *J Trauma Stress*. 2015;28(5):456-459. doi: 10.1002/jts.22044.

Roy-Byrne P, Arguelles L, Vitek ME, Goldberg J, Keane TM, True WR, Pitman RK. Persistence and change of PTSD symptomatology--a longitudinal co-twin control analysis of the Vietnam Era Twin Registry. *Soc Psychiatry Psychiatr Epidemiol*. 2004;39(9):681-685. doi: 10.1007/s00127-004-0810-0.

Sartor CE, Jacob T, Bucholz KK. Drinking course in alcohol-dependent men from adolescence to midlife. *Journal of Studies on Alcohol*. 2003;64(5):712-719.  
[www.ncbi.nlm.nih.gov/pubmed/14572194](http://www.ncbi.nlm.nih.gov/pubmed/14572194).

Sartor CE, Lessov-Schlaggar CN, Scherrer JF, Bucholz KK, Madden PA, Pergadia ML, Grant JD, Jacob T, Xian H. Initial response to cigarettes predicts rate of progression to regular smoking: findings from an offspring-of-twins design. *Addict Behav*. 2010;35(8):771-778. doi: 10.1016/j.addbeh.2010.03.004.

Sartor CE, Lynskey MT, Heath AC, Jacob T, True W. The role of childhood risk factors in initiation of alcohol use and progression to alcohol dependence. *Addiction*. 2007;102(2):216-225. doi: 10.1111/j.1360-0443.2006.01661.x.

Sartor CE, Scherrer JF, Shah KR, Xian H, Volberg R, Eisen SA. Course of pathological gambling symptoms and reliability of the Lifetime Gambling History measure. *Psychiatry Research*. 2007;152(1):55-61. doi: 10.1016/j.psychres.2006.05.015.

Sartor CE, Xian H, Scherrer JF, Lynskey MT, Duncan AE, Haber JR, Grant JD, Bucholz KK, Jacob T. Psychiatric and familial predictors of transition times between smoking stages: Results from an offspring-of-twins study. *Addictive Behaviors*. 2008;33(2):235-251. doi: 10.1016/j.addbeh.2007.09.002.

Scherrer JF, Grant JD, Agrawal A, Madden PA, Fu Q, Jacob T, Bucholz KK, Xian H. Suicidal behavior, smoking, and familial vulnerability. *Nicotine Tob Res*. 2012;14(4):415-424. doi: 10.1093/ntr/ntr230.

Scherrer JF, Grant JD, Duncan AE, Pan H, Waterman B, Jacob T, Haber JR, True WR, Heath AC, Bucholz KK. Measured environmental contributions to cannabis abuse/dependence in an offspring of twins design. *Addictive Behaviors*. 2008;33(10):1255-1266. doi: 10.1016/j.addbeh.2008.05.009.

Scherrer JF, Grant JD, Duncan AE, Sartor CE, Haber JR, Jacob T, Bucholz KK. Subjective effects to cannabis are associated with use, abuse/dependence after adjusting for genetic and environmental influences. *Drug and Alcohol Dependence*. 2009;105(1-2):76-82. doi: 10.1016/j.drugalcdep.2009.06.014.

Scherrer JF, Lin N, Eisen SA, Goldberg J, True WR, Lyons MJ, Tsuang MT. The association of antisocial personality symptoms with marijuana abuse/dependence. A monozygotic co-twin control study. *J Nerv Ment Dis*. 1996;184(10):611-615.

Scherrer JF, Slutske WS, Xian H, Waterman B, Shah KR, Volberg R, Eisen SA. Factors associated with pathological gambling at 10-year follow-up in a national sample of middle-aged men. *Addiction*. 2007;102(6):970-978. doi: 10.1111/j.1360-0443.2007.01833.x.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Scherrer JF, True WR, Xian H, Lyons MJ, Eisen SA, Goldberg J, Lin N, Tsuang MT. Evidence for genetic influences common and specific to symptoms of generalized anxiety and panic. *J Affect Disord.* 2000;57(1-3):25-35. <https://www.ncbi.nlm.nih.gov/pubmed/10708813>.

Scherrer JF, Waterman BM, Heath AC, Bucholz KK, True WR, Jacob T. Are substance use, abuse and dependence associated with study participation? Predictors of offspring nonparticipation in a twin-family study. *J Stud Alcohol.* 2004;65(1):140-144. <https://www.ncbi.nlm.nih.gov/pubmed/15000514>.

Scherrer JF, Xian H, Bucholz KK, Eisen SA, Lyons MJ, Goldberg J, Tsuang M, True WR. A twin study of depression symptoms, hypertension, and heart disease in middle-aged men. *Psychosomatic Medicine.* 2003;65(4):548-557. doi: 10.1097/01.psy.0000077507.29863.cb.

Scherrer JF, Xian H, Kapp JMK, Waterman B, Shah KR, Volberg R, Eisen SA. Association between exposure to childhood and lifetime traumatic events and lifetime pathological gambling in a twin cohort. *Journal of Nervous and Mental Disease.* 2007;195(1):72-78. doi: 10.1097/01.nmd.0000252384.20382.e9.

Scherrer JF, Xian H, Lustman PJ, Franz CE, McCaffery J, Lyons MJ, Jacobson KC, Kremen WS. A test for common genetic and environmental vulnerability to depression and diabetes. *Twin Research and Human Genetics.* 2011;14(2):169-172. doi: 10.1375/twin.14.2.169.

Scherrer JF, Xian H, Lyons MJ, Goldbergg J, Eisen SA, True WR, Tsuang M, Bucholz KK, Koenen KC. Posttraumatic stress disorder; combat exposure; and nicotine dependence, alcohol dependence, and major depression in male twins. *Comprehensive Psychiatry.* 2008;49(3):297-304. doi: 10.1016/j.comppsy.2007.11.001.

Scherrer JF, Xian H, Pan H, Pergadia ML, Madden PA, Grant JD, Sartor CE, Haber JR, Jacob T, Bucholz KK. Parent, sibling and peer influences on smoking initiation, regular smoking and nicotine dependence. Results from a genetically informative design. *Addict Behav.* 2012;37(3):240-247. doi: 10.1016/j.addbeh.2011.10.005.

Scherrer JF, Xian H, Shah KR, Volberg R, Slutske W, Eisen SA. Effect of genes, environment, and lifetime co-occurring disorders on health-related quality of life in problem and pathological gamblers. *Archives of General Psychiatry.* 2005;62(6):677-683. [www.ncbi.nlm.nih.gov/pubmed/15939845](http://www.ncbi.nlm.nih.gov/pubmed/15939845).

Scherrer JF, Xian H, Slutske WS, Eisen SA, Potenza MN. Associations Between Obsessive-Compulsive Classes and Pathological Gambling in a National Cohort of Male Twins. *JAMA Psychiatry.* 2015. doi: 10.1001/jamapsychiatry.2014.2497.

Schultz MR, Lyons MJ, Franz CE, Grant MD, Boake C, Jacobson KC, Xian H, Schellenberg GD, Eisen SA, Kremen WS. Apolipoprotein E genotype and memory in the sixth decade of life. *Neurology.* 2008;70(19):1771-1777. [www.ncbi.nlm.nih.gov/pubmed/18235080](http://www.ncbi.nlm.nih.gov/pubmed/18235080).

Schultz MR, Rabi K, Faraone SV, Kremen W, Lyons MJ. Efficacy of retrospective recall of attention-deficit hyperactivity disorder symptoms: A twin study. *Twin Research and Human Genetics.* 2006;9(2):220-232. [www.ncbi.nlm.nih.gov/pubmed/16611492](http://www.ncbi.nlm.nih.gov/pubmed/16611492).

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Seroczynski AD, Bergeman CS, Coccaro EF. Etiology of the impulsivity aggression relationship: Genes or environment? *Psychiatry Research*. 1999;86(1):41-57.  
<http://www.ncbi.nlm.nih.gov/pubmed/10359481>.

Shah AJ, Lampert R, Goldberg J, Veledar E, Bremner JD, Vaccarino V. Posttraumatic stress disorder and impaired autonomic modulation in male twins. *Biol Psychiatry*. 2013;73(11):1103-1110. doi: 10.1016/j.biopsych.2013.01.019.

Shah AJ, Su S, Veledar E, Bremner JD, Goldstein FC, Lampert R, Goldberg J, Vaccarino V. Is heart rate variability related to memory performance in middle-aged men? *Psychosom Med*. 2011;73(6):475-482. doi: 10.1097/PSY.0b013e3182227d6a.

Shah KR, Eisen SA, Xian H, Potenza MN. Genetic studies of pathological gambling: a review of methodology and analyses of data from the Vietnam Era Twin Registry. *J Gamb Stud*. 2005;21(2):179-203. doi: 10.1007/s10899-005-3031-x.

Shin LM, Bush G, Milad MR, Lasko NB, Brohawn KH, Hughes KC, Macklin ML, Gold AL, Karpf RD, Orr SP, Rauch SL, Pitman RK. Exaggerated activation of dorsal anterior cingulate cortex during cognitive interference: a monozygotic twin study of posttraumatic stress disorder. *Am J Psychiatry*. 2011;168(9):979-985. doi: 10.1176/appi.ajp.2011.09121812.

Shin LM, Lasko NB, Macklin ML, Karpf RD, Milad MR, Orr SP, Goetz JM, Fischman AJ, Rauch SL, Pitman RK. Resting Metabolic Activity in the Cingulate Cortex and Vulnerability to Posttraumatic Stress Disorder. *Archives of General Psychiatry*. 2009;66(10):1099-1107.  
[www.ncbi.nlm.nih.gov/pubmed/19805700](http://www.ncbi.nlm.nih.gov/pubmed/19805700).

Slutske WS, Eisen S, True WR, Lyons MJ, Goldberg J, Tsuang M. Common genetic vulnerability for pathological gambling and alcohol dependence in men. *Archives of General Psychiatry*. 2000;57(7):666-673. <Go to ISI>://WOS:000088035200004.

Slutske WS, Eisen S, Xian H, True WR, Lyons MJ, Goldberg J, Tsuang M. A twin study of the association between pathological gambling and antisocial personality disorder. *Journal of Abnormal Psychology*. 2001;110(2):297-308. doi: 10.1037//0021-843x.110.2.297.

Slutske WS, True WR, Scherrer JF, Goldberg J, Bucholz KK, Heath AC, Henderson WG, Eisen SA, Lyons MJ, Tsuang MT. Long-term reliability and validity of alcoholism diagnoses and symptoms in a large national telephone interview survey. *Alcoholism-Clinical and Experimental Research*. 1998;22(3):553-558. [www.ncbi.nlm.nih.gov/pubmed/9622431](http://www.ncbi.nlm.nih.gov/pubmed/9622431).

Slutske WS, True WR, Scherrer JF, Heath AC, Bucholz KK, Eisen SA, Goldberg J, Lyons MJ, Tsuang MT. The heritability of alcoholism symptoms: "Indicators of genetic and environmental influence in alcohol-dependent individuals" revisited. *Alcoholism-Clinical and Experimental Research*. 1999;23(5):759-769. [www.ncbi.nlm.nih.gov/pubmed/10371393](http://www.ncbi.nlm.nih.gov/pubmed/10371393).

Su S, Lampert R, Lee F, Bremner JD, Snieder H, Jones L, Murrah NV, Goldberg J, Vaccarino V. Common genes contribute to depressive symptoms and heart rate variability: the Twins Heart Study. *Twin Research and Human Genetics*. 2010;13(1):1-9. doi: 10.1375/twin.13.1.1.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Su S, Lampert R, Zhao J, Bremner JD, Miller A, Snieder H, Lee F, Khan D, Goldberg J, Vaccarino V. Pleiotropy of C-reactive protein gene polymorphisms with C-reactive protein levels and heart rate variability in healthy male twins. *Am J Cardiol.* 2009;104(12):1748-1754. doi: 10.1016/j.amjcard.2009.07.063.

Su S, Miller AH, Snieder H, Bremner JD, Ritchie J, Maisano C, Jones L, Murrah NV, Goldberg J, Vaccarino V. Common genetic contributions to depressive symptoms and inflammatory markers in middle-aged men: the Twins Heart Study. *Psychosom Med.* 2009;71(2):152-158. doi: 10.1097/PSY.0b013e31819082ef.

Su S, Snieder H, Miller AH, Ritchie J, Bremner JD, Goldberg J, Dai J, Jones L, Murrah NV, Zhao J, Vaccarino V. Genetic and environmental influences on systemic markers of inflammation in middle-aged male twins. *Atherosclerosis.* 2008;200(1):213-220. doi: 10.1016/j.atherosclerosis.2007.12.009.

Su S, Votaw J, Faber T, Khan D, Bremner JD, Goldberg J, Nichols K, Van Tosh A, Vaccarino V. Measurement of heritability of myocardial blood flow by positron emission tomography: the Twins Heart Study. *Heart.* 2012;98(6):495-499. doi: 10.1136/heartjnl-2011-301080.

Su S, Zhao J, Bremner JD, Miller AH, Tang W, Bouzyk M, Snieder H, Novik O, Afzal N, Goldberg J, Vaccarino V. Serotonin transporter gene, depressive symptoms, and interleukin-6. *Circ Cardiovasc Genet.* 2009;2(6):614-620. doi: 10.1161/CIRCGENETICS.109.870386.

Suri P, Boyko EJ, Rundell SD, Smith NL, Goldberg J. Do medical conditions predispose to the development of chronic back pain? A longitudinal co-twin control study of middle-aged males with 11-year follow-up. *BMC Musculoskelet Disord.* 2018;19(1):362. doi: 10.1186/s12891-018-2282-5.

Suri P, Boyko EJ, Smith NL, Jarvik JG, Williams FM, Jarvik GP, Goldberg J. Modifiable risk factors for chronic back pain: insights using the co-twin control design. *Spine J.* 2017;17(1):4-14. doi: 10.1016/j.spinee.2016.07.533.

Todorov AA, Lynskey MI, Grant JD, Scherrer JF, Todd RD, Bucholz KK. Psychiatric comorbidity and progression in drug use in adult male twins: Implications for the design of genetic association studies. *Addictive Behaviors.* 2006;31(6):948-961. doi: 10.1016/j.addbeh.2006.03.046.

Toomey R, Lyons MJ, Eisen SA, Xian H, Chantarujikapong S, Seidman LJ, Faraone SV, Tsuang MT. A twin study of the neuropsychological consequences of stimulant abuse. *Archives of General Psychiatry.* 2003;60(3):303-310. www.ncbi.nlm.nih.gov/pubmed/12622664.

Toomey R, Panizzon MS, Kremen WS, Franz CE, Lyons MJ. A twin-study of genetic contributions to morningness-eveningness and depression. *Chronobiol Int.* 2014;1-7. doi: 10.3109/07420528.2014.971366.

True WR, Heath AC, Bucholz K, Slutske W, Romeis JC, Scherrer JF, Lin N, Eisen SA, Goldberg J, Lyons MJ, Tsuang MT. Models of treatment seeking for alcoholism: The role of genes and environment. *Alcoholism-Clinical and Experimental Research.* 1996;20(9):1577-1581. <Go to ISI>://WOS:A1996VZ86300013.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

True WR, Heath AC, Scherrer JF, Waterman B, Goldberg J, Lin N, Eisen SA, Lyons MJ, Tsuang MT. Genetic and environmental contributions to smoking. *Addiction*. 1997;92(10):1277-1287. <Go to ISI>://WOS:A1997YB25500005.

True WR, Heath AC, Scherrer JF, Xian H, Lin N, Eisen SA, Lyons MJ, Goldberg J, Tsuang MT. Interrelationship of genetic and environmental influences on conduct disorder and alcohol and marijuana dependence symptoms. *American Journal of Medical Genetics*. 1999;88(4):391-397. <Go to ISI>://WOS:000081581400017.

True WR, Rice J, Eisen SA, Heath AC, Goldberg J, Lyons MJ, Nowak J. A twin study of genetic and environmental contributions to liability for posttraumatic stress symptoms. *Archives of General Psychiatry*. 1993;50(4):257-264. [www.ncbi.nlm.nih.gov/pubmed/8466386](http://www.ncbi.nlm.nih.gov/pubmed/8466386).

True WR, Romeis JC, Heath AC, Flick LH, Shaw L, Eisen SA, Goldberg J, Lyons MJ. Genetic and environmental contributions to healthcare need and utilization: A twin analysis. *Health Services Research*. 1997;32(1):37-53. <Go to ISI>://WOS:A1997WR93600007.

True WR, Xian H, Scherrer JF, Madden PAF, Bucholz KK, Heath AC, Eisen SA, Lyons MJ, Goldberg J, Tsuang M. Common genetic vulnerability for nicotine and alcohol dependence in men. *Archives of General Psychiatry*. 1999;56(7):655-661. [www.ncbi.nlm.nih.gov/pubmed/10401514](http://www.ncbi.nlm.nih.gov/pubmed/10401514).

Tsai M, Mori AM, Forsberg CW, Waiss N, Sporleder JL, Smith NL, Goldberg J. The Vietnam Era Twin Registry: A Quarter Century of Progress. *Twin Res Hum Genet*. 2012;1-8. doi: 10.1017/thg.2012.122.

Tsuang M, Domschke K, Jerskey BA, Lyons MJ. Agoraphobic behavior and panic attack: a study of male twins. *Journal of Anxiety Disorders*. 2004;18(6):799-807. doi: 10.1016/j.janxdis.2003.10.001.

Tsuang MT, Bar JL, Harley RM, Lyons MJ. The Harvard Twin Study of Substance Abuse: what we have learned. *Harv Rev Psychiatry*. 2001;9(6):267-279. <http://www.ncbi.nlm.nih.gov/pubmed/11600486>.

Tsuang MT, Lyons MJ, Eisen SA, Goldberg J, True W, Lin N, Meyer JM, Toomey R, Faraone SV, Eaves L. Genetic influences on DSM-III-R drug abuse and dependence: A study of 3,372 twin pairs. *American Journal of Medical Genetics*. 1996;67(5):473-477. <Go to ISI>://WOS:A1996VJ22300006.

Tsuang MT, Lyons MJ, Harley RM, Xian H, Eisen S, Goldberg J, True WR, Faraone SV. Genetic and environmental influences on transitions in drug use. *Behavior Genetics*. 1999;29(6):473-479. <Go to ISI>://WOS:000087465200010.

Tsuang MT, Lyons MJ, Meyer JM, Doyle T, Eisen SA, Goldberg J, True W, Lin N, Toomey R, Eaves L. Co-occurrence of abuse of different drugs in men: the role of drug-specific and shared vulnerabilities. *Arch Gen Psychiatry*. 1998;55(11):967-972. <http://www.ncbi.nlm.nih.gov/pubmed/9819064>.

Tsuang MT, Simpson JC, Koenen KC, Kremen WS, Lyons MJ. Spiritual well-being and health. *Journal of Nervous and Mental Disease*. 2007;195(8):673-680. doi: 10.1097/NMD.0b013e31811f4062.

Tsuang MT, Williams WM, Simpson JC, Lyons MJ. Pilot study of spirituality and mental health in twins. *American Journal of Psychiatry*. 2002;159(3):486-488. [www.ncbi.nlm.nih.gov/pubmed/11870019](http://www.ncbi.nlm.nih.gov/pubmed/11870019).



**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Vaccarino V, Brennan ML, Miller AH, Bremner JD, Ritchie JC, Linclau F, Veleclar E, Su SY, Murrah NV, Jones L, Jawed F, Dai J, Goldberg J, Hazen SL. Association of major depressive disorder with serum myeloperoxidase and other markers of inflammation: A twin study. *Biological Psychiatry*. 2008;64(6):476-483. doi: 10.1016/j.biopsych.2008.04.023.

Vaccarino V, Goldberg J, Magruder KM, Forsberg CW, Friedman MJ, Litz BT, Heagerty PJ, Huang GD, Gleason TC, Smith NL. Posttraumatic stress disorder and incidence of type-2 diabetes: a prospective twin study. *J Psychiatr Res*. 2014;56:158-164. doi: 10.1016/j.jpsychires.2014.05.019.

Vaccarino V, Goldberg J, Rooks C, Shah AJ, Veledar E, Faber TL, Votaw JR, Forsberg CW, Bremner JD. Post-traumatic stress disorder and incidence of coronary heart disease: a twin study. *J Am Coll Cardiol*. 2013;62(11):970-978. doi: 10.1016/j.jacc.2013.04.085.

Vaccarino V, Khan D, Votaw J, Faber T, Veledar E, Jones DP, Goldberg J, Raggi P, Quyyumi AA, Bremner JD. Inflammation is related to coronary flow reserve detected by positron emission tomography in asymptomatic male twins. *J Am Coll Cardiol*. 2011;57(11):1271-1279. doi: 10.1016/j.jacc.2010.09.074.

Vaccarino V, Lampert R, Bremner JD, Lee F, Su S, Maisano C, Murrah NV, Jones L, Jawed F, Afzal N, Ashraf A, Goldberg J. Depressive symptoms and heart rate variability: evidence for a shared genetic substrate in a study of twins. *Psychosom Med*. 2008;70(6):628-636. doi: 10.1097/PSY.0b013e31817bcc9e.

Vaccarino V, Votaw J, Faber T, Veledar E, Murrah NV, Jones LR, Zhao JY, Su SY, Goldberg J, Raggi JP, Quyyumi AA, Sheps DS, Bremner JD. Major Depression and Coronary Flow Reserve Detected by Positron Emission Tomography. *Archives of Internal Medicine*. 2009;169(18):1668-1676. <Go to ISI>://WOS:000270680000005.

Vasilopoulos T, Franz CE, Panizzon MS, Xian H, Grant MD, Lyons MJ, Toomey R, Jacobson KC, Kremen WS. Genetic architecture of the Delis-Kaplan Executive Function System Trail Making Test: evidence for distinct genetic influences on executive function. *Neuropsychology*. 2012;26(2):238-250. doi: 10.1037/a0026768.

Vasilopoulos T, Grant MD, Franz CE, Panizzon MS, Xian H, Toomey R, Lyons MJ, Kremen WS, Jacobson KC. Shared and distinct genetic influences among different measures of pulmonary function. *Behav Genet*. 2013;43(2):141-150. doi: 10.1007/s10519-012-9582-6.

Vasilopoulos T, Kremen WS, Grant MD, Panizzon MS, Xian H, Toomey R, Lyons MJ, Jacobson KC, Franz CE. Individual differences in cognitive ability at age 20 predict pulmonary function 35 years later. *J Epidemiol Community Health*. 2014. doi: 10.1136/jech-2014-204143.

Vasilopoulos T, Kremen WS, Kim K, Panizzon MS, Stein PK, Xian H, Grant MD, Lyons MJ, Toomey R, Eaves LJ, Franz CE, Jacobson KC. Untreated hypertension decreases heritability of cognition in late middle age. *Behav Genet*. 2012;42(1):107-120. doi: 10.1007/s10519-011-9479-9.

Volk HE, Scherrer JF, Bucholz KK, Todorov A, Heath AC, Jacob T, True WR. Evidence for specificity of transmission of alcohol and nicotine dependence in an offspring of twins design. *Drug and Alcohol Dependence*. 2007;87(2-3):225-232. doi: 10.1016/j.drugalcdep.2006.08.023.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Vuoksima E, Panizzon MS, Chen CH, Eyer LT, Fennema-Notestine C, Fiecas M, Fischl B, Franz CE, Grant MD, Jak A, Lyons MJ, Neale MC, Thompson WK, Tsuang MT, Xian H, Dale AM, Kremen WS. Cognitive reserve moderates the association between hippocampal volume and episodic memory in middle age. *Neuropsychologia*. 2013. doi: 10.1016/j.neuropsychologia.2013.02.022.

Vuoksima E, Panizzon MS, Chen CH, Fiecas M, Eyer LT, Fennema-Notestine C, Hagler DJ, Fischl B, Franz CE, Jak A, Lyons MJ, Neale MC, Rinker DA, Thompson WK, Tsuang MT, Dale AM, Kremen WS. The Genetic Association Between Neocortical Volume and General Cognitive Ability Is Driven by Global Surface Area Rather Than Thickness. *Cereb Cortex*. 2015;25(8):2127-2137. doi: 10.1093/cercor/bhu018.

Vuoksima E, Panizzon MS, Hagler DJ, Jr., Hatton SN, Fennema-Notestine C, Rinker D, Eyer LT, Franz CE, Lyons MJ, Neale MC, Tsuang MT, Dale AM, Kremen WS. Heritability of white matter microstructure in late middle age: A twin study of tract-based fractional anisotropy and absolute diffusivity indices. *Hum Brain Mapp*. 2017;38(4):2026-2036. doi: 10.1002/hbm.23502.

Wingfield A, Panizzon M, Grant MD, Toomey R, Kremen WS, Franz CE, Jacobson KC, Eisen SA, Lyons M. A twin-study of genetic contributions to hearing acuity in late middle age. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2007;62(11):1294-1299. <Go to ISI>://WOS:000253829300015.

Wolf EJ, Miller MW, Krueger RF, Lyons MJ, Tsuang MT, Koenen KC. Posttraumatic stress disorder and the genetic structure of comorbidity. *J Abnorm Psychol*. 2010;119(2):320-330. doi: 10.1037/a0019035.

Wolf EJ, Mitchell KS, Koenen KC, Miller MW. Combat exposure severity as a moderator of genetic and environmental liability to post-traumatic stress disorder. *Psychol Med*. 2013:1-11. doi: 10.1017/S0033291713002286.

Xian H, Chantarujikapong SI, Scherrer JF, Eisen SA, Lyons MJ, Goldberg J, Tsuang M, True WR. Genetic and environmental influences on posttraumatic stress disorder, alcohol and drug dependence in twin pairs. *Drug and Alcohol Dependence*. 2000;61(1):95-102. <Go to ISI>://WOS:000166126800010.

Xian H, Giddens JL, Scherrer JF, Eisen SA, Potenza MN. Environmental factors selectively impact co-occurrence of problem/pathological gambling with specific drug-use disorders in male twins. *Addiction*. 2014;109(4):635-644. doi: 10.1111/add.12407.

Xian H, Scherrer JF, Eisen SA, Lyons MJ, Tsuang M, True WR, Bucholz KK. Nicotine dependence subtypes: association with smoking history, diagnostic criteria and psychiatric disorders in 5440 regular smokers from the Vietnam Era Twin Registry. *Addict Behav*. 2007;32(1):137-147. doi: 10.1016/j.addbeh.2006.03.031.

Xian H, Scherrer JF, Eisen SA, True WR, Heath AC, Goldberg J, Lyons MJ, Tsuang MT. Self-reported zygosity and the equal-environments assumption for psychiatric disorders in the Vietnam Era Twin Registry. *Behavior Genetics*. 2000;30(4):303-310. <Go to ISI>://WOS:000166619100005.

Xian H, Scherrer JF, Franz CE, McCaffery J, Stein PK, Lyons MJ, Jacobsen K, Eisen SA, Kremen WS. Genetic vulnerability and phenotypic expression of depression and risk for ischemic heart disease in

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

the Vietnam era twin study of aging. *Psychosom Med.* 2010;72(4):370-375. doi: 10.1097/PSY.0b013e3181d28125.

Xian H, Scherrer JF, Grant JD, Eisen SA, True WR, Jacob T, Bucholz KK. Genetic and environmental contributions to nicotine, alcohol and cannabis dependence in male twins. *Addiction.* 2008;103(8):1391-1398. doi: 10.1111/j.1360-0443.2008.02243.x.

Xian H, Scherrer JF, Madden PA, Lyons MJ, Tsuang M, True WR, Eisen SA. Latent class typology of nicotine withdrawal: genetic contributions and association with failed smoking cessation and psychiatric disorders. *Psychol Med.* 2005;35(3):409-419.  
<http://www.ncbi.nlm.nih.gov/pubmed/15841876>.

Xian H, Scherrer JF, Madden PAF, Lyons MJ, Tsuang M, True WR, Eisen SA. The heritability of failed smoking cessation and nicotine withdrawal in twins who smoked and attempted to quit. *Nicotine & Tobacco Research.* 2003;5(2):245-254. doi: 10.1080/1462220031000073667.

Xian H, Scherrer JF, Pergadia ML, Madden PA, Grant JD, Sartor CE, Haber JR, Jacob T, Bucholz KK. Contribution of parental psychopathology to offspring smoking and nicotine dependence in a genetically informative design. *J Stud Alcohol Drugs.* 2010;71(5):664-673.  
<http://www.ncbi.nlm.nih.gov/pubmed/20731971>.

Xian H, Scherrer JF, Slutske WS, Shah KR, Volberg R, Eisen SA. Genetic and environmental contributions to pathological gambling symptoms in a 10-year follow-up. *Twin Research and Human Genetics.* 2007;10(1):174-179. <Go to ISI>://WOS:000244823800019.

Xian H, Shah KR, Phillips SM, Scherrer JF, Volberg R, Eisen SA. Association of cognitive distortions with problem and pathological gambling in adult male twins. *Psychiatry Research.* 2008;160(3):300-307. doi: 10.1016/j.psychres.2007.08.007.

Xian H, Shah KR, Potenza MN, Volberg R, Chantarujikapong S, True WR, Lyons MJ, Tsuang MT, Eisen SA. A Latent Class Analysis of DSM-III-R Pathological Gambling Criteria in Middle-Aged Men: Association with Psychiatric Disorders. *J Addict Med.* 2008;2(2):85-95. doi: 10.1097/ADM.0b013e31816d699f.

Zhao J, An Q, Goldberg J, Quyyumi AA, Vaccarino V. Promoter methylation of glucocorticoid receptor gene is associated with subclinical atherosclerosis: A monozygotic twin study. *Atherosclerosis.* 2015;242(1):71-76. doi: 10.1016/j.atherosclerosis.2015.07.007.

Zhao J, Bremner JD, Goldberg J, Quyyumi AA, Vaccarino V. Monoamine Oxidase A Genotype, Childhood Trauma, and Subclinical Atherosclerosis: A Twin Study. *Psychosom Med.* 2013. doi: 10.1097/PSY.0b013e318292922a.

Zhao J, Cheema FA, Reddy U, Bremner JD, Su S, Goldberg J, Snieder H, Vaccarino V. Heritability of flow-mediated dilation: a twin study. *Journal of Thrombosis and Haemostasis.* 2007;5:2386-2392. <Go to ISI>://WOS:000251203600011.

Zhao J, Forsberg CW, Goldberg J, Smith NL, Vaccarino V. MAOA Promoter methylation and susceptibility to carotid atherosclerosis: role of familial factors in a monozygotic twin sample. *BMC Med Genet.* 2012;13(1):100. doi: 10.1186/1471-2350-13-100.

**Vietnam-Era Twin Registry Publications,**  
arranged in alphabetical order by author

Zhao J, Goldberg J, Bremner JD, Vaccarino V. Global DNA methylation is associated with insulin resistance: a monozygotic twin study. *Diabetes*. 2012;61(2):542-546. doi: 10.2337/db11-1048.

Zhao J, Goldberg J, Bremner JD, Vaccarino V. Association between promoter methylation of serotonin transporter gene and depressive symptoms: a monozygotic twin study. *Psychosom Med*. 2013;75(6):523-529. doi: 10.1097/PSY.0b013e3182924cf4.

Zhao J, Goldberg J, Vaccarino V. Leukotriene A4 hydrolase haplotype, diet and atherosclerosis: a twin study. *Atherosclerosis*. 2013;226(1):238-244. doi: 10.1016/j.atherosclerosis.2012.10.048.

Zhao J, Goldberg J, Vaccarino V. Promoter methylation of serotonin transporter gene is associated with obesity measures: a monozygotic twin study. *Int J Obes (Lond)*. 2013;37(1):140-145. doi: 10.1038/ijo.2012.8.

Zhao JY, Cheema FA, Bremner JD, Goldberg J, Su S, Snieder H, Maisano C, Jones L, Javed F, Murrah N, Le NA, Vaccarino V. Heritability of carotid intima-media thickness: A twin study. *Atherosclerosis*. 2008;197(2):814-820. doi: 10.1016/j.atherosclerosis.2007.07.030.