

Curriculum Vitae

Ayman Hafez Fanous, M.D.

PERSONAL INFORMATION:

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Current Position: Chief, Psychiatric Genetics Research Program and Staff Psychiatrist
Mental Health Service Line
Washington VA Medical Center

LICENSURE: Virginia Medical License - 0101 222203
Initial Date: 7/23/1999
Renewal/Expiration Date: 9/30/2014

New York Medical License – 207251 (not active)

BOARD CERTIFICATION:

American Board of Psychiatry and Neurology
Year of Certification: 2001
Year of Expiration: 2011

EDUCATION:

Medical: MD, Medical College of Virginia, of Virginia Commonwealth University (VCU), 1991-1995

Undergraduate: BA, University of Virginia, (Philosophy), 1986-1990

High School: West Potomac High School, Alexandria, VA, 1986

Post-Doctoral Training:

- 1999-2003: Post-doctoral training in psychiatric genetics, Virginia Institute for Psychiatric and Behavioral Genetics, VCU.
Research mentor: Kenneth S. Kendler, M.D., statistical mentor: Michael C. Neale, Ph.D.
- 1997-1999 Research Track in psychopharmacology, functional MRI, New York University School of Medicine. Research mentors: Adam Wolkin, M.D., Jean-Pierre Lindenmayer, M.D., Robert Cancro, M.D.
- 1995-1999: Residency in Psychiatry, New York University School of Medicine. Clinical sites included Bellevue, Lenox Hill, and Tisch Hospitals, Manhattan Psychiatric Center, and New York Veteran's Affairs Medical Center. Department Chair: Robert Cancro, M.D.

PROFESSIONAL EXPERIENCE:**Academic Appointments:**

- 7/2013-present: Associate Professor of Mental Health (Adjunct), Bloomberg School of Public Health, Johns Hopkins University
- 1/2010-present: Research Associate Professor of Psychiatry (Adjunct), Keck School of Medicine of the University of Southern California
- 7/2009-present: Associate Clinical Professor of Psychiatry (Adjunct), Medical College of Virginia of Virginia Commonwealth University
- 7/2008-present: Associate Professor of Psychiatry, Georgetown University School of Medicine
- 2/2004-6/2008: Assistant Professor of Psychiatry, Georgetown University School of Medicine
- 1/2001-6/2009: Assistant Clinical Professor of Psychiatry (Adjunct since 2003), Medical College of Virginia of Virginia Commonwealth University
- 7/1999-12/2001: Assistant Professor of Psychiatry, Medical College of Virginia of Virginia Commonwealth University

Clinical Appointments:

- 2003-present: Attending Psychiatrist and Director, Depot Antipsychotic Clinic, Mental Health Service Line, Washington VA Medical Center, Washington, D.C.
- 2003: Attending Psychiatrist, Dual Diagnosis/STAT Team, Inpatient Division, Department of Psychiatry, Medical College of Virginia Hospitals
- 2001: Attending Psychiatrist, Schizophrenia Unit, Inpatient Division, Department of Psychiatry, Medical College of Virginia Hospitals
- 1999-2000: Director, Affective Disorders Unit, Inpatient Division, Department of Psychiatry, Medical College of Virginia Hospitals

HONORS AND AWARDS:

Eleanor Jernigan Endowment Investigator, Brain and Behavior Foundation (formerly NARSAD), 2008

Emory University Travel Award to attend “Future Leaders in Psychiatry” conference, April, 2004, West Palm Beach, FL

American Psychiatric Association/Lilly Psychiatric Research Fellowship, 2001

Essel Investigator, NARSAD, 2001

Janssen Pharmaceutica Travel Award to attend the American Society of Clinical Psychopharmacology President's Day Weekend, February, 1999

National Institute of Mental Health Outstanding Resident Award, November, 1997

American Psychiatric Association Program for Minority Research Training in Psychiatry (PMRTP) Travel Award to attend the American College of Neuropsychopharmacology (ACNP) meeting in San Juan, Puerto Rico, December, 1996, and invitation for four subsequent years.

PROFESSIONAL SOCIETIES:

American Society of Human Genetics (2012-present)

Bellevue Psychiatric Society (1999-present)

American Psychiatric Association (1993-present)

PUBLIC SERVICE:**Peer Review for Scientific Journals:**

Ad hoc reviewer: *Archives of General Psychiatry, American Journal of Psychiatry, Molecular Psychiatry, Biological Psychiatry, Psychological Medicine, Acta Psychiatrica Scandinavica, Schizophrenia Bulletin, Journal of Medical Genetics, American Journal of Medical Genetics (Neuropsychiatric Genetics), Psychiatry Research, Schizophrenia Research, Neurotoxicity Research, Journal of Nervous and Mental Disease, The Pharmacogenomics Journal, Cortex, European Journal of Psychiatry, Neuroscience Letters, World Journal of Biological Psychiatry, Hepatology, Journal of Personality*

Institutional Scientific/Ethics Review:

Voting Member, Institutional Review Board, Washington VA Medical Center (2006-present)
 Ad Hoc Reviewer, Research and Development Committee, Washington VA Medical Center (2004-present)

Research Consortium Membership:

Advisory Committee, Bipolar Disorder Sequencing Consortium, Member since 2014
 Psychiatric Genomics Consortium, Cross-Disorders Workgroup, Member since 2011
 PhenX Psychiatric Disorders Working Group, Member since 2009 (<https://www.phenx.org/>)
 Psychiatric Genomics Consortium, Schizophrenia Workgroup, Member and co-chair of Phenotype Committee since 2008 (<https://pgc.unc.edu/>)
 International Schizophrenia Consortium, Member since 2008 (<http://pngu.mgh.harvard.edu/isc/>)

Study Sections:

2012-2014: NIMH Behavioral Genetics and Epidemiology Study Section (Ad Hoc)
 2009: Medical Research Council, United Kingdom (Ad Hoc)
 2008: Department of Veterans Affairs Merit Review Program Mental Health and Behavioral Sciences-B Subcommittee (Ad Hoc)
 2008: Health Research Board, Republic of Ireland (Ad Hoc)
 2008: Austrian Science Foundation (Ad Hoc)

Community Service:

Volunteer physician, St. Luke's Hope Clinic of St. Mark Coptic Orthodox Church, Fairfax, VA (2003-present)

INVITED LECTURES:

“A Primer on Genomics Research,” Genomics and Ethics Research Workshop, National Rehabilitation Hospital, November 14, 2014

“Genetic Dissection of Research Domain Criteria in the Schizophrenia Spectrum,” NIMH Seminar Series: New Discoveries in Mental Health Research, Division of Intramural Research, NIMH, November 7, 2014

“Genetic Dissection of Complex Disorders: The Example of Schizophrenia,” Keynote address, Psychiatric Society of Virginia annual meeting, September 21, 2013

“Genetic Dissection of Complex Disorders: the Case of Schizophrenia”, Research Grand Rounds, Georgetown-Howard Universities Center for Clinical and Translational Science, September 20, 2013

“Genome-wide Association Study of Symptomatic Dimensions of Schizophrenia in the Psychiatric Genomics Consortium: Confirmation of Polygenic Effect on Negative Symptoms.” May 16, 2013, Society of Biological Psychiatry annual meeting, San Francisco, California.

“CACNA1C as a Genetic Modifier of Psychotic Illness,” part of symposium “CACNA1C: A Risk Factor for Psychoses - Next Steps.” Society of Biological Psychiatry annual meeting, Philadelphia, PA, May 4, 2012

“Genetic Dissection of Complex Disorders: the Case of Schizophrenia, Grand Rounds, Virginia Commonwealth University, Department of Psychiatry, November 18, 2011

“Genetic Dissection of Complex Disorders: the Case of Schizophrenia”, Grand Rounds, Washington Veterans Affairs Medical Center, Department of Medicine, November 16, 2011

“Can genetics explain the heterogeneity of psychiatric illness?” Grand Rounds, SUNY Stonybrook Department of Psychiatry, March 22, 2011

“Can genetics explain the heterogeneity of psychiatric illness?” Seminar Series, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, February 23, 2011

“Boundaries of Psychosis,” part of symposium presented at Society of Biological Psychiatry annual meeting, Vancouver, BC, May 14, 2009

“SNAP-25 is Associated with Schizophrenia in 270 Irish High Density Families” May 19, 2007, Society for Biological Psychiatry annual meeting, San Diego, California

“SNAP-25 is Associated with Schizophrenia in 270 Irish High Density Families, Following Genome-Wide Linkage to Chromosome 20p12.3-q13.12 Using Latent Classes of Psychotic Illness”. October 30, 2006, World Congress of Psychiatric Genetics, Cagliari, Italy.

“Dysbindin and Schizophrenic Psychopathology”, part of symposium entitled “Dysbindin Positive Schizophrenia: Associations with Cognition and Negative Symptoms” Society for Biological Psychiatry Annual Meeting, Toronto, Canada, May 20, 2006

“Explaining the Heterogeneity of Schizophrenia: A Genetic Perspective”. Thirteenth Annual Maryland Schizophrenia Conference, November 1, 2005, Baltimore, MD.

“Genome Scan for Modifier Loci in Schizophrenia”. September 12, 2005, World Congress of Psychiatry, Cairo, Egypt.

“A Genome-Wide Scan of Schizotypy in 270 Irish Multiplex Schizophrenia Families Reveals a Significant Genetic Correlation With Schizophrenia”. May 21, 2005, Society for Biological Psychiatry annual meeting, Atlanta, Georgia.

“The Genetic Relationship of Personality to Major Depression in Male Twins”. May 19, 2005, Society for Biological Psychiatry annual meeting, Atlanta, Georgia.

“Can Genetics Explain the Clinical Variation of Psychiatric Illness? The Case of Schizophrenia”. Georgetown University Psychiatry Grand Rounds, April 28, 2005

“The Prediction of Suicidal Ideation”. Psychiatry Grand Rounds, Washington VAMC, May 27, 2004

“Genetic Relationship between Personality, Major Depression, and Schizophrenia”. Presented at Genes and Environment Interact in Psychiatric Illness, annual meeting of Fundación Cerebro y Mente, Mojacar, Spain, October 16, 2003.

UNIVERSITY SERVICE:

Scientific Evaluation and Prioritization Committee (SEPCOM) Georgetown-Howard Universities Center for Clinical and Translational Studies, Member since 2010

Resident Research Committee, Georgetown University Medical Center Department of Psychiatry: Member since 2006, Chair since 2008

Ph.D. Oral Examination Committee for T. Bernard Bigdeli, doctoral candidate in human genetics, VCU, 2012

Ph.D. Oral Examination Committee for Sarah Bergen, MS, doctoral candidate in human genetics, VCU, 2009

TEACHING ACTIVITIES:

I. Classroom Teaching

A. Georgetown University School of Medicine

Lectures:

- 2010-present: Discussant, Medical Student Psychopharmacology Elective
- 2007-present: Genetics of Schizophrenia, PGY-II psychiatry residents
- 2006-present: Clinical Neuroscience in Psychiatry (2nd year Medical Students and PGY-IV psychiatry residents)
- 2006-present: Weekly Journal Club for Psychiatry Trainees, Washington VA Medical Center
- 2005-2008: Bipolar Disorders (2nd year Medical Students)
- 2005: Psychiatric Genetics (2nd year Medical Students)

Other Teaching: 2004-present: Individual clinical supervision of psychiatric residents and medical students. PGY-4 Rotation, Depot Antipsychotic Clinic, DCVAMC (1 resident per six-month block)

B. Medical College of Virginia of Virginia Commonwealth University:

Lectures: 1999-2003: Introduction to Diagnostic Interviewing (PGY-I)
 1999-2003: Introduction to Mood Disorders (PGY-I)
 1999-2001: Antidepressants (PGY-II)
 2001: Treatment of Schizophrenia (PGY-II)
 2001: Family-based Association Tests for Quantitative Traits (Human Genetics graduate students)
 2001-2003: Research Methods in Psychiatry (PGY-III)
 2002-2003: Molecular Biology and Behavioral Genetics (PGY-III)
 2003: Introduction to Psychiatric and Behavioral Genetics (3rd yr Pharmacy students)

Course Director: 1999-2000: Mood Disorders, comprising 6 lectures (PGY-II)

II. Mentoring

A. Georgetown University Medical Center (GUMC) Department of Psychiatry Residency Training Program, 4th year research requirement (all projects resulted in poster presentations at GUMC's annual research poster session):

2014: Marie-Rose Alam, MD; Prevalence of cancer in schizophrenia
 2013-present: Deepali Gangahar, MD; Comparison of PTSD with other psychiatric disorders in a representative VA sample
 2012: Carlina Mejia, MD; Metabolic abnormalities in typical vs. atypical antipsychotic use
 2011: Sonal Jagasia, MD; Survey research of mental health provider attitudes
 2011-2012: Arkady Korotinsky, MD; COMT and clinical features of psychosis
 2009-2010: Sai Ramanujam, MD; Cognitive and personality abnormalities in relatives of patients with schizophrenia
 2006-2007: Isabelle Kanellopoulou, MD; The serotonin transporter and clinical features of psychosis

B. VCU, Ph.D in Human Genetics:

Oral defense 1/5/2012: T. Bernard Bigdeli, "Statistical Approaches to Dissecting Heterogeneity in Complex Traits." Current position/outcome: postdoctoral associate, VCU; multiple first-authored papers.

Oral defense 9/18/2009: Sarah Bergen, "Genes and Symptoms of Schizophrenia: Modifiers, Networks, and Interactions in Complex Disease." Current position/outcome: Docent, Karolinska Institutet, Stockholm; multiple first-authored papers

C. VCU, Post-doctoral trainees/junior faculty in Psychiatric Genetics:

2013-present: T. Bernard Bigdeli, Ph.D., Genome-wide association studies of clinical features of schizophrenia in the Psychiatric Genomics Consortium

2014: Anna Docherty, Ph.D., Genome-wide association studies of clinical features of schizophrenia

2014: Alexis Edwards, Ph.D. (Asst. Prof), Genome-wide association studies of symptomatic dimensions of schizophrenia

D. Johns Hopkins Bloomberg School of Public Health, Postdoctoral trainee in Psychiatric Genetics:

2013: Kelly Benke, Ph.D., Whole-genome sequence analysis of schizophrenia and bipolar disorder pedigrees

III. CME Teaching

2000: Round Table Discussion Leader, "Refractory Depression", in Research Updates on the Diagnosis and Treatment of Chronic Depression; Williamsburg, VA, June 24, 2000

2005-2007: Statistical Consultant, American Psychiatric Association Colloquium for Young Investigators

IV. Teaching Awards

2013: Volunteer Faculty Award, GUMC Department of Psychiatry Residency Program

COLLABORATIVE ACTIVITIES (GUMC)**Grants:**

5-P01-CA130821 (Co-investigator; PI Lopa Mishra, MD)	(9/2008-8/2014)
NCI	\$1,230,089
Cellular and Molecular Mechanisms of Gastrointestinal Cancers	

SCHOLARSHIP AND RESEARCH**A. Research Grants: Current Active**

VA Merit Review Program (PI, 25%)	7/1/2012-6/30/2016
Dept. of Veterans Affairs	\$600,000
Convergent Genetic and Genomic Analyses of Bipolar Disorder	
This project aims to perform linkage, association, and sequencing analysis of bipolar disorder using the Portuguese Island Collection.	

VA Merit Review Program (PI, 25%)	1/1/2011-12/31/2015
Dept. of Veterans Affairs	\$600,000
Convergent Genetic and Genomic Analyses of Schizophrenia	

This project aims to perform linkage, association, and genome-wide expression analysis of schizophrenia using the Portuguese Island Collection.

CSPG002 (Local Site Investigator ; PIs J. Concato, M. Gaziano) 9/1/2010-8/31/2015

VA Genomic Medicine Program

Dept. of Veterans Affairs

Million Veterans Program

This project aims to collect biomaterials and phenotypic information on 1,000,000 veterans nationwide, to be used in future genetic studies of numerous illnesses afflicting veterans. Phenotypic information includes lifestyle questionnaires, brief symptom inventories and personality questionnaires.

Independent Investigator Award (PI, 10%)

6/15/2009-6/14/2015

NARSAD

\$100,000

Molecular Genetics of Schizophrenia in Egypt

This project aims to collect a sample of schizophrenic cases and controls in Egypt. This sample will eventually be used for candidate gene, genome-wide association, and sequencing studies.

5-R01-MH085548-04 (Consultant; PIs C. Pato, M. Pato)

9/30/2008-5/31/2014

Genomic Psychiatry Cohort

\$16,328,305

This project aims to expand the resources currently available to the field, through the NIMH Repository, with an additional sample of 10,000 well-characterized patients with schizophrenia and 10,000 controls from the same geographic regions. Further, a genome-wide association study of 5,000 patients and 5,000 controls will be performed to identify genetic risks for schizophrenia.

C. Research Grants: Previous

CSP#572 (Local Site Investigator; PI's L. Siever, P. Harvey, J. Concato, M. Gaziano)

4/15/2010-7/31/2014

VA Cooperative Studies Program

Dept. of Veterans Affairs

Genetics of Disability in Schizophrenia and Bipolar Disorder

This project aims to collect a sample of 9,000 schizophrenic and 9,000 bipolar patients in the VA system nationwide. This will be used for GWAS of both disorders, as well as of cognitive dysfunction and disability.

1-R01-MH083094-01 (Consultant; PI Brien Riley)

4/1/2004-3/31/2009

NIMH

A Genome-wide Association Study of Schizophrenia in Ireland. \$3,441,966

This study conducted a GWA study of schizophrenia in 2357 affected individuals and 2000/8000 controls through collection of 900K SNP array data and analysis for association with schizophrenia, and to make data and samples available via the NIMH repository.

Project assigned **High Program Priority** by Mental Health National Advisory Council,

1/08

- 1-R01-MH068881-01 (Consultant; PI Brien Riley) 4/1/2004-3/31/2008
 NIMH \$489,000
 Multicenter Genetic Studies of Schizophrenia
 Collaborative, multicenter study of schizophrenia undertaking new full genome scan in collaborative sample as well as continuing genotyping in markers in suggested linkage regions of schizophrenia.
- VA Merit Review Program (PI, 25%) 9/1/2004-8/31/2007
 Dept. of Veterans Affairs \$450,000
 Linkage Disequilibrium Mapping of Susceptibility Genes for Schizophrenia
 This was a positional cloning project using the Irish Study of High Density Schizophrenia Families (ISHDSF).
- Young Investigator Award (PI, 25%) 7/1/2003-6/31/2005
 American Foundation for Suicide Prevention \$50,000
 The Molecular Genetics of Suicidal Ideation in Schizophrenia
 This project tested candidate genes for association with suicidal ideation in the ISHDSF.
- 1 R03 MH65622-01 (PI, 50%) 8/2002-7/2004
 NIMH \$50,000
 Neurogenin1 and Schizophrenia: An Association Study
 This project sequenced the gene encoding neurogenin1 and to test discovered variants for association with schizophrenia in the ISHDSF
- Psychiatric Research Fellowship (PI, 50%) 7/1/2002-6/31/2003
 American Psychiatric Association/Lilly \$45,000
 Modifier Loci in Schizophrenia
 This project aimed to test several quantitative traits for linkage in the ISHDSF. The goal was to detect genomic regions that harbor genes influencing clinical dimensions of schizophrenia.
- Young Investigator Award (PI, 50%) 7/1/2000-6/31/2002
 NARSAD \$60,000
 Quantitative trait loci and haplotype analysis of high-density schizophrenia families
 This project used quantitative trait locus (QTL) analysis using symptom factors in affected relatives and personality traits in unaffected relatives to test for linkage to illness in the ISHDSF. It also aimed to use haplotype analysis to help identify susceptibility genes.

D. Publications

1. Original Papers in Refereed Journals

1. Gusev A, Lee SH, Trynka G, Finucane H, Vilhjálmsón BJ, Xu H, Zang C, Ripke S, Bulik-Sullivan B, Stahl E; Schizophrenia Working Group of the Psychiatric Genomics Consortium; SWE-SCZ Consortium, Kähler AK, Hultman CM, Purcell SM, McCarroll SA, Daly M, Pasaniuc B, Sullivan PF, Neale BM, Wray NR, Raychaudhuri S, Price AL; **Schizophrenia Working Group of the Psychiatric Genomics Consortium; SWE-**

- SCZ Consortium. Partitioning heritability of regulatory and cell-type-specific variants across 11 common diseases. *Am J Hum Genet.* 2014 Nov 6;95(5):535-52. doi: 10.1016/j.ajhg.2014.10.004. Epub 2014 Nov 6.
2. Arnedo J, Svrakic DM, Del Val C, Romero-Zaliz R, Hernández-Cuervo H; Molecular Genetics of Schizophrenia Consortium, **Fanous AH**, Pato MT, Pato CN, de Erausquin GA, Cloninger CR, Zwir I. Uncovering the Hidden Risk Architecture of the Schizophrenias: Confirmation in Three Independent Genome-Wide Association Studies. *Am J Psychiatry.* 2014 Sep 15. doi: 10.1176/appi.ajp.2014.14040435. [Epub ahead of print]
 3. Schizophrenia Working Group of the **Psychiatric Genomics Consortium**. Biological insights from 108 schizophrenia-associated genetic loci. *Nature.* 2014 Jul 24;511(7510):421-7. doi: 10.1038/nature13595. Epub 2014 Jul 22.
 4. Nicodemus KK, Hargreaves A, Morris D, Anney R, Gill M, Corvin A, Donohoe G; **Schizophrenia Psychiatric Genome-wide Association Study (GWAS) Consortium**; Wellcome Trust Case Control Consortium 2. Variability in working memory performance explained by epistasis vs polygenic scores in the ZNF804A pathway. *JAMA Psychiatry.* 2014 Jul 1;71(7):778-85.
 5. Morris DW, Pearson RD, Cormican P, Kenny EM, O'Dushlaine CT, Perreault LP, Giannoulatou E, Tropea D, Maher BS, Wormley B, Kelleher E, Fahey C, Molinos I, Bellini S, Pirinen M, Strange A, Freeman C, Thiselton DL, Elves RL, Regan R, Ennis S, Dinan TG, McDonald C, Murphy KC, O'Callaghan E, Waddington JL, Walsh D, O'Donovan M, Grozeva D, Craddock N, Stone J, Scolnick E, Purcell S, Sklar P, Coe B, Eichler EE, Ophoff R, Buizer J, Szatkiewicz J, Hultman C, Sullivan P, Gurling H, McQuillin A, St CD, Rees E, Kirov G, Walters J, Blackwood D, Johnstone M, Donohoe G, **International Schizophrenia Consortium**, SGENE+ Consortium, O'Neill FA; Wellcome Trust Case Control Consortium, O'Neill FA, Kendler KS, Gill M, Riley BP, Spencer CC, Corvin A. An inherited duplication at the gene p21 Protein-Activated Kinase 7 (PAK7) is a risk factor for psychosis. *Hum.Mol.Genet.* Epub 3-9-2014.
 6. Bergen SE, O'Dushlaine CT, Lee PH, **Fanous AH**, Ruderfer DM, Ripke S, Sullivan PF, Smoller JW, Purcell SM, Corvin A. Genetic modifiers and subtypes in schizophrenia: Investigations of age at onset, severity, sex and family history. *Schizophr.Res.* Epub 2-25-2014.
 7. Andreassen OA, Harbo HF, Wang Y, Thompson WK, Schork AJ, Mattingsdal M, Zuber V, Bettella F, Ripke S, Kelsoe JR, Kendler KS, O'Donovan MC, Sklar P, The **Psychiatric Genomics Consortium (PGC)** Bipolar Disorder and Schizophrenia Work Groups; The International Multiple Sclerosis Genetics Consortium (IMSGC), McEvoy LK, Desikan RS, Lie BA, Djurovic S, Dale AM. Genetic pleiotropy between multiple sclerosis and schizophrenia but not bipolar disorder: differential involvement of immune-related gene loci. *Mol.Psychiatry* . Epub 1-28-2014.
 8. Hartz SM, Pato CN, Medeiros H, Cavazos-Rehg P, Sobell JL, Knowles JA, Bierut LJ, Pato MT, Abbott C, Azevedo MH, Belliveau R, Bevilacqua E, Bromet EJ, Buckley PF, Dewan MJ, Escamilla MA, **Fanous AH**, Fochtmann LJ, Kinkead R, Kotov R, Lehrer DS, Macciardi F, Malaspina D, Marder SR, McCarroll SA, Moran J, Morley CP, Nicolini H,

- Perkins DO, Potkin SG, Purcell SM, Rakofsky JJ, Rapaport MH, Scolnick EM, Sklar B, Sklar P, Smoller JW, Sullivan PF, Vivar A. Comorbidity of Severe Psychotic Disorders With Measures of Substance Use. *JAMA Psychiatry* . Epub 1-1-2014.
9. Sun J, Zhao M, **Fanous AH**, Zhao Z. Characterization of schizophrenia adverse drug interactions through a network approach and drug classification. *Biomed.Res.Int.* 2013, 458989. 2013.
 10. Hargreaves A, Anney R, O'Dushlaine C, Nicodemus KK, **Schizophrenia Psychiatric Genome-Wide Association Study Consortium (PGC-SCZ)**; Wellcome Trust Case Control Consortium 2, Gill M, Corvin A, Morris D, Donohoe G. The one and the many: effects of the cell adhesion molecule pathway on neuropsychological function in psychosis. *Psychol.Med.* 1-11. Epub 11-28-2013.
 11. **Fanous AH***, Ruderfer D*, Ripke S*, McQuillin A, Amdur RL, Bipolar Disorder Working Group of the Psychiatric Genomics Consortium, Schizophrenia Working Group of the Psychiatric Genomics Consortium, Cross-Disorder Working Group of the Psychiatric Genomics Consortium, Craddock N, Corvin A, Sullivan PF, Holmans P, Sklar P, Kendler KS. Polygenic dissection of diagnosis and clinical dimensions of bipolar disorder and schizophrenia. *Molecular Psychiatry*. Epub 11-26-2013. *contributed equally
 12. Bigdeli TB, Maher BS, Zhao Z, Sun J, Medeiros H, Akula N, McMahon FJ, Carvalho C, Ferreira SR, Azevedo MH, Knowles JA, Pato MT, Pato CN, **Fanous AH**. Association study of 83 candidate genes for bipolar disorder in chromosome 6q selected using an evidence-based prioritization algorithm. *Am.J.Med.Genet.B Neuropsychiatr.Genet.* 162[8], 898-906. 2013.
 13. Lee D, Bigdeli TB, Riley BP, **Fanous AH**, Bacanu SA. DIST: direct imputation of summary statistics for unmeasured SNPs. *Bioinformatics.* 29[22], 2925-2927. 11-15-2013.
 14. Bigdeli TB, Bacanu SA, Webb BT, Walsh D, O'Neill FA, **Fanous AH**, Riley BP, Kendler KS. Molecular Validation of the Schizophrenia Spectrum. *Schizophr.Bull.* 40[1], 60-65. 2014.
 15. de Candia TR, Lee SH, Yang J, Browning BL, Gejman PV, Levinson DF, Mowry BJ, Hewitt JK, Goddard ME, O'Donovan MC, Purcell SM, Posthuma D; **International Schizophrenia Consortium**, Visscher PM, Wray NR, Keller MC. Additive genetic variation in schizophrenia risk is shared by populations of african and European descent. *Am.J.Hum.Genet.* 93[3], 463-470. 9-5-2013.
 16. Lee SH, Ripke S, Neale BM, Faraone SV, Purcell SM, Perlis RH, Mowry BJ, Thapar A, Goddard ME, Witte JS, Absher D, Agartz I, Akil H, Amin F, Andreassen OA, Anjorin A, Anney R, Anttila V, Arking DE, Asherson P, Azevedo MH, Backlund L, Badner JA, Bailey AJ, Banaschewski T, Barchas JD, Barnes MR, Barrett TB, Bass N, Battaglia A, Bauer M, Bayes M, Bellivier F, Bergen SE, Berrettini W, Betancur C, Bettecken T, Biederman J, Binder EB, Black DW, Blackwood DH, Bloss CS, Boehnke M, Boomsma DI, Breen G, Breuer R, Bruggeman R, Cormican P, Buccola NG, Buitelaar JK, Bunney WE, Buxbaum JD, Byerley WF, Byrne EM, Caesar S, Cahn W, Cantor RM, Casas M, Chakravarti A,

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4. Abstracts

Benke KS; Maher BS; Bigdeli T; Knowles JA; Medeiros H, Sobell J, Bevilacqua E, Moran J, Nemesh J, Genovese G, Handsaker R, O’Dushlaine C, Pato M, McCarroll S, Pato CN, **Fanous AH**. Whole genome sequencing study of multiply-affected schizophrenia and bipolar disorder families from the Portuguese Island population. Oral presentation, Molecular Psychiatry annual meeting, San Francisco, CA, November 7, 2014 and poster presented at World Congress of Psychiatric Genetics, Copenhagen, Denmark, October 12-16, 2014.

Bigdeli TB, **Fanous AH**. Mega-Analysis of Age at Onset of Bipolar Disorder, Major Depressive Disorder and Schizophrenia in the Psychiatric Genomics Consortium. Oral presentation at World Congress of Psychiatric Genetics, Copenhagen, October 12-16, 2014.

Docherty AR, Bigdeli TB, Edwards AC, Bacanu SA, Lee D, Neale MC, Moscati A, Riley BP, Kendler KS, **Fanous AH**. Genome-wide gene-based analysis of psychotic symptom dimensions based on a new schizophrenia-specific model of the OPCRIT. Poster presented at World Congress of Psychiatric Genetics, Copenhagen, October 12-16, 2014.

Alexis C. Edwards, T. Bernard Bigdeli, Anna Docherty, Arden Moscati, Brien P. Riley, Kenneth S. Kendler, **Ayman H. Fanous**. Meta-analysis of positive and negative symptoms reveals schizophrenia modifier genes, including Neuregulin 1. Poster presented at World Congress of Psychiatric Genetics, Copenhagen, October 12-16, 2014.

Bigdeli T, Edwards A, Peterson R, Li Y, Kretzschmar W, Yang F, Maes H, **Fanous AH**, Webb BT, Riley BP, Wang J, Shi S, Chen Y, Marchini J, Mott R, Bacanu SA, Flint J, Kendler KS: Genomic partitioning and cross-population polygene scoring of major depressive disorder in N=11,651 Han Chinese women using low-pass sequencing data. Oral presentation given at Behavior Genetics Association annual meeting, Charlottesville, VA, June 19, 2014.

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Peterson RE, Bigdeli TB, Li Y, Kretschmar W, Yang R, Maes HH, **Fanous AH**, Bacanu S, Riley BP, Wang J, Shi S, Chen Y, Marchini J, Mott J. On the Association of Common Polygenic Variation with Body Mass Index in 7,062 Han Chinese Women Using Low Pass Sequencing: Genome-wide Association, Genetic Risk Scores, and GCTA. Presented at American Society of Human Genetics annual meeting, Boston, MA, October, 2013

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Fanous AH, Zhou B, Aggen SH, Bergen SE, Amdur RL, Duan J, Sanders AR, Shi J, Mowry BJ, Olincy A, Amin F, Cloninger CR, Silverman JM, Buccola NG, Byerley WF, Black DW, Freedman R, Dudbridge F, Holmans PA, Ripke S, Gejman PV, Kendler KS, Levinson DF; Schizophrenia Psychiatric Genome-Wide Association Study (GWAS) Consortium. Genome-wide association study of clinical dimensions of Schizophrenia. Poster presented at World Congress of Psychiatric Genetics, Hamburg, Germany, October 16, 2012

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A. Fanous, Z. Zhao, J. Sun, R. Amdur, O. Evgrafov, A. Clark, H. Medeiros, M. Pato, C. Pato, J. Knowles: Whole-genome sequencing of individuals from the Portuguese Island Cohort (PIC). Poster presented at World Congress of Psychiatric Genetics, Washington DC, September 12, 2011

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Fanous AH, Middleton FA, Amdur RL, Pato MT, Medeiros H, Knowles, JA, Azevedo M, Pato CN: Very High-Density Linkage Survey of Schizophrenia and Bipolar Disorder Reveals Genetic Overlap and Implicates Novel Regions and Genes: Poster presented at American Society of Human Genetics Annual Meeting, Washington, DC, Nov. 4, 2011

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Fanous AH, Middleton FA, Amdur RL, Pato MT, Medeiros H, Knowles, JA, Azevedo M, Pato CN: High-Density Linkage Survey of Schizophrenia and Psychosis in the Portuguese Island Collection. Poster presented at ACNP annual meeting, Scottsdale, AZ, Dec. 10, 2008

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Languages

French (written and spoken fluently), Spanish (conversational), Arabic (spoken fluently)

Personal Interests

Reading poetry, swimming, mountain biking; guitarist with two internationally distributed CD releases (*Labyrinths*, Konnex Records, 2007; *Zilzal*, Innova Recordings, 2013); led duos and trios with numerous internationally renowned musicians.