

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME John Michael Hettema		POSITION TITLE Assistant Professor, Psychiatry	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Columbia University, New York, NY	B.S.	1980	Applied Physics
Yale University, New Haven, CT	M.Phil.	1983	Physics
Yale University, New Haven, CT	Ph.D.	1990	Physics
Medical College of Virginia, VCU, Richmond, VA	M.D.	1996	Medicine
Medical College of Virginia, VCU, Richmond, VA		2000	Psychiatry

POSITIONS:

1988-1990 Post-doctoral Research Associate, University of Virginia, Charlottesville, VA
 1990-1992 Senior Scientist, Nichols Research Corporation, Vienna, VA
 1996-2000 Housestaff Officer in Psychiatry, MCV Hospitals, Richmond, VA
 1998-2000 Medical Officer (part-time), Central State Hospital, Petersburg, VA
 1998-present Staff Psychiatrist (part-time), Chesterfield County CSB, Chesterfield, VA
 1999-2001 NIMH Research Fellow, Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth University, Richmond, VA
 2000-2001 Clinical Instructor, Dept. of Psychiatry, MCV/VCU, Richmond, VA
 2001-present Psychiatrist, VCU Mood Disorders Institute, Richmond, VA
 2001-present Assistant Professor of Psychiatry, Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth University, Richmond, VA

HONORS

1975,1980 Dean's Honor List, Columbia University
 1992 Outstanding Scientist Award, Nichols Research Corp.
 1994, 1995 Kinloch Nelson Award for Outstanding Academic Achievement, MCV
 1994 2nd Place Award for Best Research Paper, Kinloch Nelson Student Honors Day
 1995 Election to Alpha Omega Alpha Medical Honor Society, MCV
 1995 Rock Sleyster Scholar, American Medical Association
 1996 Election to Honor Society of Phi Kappa Phi
 1998 Research Colloquium for Junior Investigators, APA Annual Meeting
 1999 Organon Annual Excellence in Psychiatry Award
 2001 APA/SmithKline Beecham Young Faculty Award for Research Development
 2001 Pfizer/Society for Women's Health Research Scholar

PROFESSIONAL MEMBERSHIPS

American Psychiatric Association, 1992-present
 National Alliance for the Mentally Ill, 1999-present
 Anxiety Disorders Association of America, 2001-present
 International Society for Psychiatric Genetics, 2003-present

PUBLICATIONS**A. PSYCHIATRY**

- 1) J.M. Hettema, M.C. Neal, and K.S. Kendler. "Physical Similarity and the Equal-Environment Assumption in Twin Studies of Psychiatric Disorders." *Behavior Genetics* **25**, 327 (1995).
- 2) J.M. Hettema, D. Walsh, and K.S. Kendler. "Testing the Effect of Season of Birth on Familial Risk for Schizophrenia and Related Disorders." *British Journal of Psychiatry* **168**, 205 (1996).
- 3) J.M. Hettema, L.A. Corey, and K.S. Kendler. "A Multivariate Genetic Analysis of the Use of Tobacco, Alcohol, and Caffeine in a Population Based Sample of Male and Female Twins", *Drug and Alcohol Dependence* **57**, 69 (1999).
- 4) K.S. Kendler, C.M. Bulik, J. Silberg, J.M. Hettema, J. Myers, and C.A. Prescott. "Childhood Sexual Abuse and Adult Psychiatric and Substance Use Disorders: An Epidemiologic and Cotwin Control Analysis". *Archives of General Psychiatry* **57**, 953 (2000).
- 5) J.M. Hettema, C.A. Prescott, and K.S. Kendler. "A Population-Based Twin Study of Generalized Anxiety Disorder in Men and Women". *Journal of Nervous and Mental Disease* **189**, 413 (2001).
- 6) J.M. Hettema, M.C. Neal, and K.S. Kendler. "A Review and Meta-analysis of the Genetic Epidemiology of Anxiety Disorders", Invited special article, *American Journal of Psychiatry* **158**, 1568 (2001).
- 7) J.M. Hettema, P. Annas, M.C. Neale, K.S. Kendler, M. Fredrikson. "A Twin Study of the Genetics of Fear Conditioning". *Archives of General Psychiatry* **60**, 702 (2003).
- 8) K.S. Kendler, J.M. Hettema, F. Butera, C.O. Gardner, C.A. Prescott. "Life Event Dimensions of Loss, Humiliation, Entrapment and Danger in the Prediction of Onsets of Major Depression and Generalized Anxiety". *Archives of General Psychiatry* **60**, 789 (2003).
- 9) J.M. Hettema, C.A. Prescott, K.S. Kendler. "The Effects of Anxiety, Substance Use and Conduct Disorders on Risk of Major Depressive Disorder". *Psychological Medicine* **33**, 1423 (2003).
- 10) J.M. Hettema, C.A. Prescott, K.S. Kendler. "The Genetic and Environmental Sources of Covariation between Generalized Anxiety Disorder and Neuroticism". In press, *American Journal of Psychiatry*.
- 11) J.M. Hettema, C.A. Prescott, J.M. Myers, M.C. Neale, and K.S. Kendler. "The structure of genetic and environmental risk factors for anxiety disorders in men and women." In press, *Archives of General Psychiatry*.
- 12) Kubarych, T.S., Aggen, S.H., Hettema, J.M., Kendler, K.S. and Neale, M.C. "Endorsement Frequencies and Factor Structure of DSM-III-R and DSM-IV Generalized Anxiety Disorder Symptoms in Women: Implications for future research, classification, treatment and comorbidity." In press, *International Journal of Methods in Psychiatric Research*.

B. PHYSICS

- 1) J.M. Hettema, P. Fu, and T.F. Gallagher. "Rates for Microwave Ionization of Sodium Stark States." *Physical Review A* **41**, 6555 (1990).
- 2) J.M. Hettema. "Upper Bound on Parity Nonconservation in 2S Hydrogen." Doctoral Dissertation, Yale University (1990).

- 3) P. Fu, T.J. Scholz, J.M. Hetteema, and T.F. Gallagher. "Ionization of Rydberg Atoms by a Circularly Polarized Microwave Field." *Physical Review Letters* **64**, 511 (1990).
- 4) C.Y. Lee, J.M. Hetteema, C.W. Conover, and T.F. Gallagher. "Microwave Ionization of Na Atoms in Weak to Strong Static Fields". *Physical Review A* **46**, 7048 (1992).

RESEARCH SUPPORT

K08-MH-66277 Hetteema (PI) 7/01/02-6/30/07

NIMH

Genetics of Fear and Anxiety Disorders

The main objectives of this K award are (1) advanced training for Dr. Hetteema in genetic methodologies and neuroimaging techniques as applied to psychiatric disorders, and (2) use of this acquired knowledge base to collect experimentally-derived measures such as electrophysiologic and neuroimaging data from a large genetically-informative population-based sample of twins and combine these with the self-report database that exists in this sample to examine the covariance between them.

Role: PI

Pfizer/SWHR Scholars Grants for Hetteema (PI) 7/01/01-6/30/04

Faculty Development in Women's Health

Pfizer

Gender Differences in the Development of Major Depression and Anxiety Disorders: The Role of Comorbidity

This study examines the role that comorbidity plays in determining gender differences in depressive and anxiety disorders using longitudinal data from a large population-based twin sample

Role: PI

Young Investigator Award Hetteema (PI) 7/01/01-6/30/03

NARSAD

A Multivariate Analysis of Risk Factors Predicting the Development of Comorbidity between Major Depression and the Anxiety Disorders

The objective of this study is to use longitudinal data from a large population-based twin sample to examine familial and individual risk factors that contribute to the comorbidity between major depression and the anxiety disorders.

Role: PI

Junior Faculty Research Grant Hetteema (PI) 7/01/01-6/30/03

Anxiety Disorders Association of America (ADAA)

A Twin Study of the Genetics of Fear Conditioning

This study uses classical twin methodology to examine the heritability of experimental fear conditioning in humans and its sources of covariation with self-report measures of fear and anxiety.

Role: PI