BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITL	POSITION TITLE Professor of Neurology		
Howard A. Crystal, MD				
eRA COMMONS USER NAME (credential, e.g., agency login) HCRYSTAL	Professor of			
EDUCATION/TRAINING (Begin with baccalaureate or other initial puresidency training if applicable.)	rofessional education, s	such as nursing, incl	lude postdoctoral training and	
INSTITUTION AND LOCATION	DEGREE	MM/YY	FIFLD OF STUDY	

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Princeton University, Princeton, NJ	A.B.	1972	Biochemical Science
University of Pennsylvania Medical School, Philadelphia., PA.	M.D.	1976	Medicine

A. Personal Statement. I have had considerable experience assessing the relationships between pathological markers and cognitive outcome as well as between clinical markers and cognitive outcomes. The proposed work differs because it involves relationship between clinical and pathological predictors and pathological outcomes.

B. Positions and Honors

Positions and Employment

2000-present (on ongoing) Attending in Neurology, University Hospital of Brooklyn.

Professional Appointments:

Assistant Clinical Professor of Neurology, Albert Einstein College of Medicine, Bronx, NY. Assistant Clinical Professor of Neurology, New Jersey College of Medicine and Dentistry, Newark, N.I.

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1985-1989	Assistant Professor of Neurology, Albert Einstein College of Medicine, Bronx, NY.
1989-1994	Associate Professor of Neurology, Albert Einstein College of Medicine, Bronx, NY.
1994-2000	Professor of Neurology, Albert Einstein College of Medicine, Bronx, NY.
2000-present	Professor of Neurology, SUNY/Downstate Medical School, Brooklyn, NY

C. Selected Peer-reviewed Publications

(Selected from over 105 peer-reviewed publications)

- Crystal, HA, Sara Hamon, Matthew Randesi et al. The TT genotype at C17T in the mu opiate receptor (OPRM1) is associated with quantitative measures of cocaine, tobacco, and alcohol dependence in African-American women with and without HIV, *Addiction Biology*, 2010, first published online, November 2010.
- 2. Manly J, Smith C, **Crystal H** et al. Relationship of ethnicity, age, education, and reading level to speed and executive function among HIV+ and HIV- women: The WIHS Neurocognitive Substudy, Journal of Clinical and Experimental Neuropsychology, in press.
- 3. Doniger GM, Jo MY, Simon ES, **Crystal HA**. Computerized Cognitive Assessment of Mild Cognitive Impairment in Urban African Americans. *Am J Alzheimers Dis Other Demen.* 2009
- 4. Barone FC, Rosenbaum DM, Zhou J, **Crystal H**. Vascular cognitive impairment: dementia biology and translational animal models. *Curr Opin Investig Drugs*. 2009 Jul;10(7):624-37.
- 5. **Crystal HA**, Davies P.Towards a biomarker for Alzheimer's disease: Some progress, but still a long way to go. *Neurology* 2008: 70 (8): 586-7.

- 6. Verghese J, Lipton RB, Dickson DW, **Crystal H**. A clinicopathological study of rest tremors in the elderly. *J Am Geriatr Soc.* 2004 Oct;52(10):1781-3.
- 7. **Crystal HA**, D Dickson, P Davies, D Masur, E Grober, and RB Lipton Non-Alzheimer dementia increases with aging and is over 50% in nonagenarians. *Archives of Neurology* 57: 713-719,2000.
- 8. J Verghese, **HA Crystal**, DW Dickson MD, and RB Lipton, Validity of clinical criteria for the diagnosis of dementia with Lewy bodies. *Neurology* 53: 1974-1982, 1999.
- 9. **Crystal HA**, Dickson D, Sliwinski M, Masur D, Blau A, Lipton RD: Association of status and change measures of neuropsychological function with pathological changes in elderly, originally nondemented subjects. *Arch Neurol* 53:82-87, 1996
- 10. Dickson DW, **Crystal HA**, Bevona C, Honer W, Vincent I, Davies P: Correlations of synaptic markers with cognitive status in prospectively studied elderly humans. *Neurobiol Aging* 16:285-298, 1995.
- 11. Masur D, Sliwinski M, Lipton R, Blau A, **Crystal** H: Neuropsychological predictio13n of dementia and the absence of dementia in healthy elderly. *Neurology* 44:1427-1432, 1994.
- 12. **Crystal HA**, Dickson DW, Sliwinski M, Lipton R, Grober E, Marks-Nelson H, Antis P: Pathological markers associated with normal aging and dementia in the elderly. *Ann Neurol* 34:566-573, 1993.
- 13. Dickson DW, **Crystal HA**, Mattiace LA, Masur DM, Blau A, Davies P, Yen S-H, Aronson MK: Identification of normal and pathological aging in prospectively studied nondemented elderly humans. *Neurobiol Aging* 13:1-11, 1992.
- 14. **Crystal HA**, Dickson DW, Lizardi JE, Davies P, Wolfson LI: Antemortem diagnosis of diffuse Lewy body disease. *Neurology* 40:1523-1528, 1990.
- 15. **Crystal H**, Dickson D, Fuld P, Masur D, Scott R, Mehler M, Grober E, Masdeu J, Kawas C, Aronson M, Wolfson L: Clinico-pathological studies in dementia: Non-demented subjects with pathologically confirmed Alzheimer's disease. *Neurology* 38:1682-1687, 1988.

Research Support

Ongoing Research Support

- 1R01MH076537-01 Crystal PI 9/30/2005-9/29/2011. Substance Abuse in HIV: Genetics and Disease Progression. This study investigates associations between polymorphisms in 9 genes with patterns of substance abuse in women with HIV
- 1A131834 Minkoff (PI), 1/1/08 12/31/12, 0.6 calendar, NIAID, Women;s Interagency HIV Study (WIHS IV) The major aims of this study are to examine the natural history and gynecological manifestations of HIV disease in women.
- MH-08-021 Morgello (PI), 12/1/07-1/30/12, 0.6 calendar, NIAID, The Manhattan HIV Brain Bank. The goals of this study are to advance neuroAIDS research by developing a repository of nervous system tissues and fluid samples and associated comprehensive neuromedical, neurocognitive, pyschiatric and laboratory data from persons with HIV who have died.