March 2007

# CURRICULUM VITAE

Name: Cheryl Ann Winkler, Ph.D.

Citizenship: United States

Education:

1976 B.S. (Biology), State University of New York at Albany, Albany, New York
1981 M.S. (Genetics), University of Maryland, College Park, Maryland
1986 Ph.D. (Immunogenetics), University of Maryland, College Park, Maryland

Brief Chronology of Employment:

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| 1976-1977 | Research Assistant, Montgomery County Public Schools, Rockville, MD |
| 1977-1980 | Teaching Assistant, University of Maryland, College Park, MD |
| 1980-1986 | Biologist ("P" authority), Section of Genetics, Laboratory of Viral Carcinogenesis, National Cancer Institute, NIH, Bethesda, MD |
| 1986-1987 | Scientist, Intramural Research Support Program, NCI-Frederick Cancer Research and Development Center, Frederick, MD |
| 1987-1995 | Scientist, Laboratory of Genomic Diversity, NCI-Frederick Cancer Research & Development Center, Frederick, MD |
| 1995-1997 | Head, Molecular Genetic Epidemiology Section, Laboratory of Genomic Diversity, NCI-Frederick Cancer Research & Development Center, Frederick, MD |
| 1997-2001 | Senior Scientist/Head, Molecular Genetic Epidemiology Section, Laboratory of Genomic Diversity, SAIC- Frederick, Inc., NCI-Frederick, Frederick, MD |
| 2001-present | Principal Investigator/Principal Scientist, Molecular Genetic Epidemiology Section, Laboratory of Genomic Diversity, Basic Research Program, SAIC-Frederick, Inc., NCI-Frederick, Frederick, MD |

Societies:

American Society of Human Genetics
American Association for the Advancement of Science
Federation American Society of Experimental Biologists

Committees and Boards:

Executive Committee, Hemophilia Growth and Development Study III, 1996-present

Principal Investigator, Central Laboratory and Cell Immortalization Program for Family Investigations of Nephropathy and Diabetes (FIND)-NIDDK, NCI-Frederick, Frederick, MD, 2000-present
FIND Study, Genotyping Quality Control Committee, 2000-present
FIND Study, Cell Culture Committee, 2000-present
Executive Committee, Hemophilia Inhibitor Genetic Study (HIGS), 2002-present

Research Interests:

Genetics of complex traits, Infectious Diseases, Hepatitis, HIV, HIV/HCV coinfection

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Published


1. O'Brien, S.J., Roelke, M.E., Marker, L., Newman, A., Winkler, C.A., Meltzer, D., Colly, L., Evermann, J.F., Bush, M., and Wildt, D.E. Genetic basis for species vulnerability in the cheetah. Science 227: 1428-1434, 1985.

2. O'Brien, S.J., Haskins, M.E., Winkler, C.A., Nash, W.G., and Patterson, D.F. Chromosomal mapping of Beta-globin and albino loci in the domestic cat reveals a mammalian chromosome group. J Hered 77: 374-378, 1986.

3. Winkler, C.A., Schultz, A., Cevario, S., and O'Brien, S.J. Genetic characterization of FLA, the cat major histocompatibility complex. Proc Natl Acad Sci USA 86: 943-947, 1988.

4. Dean, M., Stephens, J.C., Winkler, C.A., Lomb, D.A., Ramsburg, M., Boaze, R., Stewart, C., Charbonneau, L., Goldman, D., Albaugh, B.J., Goedert, J.J., Beasley, R.P., Hwang, L.-Y., Buchbinder, S., Weedon, M., Johnson, P.A., Eichelberger, M., and O'Brien, S.J. Polymorphic admixture typing in human ethnic populations. Am J Hum Genet 55: 788-808, 1994.

5. Kaslow, R., Carrington, M., Apple, R., Park, L., Munoz, A., Saah, A.J., Goedert, J.J., Winkler, C.A., O'Brien, S.J., Rinaldo, C., Detels, R., Blattner, W., Phair, J., Erlich, H., and Mann, D.L. Influence of combinations of human major histocompatibility complex genes on the course of HIV-1 infection. Nat Med 4: 405-411, 1996.

6. Dean, M., Carrington, M., Winkler, C.A., Huttley, G.A., Smith, M.W., Allikmets, R., Goedert, J., Buchbinder, S.P., Vittinghoff, E., Gomperts, E., Donfield, S., Vlahov, D., Kaslow, R., Saah, A., Rinaldo, C., Detels, R., Hemophilia Growth and Development Study, Multicenter AIDS Cohort Study, San Francisco City Cohort, ALIVE Study, and O'Brien, S.J. Genetic restriction of HIV-1 infection and progression to AIDS by a deletion allele of the CKR5 Structural Gene. Science 273: 1856-1862, 1996.

7. O'Brien, T.R., Winkler, C.A., Dean, M., Nelson, J.A.E., Carrington, M., Michael N.L., and White, II, G.C. HIV-1 infection in a man homozygous for CCR5-Δ32. The Lancet 349: 1219, 1997.

8. Smith, M.W., Carrington, M., Winkler, C.A., Lomb, D., Dean, M., Huttley, G.A., and O'Brien,
S. J. CCR2 chemokine receptor and AIDS progression. Nat Med 3: 1052-1053, 1997.

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11. Smith, M.W., Dean, M., Carrington, M., Winkler, C.A., Huttley, G.A., Lomb, D.A., Goedert, J.J., O'Brien, T.R., Jacobson, L.P., Kaslow, R., Buchbinder, S., Vittinghoff, E., Vlahov, D., Hoots, K., Hilgartner, M.W., Hemophilia Growth and Development Study, Multicenter AIDS Cohort Study, Multicenter Hemophilia Cohort Study, San Francisco City Cohort, ALIVE Study, and O'Brien, S.J. Contrasting genetic influence of CCR2 and CCR5 receptor gene variants on HIV-1 infection and disease progression. Science 277: 959-965, 1997.

12. Stephens, J.C., Shin, H.D., Smith, M.W., Carrington, M., Winkler, C.A., Huttley, G.A., Allikmets, R., Schriml, L., Gerrard, B., Malasky, M., Ramos, M.D., Morlot, S., Tzetis, M., Oddoux, C., di Giovine, F.S., Nasioulas, G., Chandler, D., Aseev, M., Hanson, M., Kalaydjieva, L., Glavac, D., Gasparini, P., Kanavakis, E., Claustres, M., Kambouris, M., Ostrer, H., Duff, G., Baranov, V., Goldman, D., Schmidtke, J., Estivill, X., O'Brien, S.J., and Dean, M. Dating the origin of the CCR5- Delta 32 AIDS resistance allele by the coalescence of haplotypes. Am J Hum Genet 62: 1507-1515, 1998.

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14. Hendel, H., Henon, N., Lebuanec, H., Lachgar, A., Poncelet, H., Caillat-Zucman, S., Winkler, C.A., Smith, M.W., Kenefic, L., O'Brien, S.J., Lu, W., Andrieu, J.-M., Zagury, D., Schachter, F., Rappaport, J., and Zagury, J.-F. Distinctive effects of CCR5, CCR2 and SDF-1 genetic polymorphisms in AIDS progression. J Acquir Immune Defic Syndr 19: 381-386, 1998.

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23. Daar, E.S., Lynn, H., Donfield, S., Gomperts, E., Hilgartner, M.W., Hoots, W.K., Chernoff, D., Arkin, S., Wong, W.-Y., Winkler, C.A., and the Hemophilia Growth and Development Study. HCV viral load is associated with human immunodeficiency virus disease progression in hemophiliacs. J Infect Dis 183: 589-595, 2001.

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51. Guo, X.-C., O'Brien, S.J., Scott, K., Liu, Y., Dean, M., David, V., Nelson, G., Hutcheson, H., Lautenberger, J., Kessing, B., Martenson, J., Sun, S., Zheng, Y., de The, G., Zeng, Y., and Winkler, C.A. Association study of chromosome 4 microsatellite alleles with nasopharyngeal carcinoma. Hum Gen 2: 365-375, 2006.

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55. An, P., Duggal, P., Wang, L., O'Brien, S.J., Donfield, S., Goedert, J.J., Phair, J., Buchbinder, S., Kirk, G.D., and Winkler, C.A. Polymorphisms of CUL5 are associated with CD4+ T cell loss in HIV-1 infected individuals. Plos Genetics, 3: e19, 2007.

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In Press

1. Schelling, J.R., Abboud, H.E., Nicholas, S.B., Pahl, M.V., Sedor, J.R., Adler, S.G., Arar, N.H., Bowden, D.W., Elston, R.C., Freedman, B.I., Goddard, K.A.B., Hanson, R.L., Ipp, E., Iyengar, S.K., Jun, G., Kao, W.H.L., Kasinath, B.S., Kimmel, P.L., Klag, M.J., Knowler, W.C., Nelson, R.G., Parekh, R.S., Quade, S.R., Rich, S.S., Saad, M.F., Scavini, M., Smith, M.W., Taylor, K., Winkler, C.A., Wang, D., Zager, P.G., and Shah, V.O.: Genome-Wide Scan for Estimated GFR in Multi-Ethnic Diabetic Populations: The Family Investigation of Nephropathy and Diabetes. Diabetes: In press, 2007.

2. Price, A.L., Patterson, N., Yu, F., Cox, D.R., Waliszewska, A., McDonald, G.J., Tandon, A., Schirmer, C., Neubauer, J., Bedoya, G., Duque, C., Villegas, A., Bortolini, M.C., Salzano, F.M., Gallo, C., Mazzotti, G., Tello-Ruiz, M., Riba, L., Aguilar-Salinas, C.A., Canizales-Quinteros, S., Menjivar, M., Klitz, W., Henderson, B.E., Haiman, C.A., Winkler, C., Tusie-Luna, T., Ruiz-Linares, A., and Reich, D.: A genomewide admixture map for Latino populations. Am. J. Hum. Genet.: In press, 2007.

Invited Talks

1. Invited Speaker, The Role of Chemokine and Chemokine Receptors in HIV-1 Infection and Pathogenesis, Kyoto University, Kyoto, Japan, 2001.
2. Plenary Speaker, United States-Japan Cooperative Cancer Research Program Symposium, National Cancer Institute-Japan, Tokyo, Japan, 2001.
3. Invited Speaker, Implications of HCV coinfection on HIV-1 Disease, Peking University First Hospital, Beijing, People's Republic of China, 2001.
4. Invited Speaker, China First AIDS Conference, Beijing, People's Republic of China, 2001.
5. Invited Speaker and Workshop presentation, 12th Hemophilia Study Update Conference, Rome, Italy, 2002.
6. Invited Speaker, National Research Council, Department of Molecular Medicine, Oxford, England, 2002.
7. Invited Speaker, Good Genes-Bad Genes: Do they Affect AIDS? Library of Congress, Washington, DC, 2003.
8. Invited Speaker and Panelist, Haplotypes in the Analysis of Complex Diseases, at Linking Haplotypes and Genetic Variation with Cancer Workshop, Bethesda, MD USA, 2003.
9. Invited Speaker, Role of host genetic factors in HIV-1 pathogenesis, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, 2004.
10. Invited Speaker, AIDSVAX Specimen Workshop, NIAID, NIH, Bethesda, MD, 2004.
11. Invited Speaker, The Fifth Annual Genetics Symposium: Dissing the Dogma. Vanderbilt University, Nashville, TN, 2004.
12. Invited Speaker, The International Meeting of the Institute of Retrovirology, Baltimore, MD, 2004.
13. Invited Speaker, The 2004 Workshop on Disparities in the HIV Epidemic. Meharry and Vanderbilt Universities, Nashville, TN, 2004.

14. Invited Speaker, AACTG-CAB Meeting, Baltimore, MD, 2004.
15. Invited Speaker, 15th Annual Hemophilia Research Study Update, San Juan, Puerto Rico, 2005.
16. Invited Speaker, Role of Host Genetic Factors in HIV-1 Infection and Progression, Botswana-Harvard Partnership, Gaborone, Botswana, 2005.
17. Invited Speaker, Host Genetic Factors and their role in HIV-1 Infection and Progression, ISAB Meeting: Population Genetics and HIV-1, Africa Centre, Mtubatuba, South Africa, 2005.
18. Invited Speaker, Influence of Host Genetic Factors on HIV Disease. Post-Genomics Technologies Applied to AIDS Research. CFAR Mini-Symposium, University of Washington, Seattle, WA, 2005.
19. Invited Speaker, Factors Predisposing to Inhibitor Development in Hemophiliacs: Strategies to Identify Genetic Factors. Den Translationella Forkskningens Dag, University Hospital at Malmö, Lund University, Malmo, Sweden, 2005.
20. Invited Speaker, Host Genetics and HIV, Botswana Harvard Partnership, Gaborone, Botswana, 2005.
21. Invited Speaker, Clinical Application of Genetic Research in HIV and AIDS, Princess Marina Hospital, Gaborone, Botswana, 2005.
22. Invited Speaker, Genetic Factors Influencing the Development of Antibodies to Factor VIII, Hemophilia and Hemostatsis Society, Saratoga Springs, NY, 2006.

23. Invited Speaker, Host Genetic Factors in Innate Immunity Genes and their influenceon HIV Infection and Progression, KwaZulu Natal University, Durban, South Africa, 2006.
24. Invited Speaker, Spectrum Lecture Series: The HIV Pandemic: What can we learn from viral and host genetic variation, Montgomery College, Germantown, MD, 2006.
25. Keynote Speaker, Patterns of Diversity Among Genes that Influence HIV-1 Infection and Progression, EB & FASEB MARC Genomics Symposium, Health Disparities in HIV and AIDS: Genetic and Therapeutic Implications, Experimental Biology Annual Meeting, Washington, DC, 2007.