

CURRICULUM VITAE

Terrance Patrick O'Hanlon

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PERSONAL INFORMATION

Home Address 11504 Rambling Pines Place
Hagerstown, Maryland 21742
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Date of Birth November 11, 1963

Citizenship United States

CURRENT POSITION

Biologist Environmental Autoimmunity Group
Office of Clinical Research
NIEHS / National Institutes of Health
Bldg. 9, Room 1W101
9000 Rockville Pike
Bethesda, Maryland 20892
Phone: 301-451-6276

EDUCATION

1986 - 1992 **Ph.D., Molecular and Cellular Biology**
Roswell Park Cancer Institute
State University of New York at Buffalo
3.60 Grade Point Average
Thesis: Tissue-Specific Expression of the Rat β -Galactoside
 α 2,6-Sialyltransferase Gene

1982 - 1986 **B.S. (Advanced Honors), Microbiology and Chemistry**
State University of New York at Plattsburgh
3.68 Grade Point Average

1982 High School Diploma (Regents)
Glens Falls High School
Glens Falls, New York

WORK EXPERIENCE

- 01/01 – present** **Biologist**
Environmental Autoimmunity Group
Office of Clinical Research
NIEHS, National Institutes of Health, Bethesda MD
- 03/97 – 12/00** **Biologist**
Laboratory of Molecular and Developmental Immunology
Division of Monoclonal Antibodies
Food and Drug Administration/CBER, Bethesda MD
- 08/95 - 02/97** **Staff Scientist/Assistant Professor of Medicine**
Division of Transplantation Medicine
Center for Cancer Treatment and Research
Richland Memorial Hospital, Columbia SC
- 04/92 - 07/95** **Senior Staff Fellow/Research Associate**
Laboratory of Molecular Immunology
Division of Cellular and Gene Therapies
Food and Drug Administration/CBER, Bethesda MD
- 07/86 - 03/92** **Graduate Student/Research Associate/Lecturer**
Roswell Park Cancer Institute
State University of New York at Buffalo, Buffalo NY
- 09/82 - 05/86** **Student Instructor/Tutor/Counselor**
State University of New York at Plattsburgh, Plattsburgh NY

HONORS/AWARDS

- NIH Staff Recognition Award for Performance Excellence (2002-2008)
- FDA Reward & Recognition Award (1998-1999)
- FDA Staff Fellowship (1992-1995)
- Phi Eta Sigma National Honor Society
- Advanced Honors Award (1986)
- Cum laude (1986)
- Who's Who Among Students in American Universities (1985)
- Dean's List , State University of New York (1982-1986)

Peer-Reviewed Publications

1. **O'Hanlon, T.P.**, Lau, K.M., Wang, X.C. and Lau, J.T.Y. (1989) Tissue-Specific Expression of β -Galactosidase α 2,6-Sialyltransferase: Transcript Heterogeneity Predicts a Divergent Polypeptide. *Journal of Biological Chemistry* 264: 17389-17394.
2. Wang, X.C., **O'Hanlon, T.P.** and Lau, J.T.Y. (1989) Regulation of β -Galactosidase α 2,6-Sialyltransferase Gene Expression by Dexamethasone. *Journal of Biological Chemistry* 264: 1854-1859.
3. Wang, X.C., **O'Hanlon, T.P.**, Young, R.F. and Lau, J.T.Y. (1990) Rat β -Galactosidase α 2,6-Sialyltransferase Genomic Organization: Alternate Promoters Direct the Synthesis of Liver and Kidney Transcripts. *Glycobiology* 1: 25-31.
4. **O'Hanlon, T.P.** and Lau, J.T.Y. (1992) Analysis of Kidney mRNAs Expressed from the Rat β -Galactosidase α 2,6-Sialyltransferase Gene. *Glycobiology* 2: 257-266.
5. **O'Hanlon, T.P.**, Dalakas, M.C., Plotz, P.H. and Miller, F.W. (1994) Predominant $\alpha\beta$ T Cell Receptor Variable and Joining Gene Expression by Muscle-Infiltrating Lymphocytes in the Idiopathic Inflammatory Myopathies. *Journal of Immunology* 152: 2569-2576.
6. **O'Hanlon, T.P.**, Dalakas, M.C., Plotz, P.H. and Miller, F.W. (1994) The $\alpha\beta$ T Cell Receptor Repertoire in Inclusion Body Myositis: Diverse Patterns of Gene Expression by Muscle-Infiltrating Lymphocytes. *Journal of Autoimmunity* 7: 321-333.
7. **O'Hanlon, T.P.**, Raben, N. and Miller, F.W. (1995) A Novel Gene Oriented in a Head-to-Head Configuration with the Human Histidyl-tRNA Synthetase (HRS) Gene Encodes an mRNA that Predicts a Polypeptide Homologous to HRS. *Biochemical and Biophysical Research Communications* 210: 556-566.
8. **O'Hanlon, T.P.**, Messersmith, W., Dalakas, M.C., Plotz, P.H. and Miller, F.W. (1995) $\gamma\delta$ T Cell Receptor Gene Expression by Muscle-Infiltrating Lymphocytes in Idiopathic Inflammatory Myopathies. *Clinical and Experimental Immunology* 100: 519-528.
9. Rider, L.G., Gurley, R.C., Pandey, J.P., Garcia-de la Torre, I., Kalovidouris, A.E., **O'Hanlon, T.P.**, Love, L.A., Hennekam, R.C., Baumbach, L.L., Neville, H.E., Garcia, C.A., Klingman, J., Gibbs, M., Weisman, M.H., Targoff, I.N. and Miller, F.W. (1998) Clinical, Serologic, and Immunogenetic Features of Familial Idiopathic Inflammatory Myopathy. *Arthritis and Rheumatism* 41: 710-719.
10. Rider, L.G., Shamim, E., Okada, S., Pandey, J.P., Targoff, I.N., **O'Hanlon, T.P.**, Han, H., Kim, H.A., Lim, Y.S., Song, Y.W. and Miller, F.W. (1999) Genetic Risk Factors for Idiopathic Inflammatory Myopathy in Koreans and Caucasians: A Tale of Two Loci. *Arthritis and Rheumatism* 42: 1285-1290.

11. Lamb, L.S., Gee, A.P., Hazlett, L.J., Musk, P., Parrish, R.S., **O'Hanlon, T.P.**, Geier, S.S., Folk, R.S., Harris, W.G., McPherson, K., Lee, C. and Henslee-Downey, P.J. (1999) Influence of T Cell Depletion Method on Circulating $\gamma\delta$ T Cell Reconstitution and Potential Role in the Graft Verses Leukemia Effect. *Cytotherapy* 1: 7-19.
12. **O'Hanlon, T.P.**, Lawless, O.J., Katzin, W.E., Feng, L.J. and Miller, F.W. (2000) Restricted and Shared Patterns of TCR β -chain Gene Expression in Silicone Breast Implant Capsules and Remote Sites of Tissue Inflammation. *Journal of Autoimmunity* 14: 247-257.
13. **O'Hanlon, T.P.** and Miller, F.W. (2002) Genomic Organization, Transcriptional Mapping, and Evolutionary Implications of the Human Bi-directional Histidyl-tRNA Synthetase Locus (HARS / HARSL). *Biochemical and Biophysical Research Communications* 294: 609-614.
14. Shamim, E.A., Rider, L.G., Pandey, J.P., **O'Hanlon, T.P.**, Jara, L.J., Samayoa, E.A., Burgos-Vargas, R., Vazquez-Mellado, J., Alcocer-Varela, J., Salazar-Paramo, M., Garcia-Kutzbach, A., Malley, J.D., Targoff, I.N., Garcia-De La Torre, I. and Miller, F.W. (2002) Differences in Idiopathic Inflammatory Myopathy Phenotypes and Genotypes between Mesoamerican Mestizos and North American Caucasians: Ethnogeographic Influences in the Genetics and Clinical Expression of Myositis. *Arthritis and Rheumatism* 46: 1885-1893.
15. Okada, S., Weatherhead, E., Targoff, I.N., Wesley, R. and Miller, F.W., for the International Myositis Collaborative Study Group (**O'Hanlon, T.P.**). (2003) Global Surface Ultraviolet Radiation Intensity may modulate the Clinical and Immunologic Expression of Autoimmune Muscle Disease. *Arthritis and Rheumatism* 48: 2285-2293.
16. Artlett, C.M., **O'Hanlon, T.P.**, Lopez, A.M., Song, Y.K., Miller, F.W. and Rider, L.G. for the Childhood Myositis Heterogeneity Collaborative Study Group (2003) HLA-DQA1 is not an Apparent Risk Factor for Microchimerism in various Autoimmune Diseases and Healthy Individuals. *Arthritis and Rheumatism* 48: 2567-2572.
17. **O'Hanlon, T.P.**, Koneru, B., Bayat, E., Love, L., Targoff, I., Malley, J., Malley, K. and Miller, F.W. (2004) Immunogenetic Differences between Caucasian Women who Develop Myositis with and without Silicone Implants. *Arthritis and Rheumatism* 50: 3646-3650.
18. **O'Hanlon, T.P.**, Carrick, D.M., Arnett, F.C., Reveille, J.D., Carrington, M., Gao, X., Oddis, C.V., Morel, P.A., Malley, J.D., Malley, K., Dreyfuss, J., Shamim, E.A., Rider, L.G., Chanock, S.J., Foster, C.B., Bunch, T., Plotz, P.H., Love, L.A. and Miller, F.W. (2005) Immunogenetic Risk and Protective Factors for the Idiopathic Inflammatory Myopathies: distinct HLA-A, -B, -Cw, -DRB1 and -DQA1 allelic profiles and motifs define clinicopathologic groups in caucasians. *Medicine (Baltimore)* 84: 338-349.
19. **O'Hanlon, T.P.**, Carrick, D.M., Targoff, I.N., Arnett, F.C., Reveille, J.D., Carrington, M., Gao, X., Oddis, C.V., Morel, P.A., Malley, J.D., Malley, K., Shamim, E.A., Rider, L.G., Chanock, S.J., Foster, C.B., Bunch, T., Blackshear, P.J., Plotz, P.H., Love, L.A. and Miller,

- F.W. (2006) Immunogenetic Risk and Protective Factors for the Idiopathic Inflammatory Myopathies: distinct HLA-A, -B, -Cw, -DRB1 and -DQA1 allelic profiles distinguish European American patients with different myositis autoantibodies. *Medicine* (Baltimore) 85: 111-127.
20. **O'Hanlon, T.P.**, Rider, L.G., Mamyrova, G., Targoff, I.N., Arnett, F.C., Reveille, J.D., Carrington, M., Gao, X., Oddis, C.V., Morel, P.A., Malley, J.D., Malley, K., Shamim, E.A., Chanock, S.J., Foster, C.B., Bunch, T., Love, L.A. and Miller, F.W. (2006) HLA Polymorphisms in African Americans with Idiopathic Inflammatory Myopathies: allelic profiles distinguish patients with different clinical phenotypes and myositis autoantibodies. *Arthritis and Rheumatism* 54: 3670-3681.
 21. Targoff, I.N., Mamyrova, G., Trieu, E.P., Perurena, O., Koneru, B., **O'Hanlon, T.P.**, Miller, F.W. and Rider, L.G. (2006) A novel Autoantibody to a 155-kd Protein is Associated with Dermatomyositis. *Arthritis and Rheumatism* 54: 3682-3689.
 22. Mamyrova, G., **O'Hanlon, T.P.**, Monroe, J.B., Carrick, D.M., Malley, J.D., Adams, S., Reed, A.M., Shamim, E.A., James-Newton, L., Miller, F.W. and Rider, L.G. for the Childhood Myositis Heterogeneity Collaborative Study Group. (2006) Immunogenetic Risk and Protective Factors for Juvenile Dermatomyositis in Caucasians. *Arthritis and Rheumatism* 54: 3979-3987.
 23. Leora J. Vegosen, Clarice R. Weinberg, **Terrance P. O'Hanlon**, Ira N. Targoff, Frederick W. Miller, and Lisa G. Rider (2007) Seasonal Birth Patterns in Subgroups of Myositis Suggest a Role for Early Environmental Exposures in Etiology. *Arthritis Rheum.* 56(8): 2719-2728.
 24. Gyorgy Csako, Rene Costello, Ejaz A Shamim, **Terrance P O'Hanlon**, Anthony Tran, Daniel J Clauw, H James Williams and Frederick W Miller (2007) Serum proteins and paraproteins in women with silicone implants and connective tissue disease: a case-control study. *Arthritis Research & Therapy* 9:R95.
 25. April Bingham MD, Gulnara Mamyrova MD, PhD, Kristina I. Rother MD, Elif Oral MD, Elaine Cochran MSN, Ahalya Premkumar MD, David Kleiner MD, Laura James-Newton RN, PhD, Ira N. Targoff MD, Janardan P. Pandey PhD, Danielle Mercatante Carrick PhD, Nancy Sebring MEd, RD, **Terrance P. O'Hanlon** PhD, Maria Ruiz Hidalgo PhD, Maria Turner MD, Leslie B. Gordon MD, PhD, Jorge Laborda PhD, Steven R. Bauer PhD, Perry J. Blackshear MD, DPhil, Lisa Imundo MD, Frederick W. Miller MD, PhD, Lisa G. Rider MD for the Childhood Myositis Heterogeneity Study Group (2008) Predictors of Acquired Lipodystrophy in Juvenile-Onset Dermatomyositis and a Gradient of Severity. *Medicine (Baltimore)* 87(2): 70-86.
 26. Gulnara Mamyrova MD, PhD, **Terrance P. O'Hanlon** PhD, Laura Sillers AB, Karen Malley BA, Laura James-Newton PhD, RN, Christina G. Parks PhD, Glinda S. Cooper PhD, Janardan P. Pandey PhD, Frederick W. Miller MD, PhD, Lisa G. Rider MD for the Childhood Myositis Heterogeneity Collaborative Study Group (2008) Cytokine Gene

Polymorphisms as Risk and Severity Factors for Juvenile Dermatomyositis. *Arthritis and Rheumatism* 58(12): 3941-3950.

27. **Terrance P. O'Hanlon** PhD, Lisa G. Rider MD, Ira N. Targoff MD, J, Karen Malley BA, Janardan P. Pandey PhD, Adam Schiffenbauer and Frederick W. Miller MD, PhD (2008) Immunoglobulin Gene Polymorphisms in the Idiopathic Inflammatory Myopathies: GM and KM Profiles Distinguish Patients by Age, Race, Clinical Phenotypes and Myositis Autoantibodies. *Arthritis and Rheumatism* 58(10): 3239-3246.

Invited Articles, Reviews, Book Chapters

1. Lau, J.T.Y. and **O'Hanlon, T.P.** (1992). Molecular Biology of Glycosyltransferases and Glycosidases. *In: Glycoconjugates: Composition, Structure, and Function*. H.J. Allen and E.C. Kisailus, eds. (New York: Marcel-Dekker, Inc.), pp. 499-520.
2. Plotz, P.H., Rider, L., Targoff, I., Raben, N., **O'Hanlon, T.P.** and Miller, F.W. (1995) Myositis: Immunologic Contributions to Understanding Etiology, Pathogenesis, and Therapy (Clinical Staff Conference, National Institutes of Health). *Annals of Internal Medicine* 122: 715-724.
3. **O'Hanlon, T.P.**, Dalakas, M.C., Plotz, P.H. and Miller, F.W. (1995) The $\alpha\beta$ T Cell Receptor Repertoire in Idiopathic Inflammatory Myopathies: Distinct Patterns of Gene Expression by Muscle-Infiltrating Lymphocytes in Different Clinical and Serologic Groups. *Annals of the New York Academy of Sciences* 756: 410-413.
4. **O'Hanlon, T.P.** and Miller, F.W. (1995) T Cell-Mediated Immune Mechanisms in Myositis. *Current Opinion in Rheumatology* 7: 503-509.
5. **O'Hanlon, T.P.**, Okada, S., Love, L.A., Dick, G., Young, V.L. and Miller, F.W. (1996) Immunohistopathology and T Cell Receptor Gene Expression in Capsules Surrounding Silicone Breast Implants. *Current Topics in Microbiology and Immunology* 210: 237-242.
6. S.J. Chanock, C.B. Foster, F.W. Miller and **T.P. O'Hanlon** (2004) HLA-A, -B, -Cw, -DQA1 and -DRB1 alleles in a Caucasian population from Bethesda, USA *Human Immunology*, 65: 1211-1223.
7. F.C. Arnett, J.D. Reveille and **T.P. O'Hanlon** (2004) HLA-DRB1 alleles in a Caucasian population from Houston, USA *Human Immunology*, 65: 1238-1241.
8. C.V. Oddis, P. Morel and **T.P. O'Hanlon** (2004) HLA-DRB1 alleles in a Caucasian population from Pittsburgh, USA *Human Immunology*, 65: 1241-1244.
9. S.J. Chanock, C.B. Foster, F.W. Miller and **T.P. O'Hanlon** (2004) HLA-A, -B, -Cw, -DQA1 and DRB1 in an African American population from Bethesda, USA *Human Immunology*, 65: 1223-1235.

10. **O'Hanlon, T.P.** and Miller, F.W. (2006) The Idiopathic Inflammatory Myopathies (IIM): HLA polymorphisms distinguish patients with different clinical phenotypes and myositis-specific autoantibodies. *American Society for Histocompatibility and Immunogenetics (ASHI) Quarterly* 30: 98-100.
11. **O'Hanlon, T.P.** and Miller, F.W. (2009) Genetic Risk and Protective Factors for the Idiopathic Myopathies. *Current Rheumatology Reports* (in press).