

CURRICULUM VITAE

Terrance Patrick O'Hanlon

CURRENT POSITION

Biologist Environmental Autoimmunity Group
Office of Clinical Research
NIEHS / National Institutes of Health
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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)
- 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)

RESEARCH GRANTS

Co-Principal Investigator, 1996 (\$17,370)

Analysis of the T Cell Receptor Repertoire in Graft Versus Host Disease Following Partially Mismatched Related Donor Bone Marrow Transplantation
Center for Cancer Treatment and Research
Richland Memorial Foundation, Columbia, SC

PUBLICATIONS

1. **O'Hanlon, T.P.**, Lau, K.M., Wang, X.C., and Lau, J.T.Y. (1989) Tissue-Specific Expression of β -Galactoside 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 -Galactoside 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 -Galactoside 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 -Galactoside α 2,6-Sialyltransferase Gene. *Glycobiology* 2: 257-266.
5. 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.
6. **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.
7. **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.
8. 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.

PUBLICATIONS (cont.)

9. **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.
10. **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.
11. **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.
12. **O'Hanlon, T.P.** and Miller, F.W. (1995) T Cell-Mediated Immune Mechanisms in Myositis. *Current Opinion in Rheumatology* 7: 503-509.
13. **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.
14. 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.
15. 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.
16. 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 $\text{K}\Lambda$ T Cell Reconstitution and Potential Role in the Graft Verses Leukemia Effect. *Cytotherapy* 1: 7-19.
17. **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.

PUBLICATIONS (cont.)

18. **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.
19. 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.
20. 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: (in press).
21. Artlett, C.M., Sawaya, H.H.B., Russo-Stieglitz, K.E., **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: (in press).

ABSTRACTS/PRESENTATIONS

1. **O'Hanlon, T.P.** and Lau, J.T.Y. (1988) Tissue-Specific Distribution of Gal β 1,4GlcNAc α 2,6-Sialyltransferase. *Journal of Cell Biology* 107: 4854. Joint Meeting of the American Society for Biochemistry and Molecular Biology and the American Society for Cell Biology, San Francisco, CA.
2. Wang, X.C., **O'Hanlon, T.P.**, and Lau, J.T.Y. (1988) Dexamethasone Induction of Sialyltransferase Gene Expression in Rat Hepatoma Cells. *Journal of Cell Biology* 107: 4855. Joint Meeting of the American Society for Biochemistry and Molecular Biology and the American Society for Cell Biology, San Francisco, CA.
3. Lau, J.T.Y., **O'Hanlon, T.P.**, and Wang, X.C. (1990) Molecular Pathways that Dictate Gal β 1,4GlcNAc α 2,6-Sialyltransferase Gene Expression. Nineteenth Annual Meeting of the Society for Complex Carbohydrates Meeting, San Diego, CA.

ABSTRACTS/PRESENTATIONS (cont.)

4. **O'Hanlon, T.P.**, Dalakas, M.C., Plotz, P.H., and Miller, F.W. (1993) Predominant T Cell Receptor (TCR) $V\alpha$, $V\beta$, and $J\beta$ Gene Usage in Muscle of Patients with Idiopathic Inflammatory Myopathies (IIM). *Arthritis and Rheumatism* **36**: 22P. Presented at the Southwest Regional Meeting of the American College of Rheumatology, Washington, D.C.
5. Plotz, P.H., Rider, L., Targoff, I., Raben, N., **O'Hanlon, T.P.**, and Miller, F.W. (1993) New Contributions of Immunology to Understanding the Etiology and Pathogenesis of Myositis. Presented at the Combined Clinical Staff Conference, National Institutes of Health, Bethesda, MD.
6. **O'Hanlon, T.P.**, Dalakas, M.C., Plotz, P.H., and Miller, F.W. (1994) The $\alpha\beta$ T Cell Receptor (TCR) Repertoire in Idiopathic Inflammatory Myopathies (IIM): Distinct Patterns of Gene Expression by Muscle-Infiltrating Lymphocytes in Different Clinical and Serologic Groups. Presented at a Conference Meeting of the New York Academy of Sciences, San Diego, CA.
7. **O'Hanlon, T.P.**, Okada, S., Love, L.A., Dick, G., Young, V.L., and Miller, F.W. (1995) Immunohistopathology and T Cell Receptor Gene Expression in Capsules of Silicone Implants. Presented at the Immunology of Silicone Workshop, National Institutes of Health, Bethesda, MD.
8. **O'Hanlon, T.P.**, Raben, N., and Miller, F.W. (1995) The Human Histidyl-tRNA Synthetase Locus: A Bidirectional Promoter Directs the Synthesis of an Opposite-Strand mRNA that Predicts a Polypeptide Homologous to Histidyl-tRNA Synthetase. *The FASEB Journal* **9**: 4970. Presented at the 1995 Experimental Biology Meeting of Professional Research Scientists, Atlanta, GA.
9. Lamb, L.S., King, S.M., Folk, R.S., Pati, A.R., **O'Hanlon, T.P.**, Geier, S.S., Johnson, K., Henslee-Downey, P.J., and Gee, A.P. (1996) T Lymphocyte Reconstitution Following Preemptive Donor Leukocyte Infusion Therapy for Patients at High Risk for Relapse Following T Cell Depleted Bone Marrow Transplantation from a Partially Mismatched Related Donor. International Society for Experimental Hematology, New York, NY.
10. **O'Hanlon, T.P.**, Lawless, O., Ojo-Amaize, E., Young, L., Love, L., and Miller, F.W. (1997) Restricted and Shared Patterns of T Cell Receptor (TCR) Gene Expression in Silicone Breast Implant (SBI) Capsules and Other Inflammatory Tissues from Women with SBIs. Presented at the 1997 FDA Forum on the Regulatory Sciences, National Institutes of Health, Bethesda, MD.

ABSTRACTS/PRESENTATIONS (cont.)

11. Lamb, L.S., Gee, A.P., Musk, P., **O'Hanlon, T.P.**, Hazlett, L.J., Geier, S.S., Folk, R.S., Harris, W.G., McPherson, K., Parrish, R.S., Lee, C., and Henslee-Downey, P.J. (1998) Influence of T Cell Depletion Method on Circulating $\gamma\delta$ T Cell Reconstitution and Potential Role in the Graft Versus Leukemia Effect. *Blood* 92: 2028. The American Society of Hematology, Miami Beach, FL.
12. **O'Hanlon, T.P.**, Lawless, O., and Miller, F.W. (1999) Histopathology and T Cell Receptor (TCR) Gene Expression in Silicone Breast Implant (SBI) Capsules and Other Inflammatory Tissues. *The FASEB Journal* 13: A1130. Presented at the 1999 Experimental Biology Meeting of Professional Research Scientists, Washington, DC.
13. Shamim, E.A., Rider, L.G., **O'Hanlon, T.P.**, Burgos Vargas, R., Vazquez-Mellado, J., Varela, J.A., Samayoa, E., Kutzbach, A., Plotz, P., Targoff, I.N., Garcia de la Torre, I., and Miller, F.W. (1999) Clinical, Serologic, and Genetic Differences between U.S. Caucasians and Meso-americans with Idiopathic Inflammatory Myopathy (IIM). *Arthritis and Rheumatism* 42: S1993. American College of Rheumatology, Boston, MA.
14. Shamim, E.A., Rider, L.G., **O'Hanlon, T.P.**, Wise, R., Mendez, E., Pachman, L.M., and Miller, F.W. (2000) Demographic and Clinical Features of Persons who Develop Myositis Following Immunizations. Presented at the Third Annual Conference on Vaccine Research, Washington, DC.
15. Shamim, E.A., Rider, L.G., **O'Hanlon, T.P.**, Samayoa, E.A., Jara Quezada, L.J., Burgos Vargas, R., Vazquez-Mellado, J., Alcocer Varela, J., Targoff, I.N., Garcia de la Torre, I. and Miller, F.W. (2000) Differing Gender Ratios and Genetic Risk Factors for Idiopathic Inflammatory Myopathy (IIM) between Adults and Children in Meso-America (MesoA) Suggest that Pathogenic Mechanisms may Change with Age in Some Locations Around the World. *Arthritis and Rheumatism* 43: S779. American College of Rheumatology, Philadelphia, PA.
16. **O'Hanlon, T.P.** (2003) Immunology of Silicones. Presented at the International Symposium on Indoor Air Quality and Health Hazards, Tokyo, Japan.
17. **O'Hanlon, T.P.** (2003) Immunologic Aspects of Silicone Breast Implants. Presented at the National Organization of Women's Conference on the Safety and Effectiveness of Silicone Breast Implants, Washington, DC.