

CURRICULUM VITAE

Hugh O'Neill McDevitt, M.D

Date of Birth: 08/26/1930
Place of Birth: Cincinnati, Ohio
Married: Grete Sonderstrup McDevitt
Children: 4

PRESENT ADDRESS

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EDUCATION

1952 B.A., Stanford University, Biology (with honors)
1955 M.D., Harvard University Medical School

TRAINING & EXPERIENCE

1955-1956 Intern, Peter Bent Brigham Hospital, Boston, MA
1956-1957 Assistant Resident in Medicine, First Medical Division, Bellevue Hospital, New York, NY
1957-1959 Captain, M.C., USAR, U.S. Army, Camp Zama, Japan
1959-1961 Postdoctoral Research Fellow, Department of Bacteriology & Immunology, Harvard Medical School, Boston, MA
1961-1962 Senior Assistant Resident in Medicine, Peter Bent Brigham Hospital, Boston, MA
1962-1964 U.S. Public Health Service Special Fellow, Medical Research Council, National Institutes for Medical Research, Mill Hill, London, England
1964-1966 Instructor, Department of Bacteriology & Immunology, Harvard Medical School, Boston, MA
1966-1969 Assistant Professor of Medicine (Immunology), Department of Medicine, Stanford University School of Medicine, Stanford, CA
1969-1972 Associate Professor of Medicine (Immunology), Department of Medicine, Stanford University School of Medicine, Stanford, CA
1970-1976 Chief, Division of Immunology, Department of Medicine, Stanford University School of Medicine, Stanford, CA
1971-1978 Director, Clinical Immunology Laboratory, Stanford University Hospital, Stanford, CA
1972-Present Professor of Medicine, Department of Medicine (Immunology), Stanford University School of Medicine, Stanford, CA
1978-Present Professor of Microbiology & Immunology, Stanford University School of Medicine, Stanford, CA
1986-1990 Chairman, Department of Microbiology & Immunology, Stanford University School of Medicine, Stanford, CA
1988-2001 Burt and Marion Avery Professor of Immunology

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MEMBERSHIP OF SOCIETIES

American Association for the Advancement
of Science
American Association of Immunologists
American College of Rheumatologists
American Diabetes Foundation International

American Federation for Clinical Research
American Society for Clinical Investigation
Association of American Physicians
Clinical Immunological Society
National Institutes of Health
Western Association of Physicians
Transplantation Society

HONORS & AWARDS

1968-1972 Senior Investigator, The Arthritis Foundation
1972-1973 Russell Cecil Fellow, Arthritis Foundation
1975 Dyer Lecturer, National Institutes of Health
1977 Borden Award for Outstanding Research, Association of American Medical
Colleges
1977 National Academy of Sciences
1980 Alena Lengerova Memorial Lecturer
1980-1988 Joseph D. Grant Professorship, Stanford University
1981 Passano Foundation Award
1983 Albion O. Bernstein Award
1983 Institute of Medicine
1984 American College of Physicians Award for Research in Medical Sciences
1984 American Academy of Arts and Science
1985 Lita Annenberg Hazen Award for Excellence in Clinical Research
1985 Theodore Lynen Lecturer, Miami Mid-Winter Conference on Immunology
1986 Campbell Lecturer, Asilomar Mid-Winter Conference on Immunology
1986 3M Life Sciences Award
1986 Lee C. Howley, Sr. Prize for Research in Arthritis
1987 Paul Erlich Prize
1987 Rose Payne Distinguished Scientist
1988-2001 Burt & Marion Avery Professor in Immunology, Stanford University
1989-1996 Outstanding Investigator, National Cancer Institute
1990 Doctor Honoris Causa, University of Paris VI, Paris, France
1991 K.P. Chang Visiting Professor, University of Hong Kong
1991 J. Allyn Taylor International Prize in Medicine
1992 Paul E. Lacy Lecturer, Washington University
1992 John & Margaret Cochrane Visiting Professor, University of Alabama
1992 Barbara Davis Diabetes Award
1994 Paul Klemperer Award, New York Academy of Science
1995 Elected to Royal Society, London, England
1995 The Albion Walter Hewlett Award
1996 American College of Rheumatologists, Master's Award
1998 Jessie Stevenson Kovalenko Award, National Academy of Sciences
2000 City of Medicine Award, Duke University
2000 Gershon Lecture, Yale University
2001 Pfizer Visiting Professorship in Rheumatology and Immunology
2003 Abbott Laboratories Award in Clinical and Diagnostic Immunology
2003 Japan Rheumatism Foundation/Wyeth International RA Award

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Selected peer-reviewed publications:

1. Todd, J.A., Bell, J.I. and McDevitt, H.O. (1987) HLA-DQ β gene contributes to susceptibility and resistance to insulin-dependent diabetes mellitus. *Nature* **329**(6140): 599-604.
2. Acha-Orbea, H. and McDevitt, H.O. (1987) The first external domain of the non-obese diabetic mouse class II I-A β chain is unique. *Proc Natl Acad Sci USA* **84**(8): 2435-39.
3. Jacob, C.O. and McDevitt, H.O. (1988) Tumour necrosis factor- α in murine autoimmune lupus nephritis. *Nature* **331**(6154):356-358.
4. Jacob, C.O., Aiso, S., Michie, S.A., McDevitt, H.O. and Acha-Orbea, H. (1990) Prevention of diabetes in nonobese diabetic mice by tumor necrosis factor (TNF): Similarities between TNF - α and interleukin 1. *Proc Natl Acad Sci USA* **87**(3): 968-72.
5. Jacob, C.O., Aiso, S., Schreiber, R.D. and McDevitt, H.O. (1992) Monoclonal anti-tumor necrosis factor antibody renders non obese diabetic mice hypersensitive to irradiation and enhances insulinitis development. *Int Immunol* **4**(5): 611-14.
6. Tisch, R., Yang, X., Singer, S.M., Liblau, R.S., Fugger, L. and McDevitt, H.O. (1993) Immune response to glutamic acid decarboxylase correlates with insulinitis onset in non-obese diabetic mice. *Nature* **366**(6450): 72-75.
7. Singer, S.M., Tisch, R., Yang, X.D. and McDevitt, H.O. (1993) An Ab^d transgene prevents diabetes in non-obese diabetic mice by inducing regulatory T cells. *Proc Natl Acad Sci USA* **90**(20):9566-70.
8. Yang, X.D., R. Tisch, S.M. Singer, Z.A. Cao, R.S. Liblau, R.D. Schreiber, and H.O. McDevitt. (1994) Effect of tumor necrosis factor α on insulin-dependent diabetes mellitus in NOD mice. I. The early development of autoimmunity and the diabetogenic process. *Journal of Experimental Medicine* **180**(3): 995-1004.
9. Ettinger, R.E., Browning, J.L., Michie, S. A., van Ewijk W., and McDevitt, H.O. (1996) Disrupted splenic architecture, but normal lymph node development in mice expressing a soluble lymphotoxin- β receptor-IgG1 fusion protein. *Proc. Natl. Acad. Sci.* **93**: 13102-13107.
10. Wherrett, D. K., Singer, S. M., and McDevitt, H. O. (1997) Reduction in diabetes incidence in an I-A^{g7} transgenic nonobese diabetic mouse line. *Diabetes*. **46**: 1970-1974
11. Chao, C.-C., and McDevitt, H. O. (1997) Identification of immunogenic epitopes of GAD 65 presented by I-A^{g7} in non-obese diabetic mice. *Immunogenetics* **46**(1): 29-34.
12. Cope, A., Ettinger, R., and McDevitt, H.O. (1997) The Role of TNF α and Related Cytokines in the Development and Function of the Autoreactive T-cell Repertoire. *Research in Immunology* **148**:5, 307-313.
13. Cope, A., Liblau, R.S., Yang, X-D., Congia, M., Laudanna, C., Schreiber, R.D., Probert, L., Kollias, G. and McDevitt, H.O. (1997) Chronic Tumor Necrosis Factor Alters T Cell Responses by Attenuating T Cell Receptor Signaling. *J. Exp. Med.* **185**: 1573-1584.
14. Ettinger, R., Mebius, R., Browning, J. L., Michie, S. A., van Tuijl, S., Kraal, G., van Ewijk, W., and McDevitt, H. O. (1998) Effects of tumor necrosis factor and lymphotoxin on peripheral lymphoid development. *International Immunology* **10**:6, 727-742.
15. Tisch, R., Liblau, R. S., Yang, X-D, Liblau, P., and McDevitt, H. O. (1998) Induction of GAD 65-Specific Regulatory T-Cells Inhibits Ongoing Autoimmune Diabetes in Nonobese Diabetic Mice. *Diabetes***47**(6):894-899.
16. Singer, S.M., Tisch, R., Yang, X-D., Sytwu, H-K., Liblau, R.S. and McDevitt, H.O. (1998) Prevention of Diabetes in NOD Mice by a Mutated I-Ab Transgene. *Diabetes* **47**(10): 1570-1577.
17. Chao, C-C., Sytwu, H-K., Chen, E.L., Toma, J and McDevitt, H.O. (1999) The role of MHC class II molecules in susceptibility to type I diabetes: Identification of peptide

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- epitopes and characterization of the T cell repertoire. *Proc. Natl. Acad. Sci.* **96**(16): 9299-304.
18. Ettinger, R., Munson, S., Chao, C-C., Vadeboncoeur, M., Toma, J., McDevitt, H.O. (2001) A Critical role of Lymphotoxin- β Receptor in the Development of Diabetes in Non-obese Diabetic Mice. *J Exp Med.* **193**(11):1333-40.
 19. Tarbell, K.V., Lee, M., Ranheim, E., Chao, C.-C., Sanna, M., Kim, S-K., Dickie, P., Teyton, L., Davis, M., McDevitt, H. CD4+ T cells from glutamic acid decarboxylase 65 (GAD65)-specific T cell receptor transgenic mice are not diabetogenic, and can delay diabetes transfer. *J. Exp. Med.* 196(4):481-492, 2002.
 20. Wu, A., Hong, H., Munson, S., McDevitt, H. Tumor necrosis factor- α regulation of CD4+ CD25+ T cell levels in NOD mice. *Proc. Natl. Acad. Sci.* 99(19):12287-92, 2002.
 21. Tang Q, Henriksen KJ, Bi M, Finger EB, Szot G, Ye J, Masteller EL, McDevitt H, Bonyhadi M, Bluestone JA. In vitro-expanded antigen-specific regulatory T cells suppress autoimmune diabetes. *J Exp Med.* 2004 Jun 7;199(11):1455-65.
 22. Kim SK, Tarbell KV, Sanna M, Vadeboncoeur M, Warganich T, Lee M, Davis M, McDevitt HO. Prevention of type I diabetes transfer by glutamic acid decarboxylase 65 peptide 206-220-specific T cells. *Proc Natl Acad Sci U S A.* 2004 Sep 20