

CURRICULUM VITAE

Name: Thomas Crellin Manning

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Website: www.idneuro.com

Place of birth: Oakland, California

Education:

1988 B.S. United States Naval Academy, Annapolis, Maryland
Engineering

1998 Ph.D. University of Illinois at Urbana-Champaign
(M.D./Ph.D. Program)
Department of Biochemistry
Thesis title: Antigen Recognition by an Alloreactive T
Lymphocyte Clone

2000 M.D. University of Chicago, Pritzker School of Medicine
Chicago, Illinois (with honors)

Hospital appointments

2007 to present Saint Alphonsus Regional Medical Center, Boise, Idaho

2007 to present St. Lukes Regional Medical Center, Boise, Idaho

Academic appointments and research experience:

1993 Teaching Assistant, University of Illinois School of Chemical Sciences
Urbana, Illinois

1994-2000 Research Assistant, Dr. David Kranz' Lab, Department of Biochemistry,
University of Illinois, Urbana, Illinois

- 2000 Postdoctoral Research Associate, Dr. Thomas Gajewski's Lab, University of Chicago, Chicago, Illinois
- 2000-2007 Resident, Department of Neurological Surgery, University of Washington
- 2002 Postdoctoral Research Associate, Dr. Robert Rostomily's Lab, University of Washington, Seattle, Washington
- 2004 Senior Registrar in Neurosurgery, Atkinson Morley Wing of St. Georges Hospital NHS Trust. London, UK
- 2005-2006 Fellowship in Spinal Surgery, Dr. Jens Chapman Program Director, University of Washington, Seattle, Washington

Military Service:

- 1984-1988 Midshipman, United States Naval Academy, Annapolis, Maryland
- 1988-1993 Active duty service as Naval Officer, U.S. Navy SEALs. Military awards: Bronze Star with Combat "V", Navy Achievement Medal, Combat Action Ribbon, National Defense Service Medal, Southwest Asia Service Medal, Navy Recruiting Ribbon, Kuwait Liberation Medal, Navy Expert Rifle and Pistol Medals

Academic Awards:

- 1996 McGraw-Hill Award for excellence in basic medical sciences
- 1996 Craig Summer Research Fellowship, University of Illinois
- 1996 American Society of Clinical Pathologists Award
- 1997 Saphir Memorial Scholarship for excellence in pathology, University of Illinois
- 1997 Graduate College Travel Award Grant, University of Illinois
- 1997 Alpha Omega Alpha
- 1998 Biochemistry Trust of Urbana Award for most outstanding Ph.D. thesis
- 2000 Van Prohaska Award for outstanding potential in teaching, research and clinical medicine, University of Chicago

2000 Association for Academic Surgery Award for outstanding performance in surgical research, University of Chicago

Peer Reviewed Articles:

Manning, T.C., B.A. Schodin, and D.M. Kranz. 1996. A strategy for the synthesis and screening of thiol-modified peptides recognized by T cells. *J. Immunol. Meth.* 192:125-132.

Schlueter, C. J., T.C. Manning, B.A. Schodin, and D.M. Kranz. 1996. A residue in the center of peptide QL9 affects binding to both L^d and the T cell receptor. *J. Immunol.* 157:4478-4485.

Manning, T.C., L.A. Rund, M.M. Gruber, F. Fallarino, T.F. Gajewski, and D.M. Kranz. 1997. Antigen recognition and allogeneic tumor rejection in CD8⁺ TCR transgenic/RAG^{-/-} mice. *J. Immunol.* 159:4665-4675.

Manning, T.C., C.J. Schlueter, T.C. Brodnicki, E.A. Parke, J.A. Speir, K.C. Garcia, L. Teyton, I.A. Wilson, and D.M. Kranz. 1998. Alanine scanning mutagenesis of an $\alpha\beta$ T cell receptor: mapping the energy of antigen recognition. *Immunity* 8:413-425.

Kranz, D.M., T.C. Manning, L.A. Rund, B.K. Cho, and E.J. Roy. 1998. Targeting tumor cells with bispecific antibodies and T cells. *J. Control. Release.* 53:77-84.

Manning, T.C., E.A. Parke, L. Teyton, and D.M. Kranz. 1999. Effects of complementarity determining region mutations on the affinity of an $\alpha\beta$ T cell receptor: measuring the energy associated with CD4/CD8 repertoire skewing. *J. Exp. Med.* 189:461-470.

Rund, L.A. B.K. Cho, T.C. Manning, P.D. Holer, E.J. Roy, and D.M. Kranz. 1999. Bispecific agents target endogenous murine T cells against human tumor xenografts. *Int. J. Cancer* 83:141-149.

Manning, T.C. and D.M. Kranz. 1999. Binding energetics of T cell receptors: correlation with immunological consequences. *Immunol. Today* 20:417-422.

Tschoep K, Manning TC, Harlin H, George C, Johnson M, Gajewski TF. 2003. Disparate functions of immature and mature human myeloid dendritic cells: implications for dendritic cell-based vaccines. *J Leukoc Biol.* 274(1):69-80.

Brinkman W, Cohen W, Manning T. 2003. Posterior fossa subarachnoid hemorrhage due to an atlantooccipital dislocation. *AJR Am J Roentgenol.* 180(5):1476.

Elias MC, Tozer, KR, Silber JR, Mikheeva S, Deng M, Morrison RS, Manning TC, Silbergeld DL, Glackin CA, Reh TA, and Rostomily RC. 2005. TWIST is expressed in human gliomas and promotes invasion. *Neoplasia* 7 (9):824-837

Spinal intramedullary histoplasmosis as the initial presentation of human immunodeficiency virus infection: case report. Manning TC, Born D, Tredway TL. *Neurosurgery*. 2006 Nov;59(5):E1146

The use of fibrin glue to stop venous bleeding in the epidural space, vertebral venous plexus, and anterior cavernous sinus: technical note. Sekhar LN, Natarajan SK, Manning T, Bhagawati D. *Neurosurgery*. 2007 Sep;61(3 Suppl):E51

Cerebrospinal fluid shunting in children on renal dialysis. Report of two cases. Manning TC, Avellino AM, Symons J, Ojemann J, Ellenbogen RG. *Pediatr. Neurosurg.* 2008;44(1):65-7.

Survival with good outcome after traversing brainstem injury: case report. Manning TC, Hallam D, Britz GW. *Neurosurgery*. 2008 Mar;62(3):E749

Non-Peer Reviewed Articles and Book Chapters

Manning, T.C. 1998. Paraneoplastic Granulocytosis [photo]. *N. Engl. J. Med.* 339:20.

Manning, T.C. and T.F. Gajewski. 2000. Dendritic cells and cells of the monocyte/macrophage lineage. In *Dendritic Cells, Biology and Clinical Applications* (ed. M. Lotze and A. Thompson).