

BIOGRAPHICAL SKETCHNAME: **Paul Viktor Lehmann, M.D., Ph.D.**POSITION TITLE: **CEO of CTL, CSO of MAT-CTL, Prof. of Pathol. CWRU**

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
Gymnasium Kastl, Kastl, Oberpfalz, Germany	B.A.	1976	Arts and Sciences
Medical School, Univ. of Tübingen, Germany	M.D.	1983	Medicine
Doctoral thesis, "Immune regulation by lipoproteins" Internal Medicine, Univ. of Klinik, Tübingen, Germany,	Ph.D.	1988	Immunology

A. Personal Statement. My entire research career revolved around immune monitoring. Initially I pursued this field entirely in the academic setting. In 2008 I founded a company around immune monitoring, CTL. At CTL we have been continuously refining methods, reagents and instrumentation for improving the ability to reliably detect rare antigen-specific T cells in freshly isolated cell material, such as human blood. Not only have we been offering new developments to the scientific community, but we also have been the first ones to apply them in research, continuing to further the field. I personally have been trying to combine my new role as the head of a company that employs close to 100 in the mean time, with directing research in our R&D department, and continued academic productivity in this field.

B Positions

- 1986-1989 **Postdoctoral Scholar in Immunology** at Preclinical Research, Sandoz Ltd., Basel with Drs. Zoltan A. Nagy and Luciano Adorini.
- 1989-1991 **Senior Postdoctoral Scholar in Immunology** at University of California at Los Angeles (UCLA) with Dr. Eli E. Sercarz.
- 1991-1993 **Research Assistant Professor** at UCLA, Dept. Microbiol & Molec Genetics
- 1993-1998 **Assistant Professor**, Case Western Reserve University (CWRU), Department of Pathology & Neurology, Cleveland, OH.
- 1998-2002 **Associate Professor, Tenure** Case Western Reserve University, Department of Pathology & Neurology, Cleveland, OH.
- 2002-2008 **Full Professor with Tenure**, CWRU
- 2008- **CEO of CTL, Adjunct Professor**, CWRU
- 2018- **CSO, Co-Founder**, MAT-CTL

C. Honors

- 2002-2006 **Permanent Member of NIH Study Section:** Immunological Sciences, renamed: Hypersensitivity, Autoimmunity, and Immune-mediated Diseases Study Section (HAI), Chair, NIH NIAID Special Emphasis Panel ZAI1BLGIS1 T Cell Immunology, 2007. Ad Hoc NIH Reviewer; NIH, NIAID RFP-DAIT-BAA-05-11 "Immune function and biodefense in children, elderly and immune compromised populations," May 2-3, 2005. NIH, Special Emphasis Panel ZRG1 SSS-J 01 R, Dec 4, 2001; NIH,

Special Emphasis Panel "Sex-Based Differences in the Immune Response," RFA AI-01-005, November 7-8, 2001; NIH, Metabolism Study Section, Council MET, October 25-26, 2001; NIH, Council ZRG1 SS-T 10 B, July 09, 2001; NIH, Immunological Sciences Study Section, June 21-22, 2001; NIH NIAID "Innovation Grants on Immune Tolerance" Special Emphasis Panel, Council Za/1 NN-1 M1, 02/08/01; NIH, SBIR grants ZRG1 SSS-T 10B, 11-13-200; NIH, Experimental Immunology Study Section, Nov. 29., 1999; NIH, Immunological Sciences Study Section, Feb 1999; NIH NIAID Autoimmunity Centers of Excellence Reviewer, June 28, 1999; NIH HLBI, Special Emphasis Panel on "Immunogenetics of Inhibitor Formation in Hemophilia" June 1996; NIH NIAID Program Project Grant Review and site visit: PI: H. McDevitt "HLA-transgenic NOD Mice," July 22 -24,1998.

2001.2005 Associate Editor: *The Journal of Immunology*.

Reviewer for Journals: *The Journal of Immunology, Nature Medicine, The Journal of Experimental Medicine, Immunity, The Journal of Clinical Investigation, Journal of Virology, International Immunology, Cellular Immunology, Journal of Neuroimmunology, Autoimmunity, American Journal of Pathology, Nephritis Dialysis Transplantation, Life Sciences, Biotechnology*

D. Peer-reviewed publications (ResearchGate: h-index 43, 171 publications, 11,012 citations)

- Adorini L, Muller S, Cardinaux F, Lehmann PV, Falcioni F, Nagy ZA. *In vivo competition between self peptides and foreign antigens in T cell activation. Nature*, 1988. 334:623-5
- Adorini L, Sette A, Buus S, Grey HM, Darsley M, Lehmann PV, Doria G, Nagy ZA, Appella E. *Interaction of an immunodominant epitope with Ia molecules in T cell activation. Proc. Natl. Acad. Sci. U.S.A.*, 1988. 85:5181-5.
- Lehmann PV, Cardinaux F, Appella E, Muller S, Falcioni F, Adorini L, Nagy ZA. *Inhibition of T cell response with peptides is influenced by both peptide-binding specificity of major histocompatibility complex molecules and susceptibility of T cells to blocking. Eur. J. Immunol.*, 1989. 19:1071-7.
- Nagy ZA, Lehmann PV, Falcioni F, Muller S, Adorini L. *Why peptides? Their possible role in the evolution of MHC-restricted T cell recognition. Immunol. Today*, 1989. 10:132-8
- Falcioni F, Dembic Z, Muller S, Lehmann PV, Nagy ZA. *Flexibility of the T cell repertoire. Self tolerance causes a shift of T cell receptor gene usage in response to insulin. J. Exp. Med.*, 1990. 171:1665-81.
- Lehmann PV, Schumm G, Moon D, Hurtenbach U, Falcioni F, Muller S, Nagy ZA. *Acute lethal graft-versus-host reaction induced by major histocompatibility complex class II-reactive T helper cell clones. J. Exp. Med.*, 1990. 171:1485-96.
- Tary-Lehmann M, Rolink AG, Lehmann PV, Nagy ZA, Hurtenbach U. *Induction of graft versus host-associated immunodeficiency by CD4+ T cell clones. J. Immunol.*, 1990. 145:2092-8.
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- Sercarz EE, Lehmann PV, Ametani A, Benichou G, Miller A, Moudgil K. *Dominance and crypticity of T cell antigenic determinants. Annu. Rev. Immunol.*, 1993. 11:729-66.
- Benichou G, Fedoseyeva E, Lehmann PV, Olson CA, Geysen HM, McMillan M, Sercarz EE. *Limited T cell response to donor MHC peptides during allograft rejection. Implications for selective immune therapy in transplantation. J. Immunol.*, 1994. 153:938-45.

- Bhardwaj V, Kumar V, Grewal IS, Dao T, Lehmann PV, Geysen HM, Sercarz EE. *T cell determinant structure of myelin basic protein in B10.PL, SJL/J, and their F1S.* **J. Immunol.**, 1994. 152:3711-9.
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- Tary-Lehmann M, Saxon A, Lehmann PV. *The human immune System in hu-PBL-SCID Mice.* **Immunol. Today**, 1995. 16:529-33.
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- Lehmann PV. *Immunomodulation by proteolytic enzymes.* **Nephrol. Dial. Transplant.**, 1996. 11:952-5.
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