BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Anthony Bart Nesburn, M.D.	Adjunct Professor

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Univ. of Calif.at L.A. (Magna Cum Laude)	B.A.	1956	Premed Sciences
Harvard Medical School, Boston (Cum	M.D.	1960	Medical
Boston City Hospital (Harvard Service)		1960-61	Internship
Massachusetts Eye & Ear Infirmary, Boston		1966-68	Resident/Ophthal.

A. POSITIONS AND HONORS:

PROFESSIONAL EXPERIENCE

1961	Research Fellow in Ophthalmology, Harvard Medical School, Boston.
1964-1966	Research Fellow, Harvard University, Research Division of Infectious Disease, Dr. John F. Enders, Children's Medical Center, Boston. Instructor, Harvard Medical School.
1966-1968	Head, Virology Laboratory, Howe Laboratory of Ophthalmology, Massachusetts Eye & Ear Infirmary.
1968-1984	Assistant, Associate and Clinical Professor of Ophthalmology, USC Medical School.
1968-1984	Director Virology Lab, Doheny Eye Foundation/USC School of Medicine.
1972&1976	Member, 1st, 2nd, National Eye Institute (NEI) Program Planning Corneal Task Force.
1973-1976	Member, Vision Research Program Committee, National Eye Institute.
1980-1983	Chairman (3rd) NEI, Corneal Task Force, Program Planning Subcommittee.
1984-1985	Clinical Professor of Ophthalmology, USC School of Medicine, Los Angeles.
1985-Pres.	Clinical Professor of Ophthalmology, UCLA School of Medicine, Los Angeles.
1985-2002	Director of Ophthalmology Research Laboratories-Cedars-Sinai Medical Center, Los Angeles.
1988	Committee Chairman, "New Research Strategies for Corneal Diseases Research, "NEI, Reporting to the NAEC for Program Planning 1990-1992, Washington, D.C.
1997-2000	Member, National Advisory Eye Council, National Institutes of Health, Washington, D.C.
2002-Pres.	Adjunct Professor and Vice Chairman for Research, Dept. Ophthalmology, UC Irvine

B. SELECTED PEER REVIEWED PUBLICATIONS (in chronological order) (selected form a total of 170)

1. Perng, GC, Slanina, SM, Yukht, A, Ghiasi, H, **Nesburn, AB** and Wechsler, SL: Herpes simplex virus type 1 serum neutralizing antibody titers increase during latency in rabbits latently infected with latency-associated transctipt (LAT) positive but not LAT negative viruses. J. Virol. 73:9669-9672. 1999.
2. Ghiasi, H, Perng, G, **Nesburn, AB** and Wechsler, SL: either a CD4(+) or CD8(+)T cell function is sufficient for clearance of infectiouis cirus from trigeminal ganglia and establishment of herpes simplex virus type 1 latency in mice. Microb Pathog. 27:387-394. 1999.
3. Ghiasi, H, Cai, S, Slanina, SM, Perng, GC, **Nesburn, A.B.** and Wechlser, SL: The role of interleukin (IL)-2 and IL-4 in HSV-1 ocular replication and eye disease. Infect. Dis. 179:1086-1093. 1999.
4. Perng, GC, Slanina, SM, Yukht, A, Ghiasi, H, **Nesburn, AB** and Wechsler, SL: the LAT gene enhances establishment of HSV-1 latency in rabbits. J. Virol. 74:1885-1891. 2000.
5. Perng, Gc, Jones, C, Ciacci-Zanella, J, Stone, M, Henderson, G, Yukht, A, Slanina, SM, Hofman, FM, Ghiasi, H, **Nesburn, AB** and Wechsler, SL: Virus-induced neuronal apoptosis blocked by the Herpes simplex virus latency associated transcript. Science 287:1500-1503. 2000.
6. Ghiasi, H, Cai, S, Perng, GC, **Nesburn, AB** and Wechsler, SL: Both CD4+ and CD8+ T-cells are involved in protection against HSV-1 induced corneal scarring. Br.J.Ophthalmol. 84:408-412. 2000.
7. Ghiasi, H, Perng, GC, **Nesburn, AB** and Wechsler, SL: Role of natural killer cells in protection against death and corneal scarring following ocular HSV-1 infection. Antiviral Res. 45:33-45. 2000.
8. Inman, M, Perng, GC, Henderson G, Ghiasi, H, **Nesburn, AB,** Wechsler, SL and Jones, C: Localization of

DNa sequences in the latency associated transcript (LAT) gene of herpes simplex virus type 1 that promote cell survival and spontaneous reactivation. J. Virol. 75:3636-3646. 2001.

9. Perng, GC, Slanina, SM, Ghiasi, H, **Nesburn, AB** and Wechsler: The effect of LAT (latency associated transcript) on the herpes simplex virus type 1 (HSV-1) latency-reacctivation phenotype is mouse strain dependent. J. g. Virol. 82:1117-1122. 2001.
10. Samoto, K, Perng, GC, Ehtesham, M, Liu, Y, Wechsler, SL, **Nesburn, AB,** Black, KL and Yu, JS: A herpes simplex virus type 1 mutant deleted for γ34.5 and LAT kills glioma cells in vitro and is inhibited for in vivo reactivation. Cancer Gene Therapy, 8:269-277. 2001.
11. Perng, GC, Esmaili, D, Slanina, SM, Yukht, A, Ghiasi, H, Osorio, N, Mott, KR, Maguen, B, Jin, L, **Nesburn, AB** and Wechsler, SL: Three HSV-1 LAT mutants with distinct asymmetric effects on virulence in mice compared to rabbits. J.Virol. 75:9018-9028. 2001.
12. Ghiasi, H, Hofman, FM, Wallner, K, Cai, S, Perng GC, **Nesburn, AB** and Wechsler, SL: Corneal macrophage infiltrates following ocular herpes simplex virus type 1 challenge vary in BALB/c mice vaccinated with different vaccines. Vaccine 19:1266-1273. 2001.
13. Ghiasi, H, Osorio, Y, Perng, GC, **Nesburn, AB** and Wechsler, SL: Recombinant HSV type 1 expressing murine interleukin-4 is less virulent than wild-type virus in mice. J. Virol. 75:9029-9036. 2001.
14. Perng, GC, Maguen, B, **Nesburn, AB,** Inman, M, Henderson, G, Jones, C and Wechsler, SL: A gene capable of blocking apoptosis can substitute for the herpes simplex virus type 1 latency-associated transcript gene and restore wild-type reactivation levels. J. Virol. 76:1224-1235. 2002.
15. Perng, Gc, Maguen, B, Lin, L, Mott, KR, Juryli, J, BenMohamed, L, Yukht, A, Osorio, N, **Nesburn, AB,** Henderson, G, Inman, M, Jones, C and Wechsler, SL: A novel Herpes simplex virus type 1 transcript (AL-RNA) antisense to the 5' end of the latency associated transcripts produces a protein in infected rabbits. J. Virol. 76:1-8.
16. Osorio, Y, Wechsler, SL, **Nesburn, AB** and Ghiasi, H: Reduced severity of HSV-1 induced corneal scarring in IL-12-deficient mice. Virus Res. 90:317-326. 2002.
17. BenMohamed, L., Wechsler, SL and **Nesburn, AB**: Lipopeptide Vaccines-Yesterday, Today and Tomorrow. *Lancet Infectious Diseases.* 2: 425-431. 2002
18. Perng, G-C, Maguen, B., Lin, L., Mott, K. R. Kuryli, J., BenMohamed, L., Yukht, A., Osorio, **Nesburn, AB,** Henderson, G., Inman, M., Jones C., and Wechsler, SL: A novel Herpes Simplex Virus Type 1 transcript (AL-RNA) Antisense to the 5' End of the Latency associated Transcripts produces a protein in infected Rabbits. *J. Virology.* 76(16):1-8. 2002
19. BenMohamed, L, McNamara, CD, Georges, B, Gras-Masse, H, Wechsler, SL and **Nesburn, AB:** Identification of Novel Potent $CD4^+$ T Helper Immunogenic Peptides From The Herpes Simplex Virus Glycoprotein D That Confer Protective *J. Virology*. 77 (17): 9463-9473. 2003
20. **Nesburn, AB,** Ramos, TV, Zhu, X, Asgarzadeh, H, Nguyen, V & BenMohamed, L: Local and Systemic B-cell and Th1 Responses Induced Following Ocular Mucosal Delivery of Multiple Epitopes of Herpes Simplex Virus Type 1 Glycoprotein D Together with Cytosine-Phosphate-Guanine Adjuvant. *Vaccine. 23:873-883.* 2005.
21. Zhang, X, Issagholian, A, Berg, EA, Fishman, JB, **Nesburn, AB** & BenMohamed L: Th-CTL Chimeric Epitopes Extended by N^{ε}-Palmitoyl-Lysines Induce Herpes Simplex Virus Type 1-Specific Effector CD8+ Tc_1 Responses and Protect Against Ocular Infection. *J Virol. 79(24):15289-15301.* 2005
22. **Nesburn, AB,** Bettahi, I, Zhang, X, Zhu, X, Chamberlain, W, Afifi, RE, Wechsler, SL & BenMohamed, L: Topical/Mucosal Delivery of Sub-Unit Vaccines That Stimulate the Ocular Mucosal Immune System. *The Ocular Surface. 4(4): 9-18. 2006.*
23. Nesburn AB, Bettahi I, Dasgupta G, Chentoufi AA, Zhang X, You S, Morishige N, Wahlert AJ, Brown DJ, Jester JV, Wechsler SL & **BenMohamed L. 2007**. Functional Foxp3+ CD4+CD25(Bright+) "Natural" Regulatory T Cells are Abundant in Rabbit Conjunctiva and Suppress Virus-Specific CD4+ and CD8+ Effector T Cells During Ocular Herpes Infection. J. Virol. Jul;81(14):7647-61.
24. Bettahi I; Nesburn AB., Yoon S; Mohebbi A; Sue V; Vanderberg V; Wechsler SL & **BenMohamed L. 2007** Protective Immunity Against Ocular Herpes Infection and Disease Induced by Highly Immunogenic Self-Adjuvanting Glycoprotein D Lipopeptide Vaccines. Invest Ophthalmol Vis Sci. Oct;48(10):4643-53.
25. Chentoufi A.A. Zhang X. Lamberth L. Dasgupta G. Bettahi I. Nguyen A. Wu M. Zhu X. Mohebbi A. Buus S. Wechsler S.L. Nesburn A.B. & **BenMohamed L. 2008**. Human Leukocyte Antigen (HLA)-A*0201-

Restricted CD8+ Cytotoxic T-Lymphocyte Epitopes Identified from Herpes Simplex Virus Glycoprotein D. *J. Immunology*. Jan 1;1(180):426-37.

26. Renaudet O. **BenMohamed L.** Dasgupta G. Bettahi I & Dumy P.. Nguyen A. Wu M. Zhu X. Mohebbi A. Buus S. Wechsler S.L. Nesburn A.B. &. **2008**. Towards a Self-Adjuvanting Multivalent B and T cell Epitope Containing Synthetic Glycolipopeptide Cancer Vaccine. *ChemMedChem. In press.*

C. RESEARCH SUPPORT

On Going Research Support:

Title: "Ocular Mucsol Immunity" (1RO1 EY15225)
Role On Project: Co-Investigator Nesburn (PI).
Agency: NIH/NEI **Period:** 08/01/04 -06/30/08
Major Goals: The overall goal of this proposal is to develop a better understanding of the ocular mucsol immune system (OMIS). This will be done in an experimental rabbit model whose ocular anatomy; immuno-histology and immune response to HSV infection mimics that of man.

Title: "Vision Research Infrastructure Development Grant" (R24 EY16663)

Role on Project: Director of the Tissue Culture Core Facility Nesburn (PI)

Agency: NIH/NEI **Period:** 06/01/05 - 05/30/10

Major Goals: Support vision research within the Department of Ophthalmology at the University of California Irvine through establishing cell culture and microscopic imaging core facilities.