

CURRICULUM VITAE

Name: Steven H. Hinrichs, M.D.

Home and Campus Addresses:

3306 Armbrust Drive
Omaha, NE 68124
(402) 397-8377

Pathology and Microbiology
University of Nebraska Medical Center
984080 Nebraska Medical Center
Omaha, NE 68198-4080
(402) 559-7255
shinrich@unmc.edu

Place of Birth: Redfield, S.D.

Education:

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|----------------------------|------|---------------|
| University of North Dakota | B.S. | 1976 |
| University of North Dakota | B.S. | 1978 Medicine |
| University of North Dakota | M.D. | 1980 Medicine |

Post-degree Training:

University of California, Davis Categorical Intern in Pathology, 1980-1981
University of California, Davis Resident, Anatomic and Clinical Pathology, 1980-1984
Medical Staff Fellow, Laboratory of Molecular Virology, National Institutes of Health, 1985-1987

Security Clearance: Secret, FBI sponsor

Academic Appointments:

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|---------------------|---|
| 2008-present | Chair, Department of Pathology and Microbiology, University of Nebraska Medical Center |
| 2007-2009 | Senior Associate Dean for Research Development, University of Nebraska Medical Center |
| 2008-Present | Director, UNMC Clinical Microbiology Fellowship Program, ABMM certified |
| 2007-present | Department Advisor to UNeMed Corporation |
| 2005-2007 | Vice Chair, Research and Development, Department of Pathology & Microbiology, University of Nebraska Medical Center |
| 2002-present | Stokes-Shackleford Professor, Department of Pathology & Microbiology, University of Nebraska Medical Center |
| 2002-present | Courtesy Professor, Eppley Institute, University of Nebraska Medical Center |
| 2002-present | Courtesy Professor, Department of Orthopaedic Surgery, University of Nebraska Medical Center |
| 1997-present | Director, Nebraska Public Health Laboratory |

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|---------------------|---|
| 1992-present | Associate Faculty, Creighton University/University of Nebraska Schools of Medicine, Pediatric Infectious Disease Division |
| 1991-present | Director, Microbiology and Virology Laboratory, Pathology and Microbiology, University of Nebraska Medical Center |
| 1991-2002 | Associate Professor, Department of Pathology and Microbiology, University of Nebraska Medical Center |
| 1985-1987 | Medical Staff Fellow, Laboratory of Molecular Virology, National Institutes of Health |
| 1984-1991 | Assistant Professor, University of California, Davis Medical Center, Sacramento, CA |

Current NIH/DOD Research Support:

Title: Evaluation of a new generation respiratory protection against aerosolized infectious agents.

Funding agency: DoD/Air Force

Project period: 7/18/07-11/18/10

Funding Amount: \$1,644,592

Principal Investigator: Steven H. Hinrichs, M.D.

Purpose: Phase 1: to determine whether personal respirator devices are capable of filtering viruses including influenza. Phase 2: investigate new compounds with inhibitory activity in respiratory media.

Title: Rapid identification of biological warfare agents

Funding agency: DoD US Army

Project period: 03/13/09-8/31/11

Funding Amount: \$792,252

Principal Investigator: Steven H. Hinrichs, M.D.

Purpose: This project seeks to identify new targets in select agents for use in diagnostic assays and studies of pathogenesis.

Title: Identification of Biological Materials of Unknown Origin

Funding agency: NIH

Project period: 2/1/06-1/31/11

Funding Amount: \$764,000

Principal Investigator: Khalid Sayood

Role on Project: Dr. Hinrichs is the faculty mentor for the project

Prior Research Support: available on request

Patents:

Patent #5,641,486 "Methods and composition for inhibiting B-ZIP transcription factor pathways"

Patent #5,844,096 "Methods of inhibiting transcription of the cyclic AMP responsive element binding protein and the activating transcription factor 1"

Patent #5,910,573 "Methods and Compositions of Modulating Transcription Factor Activity"

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Patent #6,872,523 “Materials and methods for molecular detection of clinically relevant, pathogenic fungal species.”

2006 Patent Issued March 29 2005 Number: 6,872,523 B1 Materials

and Methods for Molecular Detection of Clinically Relevant Pathogenic Fungal Species

2007 # 10/561,889 System and Method for Sequence Distance Measure for Phylogenetic Tree Construction

Patent Applications:

Patent #N1374-007 “Methods and compositions for modulating transcription factor activity”

Patent #63174P “Method and approach for identification of mycobacteria”

Docket #63174 “Custom Sequence Databases and Methods of Use Thereof”

Docket #63204 “Methods for identifying primase trinucleotide initiation sites and identification of inhibitors of primase activity derived from invention disclosure No. 03028”.

Docket #63190 “Specimen Reporting System”

Docket #UNVN 115325 System and Method for Sequence Distance Measure for Phylogenetic Tree construction

Products Licensed:

Santa Cruz Biotech, Inc. ATF-1 Monoclonal antibody NC41.4

Clinical Appointments:

1997-present Director of Microbiology and Virology, The Nebraska Medical Center

1997-present Director, Nebraska Public Health Laboratory at UNMC

1998-2000 Associate Director, University of Nebraska Medical Center
Clinical Laboratories,

1996-1997 Director, Specialty Laboratory, University of Nebraska Medical Center

1993-1996 Director, Molecular Diagnostics, University of Nebraska Medical Center

1991-1994 Director, Clinical Virology Laboratory,
University of Nebraska Medical Center

1984-1991 Staff Pathologist, Department of Medical Pathology, University of
California, Davis, Medical Center

Other Academic Appointments or Positions:

2006-present Member, Information Science & Technology Dean’s Advisory Committee,
UNO

2005-2009 Member, Board of Directors, Association of Public Health Laboratories

2002-present Director, Nebraska Center for Biosecurity

2001-2002 Co-leader, Exploring Partnership Opportunities; Omaha Veterans
Administration and the Nebraska Medical Center

1998-2000 Biosafety Officer

1995-1996 Member, Laboratory Redesign Committee

1992-2003 Program Member, Molecular, Cellular, and Structural Biology,
Eppley Cancer Center

1992-2000 Director, Transgenic Animal Facility, University of Nebraska Medical

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Center
1991-1996 Director, Molecular Diagnostics, University of Nebraska Medical Center

Consulting Positions:

2003-2007 Member, ASTHO/CIC: Enterprise Data Model Development and Management Working Group
1998-2002 Laboratory Corporation of America, Lincoln, NE
1997-1998 Blue Cross Blue Shield of Nebraska, Medical advisory board, Omaha, NE
1997-1998 DiaSorin (formerly INCSTAR)
1994-1997 Journal of Biomedical Research, Editorial Board
1994-1995 DAKO Corp., general diagnostic company
1993-1996 INCSTAR Corp., viral diagnostic company

Honors and Awards:

2007 NU Innovation, Development and Entrepreneurship Award
2006 UNMC Distinguished Scientist for 2006
2006 Northwest Rotary Vocational Service Award for Outstanding Service to the Community
2004 Faculty Member of Alpha Omega Alpha National Honor Society of Alpha of NE Chapter
2000-2002 California Cancer Research Coordinating Committee
1999 Department of Pathology, Grand Rounds Lecturer, University of Texas Medical Center
1996 Department of Pathology, Grand Rounds Lecturer, Albert Einstein College of Medicine, University of Nebraska Medical Center
1993 AMA-EMF Carter Fellowship
1991 Princess Takamatsu Cancer Research Symposium Lecturer
1989 Pluto Society Member
1985-1987 Medical Staff Fellow, The Nebraska Medical Center
1983 Landgraf Cancer Research Fellowship
1978-1979 National Foundation for Medical Education, Medical Perspectives Fellowship
1979 North Dakota Medical Association Award
1979 Lange Publications Award
1977 Special Alumni Award

Memberships and Offices in Professional Societies:

American Society of Microbiology
American Association for the Advancement of Science
Editorial advisory board: *Journal of Biomedical Science*
Nebraska Association of Pathologists
American Society of Clinical Pathology
Omaha Medical Society

Committee Assignments:

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Departmental

| | |
|--------------|--|
| 2005 | Chair, Department Review Committee, COM |
| 2000-2003 | Pathology/Microbiology Graduate Committee |
| 1992-present | Pathology/Microbiology Administrative Team |
| 1992-1997 | Pathology/Microbiology Graduate Committee |

University of Nebraska Medical Center (UNMC)

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|--------------|--|
| 2008-present | Innovation, Development and Engagement Award (IDEA) Committee |
| 2008-present | Associate Member, Molecular and Biochemical Etiology of Cancer Program |
| 2008-2009 | College of Medicine Curriculum Committee |
| 2008-2009 | Laboratory Advisory Council |
| 2007-present | Conflict of Interest Committee, College of Medicine |
| 2006-present | Advisory Committee for Bioinformatics & Molecular Modeling Core Facility |
| 2006-present | Doctoral Programs Planning Subcommittee College of Public Health |
| 2006-present | Partnerships for the College of Public Health |
| 2006-present | Faculty Senate Intellectual Property Committee |
| 2006-2009 | Remote Sensor Project – UNMC and TNMC |
| 2006-2009 | Chair, Research and Development Committee, COM |
| 2006-2009 | Clinical and Translational Science Award Planning Grant Steering Committee |
| 2006-2008 | Research Task Force, North Central Association Accreditation Committee |
| 2006-2008 | Committee for the establishment of College of Public Health Statewide partnership |
| 2006-2008 | Medical Record-Personal Health Record Development |
| 2006-2008 | Avian Flu Preparedness, Employee Absenteeism Collaboration with Offutt/STRATCOM GISC |
| 2006-2007 | UNMC/Hampton University (Virginia) Alliance – Bioterrorism Partnership |
| 2003-2005 | Member, Technological Evaluation & Protection Committee (TEPC) |
| 2002-2004 | UNMC/NHS Safety and Security Executive Committee |
| 2002-2008 | Research and Development Committee, College of Medicine |
| 1999-present | Infection Control Committee, University of Nebraska Medical Center |
| 1999-2002 | Laboratory Planning Committee (Architectural Design) |
| 1999-2002 | Cancer Center Membership Committee |
| 1996-1999 | UNMC-UNO Biosafety Committee |
| 1996-2002 | Laboratory Operations Team Committee |
| 1998 | Exploring Opportunities NHS/OVAH Oversight Committee |
| 1996 | Hattie B. Munroe Planning Committee |
| 1996 | Genetics Planning Committee |
| 1995 | Eppley Cancer Center Translational Research Grant Review |
| 1995 | Colon Cancer Screening Initiative Committee |
| 1995 | Hattie B. Munroe Building Committee |
| 1995 | XLP/PTLD Study Groups |

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| 1995-1996 | Solid Tumor Tissue Bank (consultant) |
| 1995-1996 | Laboratory Redesign Committee |
| 1995-1997 | Animal Care Committee-Eppley Institute |
| 1995-1997 | Committee on Basic Research, College of Medicine |
| 1995-2000 | System Redesign Committee |
| 1993 | Eppley Breast Cancer Development Grant Committee |
| 1993-1994 | College of Dentistry Graduate Program Review Committee |
| 1993-1994 | MD/PhD Program Development Committee |
| 1992 | Campus Seed Grant Committee, Chair |
| 1992-1993 | UNL 3M Chair in Genetics Search Committee |
| 1991-1994 | Research and Development Committee, College of Medicine |

The Nebraska Medical Center, Committee Appointments:

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|--------------|---|
| 1998-present | Infection Control Committee |
| 1998-2010 | Medical Staff Pharmacy and Therapeutics Committee |

Committee Assignments/National:

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|--------------|---|
| 2009-present | American Society of Microbiology and Immunology Chairs |
| 2008-present | National Biosurveillance Advisory Subcommittee (NBAS, CDC) |
| 2008-present | NBAS Healthcare and Public Health Information Exchange Task Force- Committee Chair |
| 2007-2008 | Consultant, United States Air Force Scientific Advisory Board |
| 2007-2008 | National Governor's Association Task Force, Health Information Communication Task Force |
| 2007-present | SPADA PHAA Work Group, AOAC International |
| 2006-present | CDC/APHL Public Health Laboratory Informatics Project – co-lead |
| 2006-2008 | Douglas County Health Department Pandemic Influenza Policy Committee |
| 2006-present | TB Advisory Committee, State of Nebraska, Department of Health and Human Services |
| 2006-2007 | CDC CLIAC Workgroup on Impact of Rapid Tests for Infectious Disease on Public Health |
| 2006-2009 | HHS Biosurveillance Data Steering Committee |
| 2006-present | NeHII Collaborative – Electronic Health Records |
| 2006-2008 | HHSS Turning Point Public Health Stakeholders Group |
| 2006-2007 | HISPC RFP Steering Committee |
| 2006-2008 | APHL Board of Directors |
| 2006-2008 | APHL RWJF Workforce Initiative Oversight Team |
| 2003-2005 | ASTHO (Association of State & Territorial Health Officials), Liaison (APHL), Public Health Informatics Committee |
| 2001-2005 | CDC: CIC: Member CDC Information Council |
| 2001-present | College of American Pathology, Laboratory Accreditation Inspector |
| 2001-2003 | NIH, Clinical Oncology Study Section |
| 2000-2003 | California Cancer Research Program: Biomedical Study Section B, member |

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| 2000-2002 | CDC: HIBBS-ELR Panel, advisor, Electronic Laboratory Reporting for National Surveillance Group |
| 2000-2006 | APHL: Informatics, Committee Chair |
| 2000 | ASCP: Member, Strategic Alliance Task Force |
| 1999 | ASCP: Member, New Business Development Task Force |
| 1999-2001 | Network/Leadership Council, CDC: Public Health Information Steering Committee – NEDSS |
| 1998-20001 | ASCP: (Association of Clinical Pathology) Business Development Committee |
| 1997 | November, CAP Laboratory Inspection, University of Iowa, Iowa City, IA |
| 1996-present | Region VII Chlamydia Control Advisory Committee |
| 1995 | August, CAP Laboratory Inspection, University of Washington, Seattle |
| 1995 | December, CAP Laboratory Inspection, Viromed, Inc., Minneapolis, MN |
| 1993-1996 | NIH: Immunology, Virology & Pathology Study Section (IVP) |

Bibliography:

Articles published in scholarly journals:

1. Dajee H, Dane A, **Hinrichs S**, Lillington G. Pulmonary chondromas extra-adrenal paraganglioma and gastric leiomyosarcoma. *J of Thorac Cardiovasc Surg.* 1982 Sep 84(3):377-81.
2. Carlson JR, Bryant ML, **Hinrichs SH**, Yamamoto JK, Levy NB, Yee J, Higgins J, Pedersen N, Holland P, Garner MB. HTLV-III antibody screening of blood bank donors. *Lancet.* 1985 Mar 2;1(8427):523-4.
3. **Hinrichs SH**, Jaramillo M, Gumerlock PH, Gardner MB, Lewis JP, Freeman AE. Myxoid chondrosarcoma with a translocation involving chromosomes 9 and 22. *Cancer Genet Cytogenet.* 1985 Jan 15;14:219-26.
4. Carlson JR, **Hinrichs SH**, Levy NB, Gardner MB, Holland P, Pedersen NC. Evaluation of commercial AIDS screening test kits. *Lancet.* 1985 Jun 15;1(8442):1388.
5. Carlson JR, Bryant ML, **Hinrichs SH**, Yamamoto JK, Levy NB, Yee J, Higgins J, Levine AM, Holland P, Gardner MB, et al. AIDS serology testing in low-and high-risk groups. *JAMA.* 1985 Jun 21; 253(23):3405-8.
6. Holland PV, Richards CA, Teghtmeyer JR, Douville CM, Carlson JR, **Hinrichs SH**, Pedersen NC. Anti-HTLV-III testing of blood donors: reproducibility and conformability of commercial test kits. *Transfusion.* 1985 Jul-Aug; 25(4):395-7.
7. Levy N, Carlson JR, **Hinrichs S**, Lerche N, Schenker M, Gardner MB. The prevalence of HTLV-III/LAV antibodies among intravenous drug users attending treatment programs in California: A preliminary report. *N Engl J Med.* 1986 Feb 13;314(7):446.
8. Carlson JR, **Hinrichs SH**, Yee J, Gardner MB, Pedersen NC. Evaluation of three commercial screening testing of AIDS virus antibodies. *Am J Clin Pathol.* 1986 Sep; 86(3):357-9.
9. Carlson JR, Yee J, **Hinrichs SH**, Bryant ML, Gardner MB, Pedersen NC. Comparison of indirect immunofluorescence and Western blot for detection of anti-human immunodeficiency virus antibodies. *J Clin Microbiol.* 1987 Mar; 25(3):494-7.

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10. Fung YK, Murphree AL, T'Ang A, Qian J, **Hinrichs SH**, Benedict WF. Structural evidence for the authenticity of the human retinoblastoma gene. *Science*. 1987 Jun 26;236(4809):1657-61.
11. Nerenberg M, **Hinrichs SH**, Reynolds RK, Khoury G, Jay G. The *tat* gene of human T-lymphotropic virus type I induces mesenchymal tumors in transgenic mice. *Science*. 1987 Sep 11;237(4820):1324-9.
12. **Hinrichs SH**, Nerenberg M, Reynolds RK, Khoury G, Jay G. A transgenic mouse model for human neurofibromatosis. *Science*. 1987 Sep 11;237(4820):1340-3.
13. Lucke-Huhle , **Hinrichs S**, Speit G. DHFR gene amplification in cultured skin fibroblasts of ataxia telangiectasia patients after methotrexate selection. *Carcinogenesis*. 1987 Dec;8(12):1801-6.
14. Reynolds RK, Hoekzema GS, Vogel J, **Hinrichs SH**, Jay G. Multiple endocrine neoplasia induced by the promiscuous expression of a viral oncogene. *Proc Natl Acad Sci USA*. 1988 May; 85(9):3135-9.
15. Vogel J, **Hinrichs SH**, Reynolds K, Luciw PA, Jay G. The HIV *tat* gene induces dermal lesions resembling Kaposi's sarcoma in transgenic mice. *Nature*. 1988 Oct 13; 335(6191):606-11.
16. **Hinrichs SH**, Vogel J, Rhim MJ, Jay G. Use of transgenic animals to study human retroviruses. *Cancer Metastasis Rev*. 1988 Dec;7(4):311-20. Review.
17. Koike K, **Hinrichs SH**, Isselbacher KJ, Jay G. Transgenic mouse model for human gastric carcinoma. *Proc Natl Acad Sci USA*. 1989 Jul;86(14):5615-9.
18. Green JE, **Hinrichs SH**, Vogel J, Jay G. Exocrinopathy resembling Sjogren's syndrome in HTLV-1 tax transgenic mice. *Nature*. 1989 Sep 7;341(6237):72-4.
19. Schrenzel MD, Higgins RJ, **Hinrichs SH**, Smith MO, Torten M. Type C retroviral expression in spontaneous feline olfactory neuroblastomas. *Acta Neuropathol (Berl)*. 1990;80(5):547-53.
20. Koike K, Jay G, Hartley JW, Schrenzel MD, Higgins RJ, **Hinrichs SH**. Activation of retrovirus in transgenic mice: Association with development of olfactory neuroblastoma. *J Virol*. 1990 Aug;64(8):3988-91.
21. **Hinrichs SH**, Fontes JD, Bills ND, Schneider PD. Transgenic models of human cancer. *Princess Takamatsu Symp*. 1991;22:259-74. Review.
22. Vogel J, **Hinrichs SH**, Napolitano LA, Ngo L, Jay G. Liver cancer in transgenic mice carrying the human immunodeficiency virus *tat* gene. *Cancer Res*. 1991 Dec 15;51(24):6686-90.
23. Baird AM, Green JE, Jay G, **Hinrichs SH**. Neurofibromatosis: Key Features of the Transgenic Mouse Model. *Comp Patho Journal*. 1992 Feb 24:3-4.
24. Feigenbaum L, **Hinrichs SH**, Jay G. JC virus and simian virus 40 enhancers and transforming proteins: Role in determining tissue specificity and pathogenicity in transgenic mice. *J Virol*. 1992 Feb;66(2):1176-82.
25. Bills ND, **Hinrichs SH**, Morgan R, Clifford AJ. Tissue folate levels in transgenic mice with tumors and in non-transgenic controls. *J of Nutri Biochem* 1992 3:113-7.
26. Bills ND, **Hinrichs SH**, Morgan R, Clifford AJ. Delayed tumor onset in transgenic mice fed a low-folate diet. *J Natl Cancer Inst*. 1992 Mar 4;84(5):332-7.
27. Heid MK, Bills ND, **Hinrichs SH**, Clifford AJ. Folate deficiency alone does not produce neural tube defects in mice. *J Nutr*. 1992 Apr;122(4):888-94.

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28. **Hinrichs S**, Smith L, Ghazvini S, Kirven K, Palladino H, Spaulding D. Multiple HPV infection: microanatomy by in situ hybridization and immunohistochemistry. *Mod Pathol.* 1992 May;5(3):257-61.
29. Green JE, Baird AM, **Hinrichs SH**, Klintworth GK, Jay G. Adrenal medullary tumors and iris proliferation in a transgenic mouse model of neurofibromatosis. *Am J Pathol.* 1992 Jun;140(6):1401-10.
30. Ebeler SE, **Hinrichs SH**, Clifford AJ, Shibamoto T. Analysis of reactive carbonyls in the expired air of transgenic mice. *Anal Biochem.* 1992 Aug 15;205(1):183-6.
31. Fontes JD, Strawhecker J, Bills ND, Lewis RE, **Hinrichs SH**. Phorbol esters modulate the phosphorylation of human T-cell leukemia virus type I Tax. *J Virol.* 1993 Jul;67(7):4436-41.
32. Chan WC, Hooper C, Wickert R, Benson R, Vardiman J, **Hinrichs SH**, Weisenburger D. HTLV-I sequence in lymphoproliferative disorders. *Diagn Mol Pathol.* 1993 Sep;2(3):192-9.
33. Seemayer TA, Gross TG, **Hinrichs SH**, Egeler Rm. Massive diffuse histiocytic myocardial infiltration in Epstein-Barr virus-induced fatal infectious mononucleosis. *Cell Vision* 1994 1(3):260-4.
34. Ebeler SE, **Hinrichs SH**, Clifford AJ, Shibamoto T. Volatile carbonyl levels in tissues of transgenic mice with nerve sheath tumors. *J Chromatogr B Biomed Appl.* 1994 Mar 18;654(1):9-18.
35. Iwen PC, Davis JC, Reed EC, Winfield BA, **Hinrichs SH**. Airborne fungal spore monitoring in a protective environment during hospital construction, and correlation with an outbreak of invasive aspergillosis. *Infect Control Hosp Epidemiol.* 1994 May;15(5):303-6.
36. Mirvish SS, Weisenburger DD, **Hinrichs SH**, Nickols J, Hinman C. Effect of catechol and ethanol with and without methylamyl nitrosamine on esophageal carcinogenesis in the rat. *Carcinogenesis.* 1994 May;15(5):883-7.
37. Huang D, Shipman-Appasamy PH, Orten DJ, **Hinrichs SH**, Prystowsky MB. Promoter activity of the proliferating-cell nuclear antigen gene is associated with inducible CRE-binding proteins in interleukin 2-stimulated T-lymphocytes. *Mol Cell Biol.* 1994 Jun;14(6):4233-43.
38. Orten DJ, Strawhecker JH, Sanderson SD, Huang D, Prystowsky MB, **Hinrichs SH**. Differential effects of monoclonal antibodies on activating transcription factor-1 and cAMP response element binding protein interactions with DNA. *J Biol Chem.* 1994 Dec 23;269(51):32254-63.
39. Gilchrist CA, Orten DJ, Bosilevac JM, Sanderson DS, **Hinrichs SH**. Transcriptional inhibition by a monoclonal antibody Fab fragment. *AB, Immun, and Radpharm.* 1995 8(4):281-98.
40. Feuerstein N, Huang D, **Hinrichs SH**, Orten DJ, Aiyar N, Prystowsky MB. Regulation of cAMP-responsive enhancer binding proteins during cell cycle progression in T-lymphocytes stimulated by IL-2. *J Immunol.* 1995 Jan1;154(1):68-79.
41. Iwen PC, Kelly DM, Reed EC, **Hinrichs SH**. Invasive infection due to *Candida krusei* in immunocompromised patients not treated with fluconazole. *Clin Infect Dis.* 1995 Feb;20(2):342-7.

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42. Kelly D, Scholtz B, Orten DJ, **Hinrichs SH**, Rizzino A. Regulation of the transforming growth factor β 2 gene promoter in embryonal carcinoma cells and their differentiated cells: Differential utilization of transcription factors. *Mol Reprod Dev.* 1995 Feb;40(2):135-45.
43. Iwen PC, Walker RA, Warren KL, Kelly DM, **Hinrichs SH**, Linder J. Evaluation of nucleic acid-based test (PACE 2C) for simultaneous detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* in endocervical specimens. *J Clin Microbiol.* 1995 Oct;33(10):2587-91.
44. Horowitz AA, Shaw KES, **Hinrichs SH**, Anderson GB. Nucleotide sequence of a highly repetitive DNA element in the domestic goat and its structural relatedness to ovine satellite I and bovine satellite I DNA. *Small Ruminant Research.* 1996 20:89-94.
45. Schneider P, **Hinrichs S**, Zolim R, Tavary R. Carcinogenesis by methylbenzyl-nitrosamine near the squamocolumnar junction and methylamylnitrosamine in the forestomachs of CD-1 mice. *Cancer Lett.* 1996 Apr 19;102(1-2):125-31.
46. Iwen PC, Kelly DM, Linder J, **Hinrichs SH**. Revised approach for identification and detection of ampicillin and vancomycin resistance in *Enterococcus* species by using MicroScan panels. *J Clin Microbiol.* 1996 Jul;34(7):1779-83.
47. Bills ND, **Hinrichs SH**, Morse JW. Direct detection of Epstein-Barr viral antigen in nasopharyngeal swabs from patients with infectious mononucleosis. *Acad Emerg Med.* 1996 Aug;3(8):776-81.
48. Gilchrist CA, Orten DJ, **Hinrichs SH**. Evidence for the role of cyclic AMP-responsive elements in human virus replication and disease. *J Biomed Sci.* 1996 Sep; 3(5):293-306.
49. Clifford AJ, Ebeler SE, Ebeler JD, Bills ND, **Hinrichs SH**, Teissedre PL, Waterhouse AL. Delayed tumor onset in transgenic mice fed an amino acid-based diet supplemented with red wine solids. *Am J Clin Nutr.* 1996 Nov;64(5):748-56.
50. Iwen PC, Walker RA, Warren KL, Kelly DM, Linder J, **Hinrichs SH**. Effect of off-site transportation on detection of *Neisseria gonorrhoeae* in endocervical specimens. *Arch Path Lab Med.* 1996 Nov;120(11):1019-22.
51. Iwen PC, Kelly DM, Linder J, **Hinrichs SH**, Dominguez EA, Rupp ME, Patil KD. Change in prevalence and antibiotic resistance of *Enterococcus* species isolated from blood cultures over an eight-year period. *Antimicrob Agents Chemother.* 1997 Feb;41(2):494-5.
52. d'Amore F, Stribley JA, Ohno T, Wu G, Wickert RS, Delabie J, **Hinrichs SH**, Chan WC. Molecular studies on single cells harvested by micromanipulation from archival tissue sections previously stained by immunohistochemistry or non-isotopic *in situ* hybridization. *Lab Invest.* 1997 Feb;76(2):219-24.
53. Krause AK, **Hinrichs SH**, Orndal C, DeBoer J, Neff JR, Bridge JA. Characterization of a human myxoid malignant fibrous histiocytoma cell line, OH931. *Cancer Genet Cytogenet.* 1997 Apr;94(2):138-43.
54. Iwen PC, Rupp ME, **Hinrichs SH**. Invasive mold sinusitis: Seventeen cases in immunocompromised patients and review of the literature. *Clin Infect Dis.* 1997 Jun;24(6):1178-84.
55. Sandler ES, Aquino VM, Gross-Hohet E, **Hinrichs S**, Krisher K. BK papova virus pneumonia following hematopoietic stem cell transplantation. *Bone Marrow Transplant.* 1997 Jul;20(2):163-5.

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56. Paul S, Li L, Ravishankar K, O'Dell J, Dannenbring, Jr RE, Swindells S, **Hinrichs S**, Caturegli P and Rose NR. Characterization of thyroglobulin-directed and polyreactive catalytic antibodies in autoimmune disease. *J Immunol.* 1997 Aug 1;159(3):1530-6.
57. Ohno T, Stribley JA, Wu G, **Hinrichs SH**, Weisenburger DD, Chan WC. Clonality in nodular lymphocyte predominant Hodgkin's disease. *N Engl J Med.* 1997 Aug 14;337(7):459-65.
58. Tarantolo SR, Landmark JD, Iwen PC, Kessinger A, Chan WC, **Hinrichs SH**. Bartonella-like erythrocyte inclusions in thrombotic thrombocytopenic purpura. *Lancet.* 1997 Nov 29;350(9091):1602.
59. Ohno T, Smir BN, Weisenburger DD, Cascoyne RD, **Hinrichs SH**, Chan WC. Origin of the Hodgkin/Reed-Sternberg cells in chronic lymphocyt leukemia with "Hodgkin's transformation". *Blood.* 1998 Mar 1;91(5):1757-61.
60. Gross TG, **Hinrichs SH**, Davis JR, Fuller S, Mitchell D, Bishop MR, Wagner JE. Depletion of EBV-infected cells in donor marrow by counterflow elutriation. *Exp Hematol.* 1998 May;26(5):395-9.
61. Iwen PC, Rupp ME, Langnas AN, Reed EC, **Hinrichs SH**. Invasive pulmonary aspergillosis due to *Aspergillus terreus*; twelve-year experience and review of the literature. *Clin Infect Dis.* 1998 May;26(5):1092-7. Review.
62. Gross TG, **Hinrichs SH**, Winner J, Greiner TC, Kaufmann SS, Sammut PH, Langnas AN. Treatment of post-transplant lymphoproliferative disease (PTLD) following solid organ transplantation with low dose chemotherapy. *Ann Oncol.* 1998 Mar;9(3):339-40.
63. Bosilevac JM, Gilchrist CA, Jankowski PE, Paul S, Rees AR, **Hinrichs SH**. Inhibition of activating transcription factor 1- and cAMP responsive element-binding protein-activated transcription by an intracellular single chain Fv fragment. *J Biol Chem.* 1998 Jul 3;273(27):16874-9.
64. Iwen PC, Rupp ME, Bishop MR, Rinaldi MG, Sutton DA, Tarantolo S, **Hinrichs SH**. Disseminated aspergillosis caused by *Aspergillus ustus* in a patient following allogeneic peripheral stem cell transplantation. *J Clin Microbiol.* 1998 Dec;36(12):3713-7.
65. Hoeffel DP, **Hinrichs SH**, Garvin KL. Molecular diagnostics for the detection of musculoskeletal infection. *Clin Orthop Relat Res.* 1999 Mar;(360):37-46. Review.
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145. Abdalhamid B, **Hinrichs SH**, Garrett JL, O'Neill JM, Hansen-Cain KM, Armbrust AA, and Iwen PC. Utilization of the QuantiFERON-TB Gold test in a 2-step process with the tuberculin skin test to evaluate healthcare workers for latent tuberculosis. *J.Clin. Microbiol.* 2010 August 48:2955-6, *PMC: 20573876*.

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1. Gardner MB, WG Sullivan, **SH Hinrichs**. The pathology of viral infections. In: H. Rothschild, (Ed.) *Human Virology*, Oxford University Press, Chapter 3, pp. 65-86, 1986.
2. Gardner MB, PA Luciw, **SH Hinrichs**. Molecular Immunopathology. In *Proceedings of the Thirty 8th Annual Meeting of the American College of Veterinary Pathologists*.
3. Nerenberg M, **SH Hinrichs**, RK Reynolds, J Vogel, G Jay. A transgenic mouse model for the study of human T-lymphotropic virus type I. In: Liu, D.T., Marshak, D.R. and Schechter, A.N. (Eds): Therapeutic Peptides and Proteins: Assessing the New Technology.
4. **Hinrichs SH**, L Chen, J Fontes, G Jay. Human T-lymphotropic Virus Type I: Studies of Disease Cold Spring Harbor, New York, 1988. Mechanism in a Transgenic Mouse system. In: R. Gallo (Ed.) The Human Retroviruses, Academic Press, Inc., pp. 227-43, 1991. *Cancer Research Fund.* pp. 259-74, 1992.
5. **Hinrichs SH**, JD Fontes, ND Bills, PD Schneider. Transgenic models of human cancer. In: Sugimura, T., Terada, M. and Harris, K. (Eds.) Multi-stage Carcinogenesis; 22nd International Symposium of the Princess Takamatsu.
6. Traystman MD, **Hinrichs SH**. Molecular Basis of Human Disease. In: J. Linder and I. Damjanov, (Eds.) Anderson's Pathology, Mosby-Year Book, Chap. 15, 1:311-323, 1996.

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7. Mun PA, Jacobs DS. (Contributors: **Hinrichs SH**, Ost, M.D.) Anatomic Pathology. In: Jacobs, D.S., Demott, W.R., Grady, H.J., Horvaat, R.T., Huestis, D.W., Kasten Jr., B.L., (Eds.) Laboratory Test Handbook, 4th Edition with Key Word Index, LEXI-COMP Inc., Hudson (Cleveland), 1996.
8. Horvath RT, **Hinrichs SH**, Tilzer LL. (Contributors: Bridge, J, Persons, D., Murphy, PD.) Molecular Pathology. In: Jacobs, D.S., Demott, W.R., Grady, H.J., Horvaat, R.T., Huestis, D.W., Kasten Jr., B.L., (Eds.) Laboratory Test Handbook, 4th Edition with Key Word Index, LEXI-COMP Inc., Hudson (Cleveland), 1996.
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11. Ebeler SE, Clifford AJ, Ebeler JD, Bills ND, **Hinrichs SH**. An *in vivo* experimental protocol for identifying and evaluating dietary factors that delay tumor onset: Effect of red wine solids. Wine Nutritional and Therapeutic Benefits. In: Watkins TR (Ed.) ACS Symposium Series 661, American Chemical Society, Washington D.C., Chap. 16, pp. 215-229, 1997.
12. **Hinrichs SH**, Wisecarver JL., (Guest Editor): Molecular methods in diagnostic microbiology; In: Clinics in Laboratory Medicine. 23(4) December 2003.
13. Kingston A, Morien M, **Hinrichs SH**. Bioterrorism Preparedness: The Challenge of Disparate Populations. In Satcher D, Pamies RJ (eds.): *Multicultural Medicine and Health Disparities*. New York, McGraw Hill, Chap. 32, pp. 533-540, 2005

Books or journals edited:

Ad hoc reviewer:

New England Journal of Medicine
Molecular Pathology
Journal of Laboratory Medicine

American Journal of Pathology
Journal of Biomedical Science

Abstracts: not recorded

Preliminary communications:

1. Bastola DR, Otu HH, Doukas SE, Sayood K, **Hinrichs SH**, Iwen PC. Utilization of the relative complexity measure to construct a phylogenetic tree for fungi. ASM (103rd General Meeting), May, 18-22, 2003
2. Stickle DF, Naushad H, **Hinrichs SH**, Pirruccello SJ. Quantitative data analysis for the bloodspot biotinidase newborn screening assay using a desktop scanner. Computer applications. Am Assoc Clin Chem (Philadelphia) July, 2003

Presentations and Invited Lectureships/Meetings:

- 1990:** UCLA Molecular Biology Symposium, Taos, NM, Transgenic Animals in Medicine "Models of Human Retrovirus-Induced Disease in Transgenic Mice"
- 1991:** FASEB Mini Symposium, Atlanta, GA, Pathology of Transgenic Animals "Cellular

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Effects of Viral Genes in Transgenic Mice"

- 1991:** Princess Takamatsu Cancer Research Conference, Tokyo, Japan. "Models of Human Disease in Transgenic Mice"
- 1992:** Diagnostic Applications of PCR for Clinical Diagnosis. Damon Binford Society of Infectious Disease Pathologists IAP, Atlanta, GA. "Use of transgenic mice to explore gene function of oncogenic viruses"
- 1994:** AFIP "Animal Models of Human Disease" on CD ROM. "Transgenic mouse model of neurofibromatosis"
- 1995:** American Cancer Society Symposium, Omaha, NE. "Role of Viruses in Human Cancer"
- 1995:** LifeQuest TV presentation, Omaha, NE, "Rapid Viral Diagnosis"
- 1995:** NE Education and Training Center, Nebraska HIV Coordinators, Omaha, NE, "Laboratory Diagnosis of HIV, Update 1995"
- 1995:** American Cancer Society Symposium, Omaha, NE
- 1995:** Pan-American Group for Rapid Diagnosis, Tampa, FL "Role of EBV Serology in the Liver and Bone Marrow Transplant"
- 1995:** Nebraska Association of Pathologists, "Viral Diagnostics by Molecular Methods". Omaha, NE, 9/20/95
- 1995:** Oncology Fall Seminar presented by The Radiation Therapist Subcommittee of the American Cancer Society. "The Role of Viruses in the Development of Human Cancers", 10/14
- 1996:** Albert Einstein College of Medicine/Montefiore Medical Center, New York, NY. "Role of ATF/CREB in Viral Transcription" 06/24-15
- 1996:** Molecular Biology Symposium, "An Inhibitory Protein of ATF-mediated Transcription, University of NE Kearney, NE. 09/5-6
- 1996:** University of Nebraska at Lincoln, Department of Chemistry Grand Rounds, "Structural Studies of an Inhibitory Protein of ATF-mediated Transcription", 09/19
- 1996:** "The Virus-cancer Connection: Recent Research Efforts" 12/06/96
- 1996:** Nebraska City, NE, Antibody Interest Group. "Inhibitory Activity by a scFv".
- 1997:** Iowa Society of Cytology Fall Meeting, Council Bluffs, IA, 09/19.
- 1997:** UNMC Section of Oncology/Hematology/Allogeneic Transplant Meeting, "Quantitative Viral Testing", 10/17

- 1997:** UNMC Section of Oncology/Hematology/Allogeneic Transplant Meeting, "New Approaches to Anti-viral Therapy" 11/07
- 1997:** Nebraska STD Control Program quarterly staff meeting, 12/18. "STD Laboratory Test Types"
- 1998:** UNMC Board of Visitors "Ethical issues of new technology"
- 1998:** University of Nebraska Board of Regents, Cloning and Organ transplantation, Panel discussion
- 1998:** HIV Education Conference, Public Health Network UNMC, 10/98
- 1998:** NHS Section of Oncology/Hematology/Allogeneic Transplant Meeting, "Review HHV6 in bone marrow transplantation populations", 12/98
- 1998:** Canedy Institute Program on Medical Leadership, Storz Meeting Rm., North Campus; 09/18, 09/19, 10/01, 10/02, 10/03, 11/06, 11/07, 11/12, 11/14
- 1998:** Association of Public Health Laboratories (APHL) Washington, D.C., October
- 1999:** American Society of Clinical Pathologists, Development of new business strategies for

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the next millennium, 01/09

- 1999:** University of Texas Medical Center, Houston, Department of Pathology Grand Rounds, "New Molecular Strategies for Cancer Therapeutics"
- 1999:** Association of Medical School Microbiology & Immunology Chairs, St. Lucia, 01/23 -25
- 1999:** 19th Annual Infectious Diseases Spring Symposium, UNMC, ESH. "Recent advances in diagnostic testing for virology", 04/29
- 1999:** Association of Public Health Laboratories (APHL) Washington, D.C., June
- 1999:** University of Nebraska, Kearney, Sigma Xi Lectureship. "Future Prospects in Molecular Microbiology" 11/16
- 1999:** Association of Public Health Laboratories (APHL) Washington, D.C., 11/11-12
- 1999:** Association of Medical School Microbiology & Immunology Chairs, St. Lucia 01/23-25
- 2000:** Association of Public Health Laboratories, CDC meeting "Surveillance Systems Integration Project (SSIP)", Atlanta, GA, January
- 2000:** *E. coli* Executive Committee Meeting, UNL, 01/21
- 2000:** NEDDS Stakeholders Meeting, Atlanta, GA, 03/30-31
- 2000:** Association of Public Health Laboratories, CDC meeting, Atlanta, GA, 04/20
- 2000:** Association of Microbiology Meeting, Los Angeles, CA, 05/12-13
- 2000:** NPHL Seminar presentation: "State of Art Testing for STD", UNMC, 06/09
- 2000:** APHL Annual Planning Conference, "Electronic Laboratory Reporting" St. Louis, MO, 06/12-13
- 2000:** CDC meeting, "Genetics competencies in Public Health" Atlanta, GA 08/16-17
- 2000:** NHHS: "Emerging Infections in NE: 2000 and Beyond" Lincoln, NE 09/14
- 2000:** NTLN meeting, UNMC, 10/18-19
- 2000:** Region VII Infertility Prevention Advisory Cmte Mtg, Kansas City, MO, 10/30-31
- 2000:** NIH Clinical Oncology Study Section, Washington DC, 11/06-08
- 2000:** CDC meeting re: HISSB (Health Info and Survey Systems) Atlanta, GA, 11/09
- 2001:** APHL Leadership Meeting, Yountville, CA, 01/12-14
- 2001:** Kiwanis Club of Omaha, Inc., Omaha, NE, "Protecting the Public Health", 05/18
- 2001:** National Laboratory System Mtg, APHL/CDC, Atlanta, GA, 06/04
- 2001:** APHL Planning Meeting, Portland, OR, 06/10-12

- 2001:** Agro-Medicine Consortium, "Public Health and Rural Medicine: Current Issues and Controversies; Kearney, NE, 09/01
- 2001:** UNMC/NHS, Lunch and Learn presentation regarding Bioterrorism, 10/05
- 2001:** UNMC Chancellor's Council Meeting regarding UNMC security including bioterrorism, 10/09
- 2001:** NETV Interview with Carol Shrader regarding Bioterrorism and Public Health, 10/11
- 2001:** Nebraskans for Research: Steering committee presentation, Countryside Community Church –spoke to general public and UNMC colleagues regarding Bioterrorism and Public Health, 10/15
- 2000:** UNMC/NHS, Lunch and Learn presentation regarding Bioterrorism, 10/15

- 2001:** Chancellor's Board of Counselors, Lincoln, NE, University preparation for bioterrorism. 10/18
- 2001:** Scott Conference Center, Nebraskans for Research Forum: Bioterrorism and Public Health, Local preparedness for Bioterrorism, "How will we know if there is a problem?"

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10/24

- 2001:** NHS Lunch and Learn: Bioterrorism and Public Health, 10/24
- 2001:** Senator Chuck Hagel briefing, 10/28
- 2001:** UNMC representative, Kiewit Institute presentation on informatics, IBM, White Plains, NY, 10/08
- 2001:** ASCP special teleconference, "Bioterrorism Preparedness: A Walk Through Laboratory Protocols"
- 2001:** Health and Human Services Committee, Lincoln, Panel Participant (Crouse, Hinrichs, Nelson, Bartee), 11/02.
- 2001:** Nebraska Electronic Laboratory Reporting Site Visit. "NEDSS participation in ELR" "Planning activities in ELR in Nebraska" "Legality (Acceptability of lab data to pass through CDC from national labs" 12/19
- 2002:** Present 'Health Informatics Program and Public Health' UNMC, 02/21
- 2002:** Business-Higher Education Forum, 2002 Winter Meeting, "Terrorism and the Nation's Security", Scottsdale, AZ, 03/02
- 2002:** Present on Higher Education Forum Panel, to CEOs, and personnel of universities, Lincoln, NE, 03/12
- 2002:** Rotary Meeting at Field Club, Bioterrorism, 03/27
- 2002:** Speaker: Bioterrorism at Omaha CREW Banquet, 04/27
- 2002:** Promoting Research Collaborations. Mahoney State Park, "Infectious Diseases/Anti-Bioterrorism Research", 04/29
- 2002:** Chancellor's Unit Meeting (HPTC, RHEN, Public Affairs, Alumni Affairs), "Bioterrorism" 05/01
- 2002:** Mid-America Hospital Alliance (MAHA) panel, UNMC, 05/10
- 2002:** Homeland Security Meeting with Lt. Gov. Dave Heineman, UNMC, 05/28
- 2002:** UNMC Student Senate, Bioterrorism presentation, CON, 06/03
- 2002:** University of Kansas – Merrill Advanced Studies Center - "University Role in Bioterrorism Preparedness", 06/13
- 2002:** Homeland Security Policy Group Meeting re: Food Safety AFDO, Lincoln, NE, 07/18
- 2002:** Meet at UNL, Bioterrorism Task Force with Dr. Dennis Smith, 08/08
- 2002:** Antibiotic Subcommittee mtg, Healthcare Epidemiology, UNMC, 08/26
- 2002:** NTV Kearney interview re: Bioterrorism, 09/06
- 2002:** Present t STD meeting, Chalco Hills Recreation Center, 09/11
- 2002:** Forum held at UNMC Cooper Auditorium, "The Role of Background Checks in Bioterrorism Prevention", 09/18
- 2002:** USDA Bioterrorism meeting, UNMC, 09/19
- 2002:** Presentation and tour MUD Power Plant re: Safety of Omaha Power Plant, attending environmental health personnel and inspectors, 09/19
- 2002:** Region VII RCE Grant Proposal Development Meeting, Nebraska City, NE, 09/23
- 2002:** Faculty Women's Club presentation. "Bioterrorism as it Relates to the University of Nebraska Medical Center", UNMC, 09/25
- 2002:** Meet with Washington Post reporter regarding our Bioterrorism program, 10/07
- 2002:** Homeland Security Policy Group, S, Lincoln, NE, 10/08
- 2002:** Participation in Legislative Hearing regarding LR326, Lincoln, NE, 10/10
- 2002:** Bioterrorism Leadership Group Meeting, Lincoln, NE, 10/29
- 2002:** Speak regarding Bioterrorism on NPR, 10/31

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- 2002:** Participate in the visit of National Homeland Security Advisor, Thomas Ridge, 11/01
- 2002:** State Homeland Security Exercise Design Team/Smallpox orientation, UNL, 11/14
- 2002:** Present on smallpox at the Mini-Med Bioterrorism School, CON, 11/25
- 2002:** Bioterrorism Steering Cmte/Pre-event Smallpox vaccine, UNMC, 12/19
- 2002:** Attend Board of Regents Meeting re: Bioterrorism funding, Lincoln, NE, 12/14
- 2002:** Meet with Dr. D.A. Henderson in Washington, DC, 12/19
- 2003:** Rotary Club, "Overview of Progress and Program on Biosecurity", Council Bluffs, IA, 01/16
- 2003:** Keynote speaker at Lincoln Day Volunteer Recognition Breakfast, Omaha, NE, (attendee's volunteers for candidates who ran for office, i.e. Attorney General John Bruening), 2/22
- 2003:** Rotary Club, Omaha, NE, "Bioterrorism Preparedness", Omaha, NE (per Chancellor's request), 03/07
- 2003:** Strategic Air Space Museum. Invited by Young Republicans & participated with Lt. Gov Heineman & FEMA Region VIII Director David Maurstad re: "Homeland Security in the Heartland", 11/08
- 2003:** Omaha District Dental Society, "Biosecurity", Omaha, NE, 11/11
- 2003:** Nebraska Homeland Security Policy Forum, Lincoln, NE. Presentation on UNMC updates, 11/20
- 2003:** Children's Hospital Grand Rounds. Representing NPHL, participated in a round table discussion regarding, "Everything you wanted to know about Influenza but didn't know who to ask!" 12/12
- 2004:** Mini-Medical School – Spring. New Disease Threats, How Science is responding, "Emerging Diseases: What you should know, 21st Century Plagues: Is the Potential There?" 04/04
- 2004:** North Central Region Homeland Security Conference, Roundtable Discussion on Regional, State and Local Homeland Security Issues, Facilitated by Lt. Gov. Heineman, 04/21
- 2004:** Nebraska EPSCoR State Conference on Bioinformatics and Biomedical Computing, "Challenges and Opportunities in Biosecurity Preparedness." 04/21
- 2004:** Speaking engagement, Midwest Information Systems Professionals, "Bioterrorism Update to the Midwest Information Systems Professionals." Omaha, NE, 06/09/04
- 2004:** Speaking engagement, B'nai B'rith Lodge of Presidents, "Midwest Bioterrorism Updates." Omaha, NE 08/18/04
- 2004:** Bioterrorism Symposium Kearney NE 08/26/04
- 2004:** Alabama Assessment Ream Project, Birmingham, AL 09/13-14/04
- 2004:** ASTHO and APHL 2004 Annual Meeting, St. Paul, MN 09/28-09/30/04
- 2004:** Homeland Security Policy Group Meeting USPFO, Lincoln, NE 10/06/04
- 2004:** BT/WMD Incidents, Douglas County Health Department Civic Center, Omaha, NE 10/25/04
- 2004:** Western Douglas Rotary Club Speaking Engagement, St. Augustines, Omaha, NE 10/28/04
- 2004:** HRSA National Meeting, Washington DC, Mid America Alliance – A Regional Program of Mutual Assistance for Public Health Preparedness 12/8/04
- 2004:** APHL Next Step Phase 2 Project, Atlanta, GA 12/13-14/04
- 2004:** BT Advisory Committee Mid America Alliance Lincoln, NE 12/16/04

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- 2005: Grand Rounds, Omaha, NE 01/19/05
- 2005: APHL Council of Chairs Miami, FL 1/21
- 2005: Mid America Alliance Denver, CO 3/21
- 2005: Bioterrorism Symposium Norfolk, NE 4/21
- 2005: Mid America Region VIII HIS Health Directors Conference Salt Lake City, UT 5/17
- 2005: CDC Public Health Law Conference Atlanta, GA 6/13
- 2005: Bioterrorism Symposium Series Scottsbluff, NE 6/17
- 2005: APHL Annual Meeting Salt Lake City, UT 6/25
- 2005: 3M Plant with Lt. Governor Sheehy, Valley, NE 7/13
- 2005: APHL Board, Cambridge, MA 9/8
- 2005: North Central States Consortium Lansing Michigan 9/14
- 2005: Governor's Homeland Security Policy Group, Lincoln, NE 9/22
- 2005: TERREX Workshop, Grand Island, NE 10/14
- 2005: Gram Positive Pathogenesis Conference, Omaha NE 10/28
- 2005: Biocontainment Unit Conference, Omaha NE 11/8
- 2005: NCI, Rockville, MD 11/16
- 2006: APHL Board, Atlanta GA 1/8
- 2006: Senator Hagel briefing, Washington DC 1/25
- 2006: DARPA, Arlington, VA 1/26
- 2006: APHL Informatics, Silver Spring, MD 2/5
- 2006: Governor's Homeland Security Policy Group, Mahoney State Park, NE 2/22
- 2006: Pandemic Flu Response Summit, Governor Heineman, Secretary Michael Leavitt 2/23
- 2006: US Senate Subcommittee on Health Round Table Biosurveillance, Washington DC 3/6
- 2006: Bioterrorism Symposium Series, Omaha, NE 3/7
- 2006: Rotary Club, "Avian Influenza", Lincoln, NE 3/14
- 2006: IPP Region VIII, Kansas City, MO 3/23
- 2006: APHL Board, Silver Spring, MD, 3/24
- 2006: HISPC RFP, Lincoln, NE 4/3
- 2006: Bioterrorism Symposium Series, Norfolk, NE 4/5
- 2006: Lt. Governor Sheehy Avian Flu Update, Lincoln, NE 4/10
- 2006: Road Map for Public Health Informatics presented at the Bioterrorism Symposium Series, Norfolk, NE 4/5
- 2006: APHL / CDC, Atlanta, GA 4/28
- 2006: State Lab Tour, Lincoln, NE 5/1
- 2006: STRATCOM, Omaha, NE 5/8
- 2006: Road Map for Public Health Informatics presented at the Bioterrorism Symposium Series, Scottsbluff, NE 5/17
- 2006: ASTHO Public Health Information Network Requirements Gathering for Surveillance and Visualization, Washington, DC, 5/24
- 2006: APHL Board and Annual Meeting – presented Road Map for Public Health Informatics, Long Beach, CA 6/1
- 2006: Bioterrorism Advisory Committee, Lincoln, NE 6/7
- 2006: HISPC Steering Committee, Lincoln, NE 6/12
- 2006: HISPC Steering Committee, Lincoln, NE 6/29
- 2006: Road Map for Public Health Informatics presented at the Bioterrorism Symposium Series, Kearney, NE 6/30

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- 2006:** Governor's Homeland Security Policy Group Conference, Mahoney State Park, NE 7/11
- 2006:** Biosurveillance Data Steering Group, Washington, DC 8/18
- 2006:** Turning Point Public Health Stakeholders Group, Lincoln, NE 8/21
- 2006:** Society for Collegiate Travel Management presentation - Pandemics: The Newest Threat to Travelers, Amelia Island, Florida 9/17
- 2006:** Gram Positive Pathogens Conference, Omaha NE 10/16
- 2006:** APHL Council of Chairs, Atlanta, GA 10/18
- 2006:** Lt. Governor Table Top Pandemic Flu TEREX exercise, Lincoln, NE 10/26
- 2006:** CLIAC Work group, DCD, Atlanta GA, 11/2
- 2006:** DARPA, Arlington, VA 11/8
- 2006:** APHL Informatics Committee meeting, Silver Spring, MD 11/9
- 2006:** Avian Flu Forum presentation, UNMC, Omaha 11/13
- 2007:** Association of Medical School Microbiology & Immunology Chairs, San Juan 1/18
- 2007:** Board of Counselors – Avian Flu Preparedness, UNMC, Omaha 1/22
- 2007:** Amateur Radio Emergency Service, Avian Flu Preparedness, Ralston Fire Dept 1/24
- 2007:** Grand Rounds, Viral Diagnostic Tests, Children's Hospital, Omaha 1/26
- 2007:** Growing & Enhancing the Research Enterprise in Academic & Health Centers, Nashville 2/22
- 2007:** CSTE proposed legislation hearings, Washington DC 3/5
- 2007:** APHL Steering Committee meeting with CDC officials, Atlanta 3/7
- 2007:** Governor's Homeland Security Policy Group Conference, Lincoln 3/9
- 2007:** IPP Region VIII, Kansas City, MO 3/15
- 2007:** 2007 Nebraska Research & Innovation Conference Qwest Center, Omaha 3/21
- 2007:** AHIC Population Health Testimony, Washington DC 3/29
- 2007:** Road Map for Public Health Informatics presented at the Bioterrorism Symposium Series, Norfolk, NE 4/5
- 2007:** NGA Health Information Communication and Data Exchange Taskforce, Washington DC 5/15
- 2007:** APHL Board of Directors and Annual Meeting, Jacksonville, 5/31
- 2007:** NGA Health Information Communication and Data Exchange Taskforce, Washington DC 7/9
- 2007:** APHL Strategic Direction for PHL Interoperability Project, Atlanta, 8/8
- 2007:** APHL PHLIP JAD 2 Workgroup, Atlanta, 8/9
- 2007:** Governor's Homeland Policy Group Conference, Lincoln, 8/20
- 2007:** APHL Board of Directors meeting, Phoenix, 10/11
- 2007:** ELR / CDC / APHL meeting, Washington, DC 10/30
- 2007:** AF SAB, Brooks AFB, San Antonia 10/31
- 2007:** AF SAB, Wright Patterson AFB, Dayton 11/4
- 2007:** NGA HICDE taskforce, Atlanta 11/15
- 2007:** APHL Informatics meeting, Silver Spring, MD 12/6
- 2007:** Institute of Medicine of the National Academies Workshop on Research Priorities in Emergency Preparedness and Response for Public Health Systems, Washington DC 12/19
- 2008:** Lilly MDR TB Project with APHL/CDC, Washington DC 2/19
- 2008:** Health Information and Management Systems Society Annual Conference, Orlando, FL

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2/24-29

- 2008:** MAA Governance Board and Lab Directors Meeting, Bismarck, ND and Rapid City SA, 3/28 – 4/2
- 2008:** SPADA meeting, Washington, D.C., April 7,8
- 2008:** APHL Board and Annual Meeting, St. Louis, MO, May 15-20
- 2008:** APHL Strategic Planning, Silver Spring, MD June 5
- 2008:** CBMS Information Exchange Day, Washington, DC June 16
- 2008:** CDC National Biosurveillance Subcommittee, San Francisco CA August 11-12
- 2008:** CDC Biosurveillance Coordination Unit, Electronic Laboratory Information Exchange Forum, Atlanta, GA September 25
- 2008:** APHL Bioinformatics, Washington, D.C. December 10
- 2009:** CDC National Biosurveillance Subcommittee, Dallas, Texas January 8
- 2009:** PAN FLU meeting, Ankeny, IA, February 8
- 2009:** CDC Governance Planning Group, Atlanta, GA, March 30
- 2009:** DoD Collaboration, Tyndall AFB, Panama City, FL, April 7-10
- 2009:** Region VII IPP Kansas City, MO May 12-13
- 2009:** APHL Informatics Committee Rockville MD July 8
- 2009:** National Biosurveillance Advisory Subcommittee Chicago August 5-6
- 2009:** AAAR / AFRL meeting Minneapolis, October 27
- 2009:** FDA Washington DC November 3
- 2009:** CBMS Information Exchange Days Washington DC November 4-5
- 2009:** Midwest APC meeting Napa Valley CA November 11-15
- 2010:** APHL / CDC PHLIP Briefing Atlanta GA January 13
- 2010:** AMSMIC chairs, Mexico January 19-25

Information on teaching activities related to those in residency training (medical, pharmacy, etc.):

Microbiology/Virology Clinical Rotations

Clinical clerkships for 3rd and 4th year medical students

Clinical Pathology Conference Call (residents), Microbiology/Virology

Pediatric Resident Seminar (monthly)

Listing of continuing education lectures/courses given:

1. Biology and Medical Impact of *E. Coli* 0157, Nebraska LEAD Program (LEAD Fellows), lecturer, 03/04/2000
2. Present lecture for NE LEAD Program at UNMC/NHS, 02/17/01
3. CSF C Goal 3 Public Education re: Bioterrorism, CON, 06/25/02
4. Presented "Mycobacterial Diseases", Cardio/Pulmonary/Endo/ENT, 11/13/02
5. Presented Grand Rounds at Children's Hospital, Omaha. "Everything you wanted to know about Influenza but didn't know who to ask!" 12/12/03
6. Mini-Medical School Presentation, Intro to Virology 101, UNMC, 02/13/2003
7. Mini-Medical School Presentation, Infectious Diseases / Emerging Diseases: What you should know.

relevant for respiratory protection against nanoparticles. For research topics in which few recent papers. For respiratory protection against nanoparticles, it is important to understand whether nanoparticles behave differently than larger particles in terms of deviation from the evaluation of negative respirators. J Nanopart Res (2009) 11:1661–1672 1665. The Department of Defense (DOD) created the Defense Advanced Research Projects Agency (DARPA) in 1958.1 Originally called the Advanced Research Projects Agency, DARPA was established partly in response to the launch of the first Sputnik satellite by the former Soviet Union and partly in recognition of the need to invest resources toward promising concepts requiring a longer timeframe for development.2 In enforcement activities against United States persons without appropriate consultation with Congress or without clear adherence to principles to protect civil liberties and privacy. Aerospace Projects Office, a special projects office created in 2015, focused on the development of advanced aircraft technologies to ensure air dominance in future contested environments. RAND Project AIR FORCE. RAND Project AIR FORCE (PAF), a division of the RAND Corporation, is the U.S. Air Force's federally funded research and development center for studies and analyses. PAF provides the Air Force with independent analyses of policy alternatives affecting the development, employment, combat readiness, and support of current and future air, space, and cyber forces. Because of human-subjects protection protocols, I cannot thank them by name; their insights proved invaluable in understanding how Air Force strategic planning has evolved over the decades. viii. Abbreviations. Afm awpd CONUS csaf dod eagle fm fy isr qdr tac UAV.